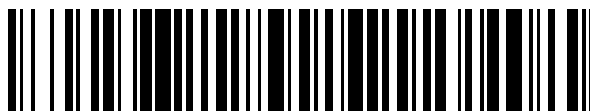


19



OFICINA ESPAÑOLA DE  
PATENTES Y MARCAS

ESPAÑA



11 Número de publicación: **2 784 246**

51 Int. Cl.:

**C12Q 1/68** (2008.01)

12

TRADUCCIÓN DE PATENTE EUROPEA

T3

86 Fecha de presentación y número de la solicitud internacional: **01.12.2014 PCT/EP2014/076143**

87 Fecha y número de publicación internacional: **11.06.2015 WO15082417**

96 Fecha de presentación y número de la solicitud europea: **01.12.2014 E 14833341 (2)**

97 Fecha y número de publicación de la concesión europea: **08.01.2020 EP 3077535**

54 Título: **Nuevos biomarcadores de ARN para el diagnóstico del cáncer de próstata**

30 Prioridad:

**02.12.2013 EP 13195377**

45 Fecha de publicación y mención en BOPI de la traducción de la patente:

**23.09.2020**

73 Titular/es:

**FRAUNHOFER-GESELLSCHAFT ZUR  
FÖRDERUNG DER ANGEWANDTEN  
FORSCHUNG E.V. (100.0%)  
Hansastraße 27  
80686 München, DE**

72 Inventor/es:

**HORN, FRIEDEMANN;  
HACKERMÜLLER, JÖRG;  
CHRIST, SABINA;  
REICHE, KRISTIN;  
WIRTH, MANFRED;  
FRÖHNER, MICHAEL y  
FÜSSEL, SUSANNE**

74 Agente/Representante:

**VEIGA SERRANO, Mikel**

**ES 2 784 246 T3**

Aviso: En el plazo de nueve meses a contar desde la fecha de publicación en el Boletín Europeo de Patentes, de la mención de concesión de la patente europea, cualquier persona podrá oponerse ante la Oficina Europea de Patentes a la patente concedida. La oposición deberá formularse por escrito y estar motivada; sólo se considerará como formulada una vez que se haya realizado el pago de la tasa de oposición (art. 99.1 del Convenio sobre Concesión de Patentes Europeas).

## DESCRIPCION

Nuevos biomarcadores de ARN para el diagnóstico del cáncer de próstata

5 **Sector de la técnica**

La presente invención se inscribe en el campo de la biología y la química. En particular, la invención se inscribe en el campo de la biología molecular. Más particularmente, la invención refiere al análisis de transcritos de ARN. En particular, la invención se inscribe en el campo del diagnóstico del cáncer de próstata.

10

**Estado de la técnica**

El cáncer de próstata es el tipo de cáncer más frecuentemente diagnosticado en hombres. En 2012, se informaron aproximadamente 240 000 nuevos casos de diagnóstico de cáncer de próstata en Estados Unidos y aproximadamente 360 000 en la Unión Europea, 68 000 de ellos en Alemania. En Estados Unidos, el riesgo de ser diagnosticado cáncer de próstata en algún momento de la vida es de 15,9 % y el riesgo de morir de cáncer de próstata es 2,8 %, respectivamente. A pesar de la adopción generalizada de los estudios de detección del cáncer de próstata y de grandes avances en el tratamiento de la enfermedad metastásica, el cáncer de próstata todavía es el segundo tipo de cáncer más mortal en hombres, con más de 250 000 muertes al año en el mundo occidental.

15

20

En la actualidad, los análisis de niveles séricos de antígeno prostático específico (PSA) y los exámenes de tacto rectal son los dos principales métodos de detección. A los pacientes que tienen resultados anómalos en estos estudios generalmente se les recomienda realizarse una biopsia de próstata. Sin embargo, esto tiene consecuencias considerables. La detección mediante análisis de PSA produce grandes cantidades de resultados falsos positivos, lo que deriva en la realización de biopsias de próstata innecesarias a millones de hombres cada año (sobrediagnóstico). Además, la realización de biopsias conlleva un riesgo sustancial de complicaciones infecciosas. Así, existe una necesidad urgente de contar con análisis de diagnóstico más sensibles y específicos para el diagnóstico temprano del cáncer de próstata con el fin de mejorar su detección y evitar la gran cantidad de biopsias de próstata innecesarias. La presente invención aborda este problema mediante un conjunto de biomarcadores para la detección y el diagnóstico del cáncer de próstata.

25

30

**Objeto de la invención**

Se empleó secuenciación de última generación de 64 muestras de pacientes con cáncer de próstata y controles para identificar transcritos diferencialmente expresos en las muestras de tejido tumoral respecto de las muestras de tejido de control. Estos resultados se validaron mediante análisis con microarreglos y con qRT-PCR de 256 y 56 muestras, respectivamente. La invención describe biomarcadores de ARN que, hasta el momento, no habían mostrado ser adecuados para usar en el diagnóstico del cáncer de próstata.

35

40

La invención refiere a un método para el diagnóstico del cáncer de próstata que comprende los pasos de analizar el nivel de expresión de un ácido nucleico seleccionado de entre el grupo de los ID. DE SEC. N.º 1 a 42, donde, si al menos uno de dichos ácidos nucleicos está presente y/o el nivel de expresión de al menos uno de dichos ácidos nucleicos es superior a un valor umbral, la muestra se identifica como un resultado de cáncer de próstata positivo.

45

En una realización preferente, la invención refiere a un método para el diagnóstico del cáncer de próstata que comprende los pasos de analizar en una muestra de un paciente el nivel de expresión de una variante de empalme (*splice variant*) del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, donde, si el nivel de expresión de dicho ácido nucleico es superior a un valor umbral, la muestra se identifica como un resultado de cáncer de próstata positivo.

50

En una realización, la invención refiere a un cebador (*primer*) o una sonda (*probe*) que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, o cualquier parte de esta.

55

La invención también refiere al uso de un cebador o una sonda que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 para el diagnóstico del cáncer de próstata.

60

La invención refiere a una sonda o un cebador, donde la sonda o el cebador son específicos para una secuencia de entre grupo de los ID. DE SEC. N.º 1 a 42, preferentemente para una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29.

65

La invención refiere a un ácido nucleico con una secuencia de entre el grupo de los ID. DE SEC. N.º 1 a 42 —o bien al complemento inverso de él— o a un ácido nucleico que tiene, preferentemente, al menos 85 %, 90 %, 95 % o 99 % de identidad a nivel de secuencia con un ácido nucleico de acuerdo con uno cualquiera de los ácidos nucleicos de los ID. DE SEC. N.º 1 a 42.

5 En una realización preferente, la invención refiere a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 —o bien al complemento inverso de ella— o a un ácido nucleico que tiene, preferentemente, al menos 85 %, 90 %, 95 % o 99 % de identidad a nivel de secuencia con el ácido nucleico seleccionado.

La invención refiere al uso de un ácido nucleico con una secuencia de entre el grupo de los ID. DE SEC. N.º 1 a 42 para el diagnóstico del cáncer de próstata.

15 En una realización preferente, la invención refiere al uso de una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 para el diagnóstico del cáncer.

20 La invención también refiere a un kit para el diagnóstico del cáncer de próstata que comprende un ácido nucleico que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, junto con reactivos para la amplificación y/o la cuantificación y/o la detección de ácidos nucleicos.

## 25 Definiciones

Se proveen las siguientes definiciones de ciertos términos que se utilizan en la solicitud.

30 En la presente, "ácido(s) nucleico(s)" o "molécula de ácidos nucleicos" hacen referencia, en general, a cualquier ácido ribonucleico o ácido desoxirribonucleico, que puede ser ADN no modificado o modificado. Los "ácidos nucleicos" incluyen, sin limitación, los ácidos nucleicos de hebra simple y de doble hebra. En la presente, el término "ácido(s) nucleico(s)" también incluye el ADN, de acuerdo con la definición anterior, que contenga una o más bases modificadas. Así, las moléculas de ADN con sus cadenas principales modificadas por fines de estabilidad o por otros motivos se consideran "ácidos nucleicos". En la presente, el término "ácidos nucleicos" abarca tales formas modificadas química, enzimática o metabólicamente de los ácidos nucleicos, así como las formas químicas de ADN características de los virus y las células, incluidas, por ejemplo, las células simples y complejas.

40 En el contexto de la presente, los términos "nivel" o "nivel de expresión" hacen referencia al nivel en que un biomarcador está presente en una muestra de un paciente. Para medir el nivel de expresión de un biomarcador, generalmente se compara su nivel de expresión con el nivel de uno o más genes constitutivos (*housekeeping*) en una muestra como normalización. La muestra del paciente se identifica como un resultado de cáncer de próstata positivo si el nivel de expresión del biomarcador supera el nivel de expresión del mismo biomarcador en un control adecuado (por ejemplo, un tejido saludable) por un valor superior a un umbral.

45 En la presente, los términos "analizar una muestra para detectar la presencia y/o el nivel de ácidos nucleicos" o "estimar específicamente los niveles de ácidos nucleicos" refieren a los medios y métodos empleados para evaluar y cuantificar los niveles de ácidos nucleicos. Un método útil para tal fin es, por ejemplo, la PCR con transcripción inversa cuantitativa. De manera similar, el nivel de ARN también puede analizarse mediante Northern blot, secuenciación de última generación o, después de la amplificación, mediante técnicas espectrométricas que incluyan medir la absorbancia a 260 y 280 nm.

50 En la presente, el término "amplificada", en relación con una secuencia de ácidos nucleicos, hace referencia a un proceso por el cual se generan una o más copias de una secuencia de ácidos nucleicos particular a partir de una secuencia de ácidos nucleicos molde, preferentemente mediante el método de la reacción en cadena de la polimerasa. Otros métodos de amplificación incluyen, sin carácter taxativo, la reacción en cadena de la ligasa (LCR), la amplificación de polinucleótidos basada en la secuencia (NSBA) o cualquier otro método conocido en la técnica.

55 En la presente, el término "correlacionar", en relación con el uso de uno o más marcadores de diagnóstico o pronóstico, hace referencia a comparar la presencia o la cantidad del/de los marcador(es) en una muestra de un paciente con su presencia o nivel de expresión en una muestra de una persona de la cual se sabe que padece determinada afección o tiene riesgo de padecerla. El nivel de un marcador en una muestra de un paciente se puede comparar con un nivel asociado con un diagnóstico determinado.

60 En la presente, el término "diagnóstico" hace referencia a la identificación de la enfermedad —en este caso el cáncer de próstata— en cualquier etapa de su desarrollo, y también incluye la determinación de la predisposición de un sujeto a desarrollar esta enfermedad.

- 5 El término "gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl" refiere a la anotación de una secuencia génica en la base de datos Ensembl. Los transcritos identificados con el mismo ID de gen pueden diferir en sus eventos de empalme y su composición exónica, y pueden dar lugar a proteínas muy diferentes. Estas son las isoformas producidas por el empalme alternativo. El ID del gen anterior en la base de datos Ensembl tiene varios equivalentes en otros sistemas de anotación, como RP11-627623.1 o locus (hg19) Chr11: 134,306,367-134,375,555 (+). Cualquier equivalente de esta anotación de Ensembl puede usarse en su lugar.
- 10 El término "variante de empalme" hace referencia al producto de un evento de empalme alternativo (*alternative splicing*). Los eventos de empalme alternativo incluyen la omisión o inclusión de exones, el uso de sitios de empalme 5' o 3' alternativos, y la retención de intrones.
- 15 En la presente, el término "colorante fluorescente" hace referencia a cualquier producto químico que absorbe energía lumínica a una longitud de onda específica y reemite luz a otra longitud de onda. Los colorantes fluorescentes adecuados para marcar ácidos nucleicos incluyen, por ejemplo, FAM (5-carboxifluoresceína o 6-carboxifluoresceína), VIC, NED, fluoresceína, FITC, IRD-700/800, CY3, CY5, CY3.5, CY5.5, HEX, TET, TAMRA, JOE, ROX, BODIPY TMR, Oregon Green, Rhodamine Green, Rhodamine Red, Texas Red, Yakima Yellow, Alexa Fluor, PET y similares.
- 20 En la presente, el término "aislado", en referencia a un ácido nucleico, significa que una secuencia que ocurre naturalmente se ha extraído de su entorno celular (p. ej., cromosomal) normal o se sintetiza en un ambiente no natural (p. ej., se sintetiza artificialmente). Así, una secuencia "aislada" puede encontrarse en una solución extracelular o en otro entrono celular.
- 25 En el contexto de la presente, un "kit" es una combinación de elementos en un paquete que, opcionalmente, incluye instrucciones para el uso de la combinación y/u otras reacciones o componentes para tal uso. Si el kit contiene ácidos nucleicos, el kit también puede comprender variantes sintéticas o no naturales de dichos ácidos nucleicos. Se entiende por ácido nucleico sintético o no natural a aquel que comprende cualquier modificación química, bioquímica o biológica tal que el ácido nucleico no se encuentre en la naturaleza en esa forma. Tales modificaciones incluyen, sin carácter taxativo, el marcado con un colorante fluorescente o una fracción inhibidora de fluorescencia (*quencher*), una marca de biotina, o bien una modificación en la cadena principal de un ácido nucleico o cualquier otra modificación que distinga al elemento de su contraparte natural. Lo mismo vale para otros compuestos naturales, como las proteínas, los lípidos, etc.
- 30 En la presente, el término "paciente" hace referencia a un organismo vivo humano o no humano que recibe atención médica o que debería recibir atención médica debido a una enfermedad, o del que se sospecha que tiene una enfermedad. Esto incluye a las personas que no tienen una enfermedad definida y que están siendo investigadas en busca de signos patológicos. Así, los métodos y análisis que se describen en la presente se aplican tanto a enfermedades humanas como a enfermedades veterinarias.
- 35 En la presente, el término "cebador" (*primer*) hace referencia a un ácido nucleico, sea que ocurra naturalmente (por ejemplo, en el producto purificado de una digestión enzimática) o se produzca sintéticamente, que sea capaz de actuar como punto de inicio de síntesis al colocarse en condiciones en las que se induce la síntesis de un producto de extensión del cebador, que es complementario a una hebra de ácido nucleico (p. ej., en presencia de nucleótidos y de un agente inductor, como una ADN polimerasa, y a una temperatura y un pH adecuados). El cebador puede ser de hebra simple o de doble hebra y debe ser suficientemente extenso para iniciar la síntesis del producto de extensión deseado en presencia del agente inductor. La longitud exacta del cebador dependerá de muchos factores, incluida la temperatura, el origen del cebador y los métodos empleados. Preferentemente, los cebadores tienen una longitud de aproximadamente 15 a 100 bases, más preferentemente de aproximadamente 20 a 50 bases y con máxima preferencia entre aproximadamente 20 y 40 bases. Los factores involucrados en la determinación de la longitud adecuada del cebador son bien conocidas para la persona razonablemente versada en la técnica. Opcionalmente, el cebador puede ser un elemento sintético, en el sentido de comprender una modificación química, bioquímica o biológica. Tales modificaciones incluyen, sin carácter taxativo, el marcado con un colorante fluorescente o una fracción inhibidora de fluorescencia (*quencher*), o bien una modificación en la cadena principal de un ácido nucleico o cualquier otra modificación que distinga al cebador de su ácido nucleico contraparte natural.
- 40 El término "sonda" hace referencia a cualquier elemento que pueda usarse para detectar específicamente una entidad biológica, como un ácido nucleico, una proteína o un lípido. Además de la parte que le permite unirse específicamente a la entidad biológica en cuestión, la sonda también comprende al menos una modificación que permita su detección en un análisis. Tales modificaciones incluyen, sin carácter taxativo, las marcas como los colorantes fluorescentes, un elemento radioactivo introducido específicamente o una marca de biotina. La sonda también puede comprender una modificación en su estructura, como un ácido nucleico bloqueado.
- 45
- 50
- 55
- 60
- 65

En el contexto de la presente, el término "muestra" hace referencia a una muestra de un fluido o tejido corporal obtenida para fines de diagnóstico, pronóstico o evaluación de un sujeto de interés, como un paciente. Las muestras de análisis preferentes incluyen las muestras de sangre, suero, plasma, líquido cefalorraquídeo, orina, saliva, esputo y derrames pleurales. Además, una persona versada en la técnica notará que ciertas muestras se podrían analizar más adecuadamente con ayuda de un procedimiento previo de fraccionamiento o purificación (por ejemplo, la separación de la sangre en suero y plasma).

Así, en una realización preferente de la invención, la muestra se selecciona de entre el grupo que comprende una muestra de sangre, una muestra de suero, una muestra de plasma, una muestra de líquido cefalorraquídeo, una muestra de saliva y una muestra de orina o cualquier extracto de cualquiera de las muestras anteriores, así como células tumorales circulantes en la sangre o la linfa, cualquier tejido del que se sospecha que contiene metástasis y cualquier fuente que pueda contener células tumorales prostáticas o partes de las mismas, incluidas las vesículas como los exosomas, las microvesículas y otras, así como las moléculas de ARN libres o unidas a proteínas derivadas de células tumorales prostáticas. Preferentemente, la muestra es una muestra de sangre, más preferentemente una muestra de suero o una muestra de plasma. Cabe señalar que la orina (particularmente después de un examen de tacto rectal) y el eyaculado se encuentran entre las muestras de máxima preferencia. Las muestras de tejido también pueden ser biopsias o muestras de tejido obtenidas durante una cirugía.

En la presente, el término "área bajo la curva (AUC)" describe el área bajo la curva de una curva de característica operativa del receptor (ROC) o curva ROC. El AUC hace referencia a la especificidad y sensibilidad de un biomarcador. Un marcador perfecto (con un AUC de 1,0) correspondería a un punto en la esquina superior izquierda o coordenadas (0,1) del espacio ROC, correspondiente a una sensibilidad de 100 % (ausencia de falsos negativos) y una especificidad de 100 % (ausencia de falsos positivos).

El término "valor  $p$ " hace referencia a la probabilidad de obtener los resultados observados en la muestra (o un valor más extremo) si la hipótesis nula es, en efecto, verdadero (p. ej., cuando no hay diferencias entre las medias de dos grupos). Cuanto menor es el valor  $p$ , mayor es la probabilidad de que la hipótesis alternativa explique los resultados observados mejor que la hipótesis nula.

El término "valor  $p$  ajustado" hace referencia a los valores  $p$  ajustados para compensar la realización de múltiples comparaciones (cantidad de genes o sondas analizados). El método aplicado se describe en detalle en la sección experimental.

### Descripción detallada de la invención

La invención describe un método para el diagnóstico del cáncer de próstata. Este método comprende analizar una muestra tomada de un paciente y determinar, de forma específica, el nivel de un biomarcador o una combinación de biomarcadores en dicha muestra del paciente. Luego, el resultado se correlaciona con un valor umbral y, si se encuentra por encima de dicho valor umbral, dicha muestra del paciente se identifica como un resultado positivo de cáncer de próstata.

La invención refiere a un grupo de secuencias que comprenden los ID DE SEC. N.ºs 1 a 42. Las secuencias se enumeran a continuación. Por cuestiones de espacio, solo se enumeran los primeros 100 nucleótidos. El resto de las secuencias se pueden consultar en el protocolo de secuencias.

Hay dos tipos de secuencias. En primer lugar, algunos transcritos son secuencias conocidas que ya están anotadas en las bases de datos relevantes. Estas se identifican con sus correspondientes anotaciones. En segundo lugar, se identificaron transcritos nuevos que aún no están anotados. Estos se identifican con la leyenda "XLOC\_" seguida por un número. Estas identificaciones brindan información sobre el origen genómico de los transcritos, pero podrían no representar necesariamente la secuencia completa de un transcrito dado. En algunos casos, las secuencias efectivamente detectadas podrían ser más largas o más cortas. En el caso de los transcritos XLOC, si se detectan fragmentos, estos pueden ser de apenas 1000, 500, 400, 300, 200, 150, 100, 50, 40, 30, 20, 10, 9, 8, 7, 6 o 5 nucleótidos.

**Tabla 1: Lista de N.ºs DE ID DE SEC.** Se muestran los ID DE SEC. N.ºs 1 a 42, junto con las anotaciones de transcritos y genes correspondientes. Se muestran los primeros 100 nucleótidos de cada N.º DE ID DE SEC.

ID DE SEC.	Transcripto	Anotación del gen/transcripto	Secuencia
1	1	Retro-RPL7 ID del gen en Ensembl: ENSG00000242899.1 Locus (hg19): Chr3: 131,962,301-131,963,125 (-) ID del/de los transcripto(s) en Ensembl: ENST00000479738.1	Ttttcggctggaaccatggagggtgtgaag agaagaagaaggtcctgctgtgccagaaac cctaagaaaaagtgaaggaatttcacagag ctgaag

ES 2 784 246 T3

2	2	XLOC_133897 ID del gen en Ensembl: ninguno Locus (hg19): chr20: 45,377,600-45,380,719 (-) ID del/de los transcripto(s) en Ensembl: ninguno Incluye las siguientes entradas de GenBank: AK128800.1, BC065739.1	gcccgccttctgtgactccacccttacggaaag tctatgggactctctgaaatgatgatgatact gttagaaagcggcaagaaaatgaaagaa aacg
3	3	AC144450.2 ID del gen en Ensembl: ENSG00000203635.2 Locus (hg19): Chr2: 1,624,282-1,629,191 (-) ID del/de los transcripto(s) en Ensembl: ENST00000366424	attgccacagccggatccacgggtgactaatc tccgggaaggcgtccagcgtgagccgtgagg cctgcacctgcgccgactcaccactcacca ggagt
4	4	RP11-279F6.1 ID del gen en Ensembl: ENSG00000245750.3 Locus (hg19): Chr15: 69,755,365-69,863,775 (+) ID del transcripto en Ensembl: ENST00000558633	caggaatgggctggggcgcgtttgtagtggg aatcctgagccgggctgtgtctggaggactc gggagcagcagtgatttcggcgttaccagg agag
5	4	ENST00000558309	ttcggcgttaccaggagagctatgtataggaat gccgctatggaaagacatccaggacacctgt taagtgaaaaagacatgccaccattagggc ttca
6	4	ENST00000560882	gaggcccacattgtgctggggaaggagctc cagaaaggccatccttctgtttggtcagat ctgaacactttgttaaaggctctggaagctc
7	4	ENST00000559029	Gactggagaggccagcacgcacagtgactt aatccaagaagatggaataaAaaggcctac ctcattggcctcgtgtgggtgaggagaactga agagtctg
8	4	ENST00000558781	Ctggcctccagctccaagccttctacctgtgg aatgctgtgccaatTctggggcaccactct tactccaaactcctccagatctgcagagtggc c
9	4	ENST00000498938	Ggagctggtccaggaaagaaggccacatg agcaaacatgatggccccttatgagaggtaa ttactgaaatgcacagcgattacctgctcacc cagcc
10	4	ENST00000559477	aggaactggaataactgcagtgcttgcagt attgtgaaaccagcaacTgttcacaattctct gaatttctgggaaattgaagtggagtacctg
11	5	AC144450.1 ID del gen en Ensembl: ENSG00000228613.1 Locus (hg19): Chr2: 1,550,437-1,623,885 (-) ID del/de los transcripto(s) en Ensembl: ENST00000438247.1	cagttttcacaggcctgtgtgccgagagtgtcc ttaccatttttattattctgctaaggaggattt ttagacattatgttctagcaagccct
12	6	AC012531.25 ID del gen en Ensembl: ENSG00000260597.1 Locus (hg19): Chr12: 54,413,694-54,416,373 (+) ID del/de los transcripto(s) en Ensembl: ENST00000562848.1	caagacagaggcaagcagagaaggcatag cagcagcgaccggcgtctgtttcattttccac tctggccaggggataaactggaccctgagg actcca

ES 2 784 246 T3

13	7	XLOC_068574 ID del gen en Ensembl: ninguno Locus (hg19): chr14: 62,653,302-62,655,723 (+) ID del/de los transcripto(s) en Ensembl: ninguno	ggtaacatgaaaataatggatgagcagttcaa ctatattaaataaacgtggtaagagtgctc accttaagtgtaggattgaaagtgtaggctca a
14	8	RP1-207H1.3 ID del gen en Ensembl: ENSG00000231150.1 Locus (hg19): chr6: 38,890,805-38,920,875 (-) ID del transcripto en Ensembl: ENST00000416948.1	Tgaagcccatgagccactagaagccacatgt tctgccatgtggagaagaatgagagagtacat cctcaaattgaggtgtggcatgatgattggctg ccc
15	8	ENST00000453417.1	cttcaagggcctgtgcctgtgtaactgtctatg agccaggatatactgaagcatatttgacaaca gaaaaagtaatgtaatttcaaggaaaaaac g
16	8	ENST00000418399.1	atatctgaagcatatttgacaacagaaaaagtt aatgtaatttcaaaggaaaaacgccactttt tcaaaaaggaaacagcaactggagagcag attt
17	9	XLOC_016724 ID del gen en Ensembl: ninguno Locus (hg19): chr1: 177,827,793-177,841,757 (-)	Atcccctctgagaatttatcagaaaaacaagc aataagtgagaccaacgtgtgaggtattaact cggaaccgtcatctatcctgtggagaaaaaac ccg
18	10	RP11-314013.1 ID del gen en Ensembl: ENSG00000260896 Locus (hg19): Chr16: 80,862,632-80,926,492 (-) ID del transcripto en Ensembl: ENST00000562231	ttcttttgttctgcctccgtagaagatgtggct tgctcatgctgactctgccatggtgtgaggcc tcccagccatgtggaactgttttcagg
19	10	ENST00000569356	Aggggttccgctttgtcttctcattttctctg ctgctgccattTcgctcccgcctgattctga ggcctcccagctatgtggaactgtaag
20	10	ENST00000561519	Aaaagactatcttcccattgaattaaattgga actttggaatctaatAgaaaaccaactgactt ggctggtttcagggtgctggttccatggctct
21	10	ENST00000563626	Cttgctcatgctgactctgccatggtgtgagg cctcccagccatgtGgaactgtttcagggtgc tgggtccatggctcttctgagccgaaaaataa
22	11	XLOC_167596 ID del gen en Ensembl: ninguno Locus (hg19): chr4: 67,964,836- 67,975,652 (-)	Ctcttctctccttcccttctcctccctccctcc ctctctctctcttcttcttcttcttcttcttct ttcttcttcttctt
23	12	XLOC_167595 ID del gen en Ensembl: Locus (hg19): chr4: 67,946,236-67,964,614 (-)	Aaacatacgtgtgcatgtgtctttatggcagcat gattataatcctttgggatatactcagtaatgg gatggctgggtcaaatggtatttctagtct
24	13	XLOC_156132 ID del gen en Ensembl: ninguno Locus (hg19): chr3: 193,632,725- 193,636,178 (-)	agtatgtgcattgtacctgtcttgtttctcaact ttgtgctgtttCtgaattccctcattcattctac ctctgcatgctgaaagtctttgt
25	14	XLOC_156120 ID del gen en Ensembl: ninguno Locus (hg19): chr3: 193,580,748-193,608,459 (-)	Accaaaggacatgcgaaaacttttgggtgga tggatagtcataatcttattgtggtgactgttc acacatgtgtacatatatcaactcatcaa
26	15	RP11-627G23.1 ID del gen en Ensembl: ENSG00000255545.3 Locus (hg19): Chr11: 134,306,367-134,375,555 (+) ID del transcripto en Ensembl: ENST00000533390	cttctcggggttgcctccaggcctgacttttact ccccttctaagtggtgagatgggatgtgctctc cacaggaggccccacggctccccacccc

ES 2 784 246 T3

27	15	ENST00000531319	Ctgtctcaagcctccaatcaacagatcagac agcttgactcacaggccaaggacagtgga aagaggctcaatttctagatgggtggcaaca gccatg
28	15	ENST00000528482	Gaggcagccatgactggccactcatgtgctc ctggagaagggctgcaccagccggttcagg aaagtcaagcagctgtgactcctgagctgg gtga
29	15	ENST00000532886	Caaatgctggcagcgtcctcggtctcacct gccatagccgacagtggtgacctccatgcc tgttgcttttctctgttgatcagggatacac
30	16	XLOC_047797 ID del gen en Ensembl: ninguno Locus (hg19): chr12: 75,378,181-75,383,176 (+)	Aagatgggacaatttttctcctctggtttcttata attattgtacccttttctggaataatctttcatctt gttcatctgtcaatgcctgctgt
31	17	ANKRD34B ID del gen en Ensembl: ENSG00000189127.3 Locus (hg19): Chr5: 79,852,574-79,866,307 (-) ID del transcripto en Ensembl: ENST00000338682	Agctgctggccccctgggtccagaggagcc ttgccgccccacctgcgcagagcctggagcc gacgcgtcacccccagcgaagcgcctcgct gccccg
32	17	ENST00000508916	Agctcagctcagacggcgccctagggccgc acagaggtcgggcagtgccggagagaggt ttgaaagcgcgcgcgccaactcgacagcgc gtcccaggaa
33	18	XLOC_243739 ID del gen en Ensembl: ninguno Locus (hg19): chr9: 79,530,077-79,542,427 (-)	aaacagaaaagaaatgggattttatgaaa aatgttaaaggctagctctgttaggatttccat gacattgcagtggtgacatggctggtgatgtgc c
34	19	XLOC_198292 ID del gen en Ensembl: ninguno Locus (hg19): chr6: 148,396,831-148,428,362 (+)	tccctccctcctcctcctcctccttctcctt cagtttctcctcctaatgccctgtccttaaa aatgtctccattcaggcactatgca
35	20	XLOC_068639 ID del gen en Ensembl: ninguno Locus (hg19): chr14: 62,931,844-62,933,233 (+)	Ccaagatttctcatccatggttcaactaagaat attttattctcctcagtgaaattttacaattagga ttgcaaaaactacatactcaggtagatc
36	21	XLOC_172083 ID del gen en Ensembl: ninguno Locus (hg19): chr4: 169,961,616-169,999,957 (-)	cactgcagctctcctcctcctggttaagcaatt ctctgcctcagctcctgagtagctgggacca caggcgtcaccaccacgcatggctcattttg
37	22	XLOC_172082 ID del gen en Ensembl: ninguno Locus (hg19): chr4: 169,947,628-169,961,481 (-)	Agatgatccgcccgcctccgctcccaaagtgc tgggattacaggtgtgagccactgcgcctggc cgctgctcttatactattttgaaatgtaggcggcc g
38	23	XLOC_112832 ID del gen en Ensembl: ninguno Locus (hg19): chr2: 123,297,707-123,644,538 (+)	Agcagatggcattgagcaaacactgcaaa aggtgaggaagatagccatcatagctgatgg aaaagcaaaaacaaagtcataaggaaga attgtactc
39	24	XLOC_243747 ID del gen en Ensembl: ninguno Locus (hg19): chr9: 79,622,778-79,633,361 (-)	Cccgcagctgcgccccaccggggccaccaa gcacgggtggaggggaaacaggacactgcct tcttgcttctctctctgcatcctccttccgc ccc
40	25	XLOC_243744 ID del gen en Ensembl: ninguno Locus (hg19): chr9: 79,601,892-79,606,132 (-)	atgtgccaccacacctggctgatttttattttta gtagagatgggatataccatataaccaaga tggtctcgattacctgacctgtagtccgcc



41	26	XLOC_126289 ID del gen en Ensembl: ninguno Locus (hg19): chr2: 180,988,687-180,989,287 (-)	Cctgtgcatctaatttagtggggggcagacctg tttcacaagccaaaataacaggctgcaataac tgaggatttatataccctgaccaagaagtt t
42	27	XLOC_172084 ID del gen en Ensembl: ninguno Locus (hg19): chr4: 169,983,995-169,984,246 (-)	attgtggaactgctcttctccctgcgattcagag gggaaaagataaagccacacagccctggg gcctcttgctaagaacacatctcagtttaacca cc

El biomarcador PCA3 se usa rutinariamente para el diagnóstico del carcinoma de próstata (CaP). Así, como era de esperar, los niveles de expresión de PCA3 fueron indicativos del CaP en los sujetos analizados mediante secuenciación de última generación por los inventores (Fig. 2). Sin embargo, se observó que el biomarcador tenía su máximo nivel de expresión en tumores de muy bajo riesgo (V) y disminuía a medida que aumentaba el factor de riesgo de los tumores. Este hallazgo convierte al PCA3 en un marcador poco confiable en los tumores de riesgo medio y alto e indica la necesidad de contar con biomarcadores superiores para el cáncer de próstata.

Muchos de los nuevos biomarcadores descubiertos por los inventores son considerablemente superiores en términos de especificidad y sensibilidad que el PCA3. Por ejemplo, el biomarcador Retro-RPL7 (ID DE SEC. N.º 1) arrojó un área bajo la curva ROC (AUC) de 0,935, en comparación con un valor de 0,851 en el caso del PCA3 (Fig. 3).

Se descubrió que el nuevo biomarcador correspondiente a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 tenía una expresión diferencial marcada entre los pacientes con tumores y los pacientes de control, como se muestra en la Fig. 4. El área bajo la curva ROC de este biomarcador en el experimento de secuenciación fue de 0,944. La expresión diferencial de los ID. DE SEC. N.º 26 a 29 pudieron validarse mediante análisis con microarreglos hechos a medida de 256 muestras de tejido (Fig. 5).

Así, la invención refiere a un método para el diagnóstico del cáncer de próstata que comprende los pasos de analizar el nivel de expresión del ácido nucleico del ID. DE SEC. N.º 1 al 42, donde, si al menos uno de dichos ácidos nucleicos está presente y/o el nivel de expresión de al menos uno de dichos ácidos nucleicos es superior a un valor umbral, la muestra se identifica como un resultado de cáncer de próstata positivo.

En una realización preferente, la invención refiere a un método para el diagnóstico del cáncer de próstata que comprende los pasos de analizar en una muestra de un paciente el nivel de expresión de una variante de empalme (*splice variant*) del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, donde, si el nivel de expresión de dicho ácido nucleico es superior a un valor umbral, la muestra se identifica como un resultado de cáncer de próstata positivo.

En una realización más preferente, la invención refiere a un método para el diagnóstico del cáncer de próstata que comprende los pasos de analizar en una muestra de un paciente el nivel de expresión de una variante de empalme (*splice variant*) del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que consiste en el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, donde, si el nivel de expresión de dicho ácido nucleico es superior a un valor umbral, la muestra se identifica como un resultado de cáncer de próstata positivo.

En una realización alternativa, analizar el nivel de expresión de un ácido nucleico significa analizar el complemento inverso o el ADNc del ácido nucleico.

En una realización preferente, la muestra se selecciona de entre el grupo que comprende tejido prostático, una biopsia, nodos linfáticos, orina, eyaculado, sangre, suero sanguíneo, plasma sanguíneo, células tumorales circulantes en sangre o linfa y cualquier tejido del que se sospeche que contiene metástasis, así como cualquier otra fuente que pueda contener células prostáticas tumorales, incluidas las vesículas como los exosomas, las microvesículas y otras, así como las moléculas de ARN libres o unidas a proteínas derivadas de células tumorales prostáticas. o partes de las anteriores. Más preferentemente, la muestra es orina y, con máxima preferencial, la muestra es orina obtenida de un paciente tras un examen de tacto rectal.

Los resultados experimentales demuestran que los nuevos biomarcadores tienen alta especificidad y sensibilidad para la detección del CaP.

Idealmente, el nivel de expresión de un transcrito de los ácidos nucleicos de acuerdo con los ID DE SEC. N.º 1 a 42, más preferentemente una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base

de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, se compara con el nivel de expresión de uno o varios otros transcritos de genes en la muestra, por ejemplo, de genes constitutivos (*housekeeping*). En la Tabla 2 se muestran algunos ejemplos de genes constitutivos adecuados:

5

**Tabla 2:** Ejemplos de genes constitutivos (*housekeeping*) adecuados

10

**Nombre del gen constitutivo (*housekeeping*)**

GAPDH: gliceraldehído-3-fosfato deshidrogenasa

HPRT1: hipoxantina fosforibosiltransferasa 1

15

HMBS: hidroximetilbilano sintasa

TBP: proteína de unión a TATA

20

El umbral es la mínima diferencia de expresión entre la muestra bajo análisis y la muestra de control para la cual la muestra se identifica como un resultado de cáncer positivo.

25

Idealmente, el valor umbral de la diferencia en el nivel de expresión del biomarcador entre la muestra bajo análisis y la muestra de control es de 1,5 veces ( $\pm 20\%$ ), 2 veces ( $\pm 20\%$ ), 3 veces ( $\pm 20\%$ ), 4 veces ( $\pm 20\%$ ) y, con máxima preferencia, 5 veces ( $\pm 20\%$ ) o más. El valor  $p$  es menor a  $2 \times 10^{-5}$ . La tasa de falsos descubrimientos (FDR) es, preferentemente, menor a  $5 \times 10^{-4}$ .

30

Para una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, el umbral para asignar a una muestra un resultado positivo de cáncer de próstata es, preferentemente, un aumento de 2 veces en el nivel de expresión entre la muestra bajo análisis y la muestra de control.

35

La invención refiere a la cuantificación del nivel de expresión de biomarcadores de ARN. Luego de la amplificación, la cuantificación es sencilla y puede lograrse mediante diversos métodos. En el caso de que se utilicen cebadores al menos uno de los cuales tiene un colorante fluorescente unido, se puede realizar una cuantificación a partir de la señal fluorescente del colorante. Existen distintos tipos de sistemas de cebadores y de colorantes, tales como SYBR Green, las sondas múltiplex, las sondas TaqMan, las sondas moleculares y los cebadores Scorpion. Estos son adecuados, por ejemplo, para realizar métodos basados en PCR, como la PCR cuantitativa con transcripción inversa (qRT-PCR). Otros medios posibles de cuantificación son los Northern blots, la secuenciación de última generación y las mediciones de absorbancia a 260 y 280 nm.

40

45

Cualquier método adecuado para la cuantificación de ácidos nucleicos puede usarse para analizar los niveles de expresión de ácidos nucleicos. En una realización de la invención, el análisis del método se realiza mediante una determinación basada en fluorescencia. En una realización preferente, el análisis se realiza midiendo la fluorescencia de un cebador marcado, una sonda marcada o un agente de detección fluorescente (como SYBR Green). Más preferentemente, este análisis del nivel de expresión se realiza mediante qRT-PCR. En este método, luego de la transcripción inversa, la muestra se mezcla con un cebador directo (*forward*) o inverso (*reverse*) que es específico para al menos un ácido nucleico seleccionado de entre el grupo de los ID. DE SEC. N.ºs 1 a 42, preferentemente una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, y, luego, se realiza una amplificación. Las sondas o los cebadores están diseñados de tal manera que hibridan en condiciones estrictas con tal secuencia blanco.

55

En una realización, el análisis del nivel de expresión se realiza mediante secuenciación de última generación.

60

En una realización alternativa, se analiza y/o cuantifica el producto proteico de uno de los ID DE SEC. N.ºs 1 a 42, preferentemente los ID. DE SEC. N.ºs 26 a 29.

65

La invención también refiere a un ácido nucleico que hibrida en condiciones estrictas con uno de los ácidos nucleicos con el ID. DE SEC. N.º 1 a 42.

65

En una realización preferente, la invención refiere a un cebador o una sonda que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28

y el ID. DE SEC. N.º 29, o cualquier parte de esta, donde dicho cebador o sonda es, preferentemente, una sonda marcada.

5 En una realización preferente de la invención, el cebador o sonda que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 tiene aproximadamente entre 5 y 500 nt de longitud, más preferentemente entre 10 y 200 nt, e incluso más preferentemente entre 10 y 100 nt. En la realización de máxima preferencia, tal ácido nucleico tiene 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 o 30 nt de longitud.

10 En una realización de la invención, el cebador o sonda que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 comprende una marca detectable. En una realización incluso más preferente, el cebador o sonda que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 comprende, además, una fracción inhibidora de fluorescencia (*quencher moiety*).

15 La invención también refiere al uso de un cebador o una sonda que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 para el diagnóstico del cáncer de próstata.

20 En una realización preferente, la invención refiere a un cebador o una sonda que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que consiste en el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, o cualquier parte de esta, donde dicho cebador o sonda es, preferentemente, una sonda marcada.

25 La invención refiere, además, a un ácido nucleico con una secuencia de entre el grupo de los ID. DE SEC. N.º 1 a 42 —o bien al complemento inverso de él— o a un ácido nucleico que tiene, preferentemente, al menos 85 %, 90 %, 95 % o 99 % de identidad a nivel de secuencia con un ácido nucleico de acuerdo con uno cualquiera de los ácidos nucleicos de los ID. DE SEC. N.º 1 a 42.

30 En una realización preferente, la invención refiere a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 —o bien al complemento inverso de ella— o a un ácido nucleico que tiene, preferentemente, al menos 85 %, 90 %, 95 % o 99 % de identidad a nivel de secuencia con el ácido nucleico seleccionado.

35 En una realización más preferente, la invención refiere a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que consiste en el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 —o bien al complemento inverso de ella— o a un ácido nucleico que tiene, preferentemente, al menos 85 %, 90 %, 95 % o 99 % de identidad a nivel de secuencia con el ácido nucleico seleccionado.

40 La invención también refiere al uso de un ácido nucleico con una secuencia de entre el grupo de los ID. DE SEC. N.º 1 a 42 para el diagnóstico del cáncer de próstata.

45 En una realización preferente, la invención refiere al uso de una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 —o bien al complemento inverso de ella— para el diagnóstico del cáncer.

50 En una realización más preferente, la invención refiere al uso de una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que consiste en el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 —o bien al complemento inverso de ella— para el diagnóstico del cáncer.

55 La invención también refiere a un kit para la detección y/o el diagnóstico del cáncer de próstata que comprende una sonda o un cebador que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29. El kit puede contener más de un ácido nucleico. En una realización preferente, el kit comprende, además, reactivos para la amplificación, cuantificación y/o detección de ácidos nucleicos. En otra realización, el kit comprende muestras de control.

En una realización preferente, la invención también refiere a un kit para la detección y/o el diagnóstico del cáncer de próstata que comprende una sonda o un cebador que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que consiste en el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29. El kit puede contener más de un ácido nucleico. En una realización preferente, el kit comprende, además, reactivos para la amplificación, cuantificación y/o detección de ácidos nucleicos. En otra realización, el kit comprende muestras de control.

En una realización alternativa, la invención refiere a un método para el tratamiento y el diagnóstico del cáncer de próstata que comprende los pasos de analizar en una muestra de un paciente el nivel de expresión de una variante de empalme (*splice variant*) del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, donde, si el nivel de expresión de dicho ácido nucleico es superior a un valor umbral, la muestra se identifica como un resultado de cáncer de próstata positivo; y administrar al paciente uno o más agentes terapéuticos para el tratamiento del cáncer de próstata.

En una realización preferente, la invención refiere a un método para el tratamiento y el diagnóstico del cáncer de próstata que comprende los pasos de analizar en una muestra de un paciente el nivel de expresión de una variante de empalme (*splice variant*) del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que consiste en el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, donde, si el nivel de expresión de dicho ácido nucleico es superior a un valor umbral, la muestra se identifica como un resultado de cáncer de próstata positivo; y administrar al paciente uno o más agentes terapéuticos para el tratamiento del cáncer de próstata.

En una realización, los agentes terapéuticos para el tratamiento del cáncer de próstata comprenden: docetaxel (Taxotere®); cabazitaxel (Jevtana®); mitoxantrona (Novantrone®); estramustina (Emcyt®); doxorubicina (Adriamycin®); etopósido (VP-16); vinblastina (Velban®); paclitaxel (Taxol®); carboplatino (Paraplatin®); acetato de abiraterona, bicalutamida (Casodex®), degarelix, enzalutamida, acetato de goserelina, acetato de leuprolida, prednisona, sipuleucel-T, dicloruro de radio 223 y/o vinorelbina (Navelbine®).

### Descripción detallada de la invención

Como se apreciará en los ejemplos siguientes, la invención divulga biomarcadores para el cáncer de próstata que permiten un diagnóstico de la enfermedad más preciso y sensible que los biomarcadores actuales.

### EJEMPLOS

#### Materiales y métodos

##### Cohorte clínica

Pacientes con carcinoma de próstata (CaP) sometidos a prostatectomía radical (PR) o cirugía para extirpar una hiperplasia prostática benigna (HPB) en el Hospital Universitario de Dresde se incluyeron en una cohorte clínica retrospectiva con el objetivo de identificar nuevos biomarcadores para el CaP. Se obtuvo la aprobación del comité de ética local, así como el consentimiento informado de los pacientes, de conformidad con las normas legales vigentes. Se recogieron datos sobre el seguimiento clínico de los pacientes con CaP durante al menos cinco años.

Se usó secuenciación de ARN a nivel de todo el genoma sobre muestras de tejido prostático de una cohorte de 40 pacientes con CaP y 8 pacientes con HPB para la identificación de biomarcadores relevantes para el diagnóstico. Se definieron cuatro grupos de CaP de acuerdo con las etapas definidas por Gleason (The Veteran's Administration Cooperative Urologic Research Group: histologic grading and clinical staging of prostatic carcinoma; en Tannenbaum, M. Urologic Pathology: The Prostate, Philadelphia: Lea and Febiger. Pp. 171-198), así como la presencia de metástasis en los nodos linfáticos adyacentes al momento de la PR (véase la Tabla 3).

**Tabla 3:** Cohorte de CaP para detección mediante secuenciación de ARN a nivel de todo el genoma: El grupo de control (C) consiste en muestras de HPB. Los grupos de muy bajo riesgo (V) y de bajo riesgo (L) comprenden muestras de pacientes con un puntaje de Gleason (GS) menor a 7 o igual a 7, respectivamente, todos sin metástasis en nodos linfáticos (pN0). El grupo de riesgo medio (M) comprende los casos con un GS menor o igual a 7 que exhiben metástasis en nodos linfáticos (pN+), mientras que el grupo de alto riesgo (H) consiste en los tejidos con un GS mayor a 7. En este último, se analizaron pares de muestras con y sin tumor obtenidas del mismo paciente.

Grupo	C	V	L	M	H
Puntaje de Gleason (GS)	HPB	GS<7	GS=7	GS<=7	GS>7

Metástasis en nodos		pN0	pN0	pN+	pN0		pN+	
tejido	control	tumor	tumor	tumor	tumor	sin tumor	tumor	sin tumor
cantidad de muestras	8	8	8	8	8	8	8	8

Los biomarcadores candidatos seleccionados se validaron posteriormente mediante el uso de microarreglos hechos a medida y de PCR cuantitativa en tiempo real con transcripción inversa (qRT-PCR) en cohortes de 256 pacientes (40 muestras de HPB como control y 216 muestras de tumor) y 56 pacientes (16 muestras de HPB como control y 40 muestras de tumor).

### Muestras de tejido prostático

Se obtuvieron muestras de tejido prostático de cirugías realizadas en el Departamento de Urología del Hospital Universitario de Dresde y se las almacenó en nitrógeno líquido en el Centro Integral del Cáncer de la Universidad de Dresde. Las muestras de tejido prostático obtenidas de prostatectomías radicales (PR) de pacientes con carcinoma de próstata (CaP) se dividieron en muestras con tumor y muestras sin tumor. Las muestras de tejido prostático de pacientes con hiperplasia prostática benigna (HPB) se usaron como controles. En todos los casos se obtuvo el consentimiento de los pacientes.

Para verificar el estado de las muestras y su contenido de células tumorales, todas las muestras se dividieron en una serie de criosecciones. Para ello, muestras de tejido congeladas se sumergieron en compuesto Tissue-Tek OCT (Sakura Finetek GmbH) y se fijaron sobre buriles metálicos por congelación. Las criosecciones se prepararon con un criomicrotomo (Leica) equipado con una cuchilla de microtomo C35 (FEATHER) enfriada a -28 °C. Cada muestra se cortó en un total de 208 criosecciones, 4 de las cuales se tiñeron con HE y fueron evaluadas por un patólogo en relación con su contenido de células tumorales (Fig. 1). De este modo, se obtuvieron 3 pilas de criosecciones consecutivas, cada una con secciones teñidas con HE a cada lado. Únicamente se usaron como muestras de tumor y muestras sin tumor pilas que tuvieran a cada lado secciones con al menos 60 % o a lo sumo 5 % de células tumorales, respectivamente. Luego, 50 criosecciones de las pilas seleccionadas se sometieron a una preparación de ARN.

### Aislamiento de ARN

Se aisló ARN total del tejido criopreservado con Qiazol y el kit miRNeasy Mini Kit en un instrumento QIAcube (todos ellos de Qiagen), seguido por una digestión manual con ADNasa I. La concentración de ARN se determinó con un instrumento Nanodrop 1000 (Peqlab). La integridad del ARN se verificó en un instrumento Agilent Bioanalyzer 2100 (Agilent Technologies, Palo Alto, California), y únicamente se continuaron procesando las muestras con un número de integridad del ARN (RIN) mayor o igual a 6.

### Secuenciación de última generación de ARN largo a nivel de todo el genoma

Se realizó secuenciación de última generación de ARN largo a nivel de todo el genoma sobre un subconjunto de la cohorte retrospectiva de CaP que comprendía 8 muestras de tejido prostático de hiperplasia prostática benigna (HPB) como control y 56 muestras de pacientes con cáncer de próstata (incluidos pares de tejido tumoral y sin tumor de muestras con un puntaje de Gleason mayor a 7). Se eliminó el ARN ribosómico de 1 µg de ARN total con el kit Ribo-Zero rRNA Removal Kit (Epicentre). Las bibliotecas de secuenciación se prepararon a partir de 50 ng de ARN sin ARNr con el kit ScriptSeq v2 RNA-Seq Library Preparation Kit (Epicentre). El ADNc doblemente marcado se purificó con el kit Agencourt AMPure XP System Kit (Beckman Coulter). Se realizaron 10 ciclos de PCR para amplificar las bibliotecas de ADNc e incorporar los códigos de barra indizados para la multiplexación de muestras. La calidad y concentración de las bibliotecas amplificadas se determinó con un kit DNA High Sensitivity Kit en un instrumento Agilent Bioanalyzer (Agilent Technologies). 4 ng de cada una de las 8 muestras se combinaron y se sometieron a una selección de tamaño por electroforesis en geles de agarosa al 2 %. El rango entre 150 pb y 600 pb se extrajo del gel y se purificó con el kit MinElute Gel Extraction Kit (Qiagen) de acuerdo con las instrucciones del fabricante. las bibliotecas purificadas se cuantificaron en un instrumento Agilent Bioanalyzer con un chip DNA High Sensitivity Chip (Agilent Technologies). A continuación, cada biblioteca combinada, sometida a selección de tamaño y purificada se cargó en una celda de flujo (*flow cell*) HiSeq2000, distribuyéndola entre todas las hileras (*lanes*). La generación de clústers se realizó con kits TruSeq PE Cluster Kit v3 (Illumina Inc.) en un instrumento Illumina cBOT de acuerdo con el protocolo del fabricante. La secuenciación se realizó en un secuenciador Illumina HiSeq2000 (Illumina, Inc.). Los detalles de los experimentos de secuenciación fueron los siguientes: estrategia de secuenciación con lecturas apareadas (*paired-end*); 101 ciclos para la lectura 1, 7 ciclos para las secuencias de índice, y 101 ciclos para la lectura 2.

### Análisis de los datos de secuenciación: Preparación de las lecturas crudas

Los datos de secuenciación brutos, que comprenden los archivos de identificación de bases (archivos BCL), se procesaron con el software CASAVA v1.8.1 (Illumina) para obtener archivos FASTQ. Estos contienen, por cada

muestra clínica, todos los fragmentos de ARN secuenciados (en lo sucesivo, "lecturas"). Las secuencias de los adaptadores específicos de la plataforma se eliminaron con el software cutadapt (<http://code.google.com/p/cutadapt/>).

## 5 **Análisis de los datos de secuenciación: Mapeo al genoma y ensamblaje de transcritos**

Las lecturas se mapearon al genoma humano (montaje hg19) con segemehl v0.1.4-382 and TopHat v2.0.9. Los transcritos nuevos (es decir, los transcritos no anotados en Gencode v17) se ensamblaron con Cufflinks v2.1.1 y Cuffmerge v2.1.1. Todos los transcritos nuevos y todos los transcritos conocidos en Gencode v17 se combinaron en un conjunto de anotación integral.

### **Análisis de los datos de secuenciación: Análisis estadístico**

Htseq-count v0.5.4p1 (<http://www-huber.embl.de/users/anders/HTSeq/doc/count.html>) se usó para calcular los recuentos de lecturas por transcripto y por gen contenidos en el conjunto de anotación integral de transcritos nuevos y conocidos. Los transcritos y genes diferencialmente expresados se identificaron con R y con la biblioteca edgeR de Bioconductor. Cada compensar las diferencias en la composición de ARN de las muestras clínicas, se escaló el tamaño de la biblioteca de cada muestra (método TMM). Se ajustó un modelo logarítmico-lineal-binomial negativo al recuento de lecturas correspondientes a cada transcripto o gen y se usó una prueba de cocientes de verosimilitud para identificar coeficientes distintos de cero para el modelo. La tasa de falsos descubrimientos (FDR) se controló mediante el ajuste de Benjamini-Hochberg.

### **Validación mediante microarreglos hechos a medida**

Sobre la base de los resultados de secuenciación, se diseñaron a medida microarreglos con 180 000 sondas (Agilent SurePrint G3 Custom Exon Array, 4x180K, ID de diseño 058029) que comprendían sondas para ARNm, ARN no codificante (gencode v15), nuevos transcritos y todos los transcritos expresados diferencialmente entre las muestras de tumor y de control de acuerdo con la secuenciación de ARN. El diseño de las sondas se realizó mediante la herramienta de diseño personalizado eArray de Agilent.

Los estudios de detección con microarreglos se realizaron con la cohorte retrospectiva de CaP que comprendía 40 muestras de tejido prostático de pacientes con hiperplasia prostática benigna (HPB) como control, así como 164 y 52 muestras con y sin tumor, respectivamente, de pacientes con cáncer de próstata tras una prostatectomía radical. Se usó el kit Quick Amp Labeling Kit (Agilent) para sintetizar ARNc a partir de 200 ng de ARN total y se hibridaron 1650 ng de ARNc a los arreglos (Agilent Gene Expression Hybridization Kit).

### **Análisis de datos de microarreglos de ARN hechos a medida**

Las sondas con expresión diferencial se identificaron con R y la biblioteca de Bioconductor "limma". Para realizar un control de calidad de los arreglos, se verificó la distribución de las sondas de la "esquina brillante" y la "esquina oscura", así como la concentración de los controles de calibración (*spike-ins*) frente a la señal normalizada. Para obtener un conjunto de sondas que mapearan a posiciones genómicas únicas en la referencia hg19, se usó BLAT configurado con el parámetro -minIdentity = 93. Se descartaron todas las sondas que mapearan a más de una región genómica distinta. La normalización entre los arreglos se realizó mediante normalización por cuantiles. Para reducir la cantidad de pruebas, se aplicó el siguiente filtrado no específico: La expresión de una sonda debe ser mayor a la expresión de fondo en 10 % de los arreglos. La expresión de fondo se define como la intensidad media más tres veces la desviación estándar de los puntos de control negativo (puntos 3xSLV de Agilent). Además, una sonda debe exhibir un cambio de expresión no específico con un rango intercuartílico (RIC) mayor a 0,5. Por último, se ajustó un modelo lineal con el paquete de R limma y se obtuvieron estimaciones confiables de la varianza mediante estadísticos t moderados mediante el método empírico de Bayes. La tasa de falsos descubrimientos (FDR) se controló mediante el ajuste de Benjamini-Hochberg.

### **Validación mediante PCR cuantitativa en tiempo real**

Para la validación de los resultados obtenidos con secuenciación de última generación y detección mediante microarreglos, un total de 56 muestras de tejido (16 sin tumor y 40 de tumor) se analizaron mediante PCR cuantitativa en tiempo real. Se sintetizó ADNc a partir de 100 ng de ARN total con el kit High-Capacity cDNA Reverse Transcription Kit (Applied Biosystems) y cebadores aleatorios, de acuerdo con las instrucciones del fabricante. Los análisis por PCR posteriores se realizaron con 4 µl del ADNc diluido. Se realizó PCR cuantitativa en tiempo real mediante ensayos de expresión génica prediseñados TaqMan (Applied Biosystems) dirigidos a los transcritos constitutivos y blanco en un sistema 7900HT Real-Time PCR System de Applied Biosystems.

**Tabla 4:** Identificadores de los ensayos de expresión génica TaqMan de Applied Biosystems usados para la validación por qRT-PCR en muestras de tejido prostático.

65

	Nombre del gen constitutivo/blanco	ID de ensayo TaqMan
Gen constitutivo	GAPDH	Hs02758991_g1
	HPRT1	Hs02800695 ml
	HMBS	Hs00609293_g1
Blanco	ID DE SEC. N.º 1	AJ70L28
	ID DE SEC. N.º 9	Hs01388451 ml
	ID DE SEC. N.º 3	AJCSVRJ
	PCA3	Hs01371939_g1

Todas las muestras se midieron por triplicado y las medias de estas mediciones se usaron para los cálculos posteriores.

## 5 Análisis estadístico de los resultados de qRT-PCR

La normalización de los datos se realizó tomando como referencia los genes constitutivos no regulados GAPDH y HPRT1. Para la cuantificación relativa, se analizaron los cambios en la expresión génica de cada muestra en relación con la expresión mediana de las muestras de control. Todos los análisis estadísticos se realizaron con el software estadístico R.

Los niveles de expresión relativos de los biomarcadores transformados por el  $\log_2$  se compararon entre las muestras de tumor y de control con una prueba t de Student. Luego, se calcularon con el paquete pROC las curvas de característica operativa del receptor (ROC), cuya área bajo la curva (AUC) es una medida del poder diagnóstico de cada marcador.

## Validación en muestras de orina de ETR: recolección de las muestras y aislamiento del ARN

Se recolectaron muestras de orina tras un examen de tacto rectal (ETR) de la próstata (orina de ETR). Este método de examen de rutina permite obtener muestras de orina que contienen cierta cantidad de células prostáticas. Las muestras de orina de ETR se centrifugaron y lavaron dos veces con PBS. El precipitado de células resultante se suspendió en 700  $\mu$ l de Qiazol. Se aisló ARN total con el kit miRNeasy Mini Kit en un instrumento QIAcube (todos ellos de Qiagen), seguido por una digestión manual con ADNasa I. La concentración de ARN se determinó con un instrumento Nanodrop 1000 (Peqlab). La integridad del ARN se verificó en un Agilent Bioanalyzer 2100 (Agilent Technologies, Palo Alto, California).

### Detección en muestras de orina de ETR por PCR cuantitativa en tiempo real

Se sintetizó ADNc a partir de 2x50 ng de ARN total con la enzima SuperScript III Reverse Transcriptase (Applied Biosystems) y cebadores aleatorios, de acuerdo con las instrucciones del fabricante. Los análisis por PCR posteriores se realizaron con 4  $\mu$ l del ADNc diluido. Se realizó PCR cuantitativa en tiempo real mediante ensayos de expresión génica prediseñados TaqMan (Applied Biosystems) dirigidos a los transcritos constitutivos (PSA) y blanco en un sistema 7900HT Real-Time PCR System de Applied Biosystems. Todas las muestras se midieron por duplicado y las medias de estas mediciones se usaron para los cálculos posteriores.

### Secuenciación de última generación de ARN largo a nivel de todo el genoma en muestras de orina de ETR

Para la secuenciación de última generación de ARN largo a nivel de todo el genoma, se precipitó ARN total de 7 muestras de orina de ETR con etanol para concentrar el ARN y se lo resuspendió en 10  $\mu$ l de agua sin ARNasa. La eliminación del ARNr se realizó sobre 4  $\mu$ l de ARN total con el kit Low Input Ribo-Zero rRNA Removal Kit (Epicentre, modificado por Clontech), obteniéndose 10  $\mu$ l de ARN sin ARNr. Las bibliotecas de secuenciación se prepararon a partir de 8  $\mu$ l de ARN sin ARNr con el kit SMARTER stranded RNaseq Kit (Clontech). El ADNc doblemente marcado se purificó con el kit Agencourt AMPure XP System Kit (Beckman Coulter). Se realizaron 18 ciclos de PCR para amplificar las bibliotecas de ADNc e incorporar los códigos de barra indizados para la multiplexación de muestras. La calidad y concentración de las bibliotecas amplificadas se determinó con un kit DNA High Sensitivity Kit en un instrumento Agilent Bioanalyzer (Agilent Technologies). Las muestras se combinaron y la generación de clústers se realizó con 15 pmol/l de la biblioteca combinada y el kit TruSeq PE Cluster Kit v4 (Illumina Inc.) en un instrumento Illumina cBOT de acuerdo con el protocolo del fabricante. La secuenciación se realizó con los reactivos de secuenciación HiSeq SBS v4 (250 ciclos) en un secuenciador Illumina HiSeq2500 (Illumina, Inc.). Los detalles del experimento de secuenciación fueron los siguientes: estrategia de secuenciación con lecturas apareadas (*paired-end*); 126 ciclos para la lectura 1, 7 ciclos para las secuencias de índice, y 126 ciclos para la lectura 2.

### Análisis estadístico de los resultados de qRT-PCR de muestras de orina de ETR

Para el análisis de los resultados de qRT-PCR de muestras de orina de ETR, se realizó una normalización de los datos tomando como referencia el antígeno prostático específico (PSA). Para la cuantificación relativa, se analizaron los cambios en la expresión génica de cada muestra en relación con la expresión mediana de las muestras de control. Todos los análisis estadísticos se realizaron con el software estadístico R.

**Tabla 5:** Identificadores de los ensayos de expresión génica TaqMan de Applied Biosystems usados para la validación por qRT-PCR en muestras de orina de ETR

	Nombre	ID de ensayo TaqMan
Gen constitutivo	GAPDH	Hs02758991_gl
	HPRT1	Hs02800695_ml
Blanco	ID DE SEC. N.º 1	AJ70L28
	PSA	Hs02576345ml

### Resultados

Se analizaron los transcriptomas de 40 muestras de tumor de CaP y 16 muestras sin tumor obtenidas tras un ETR y 8 muestras de tejido prostático de HPB como controles benignos no tumorales se analizaron mediante secuenciación de última generación (NGS) de ARN largo con lecturas apareadas (*paired-end*). Se prepararon aproximadamente 150 criosecciones por muestra en al menos tres segmentos en un esfuerzo por optimizar la calidad de los datos y mejorar la solidez del análisis. Tras una evaluación patológica, únicamente se retuvieron para el análisis posterior los segmentos con un porcentaje de células tumorales mínimo de 60 % o máximo de 5 % en las muestras tumorales y sin tumor, respectivamente. El enfoque de secuenciación transcriptómica (RNA-seq) buscó identificar y cuantificar de forma exhaustiva el ARN expresado en tejido normal y en tejido prostático canceroso. Se secuenciaron todas las clases de transcritos codificantes y no codificantes, independientemente del estado de poliadenilación. Se usaron grandes cantidades de ARN de entrada para garantizar que la biblioteca fuera rica en complejidad. Se secuenciaron, en promedio, 200 M de lecturas apareadas (*paired-end*) de 2 x 100 nt por biblioteca, permitiendo en ensamblaje de nuevos transcritos con baja expresión gracias a la alta cobertura. Este enfoque superó la mayoría de los estudios comparables publicados que analizaron grandes cantidades de muestras. En total, se ensamblaron aproximadamente 3000 transcritos nuevos no mostraron solapamiento exónico con los transcritos anotados en Gencode v17. Con una tasa de falsos descubrimientos (FDR) de 0,01, se observaron 6442 genes diferencialmente expresados en todos los contrastes. En la Tabla 6 se indican las cantidades de genes diferencialmente expresados en contrastes específicos.

Contraste	Total	Codificantes de proteínas	ARNlinc	Antisentido	Intrónico directo	Pseudo génico	Transcripto nuevo	No codificante de proteínas
Tumor vs. control	5615	3882	116	96	13	456	847	1733
Tumor, puntaje Gleason > 7 vs. control	2677	1812	73	40	4	88	552	865
Tumor, riesgo alto y medio vs. tumor, bajo y muy bajo riesgo	138	51	3	2	0	7	72	87
Tumor, puntaje de Gleason = 7 vs. Tumor, puntaje de Gleason < 7	12	6	0	1	0	0	5	6
Tumor, puntaje de Gleason > 7 vs. Tumor, puntaje de Gleason = 7	14	7	0	0	0	1	6	7

**Tabla 6:** Cantidad de genes diferencialmente expresados en distintos contrastes y con distintos biotipos de Gencode.

Los resultados reprodujeron exitosamente la mayoría de los transcritos informados anteriormente como diferencialmente expresos entre el tumor de próstata y el tejido normal. Además, se identificó una serie de nuevos transcritos asociados con el CaP, que pueden usarse para desarrollar análisis para el diagnóstico del CaP. Los transcritos más prometedores se seleccionaron para su validación en una cohorte de prueba de muestras de tumor de CaP y muestras de control de HPB por qRT-PCR.



Varios de estos nuevos biomarcadores candidatos tienen una especificidad y sensibilidad considerablemente mayor a la del biomarcador PCA3, que ya se utiliza para el diagnóstico del CaP. En la cohorte de secuenciación, el PCA3 mostró una asociación clara con el CaP, pero una tendencia marcada a disminuir en el grupo de alto riesgo (Fig. 2).

5

Los resultados experimentales demuestran que los nuevos biomarcadores tienen alta especificidad y sensibilidad para la detección del CaP. Por lo tanto, pueden crearse ensayos basados en la medición de estos nuevos biomarcadores solos o combinados (o incluso combinados con otros marcadores) en cualquier fuente que pueda contener células tumorales prostáticas o partes de estas (incluidas las vesículas como los exosomas, las microvesículas y otras, así como las moléculas de ARN libre o unido a proteínas derivadas de células tumorales prostáticas) para usarse para el diagnóstico del CaP. Estas fuentes incluyen, sin carácter taxativo, el tejido prostático, las biopsias, los nodos linfáticos, la orina, el eyaculado, la sangre, el suero sanguíneo, el plasma sanguíneo y las células tumorales circulantes en sangre o linfa, así como cualquier tejido del que se sospeche que contiene metástasis de CaP. La medición de nuestros biomarcadores de ARN puede realizarse por medio de cualquier método apto para estimar específicamente niveles de ARN (p. ej., los métodos basados en PCR, como la qRT-PCR). Los análisis pueden aplicarse para el diagnóstico temprano (detección) del CaP, para predecir la agresividad de los tumores (pronóstico) y/o para contribuir con la elección de la terapia.

10

15

20

25

En la Fig. 6 se muestran los resultados de la detección de una selección de biomarcadores en orina. Los niveles de expresión de todos los biomarcadores que se muestran en esta figura son mayores en la orina de los pacientes que padecen cáncer de próstata que en la de individuos saludables. Esto muestra que analizar el nivel de expresión de uno de estos biomarcadores en orina permite diagnosticar el cáncer de próstata. Este resultado es inesperado porque Fontenete *et al.*, (Int. braz j urol. vol.37 no.6 Río de Janeiro Nov./Dic. 2011) mostraron que el ARNm del PSA no es un biomarcador adecuado para el cáncer de próstata en muestras de orina, dado que se descubrió que se sobreexpresaba más frecuentemente en pacientes saludables que en pacientes con CaP en estas muestras. Por lo tanto, no era evidente *a priori* que el análisis de los niveles de expresión de los biomarcadores en muestras de orina pudiera usarse para diagnosticar de forma confiable el cáncer de próstata.

30

Un análisis para diagnóstico basado en estos biomarcadores ofrece como ventajas una tasa de falsos positivos drásticamente menor que la de los análisis actuales y la posibilidad de medir los niveles de expresión en una muestra de orina sin necesidad de realizar biopsias de próstata invasivas.

### Descripción de las figuras

35

Fig.1: Verificación de la calidad de las muestras de tejido: para determinar la cantidad de células tumorales de las muestras de tejido, se prepararon criosecciones de las muestras congeladas como se muestra. HE: hematoxilina/eosina, IHC: inmunohistoquímica. Verificación de la calidad de las muestras de tejido: se prepararon criosecciones de 4 µm a partir de las muestras congeladas como se muestra en la figura para tinción con HE (para verificar el contenido de células tumorales de las muestras de tejido), para aislamiento de ARN y ADN y para inmunohistoquímica (IHC). HE: hematoxilina/eosina; IHC: inmunohistoquímica.

40

45

Fig.2: Diagrama de caja de los datos de RNA-seq correspondientes al transcrito de PCA3. Resultados de secuenciación de ARN de la cohorte de CaP retrospectiva que comprende 8 muestras de tejido prostático de hiperplasia de próstata benigna como control (C), 8 muestras de tumor de CaP de cada uno de los grupos V (muy bajo riesgo; puntaje de Gleason < 7, pN0), L (bajo riesgo; puntaje de Gleason = 7, pN0), y M (riesgo medio; puntaje de Gleason ≤ 7, pN+), así como 16 pares de muestras de tejido tumoral y sin tumor del grupo H (alto riesgo; puntaje de Gleason > 7).

50

Fig.3: Curvas ROC de Retro-RPL7 (ID. DE SEC. N.º 1) y PCA3 obtenidas mediante análisis por qRT-PCR de 56 muestras de tejido prostático.

55

Fig.4: Datos de secuenciación de última generación de ARN de los ID. DE SEC. N.ºs 26 a 29 de 64 muestras de tejido.

Se obtuvieron 8 muestras de tejido de control de pacientes con hiperplasia de próstata benigna (HPB) y 56 muestras de tejido de pacientes con cáncer de próstata tras una prostatectomía radical (PR). Entre estas, 40 muestras representaban tejido tumoral con un recuento de células tumorales de al menos 60 %, mientras que 16 muestras representaban tejido adyacente no tumoral (recuento de células tumorales no mayor a 5 %) derivadas del mismo paciente.

60

(A) Diagrama de caja que muestra los recuentos normalizados del ácido nucleico con el ID. DE SEC. N.ºs 26 a 29.

(B) Curva ROC para la comparación de los niveles de expresión del ácido nucleico con los ID. DE SEC. N.ºs 26 a 29 entre las muestras de tumor y de control: Área bajo la curva ROC (AUC): 0,9438.

65

Fig.5: Datos de microarreglos hechos a medida correspondientes al ID. DE SEC. N.º 12 de 256 muestras de tejido.

5 Se obtuvieron 40 muestras de tejido de control de pacientes con hiperplasia de próstata benigna (HPB) y 216 muestras de tejido de pacientes con cáncer de próstata tras una prostatectomía radical (PR). Entre estas últimas, 164 representaban tejido tumoral mientras que 52 muestras representaban un tejido sin tumor adyacente de los mismos pacientes. (A) Diagrama de caja que muestra los recuentos normalizados del ácido nucleico con el ID. DE SEC. N.º 12. (B) Curva ROC para la comparación de los niveles de expresión del ácido nucleico con el ID. DE SEC. N.º 12 entre las muestras de tumor y de control: Área bajo la curva ROC (AUC): 0,8485.

10 Fig.6: Muestras de orina de pacientes con carcinoma de próstata (tumor) o pacientes saludables (control) obtenidas tras un examen de tacto rectal realizado por un urólogo. El ARN aislado de estas muestras se sometió a secuenciación de ARN de todo el transcriptoma con un secuenciador de última generación Illumina HiSeq2500. Las lecturas se mapearon al genoma con algoritmos estándar. Las lecturas que mapeaban a los loci genómicos de los transcriptos con los N.ºs DE ID. DE SEC. que se muestran se contaron y normalizaron respecto a las lecturas derivadas del locus génico del antígeno prostático específico como medida de la presencia de células epiteliales prostáticas en la orina como normalización. La cantidad de lecturas (en millones) se muestra en una escala logarítmica en base 2 (log<sub>2</sub>).

LISTADO DE SECUENCIAS

20 <110> Fraunhofer-Gesellschaft zur Förderung der angewandten  
Forschung e. V.

<120> Nuevos biomarcadores de ARN para el diagnóstico del cáncer de próstata

25 <130> B176-0001W03

<160> 42

<170> Patentinversion 3.5

30 <210> 1  
<211> 825  
<212> DNA  
<213> Homo sapiens

35 <400> 1  
ttttccggct ggaacatgagg aggggtgtga agagaagaag aaggttcctg ctgtgccaga 60  
aaccttaag aaaaagtga ggaatttcac agagctgaag atcaagcgcc tgagaaataa 120  
40 gtttgcccaa aagatgcttc taaaggcaag gaggaagctt atctatgaaa aagcaaagca 180  
ctatcacaag gaatatatgc agatgtacag aactgaaatt caaatatcga ggatggcaag 240  
aaaagctggc aacttctatg tatctgcaga acccaaattg gcgtttgtca tcaggatcgg 300  
aggttatcaa ttgggtgagc ccaaaggctt gaaagggtgtt gcaacttctt tgccttcac 360  
aaatcttcaa tagaaacttt gtgaagctca gcagggcttc aataatgtgc tgaggtttgt 420  
45 agaaccatat attgcatggg cataccctaaa tctgaagtca gtaaataaac taatctacaa 480  
atgtggttat agcaaatga ataagaagct acttgctcca acagataata ctttgattgc 540  
tcgatctctt ggtaaatatg gcctcatctg catggaggat ctgattcatg agatctatac 600  
tgttgaaaa tgcttaaaga agcaataaac ttctgtggc ctttcaaatt atcctctcga 660  
caagttagaa tgaagaaaa gaccaccaat tttgtagaag gtggagatgc tgacaacagg 720  
50 gaagaccaga tcaacaggct tattagaaga ataacatgc ctaccacaat tttttttgt 780  
aatctagcca gtttaataaac agtacctgct ctcaaattga aaaaa 825

ES 2 784 246 T3

<210> 2  
 <211> 3120  
 <212> DNA  
 <213> Homo sapiens

5  
 <400> 2  
 gcccgcttct gtgactccac cccttacgga aagtctatgg gactctctga aatgtatgag 60  
 tgatactggt agaaagcggc aagaaaatga aaagaaaacg tggatgtttt ccatatattga 120  
 10 gttgatgcag gctggagaca acagctgcca gagctgcaag gcagaacacc ctgagaagtg 180  
 gaaccggagg atccaggcgc ctggtgaagg gataaatgag agccgtggcg tgtggatggg 240  
 actcttttctg tcttccgttt ggctgaagct ccaaacgcca ggagtaaccc agtgggtagc 300  
 aagcaccctt ccctccacct ctgcaggaat tgcaaaaagc aatggtaaaa aaattggttt 360  
 gtgatcctta cccagtgct caaggagggt ggagaagctg aaagagagga ctggttttga 420  
 15 tatggtttgg atttgtgtcc ccacccaaat ctcatgtcaa atggtaatcc ccagtgttgg 480  
 aggagggact ggtgggagggt gattggatca tgggggcgaa tttccccttg ctgttctcgt 540  
 gatagtgagt gagttctcat cagatctgat tgcttagaag tgtgtagtgc tggccgggtg 600  
 cggtggtca cgctgtaat cccagcactt tgggaggcca aggcgggcag atcatgagat 660  
 caggagatag agaccatcct ggccaacatg gtgaaacccc gtctctacta aaaatataaa 720  
 20 aattagctgg gcgtggtggc gtgtgcctgt agtctcagct gcttgggagg ctgaggcagg 780  
 agaatagctt gaacctggga ggccggagggt gcagtgagcc gagatcgtgc cactgcactc 840  
 cagcctggcg acagagcaag actccatctc aaaaaaaaaa aaaaaaaaaa aaaaaagaag 900  
 tgtgtagtgc ctcccacctc tctctcttcc tcttgcccca gccatgtgaa cacattcctt 960  
 ctttcccttt gccttgctcc gtgagtgtaa gtttctcag gcctcctcag ccatgcttcc 1020  
 25 tgtatagcct gcagaactgt gggccagtta aacctctttt ctttgtaa ataccagtct 1080  
 caggtatfff ttttagcagt gcgagaacga agggactaat acaggtttgg agacacgtct 1140  
 ttggagaaac tattgatact tggcgtcctg tggcatttcc ttgccattag cacctccaac 1200  
 gttatgctgg agaaaaagcc gttccaactc ttcaccgaac gccgagtcag agagatgtgg 1260  
 ggaaaccacc gaaagagctt gccctgtgtc ttctggacag actagtgcca aacctatgcc 1320  
 30 tggaaatggg tagaagttag ggaccatggc cgctcagcct ctgcaggaaa atggattact 1380  
 gcatcaggaa tgatgacttt agagaaggcc aaaggtgtaa gtttcttcca gcaggttctg 1440  
 aacctccaga ggagctggc ctggggttat ttgggattcc cagtgcagga ctgcctgaaa 1500  
 atgtgaggcg cccaaatggg gctgctggac cacaggatgc ccaggacctg caggcacact 1560  
 caagagtggc ctgccagagg agacacattg cctgcctccc aggaagcaaa tttggaggtt 1620  
 35 gccagtggga gaattgccaa gaaccgccat ccctcccctg ggacacacaa gctaaggaaa 1680

ES 2 784 246 T3

	gaaggaattg	gccctctaag	tccagaaagc	acaagatcac	atcatcacia	caccagccaa	1740
	gtaaaacatc	cctgctcctc	acctcttcag	agcccaaggg	ggctggggag	gagaagaaat	1800
	gagagtggag	gaggaaagag	gtttaatatg	aatgaagttt	ggagttttga	catgactcga	1860
	cattctaattg	acttcattta	gactgttgct	acactcagaa	gtgacttgga	gacattttat	1920
5	ttttataatc	atcaccatat	tgttattggt	catgatctaa	gggtgaggag	aagggctaaa	1980
	ggatcggccc	aatggatcat	tcggggaaag	taaagaacta	tcccaccagt	tgtgtttgaa	2040
	tgggcagtga	gagggaaaat	caagttgcta	cttgaccccc	tctaactccc	aacttcact	2100
	ctttcaacat	accagacatg	aaagctgagt	aaatgacctc	aaaggtacag	cgatgacagg	2160
	gtgtggtggt	ggtagttctt	ggtttcctac	attgcatctt	caaatcgggt	tttagaatgg	2220
10	atgacactgg	aaggctagaa	atctcaggtg	ctgacatgtg	ggctggttta	taattgtctt	2280
	caaaaattca	cccacaatag	gatcagacaa	gtagtatgg	ccataggtgc	tacaatggga	2340
	gaaagtthta	aatgctgttc	agatcggaag	acatgggtca	aaaagatcaa	gaagagttga	2400
	catgaggcaa	acattttata	tctccattca	agagctacct	gatgaggttt	cacccatcag	2460
	ggatacaatg	agaatttact	gggcgcttag	cactgtgcag	acacaattca	agcaaaaggc	2520
15	aaccaactct	ggcatccaag	tgcaggccag	cagccaagtt	cttctcctt	atgagctgac	2580
	atctgattga	cagatggccc	cagagaaagc	ttcttgatc	atatctcagt	aaccactggc	2640
	ccagcctgtc	aatccagag	atttaagatg	gcatagcacc	ttaaactctg	aagaacttag	2700
	caactttata	atgtcaaatc	cagggggaaa	atagcacac	agagaaacca	gaaaagcata	2760
	gaatggtggg	gagaaagaaa	gaaagaaaat	gaaaacactg	ttccatcgg	cagaattagc	2820
20	ctttgccagg	aaaactgcaa	tgttgtcttg	gtaggcacat	aattcatttt	tctacatggt	2880
	cagaagtaaa	gaaaaagcca	gacccaaaaa	gccagaccct	gggggaaatc	gtggatactg	2940
	tttgtaactt	tggcaaagac	aatatatttg	tgaactcagc	ctcatgtgaa	atgcttgata	3000
	atctcaaaaa	gtaaatgcca	cagcgtgtcg	tatactgtgt	ggtctcaatg	atgtgagaat	3060
	gtctatatat	ccaataacct	gtcctcgttt	ctaactagct	tgatttattg	tcatagacaa	3120
25	<210>	3					
	<211>	1641					
	<212>	DNA					
	<213>	Homo sapiens					
30	<400>	3					
	attgccaca	gccgatcca	cggtgactaa	tctccgggaa	ggcgtccagc	gtgagccgtg	60
	aggcctgcac	ctgcgccgga	cttcaccact	caccaggagt	ctctgcccg	cgccccagc	120
	gcggttctct	tccctgctag	acgtaaagtc	ctggggacaa	gcacagccca	gggcactttc	180
35	tggagagaag	atttcgatgg	ggaaagataa	gagagcattt	ggatatctac	gcaactgtcaa	240

ES 2 784 246 T3

	cagaaatgag	gcttcaggcc	aaggcttcta	aaatgcagga	ttcccaaagt	ggcagtcaca	300
	taagacgggt	ccctccatcg	ccttctagaa	tattgagaag	atcatcacgc	ctgggactgg	360
	ctcacagcac	tgatcttttt	cttgtagca	gagactccag	gaagcagatg	agcagaccta	420
	tgggcctgct	atgtgcaccg	cggcccacac	tgccgcctgc	ctgggatcct	gcatcacccg	480
5	agtcttcctg	cggaccaccc	tgggtggtgc	acatgoggtc	atcattgtgc	aaaggaagct	540
	ttagttctat	aatgaaagcc	cctttagtaa	gtgatgctcc	ttgaagactc	ggtcagcgtc	600
	tcgttcacct	ctttatcccc	agacttagca	caattccagc	cccaaatcgg	caacggacct	660
	ttgaccaagt	gacatgtcag	tgcttcaggg	agcttcactg	atcaggacag	aagtgagtga	720
	ctggaggaag	gtgacccgga	tgtctgtaac	ccccagaaag	ggtgagatgg	ctgttttatac	780
10	agccagcatt	gccgagttgg	tgggtgtgacg	acatcctgtc	tgactgctgg	gccttaccgg	840
	tgtgttctct	gctggagccg	tgacagtttg	agttgaggac	attttacatc	aatcactgaa	900
	ctgcacgaaa	gatggaaatc	cagcaagggg	ccccgtcggg	cctgattgac	cgcagagcta	960
	ccttttgctc	tttctggatg	ccacacggcc	tcctcctccc	acctgtcctt	ggagcttgtg	1020
	ttggtccact	ttcatgctgc	tgataaagcc	atacctgaga	ctgggtaatt	tataaagaaa	1080
15	aagaggttga	atggactcac	agttccacgt	ggctggggag	gcctcacaat	cacggcggaa	1140
	gttgaaaggc	acgtcttaca	tggcggcagg	caagagagaa	tgagagccaa	gcaaaggggg	1200
	tttcccctta	tagaaccatc	agatcagctg	ggcgcagtgg	ctcactcctg	taatcccagc	1260
	actttgggat	gctgaggtgg	gaggatcaca	aggtcaggag	tttgagacca	gcctgaccaa	1320
	tatggtgaaa	ccccatctct	actaaaaata	caaaaattat	ctgggcatgg	tgggtgggcac	1380
20	ctgtagtccc	agctactcgg	gaggctgagg	caggagaatc	gcttgaacct	gggaggcgga	1440
	ggttgacgtg	agctgagatt	gtgccactgc	actctagcct	gggcaacaaa	gcgagacgct	1500
	gtctcaaaaa	aacaaaaaca	aaaacaaaaa	aaaccatcag	atctcatgag	acttattcac	1560
	taccatgaga	acagtatggg	ggaaaccacc	ctcatgattc	aattatctct	tgctgggtcc	1620
	ctccctcaac	acatgggaat	t				1641
25	<210>	4					
	<211>	826					
	<212>	DNA					
	<213>	Homo sapiens					
30	<400>	4					
	caggaatggg	ctggggcgcg	tttgtagttg	ggaatcctga	gccccgggctg	ttgcttggag	60
	gactcgggag	cagcagtgga	tttcggcggt	accaggagag	ctatgtatag	gaatgccgct	120
	atggaaagac	atccaggaca	ccttggttaag	tgaaaaaagg	ttcagtatct	gaacactttt	180
35	gctaaaggtc	tctggaaagc	tcctgtggt	aattctcgat	gagactacgt	ctgtgccggc	240

ES 2 784 246 T3

	cgcttcctga	gcctccttcc	atgtgcatag	gcctgctgca	tgctggagac	ctgcggcaca	300
	gctgccaagt	gccccgtgtg	gttctgtgat	cttgggacag	tcaacttctc	tctgtgggtg	360
	tcagtcttct	catccctaag	atggaataaa	aaggcctacc	tcattgggct	cgtgtgggtg	420
	aggagaactg	aagagtctga	gagcgcggca	cgagccagag	gctacggaaa	acactgcctt	480
5	cctacactcc	accttggaga	gaccagaaa	agaacaagct	tcatttgtaa	aaaaggaaaa	540
	caactcaggc	aatgggggtg	gcttaaaggc	actctacagt	gtgcagatgc	cttcacttc	600
	ttccatctgc	cctgtctctc	caagaacccc	tatggccccg	gtctcagaac	agagctgagt	660
	gcagaaatga	aaatctatgg	ctctgtgttc	caaacgatg	aagaatttca	agatgggtgc	720
	agtggtaaaa	tctttctcca	ggaaaaatct	gtccttggcc	caatgtgtaa	acacttgctg	780
10	aggaacttgg	aataacttgc	agtgtcttgc	agtattgtga	aaccag		826
	<210>	5					
	<211>	806					
	<212>	DNA					
15	<213>	Homo sapiens					
	<400>	5					
	ttcggcgтта	ccaggagagc	tatgtatagg	aatgccgcta	tggaagaca	tccaggacac	60
	cttgттаagt	gaaaaaagac	atgccaccat	tagggcttca	tttccctgca	gtcttcttta	120
20	aatacaaaaa	ctgccctggg	aaggataaga	catcagtttc	ttcatacttc	agagcaaatg	180
	ggattgattc	ccaggacctc	ctttctgtgg	actgggtttt	tgccctctca	ccaagagact	240
	gggctcccctg	ggcgagcaga	ggctgctggg	ttcagtatct	gaacactttt	gctaaaggtc	300
	tctggaaaagc	tccctgtggt	aattctcgat	gagactacgt	ctgtgccggc	cgcttcctga	360
	gcctccttcc	atgtgcatag	gcctgctgca	tgctggagac	ctgcggcaca	gctgccaagt	420
25	gccccgtgtg	gttctgtgat	cttgggacag	tcaacttctc	tctgtgggtg	tcagtcttct	480
	catccctaag	cactcaagaa	gcccttctt	ctctggctgt	caagtctgga	ctcatctctt	540
	gtcttacaca	cggacagttg	ttttaaggaa	aagcccctgg	ttggacttgc	agattgggca	600
	cagccctgga	cgtatactac	aggtgctcat	caaggcttgc	ctcatctggt	taccctccag	660
	gtcatgcccc	tttctacctc	tacaccctgt	tgcatcgcg	gcatggcctc	cggaaaagtc	720
30	aagcatggcg	aaaggaagcg	tggcccagag	ctggcacgcc	acaggaactt	ggaataactt	780
	gcagtgtctt	gcagtattgt	gaaacc				806
	<210>	6					
	<211>	1358					
	<212>	DNA					
35	<213>	Homo sapiens					
	<400>	6					

ES 2 784 246 T3

	gaggcccgac attgtgctgg ggaaggagct ccagaaaggg ccatcctttc tgttttggtt	60
	cagtatctga acacttttgc taaaggctct tggaaagctc cctgtgttaa ttctcgatga	120
	gactacgtct gtgccggccg cttcctgagc ctccttccat gtgcataggc ctgctgcatg	180
	ctggagacct gcggcacagc tgccaagtgc cccgtgtggt tctgtgatct tgggacagtc	240
5	acttcctctc tgtggttgtc agtcttctca tcctaagat ggaataaaaa ggcctacctc	300
	attgggctcg tgtgggtgag gagaactgaa gagtctgaga gcgcggcacg agccagaggc	360
	tacggaaaac actgccctcc tacactccac cttggagaga ccagaaaaag aacaagcttc	420
	atgtgtaaaa aaggaaaaca actcaggcaa tgggggtggc ttaaaggcac tctacagtgt	480
	gcagatgcct tccacttctt ccatctgccc tgtctctcca agaacccta tggccccggt	540
10	ctcagaacag agctgagtgc agaaatgaaa atctatggct ctgtgttcca aaacgatgaa	600
	gaatttcaag atggtggcag tggtaaaatc tttctccagg aaaaatctgt ccttggccca	660
	atgtgtaaac acttgctgag gaacttggaa taacttgcag tgtcttgcag tattgtgaaa	720
	ccagcaactt gttcacaatt cttctgaatt tcttgggaaa tttgaagtgg agtacctgta	780
	ccaacatgaa atgacacgaa ttttaagtgc gctcaacaac gaaaagcaaa aagaaccaa	840
15	gaggaagcaa ctgaaacaac atctggatgt atttaaaaat atacaatgcc tccaaaatca	900
	ggtgtcatta atgaaaattc tgaagaaatg ccaccggaca tagccaacgc acctacgctg	960
	ttgttattca tttcctgctt ttcacagaaa acaattttgt tgcattggaag atcgtgaact	1020
	tcaaagggca gaggggaaac tgtcccttgg cctctacccc tccaaggccc cacttttttg	1080
	tcaaacactcc ttggacgcag cagaagtatg aacataatat ggtcctgaat gaggctgagt	1140
20	ctttgggcgc agaagaccgc ggttaataaa aataggaagg taagaaaaga aaagaaaaat	1200
	caagacacat cataggacta aattcctatt atttatccac tcaggattga ccacccttt	1260
	gggccagata gttgtacccc catgtaccag gtgggcacat gaagacacaa gaagtgctgt	1320
	gatggttcat tttgcacgtc accttgcgtg gagtatgc	1358
25	<210> 7 <211> 309 <212> DNA <213> Homo sapiens	
30	<400> 7	
	gactggagag gccagcacgc acagtgactt aatccaagaa gatggaataa aaaggcctac	60
	ctcattgggc tcgtgtgggt gaggagaact gaagagtctg agagcgcggc acgagccaga	120
	ggctacggaa aacactgccc tcctacactc caccttggag agaccagaa aagaacaagc	180
	ttcatttgta aaaaaggaaa acaactcagg caatgggggt ggcttaaagg cactctacag	240

# ES 2 784 246 T3

	tgtgcagatg ccttccactt cttccatctg ccctgtctct ocaagaaccc ctatggcccc	300
	ggtctcaga	309
<b>5</b>	<210> 8 <211> 1222 <212> DNA <213> Homo sapiens	
<b>10</b>	<400> 8 ctgggcttcc agcttccaag ccttctacct gtggaatgct tggccaatg tctggggcac	60
	ccactcttac tccaaactcc tccagatctg cagagtggcc cagcatattc tcttcttgaa	120
	aggaggtcct tgocctaacag aatggaata aaaaggccta cctcattggg ctctgtgtgg	180
	tgaggagaac tgaagagtct gagagcgcgg cacgagccag aggctacgga aaacactgcc	240
	ctcctacact ccaccttga gagaccaga aaagaacaag cttcatttgt aaaaaaggaa	300
<b>15</b>	aacaactcag gcaatggggg tggcttaaag gcactctaca gtgtgcagat gccttccact	360
	tcttccatct gccctgtctc tccaagaacc cctatggccc cggctcaga acagagctga	420
	gtgcagaaat gaaaatctat ggctctgtgt tccaaaacga tgaagaattt caagatgggtg	480
	gcagtggtaa aatctttctc caggaaaaat ctgtccttgg cccaatgtgt aaacacttgc	540
	tgaggaactt ggaataactt gcagtgtctt gcagtattgt gaaaccagca acttgttcac	600
<b>20</b>	aattcttctg aatttcttgg gaaatttgaa gtggagtacc tgtaccaaca tgaaatgaca	660
	cgaatttaag tgacgctcaa caacgaaaag caaaaagaac caaagaggaa gcaactgaaa	720
	caacatctgg atgtatttaa aaatatacaa tgccctccaa atcaggtgtc attaatgaaa	780
	attctgaaga aatgccaccg gacatagcca acgcacctac gctgttgta ttcatttcct	840
	gcttttcaca gaaaacaatt ttgttgcag gaagatcgtg aacttcaaag ggcagagggg	900
<b>25</b>	aaactgtccc ttggcctcta cccctccaag gccccacttt tttgtcaaca ctcttggac	960
	gcagcagaag tatgaacata atatggctct gaatgaggct gaggctttgg gcgcagaaga	1020
	cccgggttaa taaaaatagg aaggtaagaa aagaaaagaa aatcaagac acatcatagg	1080
	actaaattcc tattatttat ccaactcagga ttgaccacc ctttgggcca gatagttgta	1140
	ccccatgta ccaggtgggc acatgaagac acaagaagtg ctgtgatggt tcattttgca	1200
<b>30</b>	cgtcaccttg cgtggagtat gc	1222
<b>35</b>	<210> 9 <211> 1345 <212> DNA <213> Homo sapiens	
	<400> 9	



ES 2 784 246 T3

	ggagctggtt	ccaggaaaaga	agggcacatg	agcaaacatg	atggcccctt	tatgagaggt	60
	aatttactga	aatgcacagc	gattacctgc	tcaccagcc	ctgatgtaat	taaaaatggc	120
	aggctagggg	ctctgtttcc	cccggctctg	gcagagaaac	ctgggtttcg	acttgtgaag	180
	cttgaggttg	gatgtgggaa	ttggcttgga	gtcataggcg	atgagagggg	cattaggata	240
5	ttatgaagcc	cgtgaactca	actcctgaga	aggacgcagc	agagcgagag	aaaagatgga	300
	ataaaaaggc	ctacctcatt	gggctcgtgt	gggtgaggag	aactgaagag	tctgagagcg	360
	cggcacgagc	cagaggctac	ggaaaacact	gccctctac	actccacctt	ggagagaccc	420
	agaaaagaac	aagcttcatt	tgtaaaaaag	gaaaacaact	caggcaatgg	gggtggctta	480
	aaggcactct	acagtgtgca	gatgccttcc	acttcttcca	tctgccctgt	ctctccaaga	540
10	accctatgg	ccccggtctc	agaacagagc	tgagtgcaga	aatgaaaatc	tatggctctg	600
	tgttccaaaa	cgatgaagaa	tttcaagatg	gtggcagtgg	taaaatcttt	ctccaggaaa	660
	aatctgtcct	tggcccaatg	tgtaaacact	tgctgagtat	tgtgaaacca	gcaacttgtt	720
	cacaattctt	ctgaatttct	tgggaaatth	gaagtggagt	acctgtacca	acatgaaatg	780
	acacgaatth	aagtgacgct	caacaacgaa	aagcaaaaag	aaccaaagag	gaagcaactg	840
15	aaacaacatc	tggatgtatt	taaaaatata	caatgcctcc	aaaatcaggt	gtcattaatg	900
	aaaattctga	agaaatgcca	ccggacatag	ccaacgcacc	tacgctgttg	ttattcattt	960
	cctgcttttc	acagaaaaca	atthttgttg	atggaagatc	gtgaacttca	aagggcagag	1020
	gggaaactgt	cccttggcct	ctaccctcc	aaggccccac	ttttttgtca	acactccttg	1080
	gacgcagcag	aagtatgaac	ataatatgg	cctgaatgag	gctgagtctt	tgggvcgaga	1140
20	agaccgggt	taataaaaat	aggaaggtaa	gaaaagaaaa	gaaaaatcaa	gacacatcat	1200
	aggactaaat	tcctattatt	tatccactca	ggattgacca	cccctttggg	ccagatagtt	1260
	gtacccccat	gtaccagggtg	ggcacatgaa	gacacaagaa	gtgctgtgat	ggttcattth	1320
	gcacgtcacc	ttgcgtggag	tatgc				1345
25	<210>	10					
	<211>	1033					
	<212>	DNA					
	<213>	Homo sapiens					
30	<400>	10					
	aggaacttgg	aataacttgc	agtgtcttgc	agtattgtga	aaccagcaac	ttgttcacaa	60
	ttcttctgaa	tttcttggga	aatttgaagt	ggagtacctg	taccaacatg	aatgacacg	120
	aatttaagtg	acgctcaaca	acgaaaagca	aaaagaacca	aagaggaagc	aactgaaaca	180
	acatctggat	gtatttataa	atatacaatg	cctccaaaat	cagggtgcat	taatgaaaat	240
35	tctgaagaaa	tgccaccgga	catagccaac	gcacctacgc	tgttgttatt	catttctctgc	300

# ES 2 784 246 T3

	ttttcacaga	aaacaat	gttgc	agatc	cttcaa	cagag	360
	actgtcc	ggcct	cctcca	cccact	tgtca	ccttg	420
	agcaga	tgaac	atgg	atgag	gtc	gcaga	480
	cggg	aaa	gg	gaa	at	at	540
5	taa	tt	act	gacc	tt	tag	600
	ccc	agg	at	aag	gt	at	660
	tcac	tgg	ca	tt	c	g	720
	t	tt	g	t	a	c	780
	tac	cc	t	g	c	g	840
10	aga	att	ag	at	t	t	900
	tgc	a	c	g	t	c	960
	cag	gc	t	g	c	c	1020
	at	c					1033
15	<210>	11					
	<211>	786					
	<212>	DNA					
	<213>	Homo sapiens					
20	<400>	11					
	cag	agg	g	g	t	t	60
	ta	agg	t	t	g	a	120
	a	at	g	a	g	a	180
	g	at	t	g	a	a	240
25	aga	at	g	a	g	a	300
	ac	g	a	g	a	a	360
	t	c	t	g	a	a	420
	a	c	a	t	g	a	480
	a	a	g	a	c	a	540
30	gc	c	t	c	c	c	600
	t	c	t	c	a	t	660
	a	g	a	c	a	c	720
	a	g	g	a	c	a	780
	c	g	a	c			786
35							

ES 2 784 246 T3

<210> 12  
 <211> 2680  
 <212> DNA  
 <213> Homo sapiens

5

<400> 12  
 caagacagag gcaagcagag aaggcatagc agcagcgacc ggcgctctgt tttcattttc 60

cactctggcc aggggataaa ctggacccca gtggactcca acaccaactc tctgcttccc 120

agttactttc gattttcttt cccttctcct tctttctctc cctctctggc attcaaacag 180

10

aagcacaaga ggaccaccca gtggcaactc taagcctcct tgcaggccac attccctgct 240

gacgtggtcc ttcctgcagg agagcccttc tgtgattatc taataatagc caggggtggct 300

gagaatagaa tctggctcaa ggactctgca caccgggggc agagacactg aatctgtggg 360

tcagggcctg gcaacattcc ttggagcctc cccctctgag cccactcttt gggcacctt 420

aggcttgctt gccccctta taaggggctt tgtcagccct gccatccgct gtatttcatg 480

15

tgctggttcc tagctaagga gaattgggca gagcaaacc tttctcacc tggctgaca 540

gttgatgatcc cgacagaatg cgaccttgtt tggagaaggc gaccttggtt ggttggctgt 600

gttctgaaac caggcttggg agtgttatat atttattata tacaggctta aatatacaga 660

ctcaggctta tgcataaata tatacagact catatttctt tggtggttaa ttgtatatta 720

ccatgcctat attcgctcaa acaccatfff atgttcatgc aaaatfffgt tagtctcac 780

20

tagatgagag tgggctcatg gaggcaccgg gtgcactgag caggccctct gtgcatgctc 840

tgctggaaat atgtgctcac tggaaatcga gtatgcgggt tccagtaacc aatggatgcc 900

ataaaggctt tctcagacct tattgctfff gttgcccagg cagctggact ggggaaatac 960

taaatccctt ctgctttctc tccacacctc ctggcaaact ctcccactt agaaattatt 1020

ttacaaggga gaccagttgt cttgaaattg agttctgcgg gattctfff acgggcatgg 1080

25

tggggctgca agcagttcgg agtagtcagg gccctggcgc tggaaagcctc actggagcga 1140

tgaagggatc agagtggtta ataaggtggc ctctggacag tgatctgggg cagctgctgg 1200

ccagggtgct tggagaagct tgtggaaaag gcaagccaaa aggggtaggg atgcagtgaa 1260

tatctgtttc tccccctgct tgccccagcc ggccgctcac cccgccccag cccgatttgc 1320

ctgcatccgt ggcggcagat tgggagttct ctaaggtccc ccaaataccc agatctgggt 1380

30

actggatgaa ctgcttttta atcctcgtcg ctatctgagc caggacaaga cctggctcagg 1440

gagacggctg gtccgggcag cacgggagag gacgctggac ccgctgctg tggcctggag 1500

cactgagtat gggctaccaa ggctgagaat tgatgggcct cctttcccag cctttttccc 1560

ttccagagac acaaaaagac agagcagagg ggaaatatca atgtcagtgg aaaaccccat 1620

aaaagaaagc agggaccaga gcggggctgg aggggttttc cgctactctc tctaggtgat 1680

ES 2 784 246 T3

	cgggttcctc	ccaagactct	tgtccagaca	ggctgcacca	agaggtgtgc	agctttcttc	1740
	caccttcctc	ccgcccttca	aggagggcag	ccttaggctt	tctgggcctt	ggtcacccca	1800
	ggcactgggg	tgacattact	ccaggattgt	gcccctcgcc	cagcccacgg	cctctgccac	1860
	ggcgccgcag	ccgctcctgt	ttattgtgtc	tgtgagttgt	ttacttgttt	tgtctgctgc	1920
5	caccctgcgt	cagaaacccg	ccaaaccagc	gaactcgccc	aggagaacaa	agtgctgtgc	1980
	tatccccgga	ctccctcccc	ttccagcaa	ccccctcctg	ccctcacaag	ctcctgcatt	2040
	ctccctttcg	gaggggagga	agcagaaata	gtcttaaaac	agggcagctg	tttatagggg	2100
	caggggaatt	atggggacac	cataaacctc	tgggtgtccc	tgtggtggac	agacttctga	2160
	gcagcccttc	ccttgcctag	gcttttcttc	cttcccctgg	tgaccacttg	gttaaggggg	2220
10	ccacactcat	tgagaaagtt	gagcccaccc	ccatcaaccc	agtccccac	tacccactc	2280
	ctttctgcag	gagtttcctt	gagacacagg	ttgttggggt	ttaaatacagg	gtaatgttgg	2340
	tggattcata	aagctagata	tagcatgtca	ttcttctccc	acactccctc	tcctcagccc	2400
	cccaaaattg	cagtgaattt	aagcaaatcc	tacaaaatta	aattgcccct	ttgctaaaga	2460
	tcctatatgt	ctccaatcct	gccaggtgta	gagtcagata	gttggctttt	ggcctttaat	2520
15	tttgctgcta	gctattaaat	ttaaagaggt	atcattgaag	taagtaatat	tctcatttct	2580
	gaaattaatt	ttcccctccc	agtctctctc	tctctctttt	tgccagcaca	gattaaatgg	2640
	ttctttcaga	tctgcaaaca	ataaagata	aaattattta			2680
20	<210>	13					
	<211>	2422					
	<212>	DNA					
	<213>	Homo sapiens					
25	<400>	13					
	ggtaacatga	aaataatgga	tgagcagttc	aactatatta	aaaataaacg	tggttaagag	60
	tgctcacctt	aagtgtagga	tttgaaagtg	taggctctaa	agtcagactg	ggttcggaac	120
	ctggtatcat	tactgacttg	gtgtgtagct	tctctatttc	tcagtctatt	taacctttct	180
	catccagaaa	atagtgataa	taatgctggt	tatctcatag	agttgtcgtg	agaattaagt	240
	gagttaattt	gggtacagtg	tttttaacag	tcaggcacat	gggtgtgtcca	acaaatgttg	300
30	gctattagaa	ttgtgatggg	ttctcctata	gttcgagatt	ttagtctctg	caaagtaaaa	360
	gacttagagg	ggggaagctg	cccctttcag	atgtgggtgtg	gcatttattt	ccaagtgcac	420
	gtgtgagtct	tctgtcttgg	taactctcca	gtgtgggtcat	tagtgttttc	cagttggtta	480
	gtgtgtctct	tctcttccaa	tagcaagata	gggtgtttcaa	attcctaggg	cttctatcag	540
	cacacatgag	ggggcttctg	tcccctgggtg	agcaactggct	tgtttataag	cctacaaaca	600
35	gcactgtgtg	ctcaatattc	tgtctgcacc	tctagattta	cctccattct	tcaccctgat	660

ES 2 784 246 T3

	ttttgcccc	agcaggctga	cctctaagga	tcccctggct	cctgtgcctt	ctatatctctg	720
	gttggagtca	aagggagttg	cagggaggca	atcagagagc	aggaggagag	agatgctatg	780
	ggattatctc	ctccaccca	acacattcct	tttcttctgg	gctgcagtct	ggcagcggct	840
	gcattcctct	actaaatgcc	acaactcctt	tcaagtggct	cctgtctgac	aacttcctgc	900
5	tgggttccag	tggctgctct	ttctcttgcc	ccttcagatc	tgaaggactc	ctctgttttc	960
	tagttctag	tactgccact	tacctgttcc	cttatctctt	gccacacctc	ggtagtccct	1020
	ttattgaaag	ttcttcagct	atcctctttg	agcacactgt	ttcctagctg	gtacatattg	1080
	accttgagaa	ggttgatgct	tcctcaccta	cttactgttg	ggaagaaaat	ggaatatttt	1140
	aactgctcct	gcaatgtcaa	tacagaatcg	gccctttcaa	agtccagtgc	cataggatat	1200
10	gaagagcatt	gctagaacag	cgggacatga	atgttctacg	tggctaaata	caatgatctc	1260
	cagtataaaa	acccaaatgg	tcaaagatga	actcaaagga	ttggagtgaa	cacaggtttt	1320
	attattactc	ttagaacact	ctgggttata	aaagaactta	cattctttaa	cataattctg	1380
	ttgttttgat	actaacgttt	agtgccctt	ggatggcagt	gccaggaata	aaatgtctga	1440
	attaagctag	tgggggtgat	tgagtttatg	gccaggagct	acattggaga	gagagccatg	1500
15	tcagtagcct	aacactggca	agacagtgac	ccaagtactc	tagacttggg	tgtttttgat	1560
	aggttctttg	gaaaaacctc	ttctaggtcg	ttaagaaagt	ttgaaaggct	ttagtggttt	1620
	aattagataa	aatgtagcag	aaggcaatat	aacataggca	cccatagaaa	ggagggcaat	1680
	ggtttataag	agcttgactc	tggctcacat	ctgagagaca	agaaaacata	aatccttcag	1740
	tcagatcctt	ttatgggacc	cactttcctc	atagattagt	ttatgtaaaa	actccagtaa	1800
20	agaatagcac	agagacctct	gtttgtatgt	ttgatgattt	tactgttagg	gttttattac	1860
	ttggttcatg	tgcccgagga	agtgaacggg	tccatgaagg	atatatttgt	gagggttaaag	1920
	ccacatgtag	tttatttaac	ttttgcagtt	ttccaatttg	ggtctatatt	tcaacccoga	1980
	attttcta	ttggggctca	catttcaatc	aaaagatta	aatttctttt	cctctgtggt	2040
	tgtggatctc	tctgggcgcc	acccttaaaa	ttagcatcat	ggttcccatg	gcaactaacg	2100
25	tacctggaag	atggcaagaa	aggaaaagga	ctaaataaaa	tagaatgaag	ctgcatctga	2160
	aaaactggaa	ttaattatga	acttgaacaa	agggttatac	tgcaagtggg	tggggagatg	2220
	agtattaagc	atataaggtc	tttgctttaa	gacctctgta	attcacttac	catttcatta	2280
	ctttgtttat	tcagcagccc	ccaaatcact	gctagttttc	ttttccctct	caccttcaat	2340
	agagaacatc	attgggggtca	ggactgtgca	tagttcagga	cgagtttacc	tctacagggg	2400
30	gcattttgta	agatgtcccc	aa				2422

ES 2 784 246 T3

<211> 830  
 <212> DNA  
 <213> Homo sapiens

5 <400> 14  
 tgaagcccat gagccactag aagccacatg ttctgccatg tggagaagaa tgagagagta 60  
 catcctcaaaa ttgaggtgtg gcatgatgat ttggctgccc agaggagAAC ctgtctttcc 120  
 catctaaaagt gggaggtcaa gccaagtaga gggaaacagc aactggagag cagatttgca 180  
 aaccagaaaa gcaactcatg aatacaaat gcctggaaag catttattac aacagaagct 240  
 10 ctgcaagata taccggaaat tgacagtggc atcgaattcc cagcaaggaa gttttctaag 300  
 gacaccaaca gacaccagca gaagacagcc ttgcatttac aacaaacat tgatccacaa 360  
 caaaccattg atccacactt tcaaaatcat tgaggtgaag catagagaac tggagtggag 420  
 acggctcttg caaatccaaa caatatcaaa agcactctca tactgaaaac ccacagtgtc 480  
 gaaccacagc tgagatgtaa aatatttcac aaaatcttct tcaccctcta tagtatttca 540  
 15 cctgagagtg catgatttaa gttgcaagca ctgtcataga tgatgggatt cagagatgaa 600  
 cacatggaaa tggactttat gttctctaata gtcacaaaga aagagtgatt atgaagaaga 660  
 ccagattcc cacctattaa tctgagcttt gaattcttta ctttgctggg tccaccggat 720  
 ttttctcca ctcagcccat cgatgagagt ggaggcggcc tgcactttt tccggcacgt 780  
 atcagcgtca ttaagcaaat cctgcagcca taatgggaga atgtctcaaa 830

20  
 <210> 15  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

25 <400> 15  
 ctttcaaggg cctgtgcctg tggtaactgt ctatgagcca ggtatatctg aagcatattt 60  
 gacaacagaa aaagttaatg taattttcaa aggaaaaacg ccaacttttt tcaaaaaggc 120  
 tggatccagc tcttcatgaa tgtcctcaat gagaaggggt cggcccaagg aaaggctgtc 180  
 30 ctccaagtgt gtgCGaaaat atttatggtt cagagatgtc acctaaacag aaagaactca 240  
 ttggtctatc tgtgttacia agaatgtgcc cattgctaag ggaaaccgag agatttgttg 300  
 gacagtaat caagaatttt aagggaata gaagaagact tacttaaaaa aattaaagta 360  
 acatacaaaa attaatttct aaa 383

35 <210> 16  
 <211> 753  
 <212> DNA  
 <213> Homo sapiens

40 <400> 16

# ES 2 784 246 T3

	atattctgaag catattttgac aacagaaaaa gttaatgtaa ttttcaaagg aaaaacgcca	60
	acttttttca aaaaggaac agcaactgga gagcagattt gcaaaccaga aaagcaactc	120
	atgaatacaa attgcctgga aagcatttat tacaacagaa gctctgcaag atataccgga	180
	aattgacagt ggcatcgaat tcccagcaag gaagttttct aaggacacca acagacacca	240
5	gcagaagaca gccttgcatt tacaacaaac cattgatcca caacaaacca ttgatccaca	300
	ctttcaaaat cattgagggtg aagcatagag aactggagtg gagacggctc tggcaaatcc	360
	aaacaatadc aaaagcactc tcatactgaa aaccacagct gctgaaccac agctgagatg	420
	taaaatattt cacaaaatct tcttcacct ctatagtatt tcacctgaga gtgcatgatt	480
	taagttgcaa gcactgtcat agatgatggg attcagagat gaacacatgg aaatggactt	540
10	tatgttctct aatgtcacia agaaagagtg attatgaaga agaccagat tcccacctat	600
	taatctgagc tttgaattct ttactttgct gggtcaccg gattttttct cactcagcc	660
	catcgatgag agtggaggcg gcctgcatct ttttccggca cgtatcagcg tcattaagca	720
	aatcctgcag ccataatggg agaatgtctc aaa	753
15	<210> 17 <211> 13965 <212> DNA <213> Homo sapiens	
20	<400> 17 atcccctctg agaatttatc agaaaaacia gcaataagtg agaccaacgt tgtgaggtat	60
	taactcggaa ccgtcatcta tccttgtgga gaaaaaccg gaggacttgg attaggaccc	120
	aatagtctac cttggcggca ggtgagaatc acctggggag cttttgaaac atgaggctgc	180
	caggctggac ctactccag accaattgaa ccagaatctc tgaggcgggg cctgggtggt	240
25	ggtaattttc ctttgaaaca ctcccaggt gattctaattg gaatctagga gtgagaatca	300
	ctgggggaag gcattttag atgggaaggc tgggtggcatc tgctagaaga cttgatgtgt	360
	acttgccag agataaacca caggctctggc ctgaatgggt gtggaaatgt gtcagtcatg	420
	ttttcagatt tccaaggtca ttttccaaga gacctctgtg agcttggact ggatagcgca	480
	gcacagggcc agcgatggca gctggaaggg tggctgccta ggaaggagggt aagctttaat	540
30	aactgaaata gatgctgcac tttcatctac ttaattgcta tgatttgaag tctccatag	600
	cctgaaacga ggtaccagc ggaggggtgtg agagaagggg agggacttga gggatcctgg	660
	ggcccctaga ctttatctca tgggaaggtgc tgggctgggt cagcaggact caattgctg	720
	ctgcaaaggc ctcaagtctc cccagagatc cggctcccca cagaggcact gactgcacca	780
	caccctgaga tctcactgcc ggtctacagc aggaccatta agataatcaa agagtctctg	840
35	gggagtttgt ggagcgtgac tgtgaccacg ggagcatatt ttattttgcc ttgaaccaa	900

ES 2 784 246 T3

	ctgctaagga	agaatttctct	tacatTTTTca	acagaaagag	ggtatcagtc	agccaaatag	960
	ccctgagcac	acttctagtt	agctaacagc	atcccagaaa	aatagacctg	aagtttctat	1020
	aagcagcctg	tctccttCGA	gaccaaagct	ttctctcagt	cagggatggt	gttgggcccc	1080
	atagtaaatt	tggggagacc	agggaaaatc	caggctcagg	agaggtaaata	tttctactgtg	1140
5	cttgaatcag	gagaatctga	ttatcaacat	caacccttct	ctaaaatgaa	tttaaaccAA	1200
	catttaaaca	tgcttctctgc	cacctgcccc	cactctatag	aatTTTTcct	cgactctccc	1260
	caccccccta	ctctctttcc	ttccaacaac	tccatttcaa	ccacacgcac	ttgatagaat	1320
	atcacacaca	ggcacattta	ttattgacca	gcttctttat	ctcggatagt	atgtcatgag	1380
	tagtcaagac	tatagctctt	gaaggtagtt	tcatagattt	aagatgaaga	aacagtatcc	1440
10	atatagttcc	agagtcaagg	tagtctaata	gccagtgaAA	aaatacaagc	tgttggagag	1500
	tggaagttta	ctcatgggag	ctggcttGGA	ctttagatat	gaaacatttg	atTTatagtt	1560
	tctatTTctc	tctgatagaa	aactctgcta	acccttattg	gaaggtcgaa	tgtgttgggt	1620
	tctttagctg	aggtagctgt	taaaatttat	ttcacattca	aggaaagggg	ctcttgttat	1680
	taaccatgtt	cccattttAA	ttatgatttt	cctggcatca	TTTTtaacAA	gaataacctA	1740
15	aggcctgcaa	ggagtgattt	ccctaataca	cttcttaaac	cctccctccc	cacccccAAC	1800
	taactgctat	agctacagct	acacagatga	aatgaaatgg	agacttgagc	aattacctgg	1860
	tggatctgaa	cagtgtggag	tcagcagtca	attagaatag	ttcaattaca	aaaatccttt	1920
	tttctccctt	cttcttttct	gctatagaat	tatcacctta	actcttctc	ctccaccac	1980
	cctgtgttga	ggcctccttt	ctcatccttc	tgcttccggt	ggccccagac	ccctctctac	2040
20	tggatggccc	tggtctctct	gccagcctag	ccctcatatc	tattcctttt	tggggagagg	2100
	cctcgaattc	ctcctctccc	aattggatgg	gcttaagatg	gggaaccttg	tgttacgctg	2160
	accctgaac	cctcacatca	tttcccaggt	gtcagtgtac	cttcagaaag	cctgtgcctg	2220
	aggctctgag	ccacatcccc	ctggccttcc	atggtgctat	tctgagattc	tctttgcaca	2280
	ccccgttggc	taccagatc	cattcaccta	cggggacact	acttattctt	gccagcttcc	2340
25	ttcaccaggg	agtgagcctg	accctagtcc	agtatgatga	gagtgcctgc	cccagacac	2400
	agaagtcaca	gatatgggtg	ccagtaggcc	ttctgagtat	ggctgtacct	cctgccaaact	2460
	ggggctccAA	ggacttctc	ttcaccacag	tggcaaacac	ttgcctggat	gttgattaca	2520
	gatagatagc	cagtccatc	tttggatgat	tctcactgtc	agccatgtct	ttctccttag	2580
	cagaggtctc	aagcacctct	cctctggcat	gtcttgctgg	gaatatgatc	caccatacca	2640
30	gatatgtatt	catctattca	gccatttaac	acgtgtttat	taagcactta	ctatgtacca	2700
	agctttctgc	tagatgctgg	ggaaaacaac	ttacaaacc	ttatttactc	ttacatacgt	2760



ES 2 784 246 T3

	attcatatgt	acctttaagg	aatgagtatt	aatttgccag	caatgcccta	acaaaaatacc	2820
	acaaagcatg	tttaaacttg	gcttaaacaa	caaaaaatth	atthcgtcac	agttctgaag	2880
	gtagaagtc	caaaatcaag	gtattcgcag	ggttgcttcc	ttctgaggtc	tgtgaggaag	2940
	aatctgtttc	agactggaac	actacctttc	accattaaac	aaaaattcac	tcaagatgga	3000
5	ttaaagatth	aatgtaaga	cctcaaacta	taaaaatcct	aggaaaaaac	ctaggaaata	3060
	ctattctgga	cattagtctt	aggaaagaat	ttgtgactaa	gtcttcaaca	gtgatcgcaa	3120
	caaaaacaaa	aattgacaaa	tgcagaccta	attaagagac	tgcatagcaa	aataaattat	3180
	taacagagta	aacagacaac	ctatagaatg	ggagaaaata	cttgcaaact	atgcatctga	3240
	caaaggtcta	atatccagaa	tctataagga	acttaatgca	acaagcaaaa	aacaacccca	3300
10	ttaaaaagtg	ggcaaaagac	atgaacagac	acttctcaaa	agaagacata	caagcagcca	3360
	gcaaacataa	aaaaatgctc	agcatcacta	atcatcagag	aaaatacaaa	tcaaaaccac	3420
	aatgagatac	catctcatac	cagtcaaatg	gctagtatta	aaaagtaaaa	acaaaacaaa	3480
	acaaaacaaa	cagatgctga	caaggctctg	gagaaaaggg	aatgcttata	cactgttagt	3540
	gggaatataa	attagatthc	cacatggaa	atcagthtg	agattactca	aagcacttag	3600
15	aacagaacta	ctattcaacc	cagaaatctc	atthctgggt	atatatatcc	taaagaaaat	3660
	aaattatthc	acaaaaaaga	cacatgcaca	tatgatacag	aacatatgat	gcacctatgt	3720
	tctaccaaaa	acaacatatg	ttcatcacag	cactatthc	aaagcaaaga	cacggaatca	3780
	acctaggtgc	ctatcagtg	gggattggat	aaagaaaatg	tggtacatat	accccataga	3840
	atactatgaa	gccataaaaa	agtgaaatcc	tgtcctthg	agcaacgtgg	atthcagctgg	3900
20	aggccattat	cctaagcaat	ttaatgcag	aacagaaaac	caagtacggc	atgctctcat	3960
	ttgtaagtgg	gagctaaaca	atgggtgcat	aggacataa	atatggcaac	aacagacact	4020
	ggggactact	agagggagga	gggaggagca	ggacaaggac	aagggttgaa	aaactacctg	4080
	ttgggtacct	acagtgtcac	acaatatatg	catgtaacaa	acctgtacat	gtactccctg	4140
	aatctaaaaa	gttgaaatta	tatatataaa	atgaaagtat	agaataaatt	aataatataa	4200
25	tccactgtat	aaaaaaaaaa	gaaaaaaaaatc	tgtthcaggt	tcctctthc	ggattgctga	4260
	tgaccatctt	ctccctgtgt	ctctthcag	catctcccct	ctatgcattt	ctthgtctgt	4320
	gtccaaatthc	tcactththt	ataaggacac	cagtcatact	ggattaggag	cccaccctac	4380
	ttgtgacctt	aacttagtga	attacatctg	tactgatctt	atthccagat	aaggccacat	4440
	tctgaggtac	tgggggttat	atcaththtg	ggggacacac	atthttcaac	ccataacagt	4500
30	atgcatcatt	ttatggggca	gtaatgatag	agatgtatat	gtacagtgca	gacctagtaa	4560
	aggagtaga	cactthththt	ththcagggc	agacacatcc	tcaagaaagc	taatatgaag	4620

ES 2 784 246 T3

	ccacaactat	gtttcaggaa	ctatTTTTgt	ttattgatca	cttattatgt	gctaaacacc	4680
	atntagtaat	ttacgtgtgt	caacacaatc	ctatgaagaa	gctgagccac	agagaggtta	4740
	agtaaacagt	cccaatgcac	ataggaagg	gcagagtggc	agatcagggtg	tattttgcag	4800
	gaactgaatt	acttatactg	tcttccccta	cctccctgaa	acaccaggct	ctgcccattg	4860
5	aggatctgtc	catagttaa	gaccctggcc	ctgacagga	ccagcttaca	tggatgatta	4920
	ggcgtgaaag	ctgtctgagt	caggcaaagc	agaagcctca	ttgtgcaaaa	cttcctaadc	4980
	cccttgggtca	gaacctctgt	ccccatgcac	ccttaaaata	ggcactttcc	agtctatttc	5040
	aggtgctgtt	tattgtcttc	ttggtatcct	tcaaacacga	ttatcatatt	catttgggta	5100
	tctctagagt	gtaagcccca	tgaaggagg	gacttgtgtt	gtcttcttta	gtgctgcatt	5160
10	gccagtgcct	agcaatggcc	cagagaggca	ttccagaaa	acttctggta	aatggattgt	5220
	gctatatatc	agatttcttt	gggtcttct	cagaaattag	acttcattaa	aaaaataagc	5280
	cctaggtgaa	aatgcctct	acgaacttgt	acattaaat	actgagtaaa	aatgaggcac	5340
	ttaaagcatc	acagctggtc	tctagcccag	gcatggaggc	caactgaagat	gtggctgtct	5400
	gcaccaagt	catattactg	aattcattga	taattatcct	aagtggagca	aatagccctc	5460
15	atacaactct	tgagcatagc	tgtaagtttt	atcttactt	aaagtattga	cttcccatcc	5520
	agggatccat	catccttttt	tttttttttt	tttttttttt	gtaacagtgg	cccactccca	5580
	ttgctttgtg	gaaacaggcc	acgcgttcaa	ggcaaacttg	actgtacaga	gctcacagtg	5640
	gggtgggtac	ttcacggaca	ctctctgaac	tgctaagggtg	gtagagcaaa	gcaggtggag	5700
	ttgggagttg	gaaggcctgt	gtgctcacc	tggcccacag	gcagctcata	atztatgttg	5760
20	agattgggta	tcccacttgt	aagaaggagt	aaataatctc	tgcctgttt	gcctcacata	5820
	ctattgcagg	gttcaattaa	gttaatgcac	agaaaagcac	ttcggactca	gaatttacat	5880
	atgtaaagaa	taattacctg	ggagcaacgt	ggcaagaaca	ggagtgggtg	catctgatag	5940
	acctgggctt	aatcccagt	tctactcacc	ctgctgtgac	tttagttatc	tataaatctc	6000
	tttgattttt	tgtcatttgt	tttatcatct	gtaaaatggg	gagaacaata	ccagccttgc	6060
25	atgattatga	gagtcaaagg	gaataatatt	tggaaagtcc	ttggcacata	gtaggtgcag	6120
	tggtaacttt	tttctgtctc	atcttagttt	gtcacttaat	cagagagtgt	cattgtatta	6180
	gttttctgtt	attgccataa	actatcacac	acttagccac	ttaaacaat	acaatttat	6240
	catcatgtat	ttataggtca	gaagtccagt	gggcttggct	ggtttctctg	gccaggtctc	6300
	acaagttga	aatcaagggtg	ttggcaggcc	caggggatta	tctactttca	gacttattca	6360
30	aggcattggt	agagttgagt	tccatgtgat	tgtagaattg	aggtctccca	gctggtggct	6420
	ggggattgtt	ttctgtttat	agagaccacc	cacactactt	ggcttgtggg	ctcttcccc	6480

ES 2 784 246 T3

	ttcttaaaag	ccagcaatgg	tgggttttgt	ccttctcatt	ctttgaatgt	ctcctctggt	6540
	tcccttttct	gctgcagctg	actcttctgt	ctcctctacc	cctttaaggg	ccccatgatt	6600
	atgttggtg	taatttcatc	tgcaaagcca	cgtaagcata	ttgtgccaa	gtaacacatt	6660
	cacaaattcc	aggggataaa	aacatgaaca	tcttttgctg	gggggtgggg	ggagcgggat	6720
5	tattttttct	accacaacca	tatgttgata	tccgatgttc	tcatattatt	aataatgtct	6780
	cctcaacaag	atctaataat	caaagtactt	agctcaatgc	ctggcgtaga	gtaagcgctt	6840
	ggccaatatt	agtttctatt	tttgttggtg	gtaagcagat	gacaataagt	atcttgtttt	6900
	tttctacag	ttctagcaaa	tccacctggc	taagggatgc	atcttccttt	actactcatt	6960
	gtcaattctc	tccagaaagt	ctttctgacc	ccagtccttg	cccaccaggc	tggattcagt	7020
10	gccagtcctc	tgtgttacag	catcatagaa	cttcccttgt	tcagctgtcc	attaccctat	7080
	aactctttca	ccagattgtg	ctttttgagt	acagaaactg	acatttctgt	atcatttagt	7140
	agagtgtctg	gtacatagta	catgctcaag	aaatgcttat	tgaataaatg	aatgatggga	7200
	aaatttatta	tatacttaaa	aatttttgat	caaataatta	ctggttggaa	agtatccctt	7260
	aaacaacaca	aatattgaaa	tattcagtga	gaggaaaatc	tatgcatatc	aatactgtgc	7320
15	ttcctgagaa	ttatctttac	acagaagact	tcttgaaaaa	taaataaaca	ttgtgtttgt	7380
	gaattgtcca	ggcctggatc	ttgaggagga	aggcacttct	gaaatagctg	caactcccgg	7440
	taagtattgt	acttgaatt	caactgaatga	ttgtgacact	tttttttct	gaatgcatta	7500
	gggaacaaac	aaagagagta	ttgaaataaa	gccacatcat	cttggttct	catttgcttc	7560
	cttactggga	cttattatat	ctaacagcaa	aactgaacc	tagtgttatt	tctcttgaa	7620
20	attcacgagg	agctcttct	tctgtttttt	tttttttttt	ttttgtctca	cacattgaat	7680
	actcattttc	tgtccatttt	gtgaagtgtc	ttaacaatac	tgcaagtagt	tagtgaccaa	7740
	taataatcaa	ataagagcaa	ttttcatagg	gccattaata	ttgccatgtg	tgttttccat	7800
	attttagaag	tttctcaatt	ttggtttgtc	agcctgocca	tgtgattcca	gatcagccaa	7860
	ggaggccagg	ctcctcttgc	ttgggccagg	atcacttaac	agctgttttg	agcttggtg	7920
25	gtctttttgc	aataattgct	cccactaagg	gactttgatc	ttttgatatt	tattttttaga	7980
	tacaatatag	tcaccattat	tttaaaggaa	cagttttatt	atctgaaaca	aacaaccaca	8040
	aatgaaaaat	tggagccaaa	tcacaggcct	caggaccag	atgaggaata	aagaaaaatt	8100
	gtttatagcc	ataaatgctt	tctttgcagc	tttccttctg	tctattgggc	tgggtcacat	8160
	tttctaccat	cacagaatgg	tgattagaca	tcagattata	tcttgatatt	acaatggtac	8220
30	tgccctctat	tggaaagtctg	ggaatcctaa	tttcttttgg	attcagtgtc	ccattttgaa	8280
	atcacagtcc	agctcaggta	gcaggctcac	atataacatc	gaagggttgc	aatgaagtaa	8340

ES 2 784 246 T3

	tttctcaatg	gctcctctgg	ttgaacatgc	ttgcacaatt	atthtaaaact	cagcaaacat	8400
	ttgttgaaca	cctatgatgt	gccagacatt	gtgcaaggaa	ctcaatagat	gcagagatgt	8460
	ctaaaacacg	gttcgtgatt	tcaagaatct	tatgacctgg	tacaggagac	agacttttat	8520
	ataaataaat	agaaaggaat	ctgacttcat	ggagttctgc	aattccaagg	aatthtaagt	8580
5	ggtatgtggg	cagatgcatg	gccaaggaga	attaggactt	actactggac	cagtcattgg	8640
	ctcagtgcct	ggcatacggg	agatacttca	taagtggggg	atgcatgatt	tggagaaggt	8700
	gatgtaatta	ggacggaggg	gtctggaagg	gctgtacagg	aagggatgca	gccagagcct	8760
	cactgacatc	ttcctctcct	gctcatactc	tgagcaatcc	tagaaccatg	gtggatgact	8820
	ttagctgcag	cacagtacga	gaacagagtg	atcaggagtg	atgcactgac	agagcatcca	8880
10	gcaaggcctc	tttcattaat	aaactattaa	taaacacaac	agactgatgt	gccacacata	8940
	gcagtactat	ttgagcctga	atatgcctat	agggcagcac	accttgagtg	gacagtgggt	9000
	gctaaagagc	catttataca	agtaatgtca	ctctcttgcc	tgtcctagag	ttcttgctcc	9060
	attgtaacct	ctcttgagga	attcactcct	ccactgagtc	tctgaaaaaa	gaaaagcttt	9120
	atctatcaat	gagcaagctc	tatagcaggg	tttataggcc	ttccttgacc	tgggcctga	9180
15	ctaccatctc	tatctcctct	cccagaactc	tcccaccttc	ctccaaccga	tccaagctgt	9240
	tattagtttc	ttctcacact	ttcatgcctt	tgcactgcct	ttccctctaa	ttggaatagt	9300
	ctagttttta	atctaaagtt	tctacttatt	ctttaagact	tagctcaaag	gccacttttt	9360
	tttgaaaagc	atthctttgc	tttttttagac	tacaaaaaca	tcttctgaat	ctccataaca	9420
	ctaggtcatg	tgtctgtcct	actgcttact	gcaattctcc	aactatthgg	ttatataatc	9480
20	gtthccctag	aggtcaaata	cggtgtccta	ttagtcaatt	tagccccagg	gggttaatat	9540
	attatctgga	acatagctaa	cattthtgtga	atactthtct	aataaacgaa	gtggatthgg	9600
	caaaaaactc	tgtgttaaga	aaggtctagt	gaaatathtt	tcatctthca	thttataagta	9660
	tctataaggt	aagataggcc	cattgtccac	aatctgcatt	aatagatctc	aataactggc	9720
	aaaggaagaa	tgctccccag	agaccaggag	agagaaaagg	ccaagtgggc	aaagccaggg	9780
25	ccctctthaa	cagacagggg	ggacagaaaag	gatgggaacc	cttgthcata	actgthcctg	9840
	tgaaatatcc	cacaaaaagg	aatctgtgct	agaathattt	tgggaaatgc	gatttactct	9900
	thtctathtc	attaththct	catcctatta	thtaacaagt	athththaaa	tgtctactat	9960
	thgccataca	thgtthctcag	cactggaaaag	atggcagtga	acagcatagg	tcatgthtcc	10020
	tgcctccca	gagththacat	tctagtgtga	gacacaagcc	ataaacaaaa	taagaacttg	10080
30	aactgggcag	tgtththacag	aggggtatta	agtgtctatgg	agaaaagaag	tgggaaagct	10140
	thtaththgaa	gtggthgggga	gtggagtatg	ggaathththga	ataagaggthc	aagggaagthc	10200

## ES 2 784 246 T3

	tcaccaaaaag	gttgcatctg	agtaaagacc	tgaaaagaaga	gaaggagtga	ggtaggtgga	10260
	tgtctggcta	aagagcaatc	aggaagaag	gagctgtgaa	agttccatgt	ttagaggaac	10320
	agcacagggc	ccagtgtatt	ttcagcccag	gaagggaggg	aggtgaagat	gggagatgta	10380
	ggtggagaag	tcatagaaga	gcaatcattt	ggggttgtag	gtaagaactc	tggatttcat	10440
5	ctgagtaaaa	ggggaaagcc	attgcaaggt	tttgaagaaa	gaggtgatat	tacctgttgt	10500
	ggcaagtgag	gcagtcaacc	taggtgttgg	gctgagagta	gactatcggg	gaagggcaga	10560
	ggcagggaca	ccatttggaa	ggcttcttaa	atggtccagg	tgaggaaga	tgggtggcttg	10620
	ggccagggta	gtggagtaaa	gtggtcaaat	tctggatata	ttttgcatgt	agaatggata	10680
	ggatttgctg	atggatgaaa	caggaggcga	agaagaaata	gaggaatcaa	gaatgacatt	10740
10	aagatTTTTg	gcctgagtaa	cttgaagaat	gaagttgaca	tgaactcgtg	gtgggggaag	10800
	actgagtgag	gaggagtTga	ggggatatca	agttaagttt	cagacgttta	ttagacatct	10860
	cgtggaagac	catgaatagg	cagtcaagca	atcagaggac	aggtatgggc	aggagatgta	10920
	aattgaacag	tccttatcat	gaagacagta	tttaaagcca	ggagactagg	agaggtcacc	10980
	cagagtatga	aagtaggcca	ggaagagaag	agaagagaag	agaaccaaga	actgaactct	11040
15	gagatggatt	tagagtccca	gctcttgaat	tctcatctct	gacagtcctt	gaagaaaaga	11100
	aacaggttta	acttggcttt	tcccaatgta	tcggatgatg	gaacaccctt	tcccctatag	11160
	aactgtggaa	tttatgttcc	actgaacact	ttttggagaa	ggccactcta	ggcttggaa	11220
	ttatcctagg	gccataaggg	aaagcctttt	ttatcctcta	ctaagaagtt	tggactttgt	11280
	ctcccaggtg	ttggtagtTc	accagtgaat	tttttttttc	ttcaacacaa	gaatagtggg	11340
20	gttcttttatt	tacctttgca	tatttttttt	cttctctgaa	tttttttatt	atactttaag	11400
	ttctggggta	catgtgcaga	atgtgcagtt	ttgttacata	ggtatacacg	tgccatagtg	11460
	gtttgctgca	cccatcaacc	catcatctac	attaggtgtt	tctcctaag	ctgtccctcc	11520
	cctagcccc	aaccccccaa	caggccccca	gtgtgtgatg	ttcccctccc	tgtgtccata	11580
	tgttctcatt	tttcaactcc	cacttacgag	tgagagcatg	tgatgtttgg	ttttctgttc	11640
25	atggatggat	tttaagagaa	gtaacaggat	ttacatattt	tgggtggcagt	atggaaagtg	11700
	gcttgtagag	gggagtctga	tggaataaga	caagagaata	gctgactgca	gtagccttgg	11760
	tgacagatga	tgaagccctg	aacatagcga	ctaggaatgg	atggaagaat	cagattaaat	11820
	gggtatTTtag	gatgtttaga	atcattaaca	tttgatgacc	aattagatat	agtggatgat	11880
	gaaaaatatt	caatgataat	cctgagagtt	ctgtcttggg	tcagattgtc	tatatttacc	11940
30	tgtatccctt	agagagatct	atcaatgcaa	ggtacaaagc	aacattccat	gtaattagct	12000
	tttattttta	actctgttca	agttatattt	taacagagga	aattgtgaat	tgatttaatg	12060

ES 2 784 246 T3

	cccaatgttg	ccttctat	ttgtcattca	taaagccatg	ttagtttttt	tattaataca	12120
	aaaatacttt	aaaatggat	ttacttgagt	aagcatgatg	aatcgtttga	atgtgcagag	12180
	gattatgatg	ttatTTTTTA	aacactaata	gtcatatTTT	gggattggtg	tgttctaatic	12240
	TTTTacatgc	agagtacaga	attaaaaaga	aaacagatta	tactgactag	aaaagtgttt	12300
5	ctagaagg	gtttaaggac	cttgtataga	ttgggccttg	ttctccaaca	ctgggaaaag	12360
	gtgggagaaa	ttccaacat	tgcttcattg	cttatctgga	TTTTgtatg	tttagaatgg	12420
	gactaagaaa	tgctggaatt	tctctgaata	ctccaaggac	tctggaagga	aagtacattt	12480
	ctataatgtg	gctgtggat	gtgcacacct	tttgcctttt	aaaacagcct	tttgccggca	12540
	ttaatggcat	ctcctgaata	tcttgggttt	gaagctgtga	attgagaagc	agaatcaaat	12600
10	tgtttagggt	catgtgaata	tcacatcttt	actactaata	aagcacagag	gaaagacctt	12660
	cagttggaca	tttaaataat	tcctaagaca	aatcaatgc	TTTTttggta	gtaagtattt	12720
	gtcctattca	caatTTTTTT	tcttgttttc	tttctcttag	gcacattgta	gggttgaact	12780
	tcctgtttg	cattacatag	gactggatc	ctgactggct	gtggccagtg	aaaatgtaga	12840
	tgaaaatagc	ctgtatcacc	tctggacgag	tcattaggag	tcagtgtatg	atttgataca	12900
15	tttcttctc	tctgccatgg	tgattgggtga	tggaggctct	attagttttt	gttcttgagt	12960
	aaagtaatgt	gggtatgagt	ccctagctga	ctccaatac	gagtgagaaa	taaaccttaa	13020
	ttgttttaag	cctccaagct	ttggagtttg	ttgtacagcc	cacatgaca	aatatacttt	13080
	tagtccttta	ttacatgct	ttaaaatact	gcttgcattt	tctgattacc	atatgttcat	13140
	tgtggagaat	ttcaaaaaat	ataaaaaaaa	acctttgaaa	tcacttacat	agaaatagtc	13200
20	tctgttaata	TTTTgatgta	ttgtcttcct	ctcccaattt	aaaaaatcag	gatcctaata	13260
	tatacgatat	tgattTTTTT	acttcatata	tactcttaaa	atacatgaat	ttgctgcata	13320
	ttattaattg	atgaggaagt	gttataatct	atTTTTtata	ttatgtttta	tatttatact	13380
	atacaattca	taagagtcac	atTTtatTTT	tgtactTTTT	cttgttgtaa	ataacattcc	13440
	aatgaaactt	ttgtgattaa	gtctttgctc	aaattgctgc	tgctgtcctt	ggagtagatc	13500
25	cctagaagg	gaacgactag	gtcaaggagt	atgcatactt	ttaagatttt	tgctacctat	13560
	tgccaggaga	aaggttatac	caattaacac	gtcagctgtg	tgagatgggc	catctcacca	13620
	gtctgttgag	tattagaatt	cTTTTtaatc	tttgttaatt	tgatagggtga	aaacgctatc	13680
	ttgttttata	tttgcatttc	tttgattaca	agtgttggtg	aacatttatt	tcgtatgttt	13740
	atgagtcatt	tgactTTTTT	tcttgtggga	attatctaaa	tggattctca	caccccccaa	13800
30	acaacaagct	aataaacgga	aagccacaca	ggaagccggc	agtactgttg	ccacggagcc	13860

ES 2 784 246 T3

	tctgcacgag	cttttgaagt	gtcagcgttg	aacaggttcc	tctaactccc	tctcatctgc	13920
	cttgttttga	ttattttctc	tccagctgta	tccctccaca	gtcca		13965
5	<210>	18	<211>	2218	<212>	DNA	
	<213>	Homo sapiens					
10	<400>	18	ttctttttgt	ttgctgcctt	ccgtagaaga	tgtggccttg	60
	ggttgtgagg	cctccccagc	catgtggaac	tgttttcagg	tgctggttcc	atggctcttc	120
	ctgagccgaa	aataaggaaa	ctccatagac	cttgtccact	ggaactcggt	cccactctacc	180
	ctccactcta	tccaggggtga	tggatctctg	cagtaagtgg	aagagttctt	catggcccc	240
	aaggttatat	ccatctagaa	cttcagcacg	taatttcata	tggaaatagt	gcctttgcgg	300
15	atataagtta	ggtaaaactg	aagatgagat	catactggat	taggatggga	tctaaatcca	360
	atgaaaatgt	cttcataaaa	aacaggaaaag	aacctataga	aacacaagga	agaaggctcat	420
	gtgaagatgg	aggcagagat	tggagggatg	cagccaccgg	cccaggaatg	ccagcagcca	480
	cccagaagct	ggaaggaaat	gagggattct	ctcctagAAC	ctttagagag	aacatgggtcc	540
	tgtgaacagc	ttgattttgg	acttgcccat	agcttgata	ctcttacttt	ggatacaatt	600
20	ttatccaaac	ttggctaaac	agtttctcag	cctatggaaa	atttaaaatg	gagaagattc	660
	aactcgattc	ttacagattc	aaagcaagaa	aatgatggga	acataggagg	agaccaagaa	720
	agcctataaa	aagcaaaaat	atgaagtgaa	cattgtggta	gctttaagat	gtttagtgtg	780
	gctgcaggca	ccctatacac	atgaaaacc	ccaaggggaa	tccccatata	acagtgtagt	840
	gtgatatttg	acattcgtga	tcactctagag	atgtacagaa	aaggtgaatc	tgtgttctgt	900
25	atattctgcc	taaggcaaag	aatgttttag	ctctctttaa	aatagttcca	taattttttc	960
	taaaaagctt	tgcttgaaaa	ctgtaagctt	cccatatctg	gagcatttca	ctttaaatat	1020
	ttggataaat	atgttatctt	cttacttggg	catttcatgt	gtttagggat	tgtcttctaa	1080
	attcttccta	attcatatag	ctgctaacac	ttcccgcaga	gctaaacct	tacagatatg	1140
	aaataaagac	ctattgattt	gacttacttt	tacttgtaaa	accttctgag	tgttataacc	1200
30	tcatttaatc	tttcagcatt	tacagtttca	agagtttgtg	tcacaattag	agaattcag	1260
	ctgcacctcc	aagtgcagac	agttgctctg	gttggtgggt	gatctcagga	ggcttgagaa	1320
	ttgctttgtc	tgtgagggaa	gtaagacatt	ttcagagccc	cactttagaa	ggtgtgaact	1380
	ggctagataa	tgaaccccag	ggctaacgct	gctatagcag	tgggaaggag	gtgatgggtt	1440
	ttcagtttgg	acctcaaaca	tcaataccct	cctggtacgg	ggaggaacag	agtcctcct	1500
35	ttacttctcc	attagaaaga	atgagatggc	aagacaatga	aacaggcaaa	gtgaacagag	1560

ES 2 784 246 T3

	atgcaagaca	aaattcaggt	gagagagcca	gagcatcact	cagccattcc	tgacatgtaa	1620
	aacaggcaac	tagaaatttg	cagaaaggaa	gcgaagtctc	cataaagatg	tttttaaagt	1680
	gagcttgaag	tatttgagaga	caattcagtg	ttacataaaa	tctgcaaadc	tctggataaa	1740
	gaagcagaga	tcccagcatg	ggacaaatgg	agcctcaaaa	gtgggaagaa	gacagagaag	1800
5	accagggcag	aatgcatctc	ttcctttctc	ttggctttcc	tggataagga	ctgcatcatt	1860
	cctgtggaag	gacaggccat	cagctccgaa	acactgtatg	tattttccag	tataactgc	1920
	tagctgtgtg	atggtgggaa	aatttgttac	cctgtctaac	ccccacttcc	ctcatctgta	1980
	aaatggaaat	aatgatagta	cctacctatc	tcataggtgg	caactacaag	gggcagcaca	2040
	ctcagggaat	taaggaagtt	tcagtgaaca	tcaactttat	gaacacagtg	ttcataaagg	2100
10	caggtcagtg	cagtggtttg	ggagccagga	gaagcacgtg	ggccggagtg	tgctgcagg	2160
	agacaaggtc	agagatgttg	ctaataatgg	agaataaagg	atgcattctc	attactga	2218
	<210>	19					
	<211>	465					
15	<212>	DNA					
	<213>	Homo sapiens					
	<400>	19					
	aggggtttcc	gcttttgctt	cttctcatt	ttctcttgct	gctgccattt	tcgcctcccg	60
20	ccatgattct	gaggcctccc	cagctatgtg	gaactgtaag	tccagttaaa	cctcgttttc	120
	ttcccagtct	cagggatgatg	gatctctgca	gtaagtggaa	gagttcttca	tggcccccaa	180
	ggttatatcc	atctagaact	tcagcacgta	atttcatctg	gaaatagtgc	ctttgcggat	240
	ataagttagg	taaaactgaa	gatgagatca	tactggatta	ggatgggatc	taaatccaat	300
	gaaaatgtct	tcataaaaaa	caggaaagaa	cccatagaaa	cacaaggaag	aaggtcatgt	360
25	gaagatggag	gcagagattg	gagggatgca	gccaccggcc	caggaatgcc	agcagccacc	420
	cagaagctgg	aaggaaatga	gggattctct	cctagaacct	ttaga		465
	<210>	20					
30	<211>	555					
	<212>	DNA					
	<213>	Homo sapiens					
35	<400>	20					
	aaaagactat	ctcttcccat	tgaattaaat	tggaactttg	gaatcttaat	agaaaaccaa	60
	ctgacttggc	ttggttttca	ggtgctgggt	ccatggctct	tcctgagccg	aaaataagga	120
40	aactccatag	accttgtcca	ctggaactcg	ttcccatcta	ccctccactc	tatccagccc	180



ES 2 784 246 T3

	catgaggaca aggaacatga ttggttttgc tcaactgocgt atcttccgta octagtagct	240
	aacaggacat caataaatat tagttgaatg gaagattaaa tcaacaaaat gggatgatgga	300
	tctctgcagt aagtggaaga gttcttcatg gcccccaagg ttatatccat ctagaacttc	360
	agcacgtaat ttcactctgga aatagtgcct ttgcggatat aagttaggta aaactgaaga	420
5	tgagatcata ctggattagg atgggatcta aatccaatga aaatgtcttc ataaaaaaca	480
	ggaaagaacc catagaaaca caaggaagaa ggtcatgtga agatggaggc agagattgga	540
	gggatgcagc caccg	555
10	<210> 21 <211> 501 <212> DNA	
15	<213> Homo sapiens	
	<400> 21	
	cttgctcatg cttgacttct gccatggttg tgaggcctcc ccagccatgt ggaactgttt	60
20	tcagggtgctg gttccatggc tcttctgag ccgaaaataa ggaaactcca tagaccttgt	120
	ccactggaac tcgttcccat ctaccctcca ctctatccag ccccatgagg acaaggaaca	180
	tgattggttt tgctcaactgc cgtatcttcc gtacctagta cgtaacagga catcaataaa	240
	tattagttga atggaagatt aatcaacaa aatgggtgat ggatctctgc agtaagtgga	300
	agagttcttc atggccccca aggttatatc catctagaac ttcagcacgt aatttcatct	360
25	ggaaatagtg cctttgcgga tataagttag gtaaaactga agatgagatc atactggatt	420
	aggatgggat ctaaatcaa tgaaaatgtc ttcataaaaa acaggaaaga acccatagaa	480
	acacaaggaa gaaggatcatg t	501
30	<210> 22	
	<211> 10817 <212> DNA <213> Homo sapiens	
35	<400> 22	
	ctctttctct ccttctccct tccttctctc ctccctccct ctcttctctc cttttctttc	60
	tttctttctc tttctttctt tctttctttc tttctttctt tctttctttc ttttcttctc	120
	ttctctctct ctctctttct tttctttctt ttgctttctt ttctttttct tttctttttt	180
40	tctttctttc ccctacgtgg caaatccagg gttgggctag ccaagaaaag tagtaactta	240
	gcaggtctac cactgacccc taggagatcc aaatatgtta ttttatatat ctttaagtac	300

ES 2 784 246 T3

	agggatcact	tgcaaaaact	atcctgatat	tattaacttt	tatggagaaa	tcctaacaca	360
	agtctatfff	acaataaggt	gttgtatata	acatgtaatt	tattgactac	tgcagtgaaa	420
	gtgaaaaact	gaatggctgt	gtgaatactc	aaagtatggt	ttctactgag	catgtatcac	480
	tttcacatca	ttgtaaagct	gaaaaatcac	taagttaaac	catcataagc	tggggactgt	540
5	ctgtatattc	tcattgaata	gtttttattgt	attactatff	tataaaaacta	atatatffff	600
	ctccaaataa	gtgactttac	aaagatgaat	tttgcattcc	aaagtatggt	atatgtffta	660
	tttattagca	aaagtatgaa	ctttggagtc	aggtagatff	gaattaaatt	ccaattatac	720
	tagaaaagctc	tatgactttg	gtcagttata	gtaagaattc	ccaatttata	gtaatfftat	780
	aagcataatt	tttggcactt	agaaaatgct	caataaatat	tgattcfttg	tgatatgatg	840
10	ataattaatg	atacctataa	taacaaaggt	gacgatgggt	agagactaca	cttctctctt	900
	ccattttacct	tcagttataa	tgaaaggtaa	tgagtaaata	tgactaagta	gtgaatataf	960
	ataaagtatc	agaaaatfff	ctatfftaata	caatgcatca	aatggtatag	tacatatatt	1020
	ttatctgaaa	taaaagcctg	aagtgaacaa	tttggcccta	accatataat	ttaaaactaat	1080
	cactatfftg	taatffttac	taatfftagat	gttgtagaag	gcaacatatt	tctgagaatt	1140
15	ttttctfftg	atffaagaaa	aatgctaaca	tgagaaaaat	aattcttact	tgatfftaat	1200
	gatttaatta	taatfffftg	ataactfftt	tatctaagat	gtgagcagct	atgffftact	1260
	cttagtfftg	aattctfftg	tagtffctta	tttacaatag	tggctffctt	atattatact	1320
	aatatffata	atcatatact	gcagagattg	ggatggactc	aagtactcca	aatffttacag	1380
	gaatgaagtc	tctcccattt	tggtaaaatg	gctffftgatt	gttattffaaf	acaattcaca	1440
20	cttgctggga	tttagaagtt	ttgaaatcct	catttcagtg	acttctataa	gtffttcaac	1500
	tgatgcccaa	agattagtgt	tcctfftgct	ccattccattt	aaccaagggt	tagaacaggg	1560
	taggccagag	ctgaaggaaa	gacagcgtg	gagatgatgc	tctgaatggt	gcttgctgga	1620
	gccacagata	atctgaggat	gctgcctff	ctgcttcca	ggagctgagc	tagtggaaaa	1680
	aaggaataa	gaatgtaatt	tttcttcaga	tttaaaatgt	ctgataacaa	aagttgatta	1740
25	ccctgtffta	tttggagaga	aatccaggtg	tagagaagat	attatacttc	tctfftgagac	1800
	taagtacctt	taaaatagtt	ttagatatct	ggatffaatt	ccatatgfff	caatffttct	1860
	atatfftatat	gatagataca	tttaaaataa	gcatgctcct	ctatatffcg	ctcaggatff	1920
	tggacagagc	tgataaattc	tttcaactca	ttactcaaca	tacctffatt	aaatgcttac	1980
	ttctgcaggt	atffatactt	aaaatcataa	tttacttcat	aaaatfftaa	atctaactff	2040
30	tggagtcctc	aaattgatat	ggtcttatcc	atffattgggt	aaaatgctgc	attogataca	2100
	acatacaaa	tgatgcctg	tggcagagca	gttacttgcc	attgtctctt	ttffttffgtt	2160

ES 2 784 246 T3

	ttctctccca	gaggaaactt	caggtttggg	ctgtttcatt	cagaaccctt	atgaccaggg	2220
	tgtacatttc	ccagactaca	tgtatgaaac	tcatggccat	ggaatagaac	aaacacagtt	2280
	gctccataaa	gtctttttaa	atacggtggt	ccaaccaact	gagctaaaca	atctcagact	2340
	ttgaaaagaa	tatgttcttt	gcttagaaga	ggagcaaact	caacagattt	aacaaatfff	2400
5	aatatctcac	agatttaaaa	aacaaagaat	ttcaaggtta	accgggaaac	tacaatatff	2460
	ttcttgaggc	tgtttaatct	gagcctgcac	ttcagaagcg	atfffatggt	ttaaatffta	2520
	gggttctgac	ctgttttcct	ttctcaaaac	aaacatgcta	agagtffaaa	atcaaccatg	2580
	atcattgcta	gtaaatatgc	actcagacct	gacctggctg	tgcaaataaa	gtccattctc	2640
	catggtgatc	agaagcagca	atgtctcact	atggaagggtg	gctagctgca	tttacagact	2700
10	gtacaatcta	attcctcctt	ctgtaaagt	tgattaagct	gaaagaggat	cgttggcaaa	2760
	gctaattcaa	tagcaccgtc	tcctctcctg	aaaggctgga	ggatgatctc	actatcacat	2820
	gagtccatta	gctatccctg	cagcaaaact	caccatctgg	ctaactggct	tagactgtgc	2880
	tgattggact	gcaggctfff	ctagcactct	cttgtgatgg	tgagtgtgag	agtaagaagc	2940
	tgggaggggc	agctggacaa	cataagactg	ctgttatctc	ttagggagct	aggtgaaccc	3000
15	taagtgtgc	ctgatagcaa	caggacctgc	ctggcactga	ttgtctatff	cttagcattg	3060
	gtaacagaag	acatggtcat	ttatgatcaa	tatgatggag	ttgacaaatt	aaacaaacaa	3120
	acaagcaaac	tcttccttct	aaccctgcaa	tctttgactt	ttgatcctgt	cattagataa	3180
	ctgatgtagg	aaagtcaactg	aagcatcact	ttaagtagca	gtggatgaag	cattffcaaa	3240
	ataacaaccg	gcctaagtca	aaaatcaaat	cgatgtttgc	tccattattg	ttctcttatg	3300
20	tcagttctga	tggtagtffc	tgtfftagcc	tctcttgcaa	ttatagagtt	agaattgtga	3360
	ctgaataatt	gggaataaga	gggaaaattg	agtattctgc	tgccfftggt	gaatctcact	3420
	ccgggttaat	tgctgctaat	tatgcagctg	cttattgggtg	cattffctatc	cactffctgcg	3480
	tctgaacaca	gaaggaagac	gtagggagga	tccaaagtga	gactccaaca	aaacagctga	3540
	tcataacctg	catgtaaaat	tgagaatffg	ttffctffffg	ctffftatff	acattffff	3600
25	taaaattatg	gttcaataac	agaatataat	cggttatcaa	aagcaatgac	attctgffgt	3660
	cagcatctga	gagffgffg	tatgatcact	gffgggtgga	atgfftaagt	attatffcta	3720
	cagcaataaa	gaaaagtgac	tctaattact	gaagatatga	aataaaagat	atgaaaagca	3780
	agattgagaa	agacffctff	tactggctct	tattagtgff	aaaaaaggcc	acactaacaa	3840
	atcagggact	gaatatcatg	ffgttcagcc	atatagffff	tgaatgccat	gtggtgffta	3900
30	gcttactffg	acaggagcag	tacagffcta	ctcgffffggc	aaaataacaa	atgffcccat	3960
	tattffggat	tatatatffta	ffftatgffat	ffffgcatatc	aagffgcacaa	aaatffagct	4020

# ES 2 784 246 T3

tatggtaaaa aaagtacat taattagtga ctctactgta attgaatcag tggtcattgt

4080 aatgtacctt aaagtcacta tggagtttta agacattaat ttacaacaag aagagaaaag

4140 gactaggaac ataaacatgt ctgcacatag atggggaggg gaggctaaat tgagtgaatc

4200 cctccaatth tttcactttc tcctcactct gaccttactc caacatggcc tcaggctcta

**5** 4260 gatttctacc agatcacatt acagaggcat gtgatgagaa ggaaccactt gagtcttttt

4320 tttttttcca gaaccaagcc aagtaattca gtcattgcaa agtttacgca attgacaata

4380 ttcactcatg tccccctgtt tacaatttta aggtgtgtaa aggccagtca caagcaagga

4440 cggtcagcat tgctttgggtg tagatggaac acacggagac gatggaactg cagggcgctc

4500 acagacagat agttgaccaa gagggaaggg cagtagctaa aactgagtgc ctataaggtc

**10** 4560 aaggaatgtg acataaaaga gatctgtgga tgtggcacia ccagtcaagg ccaatthttg

4620 ggaagatgta aatthtaaat gaggthtcat aggaagattg gcgatctaag tagggaaaaa

4680 tgtthttccta aagcgaataa gcatggcgtg acaactatat gttgtgttat aagthttttc

4740 attcacgaac tthttctthtc tthttctthtt tattcttctg ttatacagaa gttcccaacc

4800 tccaagccat gaactagaac tagtctgtgg cttgtgggga actgggctgc acagcaggca

**15** 4860 gcgagcaggt gaggtagcag agattatggc ctgagctctg cctcctgtca gatcagtggc

4920 agcatgagat tctcatagga gcccaaatcg tattgtgagc tacgcatgcg agggatctag

4980 gttgcgtgct actthttgaga atctaactaa tgctgatga cctgaagtgg aacaatthca

5040 tcttaaaact gccttcccac aactggccca tggaaaaatt atcttccaca aaactggctc

5100 ctgatgcaa aaagattggg gactgctgct gtcataaag gataattatc ctcatthttac

**20** 5160 agaggaggaa attgaaagtc agatgtacag tgactaaaat agctaaaagt gatgaaaatt

5220 agagctgagg tgttggtcct tacagacctt ctacttctgt tgcaccccag ggctctgtcc

5280 tggtaacata caaacagagg cagtgccaac actggagggt ggaaggctca ggccttcatt

5340 ctgaccccaa ggcacccagt accttccata gtgcttgctg tcatccctac tactattgtc

5400 tgctcactac ttctctactg gtcacagaga aagccataaa aagatgthtt catactcatg

**25** 5460 agthccccca tgcaggcact gatagaactt gataagttga thcatgctct gtagthtctc

5520

tcacagcaag cagctcgtct ccctctcagc thtcaocttc aacgcocctgc acagcaagcc 5580

tgtggcagct ctgctcctca gctgtcagac aaaaggggag aacaaagcaa gactgtgatg 5640

caatactcat gttaggtaaa tctthccccca gctagtactt tctgtcctgg gattatthttg 5700

**30** tgaacacaga thtctgttaga gagcaattga tctgaacatc tgggggctca ttagctcctt 5760

ctaattgcta taatgtgggtt ccattctgat thcatgcaag ggggtgcagtc thcatgcaca 5820

ES 2 784 246 T3

aactattgat taattacaca ttttaaggcat ttgagaatat cagctgagtg cattedtgggt 5880  
 ttcttaggat ttctccttta ttttccctgt ctgaactttt ccttgttcct tgcctcccc 5940  
 cttacctctt gccatgccaa tcagtctcta aagcattcac tttataaaca gaaagtcaaa 6000  
 atggtgcttt actatztatc tggtaactca tattggaatt tggaagagtg gctgatgtga 6060  
 5 acaatggctc ataagaacat taatTTTTct tctgtactga atagtctcat tgaaacagat 6120  
 ttggatatga ggatgatgct tacataataa ataccaagc tggttgggtt agcagattgt 6180  
 ttacatgtgg gcacatgtgt gtggcttggt gctgcatggt tgcccattcc accgggagaa 6240  
 gctctgttgt tatgtgtggt atgaaatTtc aaataagggg agaacaacag ctgtaatggg 6300  
 cccaatccaa tgatggcaaa aggtgaataa aattactccc tctgggaagt aaaatgctca 6360  
 10 tttagtggag ggaaattatc atttccaagt agaacatttg gcttctgag agtgaaagtg 6420  
 tcggcacagc ttgataataa cacctcaggc tgtaatagta ccctttcccc tctgagagct 6480  
 aggctTTTTc cctctaaatt tatctctaca acgtctttgc aaagtgagta ggcacagttg 6540  
 ttattggcca tattttatag atagagaaac tgagagtcta aaaaactcag tgatttgtcc 6600  
 ttggaagccc agaaatcaat ctagataagg gtttctcagc cttggtgcca ctgatatttt 6660  
 15 tgaaccgcta attcttggtc gtggtggttg tctgtgcac tgcagaatat tagcagcatc 6720  
 cactagatgc cagtaatgcc cccagttgtg actaccaaag atgtctccag aactgtcag 6780  
 atgtcccttg ggaggcaaaa tcaccacagc ttcagaaaca gtgatctaga ttggtgggcc 6840  
 cggacggtct tgtagccttt aggaaacctg aagcaaaatt tggaaaaata aaaatttgcc 6900  
 cttgacatcc atagtttctc ccatctgtaa taacagtaca tatgtaggat tcattattat 6960  
 20 gaagtcttta cactgtcctc gcattattca tggctttaca tcttgcattt tcagttaccg 7020  
 ttggtcaacc aaagtctgaa aataataaat ggaaaattct agaaataaaa attcataaga 7080  
 tttaaattgc ctgtcatcat gagtagtggt atgaattctc aagtgtcctg cttcatctct 7140  
 cctgggatgt gaattcttcc ttgtccagga tatccacact gtctaggctc cccgtttggt 7200  
 catcacttaa tcattgtggt cgtcatcaga tcaactgtaa tggatttgca gtgctggtgc 7260  
 25 caagtaaccc tgattttact taataatggc cccaaagctc aagatcagtg atgcttacag 7320  
 ttcagatatg ccaaggagaa gctctaaagt gcttcttcta agtgaaaaat tgaaagttct 7380  
 tgatttaata agggaaggaa aacaatcata tattgagatt actaagatct atggtaagaa 7440  
 tgaatcttct ctctatgaaa ttgtgagaaa aaaacaaaag gatgtgtata tagtatctat 7500  
 aaagttcagt actatcctca gtttcaggca tccactgggg ttcttggaac atatccatt 7560  
 30 tggataagga gagactactg aatatacctt aacttcaatt ctattttaat cacatttttc 7620  
 acatagggaa acagaaccac aaaaaggtta gctcacttgt tcaaatttat acagctagga 7680

ES 2 784 246 T3

	atcagggttg	gcttcatgag	cattttgacc	taagcagcta	cacaggatcc	catgtttaga	7740
	aggggtgcat	acttggttta	atgatcctgc	tgtccttata	ttgaaactat	taattatttt	7800
	tgaacaagag	tttcacattt	tcattttggt	ttgagctcca	caaatatgta	gctagtcctg	7860
	ctaggaggca	aaatagccag	gattccagtc	cagggagttt	aaagacaata	tgtttaacct	7920
5	tttaaccata	cagcccctca	ttctttcaca	tgtttgttca	tccatttact	tttcagtaaa	7980
	ttgtgctgtg	agttcattat	aaaccaggca	ctagacttgg	cagtgatgga	acaatagagg	8040
	caaaacagat	gctgtccctt	ctcttatgaa	gctagcagcc	tcaggaagga	tgcaggccaa	8100
	caaacaggta	tttgcaattc	aacatggtat	gtgttatgat	aggaaaggtc	tggttgctat	8160
	gggagcatac	atataggagg	gcacttaaca	cagtatgggg	ggattaggat	ggtgtacaag	8220
10	ctgaggcata	agggctgaat	aagagttaca	taatcaaaac	tggagaatga	gtatgatcta	8280
	agctaaagga	aatagaagta	taaatgctta	gaactgagga	ggagtgtgac	acaattgggg	8340
	aattaanaaat	agcttagtgt	gaatggaata	ttgaattagt	cagctttcac	tgttgtgggt	8400
	cagtaacagc	cccaccgtgt	cagtagatta	ttacaataaaa	ggcccacatc	tcactcttgt	8460
	tgctggtgat	gtgctattgg	gttgtgctgc	ttctcccaa	gtctccattt	caggactaag	8520
15	ccaggaagag	cagttcctaa	atgaaaatgc	cattccttgy	atagaagaaa	aagaaagaag	8580
	tagctgaacc	acacacaata	gctgaagctc	tttggctcat	attccattgg	ttaatcaagc	8640
	atgtggccat	ggatcatcatg	ggtagagcag	ggaagtatcc	tgctctccta	gggggcacta	8700
	caagtcacat	agcaatgggc	agatatgtta	tagttctctt	aaaggagag	cagagactaa	8760
	ctaggaacag	taatatattc	taccaggtaa	gaatgagagg	aggtgagtgg	tatgagaagg	8820
20	tttttgaaa	taattaggaa	ctaggttatg	tgttttatag	aatatattaa	agcctttagg	8880
	tgcaattcat	tactcctttc	cattgtgtac	tcattatttg	gtcctacgcy	tcctactcaa	8940
	aatctgcttt	tggaaaacaa	taataataac	aacagtgaca	agcaaaacaa	aaaccaagaa	9000
	agataatgtc	attacacact	aaagtacaaa	ttatccttta	tacagtactt	atatctttac	9060
	agaaacaaag	gaaataatca	gttgtagagt	ggcagtcact	aatgtactag	tgaaggggtga	9120
25	attttgattc	catctatgga	aaaagatatt	tcttgggggt	ttggaaatca	taccttgctg	9180
	acttttaagt	attgccctac	tattaagacc	aatccataaa	tatttactga	ttgcattcta	9240
	cactttaaga	actgtgattg	ctgaattctc	atcttcaaaa	ttcagtcaag	atgaatgaaa	9300
	ggcagcctga	tagagtgaaa	aaagcatgaa	tctgtcctc	cggcagacct	gcatttgacc	9360
	aaattaatth	agttaatacc	tgtatgaatt	tgggcaagtt	atctaacatc	tttcaccttg	9420
30	gtcttctcat	ttgtaaaatg	ggattataat	accttcgtca	gaaccacaga	tccaacaaga	9480
	acagcaactt	ttattggata	ctgcttaaat	tccaggcaca	ggcacagggc	taagaacttt	9540

ES 2 784 246 T3

	tcattatgac	tcttaaactt	tgtcaaacaa	tgaagtgaag	actataat	tacagaggag	9600
	gtaactggga	attaaggtgt	taagcaactt	gcccaaggtc	agacatttag	caaatcatgg	9660
	aacctgaaag	taagcccagc	cacacaatga	ccgaagttga	actctttatt	actgggtaat	9720
	aagaacagta	atgaaaacaa	gaataataac	aaaccacaca	gtattccaaa	ctctttaaaa	9780
5	tattagatta	tttaattctc	agtgataccc	tttcagaaca	tgcaagtgat	atagaatctc	9840
	aggttcaaca	ctctgtatat	atataacat	atatgcatat	atctattaat	ctatgtatat	9900
	ctctatatta	attaagcatt	ttttctgttc	ttggctgtgt	acaataagtg	aggtaaagta	9960
	ggctgttcaa	tttattatac	attaccatat	tcaatggaaa	atgctaacct	ccaagttaga	10020
	gaaaacttga	tagaaaactt	gttaacattg	tttataagat	gcttaaataa	gctttgagtg	10080
10	aggatgtaag	accctcacac	tcaaatagaa	ggtgaaaact	ataccaaatg	gactttttca	10140
	tgtattttga	attcagaggc	ctctttttac	tccctgtgga	ttctgattat	atgtgagata	10200
	taatcattag	gttcaatgtc	ccataaatat	gtgaattatt	aatataaatt	atgttcccaa	10260
	tatgtttctg	gctttctttt	tgtgtttttc	tttccagggc	ccaagttooc	aaatatgttt	10320
	ccttttgccc	ttttattaga	ttatcatcaa	tagtaggtag	tcattggctt	tatgtctttt	10380
15	cattcccagg	ctcatccaac	aaactgagga	atgtcctata	ttttgcctct	cattgtctga	10440
	gatgatcttt	gtgtggtttc	ttatttatgt	atattttttt	ccctccaaaa	tcatatgaaa	10500
	agaaattgca	agttgaaaac	attacttctg	gaaatgctat	tcaccttca	gcacaaaatt	10560
	tgactgtgat	tttctaaata	aaacaaggct	ttttttaaaa	ttatacttta	agtttttaggg	10620
	tacatgtgca	caatgtgcag	gtttgttaca	tatgtataca	tgtgccatgt	tggtgtgctg	10680
20	caccattaa	ctcgtcattt	agcattaggt	atatctccaa	atgctatccc	tcccccttc	10740
	ccccaccca	caacagtccc	cagagtgtga	tgttcccttt	cctgtgtoca	tgtgttctcg	10800
	ttgttcaatt	cccacct					10817
25	<210>	23					
	<211>	18379					
	<212>	DNA					
	<213>	Homo sapiens					
30	<400>	23					
	aaacatacgt	gtgcatgtgt	ctttatggca	gcatgattta	taatcctttg	gggatatact	60
	cagtaatggg	atggctgggt	caaatgggat	ttctagttct	agatccctga	ggaatcacca	120
	cactgacttc	cacaatggtt	gaactagttt	acagacacac	aaacagtgta	aaagtgtccc	180
	tatgtctcca	catcctctcc	ggcacctggt	gtttcctgac	tttttaataa	togccattct	240
	aactggtgtg	agatggtatc	tcattgtggt	tttgatttgc	atgtctttga	tggccagtga	300
35	tgatgagtat	tttttaaatg	gttttttggc	tgcataaatg	tcttcttttg	agaagtgtct	360

ES 2 784 246 T3

	gttcatatcc	tttgcccact	ttttgatggg	gttgtttggt	tttttcttgt	aaatttgttt	420
	gagttcattg	tagattctgg	atattagccc	tttgtcagat	gagtaggttg	cgaaaagttt	480
	ctcccatttt	gcaggttgcc	tgttcactct	gatggtagtt	tttttgctgt	gcagaagctc	540
	tttagttaa	ttagattcca	tttgtcaatt	ttgtcttttg	ttgccattgc	ttttggtggt	600
5	ttagacatga	agtccttgcc	catgcctatg	acctgaatgg	tattgcctag	gttttcttct	660
	agggttttta	tggttttagg	tctaacatgt	aagtctttaa	tccatctcga	attaattttt	720
	gtaaaagttg	taaggaaggg	atccagtttc	agctttctac	atatggctag	ccagttttcc	780
	cagcaccatt	tatgaaatag	ggaatccttt	ccccattgct	tgtttttctc	aggtttgctg	840
	aagatcagat	agttgtagat	atgcggcatt	atctctgagg	gctctgttct	gttccattgg	900
10	tacataacga	aatgaaggca	gaaataaaga	tgttctttga	aaccaatgag	aacaaagaca	960
	caacatacca	gaatctctgg	gacacattca	aagcagtgtg	tagagggaaa	tttatagcac	1020
	taaatgccca	caagagaaa	caggaaggat	ccaaaattga	cactctaata	tcacaattaa	1080
	aagaactaga	aaagcaagag	caaacacatt	caaaagctag	cagaaggcaa	gaaataacta	1140
	aaatcagagc	agaactgaag	gaaatagaga	cacaaaaaac	ccttcaaaaa	attaatgaat	1200
15	ccaggagctg	gttttttgaa	aagatcaaca	aagttgatag	actgctagca	agactaataa	1260
	agaagaaaag	agaagaatca	aatagatgca	ataaaaaata	ataaaggggc	tatcaccacc	1320
	gatcccacag	aaatacaaac	taccatcaga	gaatactaca	aacacctcta	tgcaaataaa	1380
	ctagaaaatc	tagaagaaat	ggataaattc	cttgacacat	acaccctccc	aagactaaac	1440
	caggaagaag	ttgaatctct	gaatagacca	ataacaggct	ctgaaattgt	ggcaataatc	1500
20	gatagcttac	caaccaaaaa	gagtccagga	ccagatggac	tcacagccga	attctaccag	1560
	aggtacaagg	aggagctggt	accattcctt	ctgaaattat	tccaatcaat	agaaaaagag	1620
	ggaatcctcc	ctaactcatt	ttatgaggcc	agcatcatcc	tgataccaaa	gcctggcaga	1680
	gacaaccaa	aaagagaatt	ttagaccaat	atccttgatg	aacattcatg	caaaaatcct	1740
	caataaaata	ctggcaaatc	aatccagca	gcagatcaaa	aagtttatcc	accatgatca	1800
25	agtggtcttc	atccctgggt	tgcaaggctg	gttcaatata	cacaaatcaa	taattgtaat	1860
	ccagcatata	aacagaacca	aagacaaaaa	ccacatgatt	atctcaatag	atgcagaaaa	1920
	ggcctttgac	aaaattcaac	aacccttcat	gctaaaaact	ctcaataaat	taggtattga	1980
	tgggacgtat	ctcaaaataa	taagagctat	ctgtgacaaa	cccacagcca	atatcact	2040
	gaatgggcaa	aaactggaag	cattcccttt	gaaaactggc	acaagacagg	gatgcctctc	2100
30	ctcaccactc	ctattcaaca	tagtgttgga	agttctggcc	agggaatta	ggcaggagaa	2160
	ggaaataaag	ggtattcaat	taggaaaaga	ggaagtcaaa	ttctccctgt	ttgcagatga	2220



ES 2 784 246 T3

	caagattgta	tatctacaaa	accccgttgt	ctcagcccaa	aatctcctta	agctgataag	2280
	caacttcagc	aaagtctcag	gatacaaaaat	caatgtacaa	aatcacaag	cattcttata	2340
	caccaataac	agacaaacag	agagccaaat	catgagtgaa	ctcccattca	caattgcttc	2400
	aaagagaata	aaatacctag	gaatccaact	tacaagggat	gtgaaggacc	tcttcaagga	2460
5	gaactacaaa	ccactgctca	atgaaataaa	agagcataca	aacaaatgga	agaacattcc	2520
	atgctcatgg	gttagaagaa	tcaatattgt	gaaaatggcc	atactgcca	aggtaattta	2580
	tagattcaat	atcatcccca	tcaagctacc	aatgactttc	ttcacagagt	tggaaaaaac	2640
	tactttaaag	ttcatatgga	accaaaaaag	agcccgcac	tccaagtcaa	tcctaagcca	2700
	aaagaacaaa	gccggaggca	tcacactacc	tgacttcaaa	ctatactaca	aggctacagt	2760
10	aacaaaaaca	gcatgg tact	ggtacaaaaa	cagagatata	gatcaaaaaa	ggctttttgc	2820
	gccttcagca	ccttggttct	tttaagcttc	ctttataata	tcttaagaaa	atctgagtcc	2880
	aggagcagtg	gcttatgctt	gtaatcccag	cactttggga	ggccaaagtg	ggtggatcac	2940
	ctgaggttgg	gagttcaaga	ccagcctgac	caacatggag	aaaccctgtc	tctacgaaaa	3000
	atgcaaaatt	agctgggtgt	ggtggcacat	gccagtaatc	ctagctactt	gggaggctga	3060
15	ggcaagagaa	tcgcttgaac	ctgggaggtg	gagtttgacg	tgagtggata	tcatgccatt	3120
	gcattccagc	ctgggcaaca	agagcaaaaac	tccatctcag	aaaaaaaaaa	aaaaaagaaa	3180
	gaaaatctga	ggttgaataa	ctaacaatth	taatatttag	ttaagaggcc	aatgaagta	3240
	tttgtcttac	cctcaagcag	ccttgctgtc	cttaagaaac	aacattatat	ttccaacgc	3300
	acaacaataa	aatgcaacta	aatggtatth	tttaaatcca	tgtaataaaa	aggattcacc	3360
20	acaactgatt	aggcttaatg	tgcatacaaa	tcacaggaca	gacaatattt	cagttccaaa	3420
	tcttaaaaga	taaaattaat	aatgatataa	cttattttca	ttcaaaaacta	aaatgccttt	3480
	cagatgggcc	aaaagtgttt	catcaccata	tggcagtata	tctcaaagag	tgatttgctc	3540
	attgcctgtg	caaggtccat	ttgagggctg	gaaaatccag	gttctcaggc	tctatcccat	3600
	cttactgaat	cagtgttggg	gatttgggct	ttgtaatttg	cccctttaac	aaactcctta	3660
25	gaggactcct	gtgcatactg	atatttcaga	agcagtctta	tggagaacaa	aataaaagag	3720
	gagataaaaat	atcttaagtt	gtcaacagat	agagatttaa	caactatatg	ctacttgcac	3780
	tgtatcttog	ggtttaatth	agatttagca	actactatgc	cacttgcatg	ttaggattth	3840
	tagtttagtt	tagtggcaag	tgattaataa	ggccaaacaa	cttcatgatc	ttctgttatt	3900
	gacctaattt	cacaatttaa	cacttagaat	tggaatatta	gctactgtgc	aaaattcagc	3960
30	cataaatatt	taaggatatt	tacaacttgg	tttcatgctc	cattaaaata	tatttactat	4020
	ttgttgttta	gaattaaana	ggaaatctga	ggtctaaatg	ttcaatgtth	agattaggct	4080

ES 2 784 246 T3

	agtctagaaa	attcatcaaa	ccaattccat	ggggtagtgg	gtatggtoat	cttacaaaat	4140
	tgaatgtata	ctatgtgtgt	tatgagaggt	tgaatctcaa	agtgtggtct	gtggaccaac	4200
	agcatcgata	ttacctagga	gcttggttaga	aatgcagaat	ctcaggtccc	acttttaatt	4260
	tgctgagtta	gaatctacat	tttaacaaga	tgcccaggtg	atttacatgc	acattaagcc	4320
5	aaagaagcag	tgctctaaga	aactgcttgt	tcctagaaag	tattgcttaa	atataggctc	4380
	agaactgttg	tttacctagg	acttgtggat	ttctcttgtg	gttaaaaaat	ttaaaactac	4440
	agttaagaga	aacgagtggg	ccttgcagca	agctaacaag	gagcccttga	atattaagat	4500
	ggttgatact	taaggactgc	agcaattgct	gtctaaacca	gaaaagtatc	tgagcacaat	4560
	tgacaatggg	tccatagact	cctgggggata	gtcacttgaa	tgattaatta	ttaattttta	4620
10	aaaagaactt	ttttttctgc	tgtgcactat	acaaaagata	atgtatatta	aatataaaag	4680
	aatcataaat	gataaaagca	tttgtatgct	tagaaacttg	gtaaagggga	tagagtaaat	4740
	gtataatgga	atcactgcat	ttatatcaat	aatgagagc	taaaatattt	ttataacttt	4800
	tttgtcagta	caataaagag	gacttttggg	gacagatggg	aatcaatat	tgttttaata	4860
	tataatatat	aatgagaagg	agcaatatga	tctagaatat	ttttgtatca	ccaaaagcaa	4920
15	atatcaccat	taacattcag	atctgagaag	aatcaagtg	tcaaagagtc	cccaaaggaa	4980
	agggagactt	caaattattc	aaagatgaac	tggaaaaatc	agttactttg	tataactggg	5040
	ggtatactaa	atgtgttctg	gtatggaaat	tgtattcaat	ttctaaacat	ctcaggttgc	5100
	atgaactggg	caaggctata	attagtgact	gtgcggccat	ataacctgga	ttagactttg	5160
	atggaaacat	cacttcattg	tgcatttctt	gtgccagaaa	ttcctatatg	aagaatgaca	5220
20	tatgagtttt	gtaagtcagg	ctcataatca	ctaagcccaa	ataacttcat	ggcatctctat	5280
	tctcgaacca	attttaagac	ttaacaagta	gggttggaat	attggctcct	gtggagaatt	5340
	cagtgatata	tatttaagga	tatttataat	atltataatt	tgacttcata	ggtaatttta	5400
	tcttttagtga	atcccttttc	ttaagggtag	actactttaa	cagaagctat	taagatgaga	5460
	aatattttta	aacagtgaaa	agtccctagc	ctggtcatta	atagataaaa	tgtaaattaa	5520
25	aaacaaaagt	aaacacttag	aatccattta	cctaactatc	gtcactcttt	tgggggaagg	5580
	atagaccttg	gaagaacct	tataatgacc	ttacaaagta	actattcatc	aaatagtggg	5640
	ggactatagt	cctacaaata	ctggttcaat	atcttcttag	tcatataggc	atltagcact	5700
	gcactacaat	tattttgaca	ctatagatgc	ttgttcacat	tctgtgattt	gatcacagca	5760
	ggaaggacaa	ctttaaatat	agaagagaga	agaaaaagat	aatctccctc	ctctctctgc	5820
30	tcatttcaca	ccttcttgaa	tgaacaaagt	tagtcttttc	agaatatatg	tttaatgatg	5880
	taataagtaa	tgtgctacca	aatggcaaaa	atagatggac	tagggagagc	atcagtcac	5940

ES 2 784 246 T3

	cctgggagat	gctttagacc	cagaaaaatga	cttcctatga	tctcacctgt	gatgagatga	6000
	gaccttttct	tatctcatga	aataatctct	ctttttcctc	tcttgtattt	tttcttttctg	6060
	tccaatgagg	aaaacaaaaa	caaagaaaaa	aatgaaaaaa	agaaaagaaa	gcaaaaacaac	6120
	acaaaactac	caaaccaaca	actggaaaaac	ccaaagcttg	taaactgttt	acaggaaacc	6180
5	aaatagtatt	tcctgggaca	tgagatgaat	atgagatggc	gttttttatt	gtcacttttg	6240
	gtacagaggc	cgaaggcat	tatctaacag	gcatacaaat	ggaatcaatc	tctccctcaa	6300
	agagcctgtc	agatgcacct	gagccttccc	gggtgtttgc	agagtggttc	atgggtcaaag	6360
	gcaagaatgg	atattggcac	ttcaggggaa	actatatttt	cctgtcaata	gacagaagat	6420
	tgcagtgtcc	tagacaggta	atcagttatc	aaggaccaca	atcagctcac	gtttaaacat	6480
10	taaacagggtg	gggcaggaga	caagcaaaat	ttatcatggt	tactagtttt	gccacaacc	6540
	aaagaactgc	tttattcttt	ttaatcagtt	ctaactctgtg	cttctttata	tctattttga	6600
	aagacattca	ataatttttt	ccccttggca	aacgcttggg	ggattcatag	agtcaaaagt	6660
	ctatatttct	ataagtatat	attttttaaa	atctoccatt	tttctcttgg	ctttggttag	6720
	ctatatgtgt	gtacaaatca	gtccctatga	caccagttt	ctatgccagt	ttgggtgaatg	6780
15	gtgtggggaa	agaaattgaa	aaaggctaaa	gcaaaccctc	tcctaagatt	aaacagtatg	6840
	tggtttgtta	agtttttttt	tttttcctat	tccaccatta	aaagtaaaga	agaatggctt	6900
	ttcttttttt	ttcctgatta	gaaggcttca	ctggatttgt	ggcaaataaa	ttgacaagtg	6960
	agggcactga	tgacaagaga	gtgataattg	atgggtggcag	gtgggggcct	gggtgactgg	7020
	catgtcctgt	ggagggtgag	ccaaggacat	ctatcaatca	aattgggtgac	agcagccagg	7080
20	gagacttaat	tggagattca	ttgaaccttt	aatgttgtga	cagagaaaaa	taaggatgct	7140
	taaaaggctc	ctgggctatt	tcttttcctt	cattccaaca	attctcatag	aaagaatgga	7200
	aagtggacat	tgctccaggg	ttgaacattc	attgtttcca	tcaaagttaa	tcacattttt	7260
	ttttttagga	agcaaagtag	tgaaagtatt	taccattagt	ccaatgtgga	atgaaatcta	7320
	tacctggagc	tttagggatt	cgactgttct	gtgggtgttag	cataatcagg	gatgttttagc	7380
25	aagtgttcag	acaccatgtg	cttaacactg	agtgtcaact	agggtgcaaa	tattgtctgc	7440
	tggagtgtgg	attccaggca	tcataaggaa	aaaagtcctt	ttcctaattt	aataatcttc	7500
	tcttcattct	tctaaaaagt	tctctataca	atccagatgt	aaatattttt	cttttttttg	7560
	tgtgttgttg	ttgccagagg	ttcaacataa	ttttatttct	tatttggaaa	atgaaagaat	7620
	tcagtagagc	tattttccct	ttaggcacag	tacaggaggt	ttttcttaaa	attagtagtg	7680
30	caggaaaaat	cccaacagtt	caagacactg	tatgtggata	taatgtgtga	aaagataagt	7740
	aagatggctc	ctgtcatcca	agattatata	tttttatatt	tatgagttta	tacattttatt	7800

ES 2 784 246 T3

	tattcattct	aaatcataag	tttgggcaact	tactatgcat	agtgatttgt	taggccaaagt	7860
	ctaagatcaa	taggacctcg	ttatctcttg	gaaggaatth	actgtttagt	gaggggaagac	7920
	agatataatgt	actgagacat	taaatattgc	aatgttctag	gtaagaattg	agagttgtga	7980
	tatcacagtc	taggatggta	gaggctgcag	atatcaggcc	acttaagtga	caatctttgt	8040
5	cttttgaaaa	ttgctagaat	actgcttcaa	aaagattgga	aagaaagtaa	agatcctaga	8100
	cttgctatgg	cagagattht	atacttaatg	gcatccccat	ttagccaaat	ttttaagtca	8160
	tagacagcag	agagggatta	cctacctctt	ccaccactth	ctcacagtht	gaaattcagc	8220
	atthtgccat	aactthtttc	tacaaggcac	tgaatacaaa	catttccctt	taattactaa	8280
	atggaggaat	agtaatthta	attagtaatt	thtaaattht	actagtagta	aataaattht	8340
10	agtaactata	actthtagta	atagtaatta	aatagtaatt	thtaacttht	catcataatt	8400
	thtaaaagtht	ccagaatgtc	agcatgttgt	tccaccaggt	cacaatthgc	thttccctgt	8460
	gccaaagccc	cagttcagca	thtattctcc	gtattatgca	cttcaacaag	ggttgactgc	8520
	ttgaaagtcc	tctgtttggc	tgaactgtaa	ataggctaca	gattactcaa	ttgtcttctt	8580
	ctagaatctt	gtgtctctth	ccctgcatat	ttacagatgc	cttgaaaaaa	ctcacagagg	8640
15	caaaaatcac	ggtaatcagg	aaactgtaac	ctggcaaaaa	atctgtagag	cctctcctca	8700
	thtattgagaa	cagctgccac	tagccaagtg	catactatac	thttcaggaa	aaaaaaaagt	8760
	tcattthaaaa	gtaatthgag	gcaggtggta	tcatagaaga	aaataattht	atthatttht	8820
	thattthaa	cagagtctct	cactthcacc	caagctgaag	tgaagtggca	tgatttcagc	8880
	tcactgagac	ctccgcttcc	ccgggttcaa	gcaattctcc	tgctcagcc	tccgaagtag	8940
20	ttgggattac	aggtgcctgc	caccacgcct	ggctaattht	tgtgtthtth	gtagagactg	9000
	ggthttgcca	tgttgccag	gctggtatca	aactcctgac	ctcaggtgat	ccacctgcct	9060
	tgccctccca	aagtgttagg	attataggag	tgagccacca	caccggcca	agaaaagcat	9120
	thtaattaga	atacttgga	gatacattht	gaaaaggaag	attctagatt	aaaatthtgt	9180
	gctatathtc	attgtgctth	thtcattgaa	aatgttgata	taggaagaat	tctgtcatct	9240
25	gtatcccgth	thttcaggct	catcaagtct	tataattaac	thtcttaggt	cctagaaata	9300
	tattattcct	aggttagaat	atthtctgta	gaatacaaat	tattthataaa	ccatcagcat	9360
	gggcaatgag	ccagctcaag	atthtgttag	aaacaaaaac	atgaaagtca	aagttagaat	9420
	gattctthta	aagtatthtg	gtcaaatcat	caatgtggta	atcaaatctc	ctthtagaaca	9480
	thttctccat	gtggtcttcc	attccaagth	tgtacatgtg	cagcaaggca	gactctacct	9540
30	gccatctatc	tctgtgtgat	ttgtattcta	tctthtaatg	actgtctgth	aaatacttht	9600

ES 2 784 246 T3

	tgttaatggt	ggtaagaaat	caatctcttt	gtagcatgta	gtctctggac	tggattcagc	9660
	atgtgtcttt	ggatatttag	attaaccaga	aaaactccac	ttgaaaattc	cccaactggt	9720
	tgaagatagt	tattgtatcc	cttccaaaac	tctaattttt	ttaaaaaat	taaacattct	9780
	tcttcccctt	agccatctta	cccatgttat	ggttttaagt	cccttcatta	tcaaaagtgc	9840
5	tttgcctctgt	gctgatgtaa	ttatgatcca	agtgtctcta	ggcacttctt	agaacatctt	9900
	gtcaagactt	gaacacgaca	ccaggaaagg	tttgaccagg	tttagagcag	ggaaactttt	9960
	tcttcccctt	caagttgcat	ctcttaaatt	ttttttttct	tgctgtattc	aggcctttga	10020
	tggtaatttt	tatgtgtcaa	cttcaactgg	tcacagtgcc	cagatatgtg	gttaaacatt	10080
	gtggacattc	aatgaagatg	tttttagatg	agattaacat	ttagacttaa	cattagattt	10140
10	tgagtaaaat	agattaccct	ctattagtgg	atgggcttca	tctaatacagt	tgaaggcctc	10200
	aatagaacag	acggatttcc	cgagtaagaa	gtaattcagc	aggcagatgt	tcttcagagt	10260
	tgaactgcaa	catcaacttt	ttcctgtctc	caccctgccg	gactaccctg	cagattttgg	10320
	atccaccaag	cctctataat	tgtgtgagcc	aattccttaa	aagaaacatg	gatgtgtata	10380
	atacacacat	acacacacac	aataggatat	gtgtgtgtgt	attatgtatt	ttatatatat	10440
15	atataataca	taatatgtat	gtaatacaca	tacacataca	gatatcctgt	ttgttctggt	10500
	tctctggaga	atcttgatac	aaattcaaaa	tgacggcctg	tatattttgt	catcttgatt	10560
	gtgtcatcta	atatatttct	tttcatcatc	atctttgtgt	catctacaaa	tttgacaaca	10620
	acaagagctg	ggtgtattct	ttttagtcta	agaacaatgg	atcttcttca	ttttaatgat	10680
	tataaaatta	cctttgatgg	aaatggttct	tcatagagaa	gcttctacca	actattgctg	10740
20	attatgctta	gtgaaagatt	gagaacatta	acactgcatc	tcagctcccc	ctggtggaca	10800
	caaccctcac	agacattctt	caatagaatt	gccgagtaga	gtaatagatg	ttattgatag	10860
	agtgtaaagg	cacatggctt	accgtaacct	tccttttaaa	aaggtaactg	gataaccata	10920
	aattatgaca	cccctcttga	gattttaact	atgtgtgaga	ccctgaggct	ctctcctcac	10980
	cataatgact	taaggttgtc	acagtgatga	gtaagttggt	ttatgaatat	tcaaaatatt	11040
25	tagaaaacaa	atcatacaga	cctaataata	aaattatgat	aacagattgt	ctaacctaga	11100
	actataaaac	accatttgct	aacacaatct	ttattaaata	agcagtaata	agacatctta	11160
	cattttattt	ttctaattct	attagaatta	tcttaatgta	atacttgcta	tctaocatta	11220
	agttttttta	attataaaaag	agtatagctt	aaactaaaga	aaaaaatctt	atatatatta	11280
	agaattacaa	ataaaaagcta	tgtattgagg	gcctgttgta	ttatatatac	tccataaggc	11340
30	agtttacata	ggttaatatg	catatatctg	caacaactct	ataagctaaag	ttgttttacc	11400
	ttcattctgt	atctcaagtt	tggcaaaacta	tggctttag	gccaatatag	cccttgtatg	11460

ES 2 784 246 T3

	gaacgtat	tacacccag	gagtttaaaa	tggttttcaa	atTTTTaaat	ggttgggaaa	11520		
	aatcaaaaga	agaataacat	ttaatgacat	gtgaaatcct	ataaaattga	aatttctgta	11580		
	aataaagtct	tattggcaca	tagctatatt	cattcatttc	catattatcc	atggctgctt	11640		
	caatgctata	acgacagaat	tgagtagtta	cagcagagac	actgtgctat	ggaaagtcca	11700		
5	aaatatttat	tgtactatct	ggccccttac	agaaatcatt	tactgattct	gctgtatctg	11760		
	atgaaagtaa	ggcttcacat	ttttaagtga	tttcttcaag	agacctgagg	ataatcaaag	11820		
	taataat	tttgttatta	gtttcttttc	tatcccaagt	aattgtgtag	tgaattctgt	11880		
	actaaatatt	aatatatgca	tttagagaaa	caaatttgaa	acaggataaa	aagtgttttt	11940		
	aaacaaat	aagtcaatat	ttacaagggt	tttttgtgtg	tgtacacaag	aagtatatat	12000		
10	tggtagaaag	acaagtgact	ggagtgtaca	aataaaatgg	agatggaatg	gacagttata	12060		
	aactcttaaa	attcataacc	aggcactaag	atttcatggt	tgttctatac	agtaggtaag	12120		
	ctttttgtcc	catcctggat	ttatgttttt	ccatttctaa	gcatcagtga	tatggttcca	12180		
	taatgtggta	ttgacaatga	cgtttaagag	gaaacataga	gatgcataga	catgaatggc	12240		
	tcctgtg	atgaagtgg	atctggaatt	aaataggaag	atgcatgtga	tatgcttggc	12300		
15	agaaacccta	gtaaaatg	aataaacaat	aatcatcatg	atagttgtta	gaaagttatg	12360		
	gttggcatat	ctataattta	ttggagatat	ccctggaatc	tggacactgg	ggcagtcttt	12420		
	cagatcttcg	atatgtctta	tagcatgggt	tctagtgtca	gatgatgagg	attcaagatg	12480		
	at	ttaaagac	aggagtaatt	at	tttactgg	aaaatactgg	ttaaatagat	ttttccctt	12540
	tagaaaagg	ct	actgaacaac	tagaaggtg	acataa	atat	gttgtttcct	tttacattg	12600
20	ctctctggag	ccaggaagg	tt	aaagaa	gatacttctt	tcctcttagt	cgggattcat	12660	
	acagaaatca	agagtgggaa	ggggccctca	ttacatcaga	cacagttact	tt	aaaggatga	12720	
	ggaatctgag	accagataa	ataaaataat	ctgcttaaag	ctgaccaga	gttagtacgg	12780		
	ggctctggac	gatttcatta	tgtcatgata	ccattctctt	ccaaattcta	agattggaaa	12840		
	at	ttacctca	tatgaagagt	gaatttaatt	tatctttatt	ctagtttccc	ttcaaaggca	12900	
25	tgtcttaata	tacatggata	agtcatttca	aaacctctaa	gcctaaggta	at	ttgcactg	12960	
	caaattat	ttt	cacaccataa	tatctatctc	agagcttttc	ctgagatgta	aagtccttga	13020	
	tgataaaacc	gactccgtag	taatagtaga	ggacttattt	gtattgagaa	tgcagacttg	13080		
	agtgcaaagg	ggccagacaa	gtaaagactg	tatgtaaatt	agtaaaggag	taggagatga	13140		
	aagacaatag	ggagtagagg	agaatgtgct	caactagaaa	agaaagagct	aaaat	atgga	13200	
30	cagctgttac	tcagcccat	ctgatgg	tt	catgcatgc	atgattttga	at	ttgctaaa	13260

ES 2 784 246 T3

	tccctctcaat	tcaaagaagc	tgaaaaatcta	gactttttaa	tgtggagacg	ttctgatttc	13320
	cttattactg	catgggtcaa	acaaaacaca	tctgcatctc	tactaaaaat	aagaataaaa	13380
	aaagaaatta	gctgggcttg	gtgcggggcg	cctgtaatcc	cagctacttg	ggaggctgag	13440
	gcaggagaat	cccttgaatc	ctggaggcaa	ggctcagtg	agccgagatc	gcactactgc	13500
5	actccagcct	gggcgacaga	gacgaaaaaa	aaaaaatctg	tggactggtt	tagaccttta	13560
	ggaagcatca	tcagcaatga	aaaatcatga	tgttttcatt	aaaaataaga	gttttacatg	13620
	caatttggg	tgtagggttt	acagttaaat	attttatgat	tctttttcct	ctttttttaa	13680
	tcccaggagc	aagagcatgc	catgaatcta	gcctgtagat	tcagcgtggc	tttctggctc	13740
	aaacttagac	tgcatcaaac	agctttgctt	ttgttttctg	cttgaaaaaa	ctgacacttg	13800
10	ttatggttac	actcactgtg	tgagccatcc	cctgttgact	tctggacaat	cactataaat	13860
	ctctattatt	tcgctgttat	tgtcttggtt	tactagcact	gttgaggcat	cttctcaagg	13920
	gaagtgagcc	caggtgtgca	catacagaac	aagaaatact	ctcccttaaa	cacataaata	13980
	gctattttat	ttggcacaac	acacacaaat	gtagttag	ccaaaggaat	cttgaacagt	14040
	tatttgcatt	gcaaatactt	caaaaaactg	gagcaaaggt	atcagagctc	aatctgctag	14100
15	ccatttgagt	ttcattagtt	cagagaacaa	tccatctttt	atttttttcc	agtaataaga	14160
	attgaaatga	aattcagtg	cttacaatca	ggctccaagg	cataagaatt	tctcataaaa	14220
	aagaatata	tctgtttcc	ccatgaaatt	cagttatata	aacctctttt	tatgggtact	14280
	ctttctttat	ggccctgttc	agagaaaatg	tgagggtta	agctctcttg	tgctacacat	14340
	tcattgtttt	gatatacaat	ccgatggaag	actgcaacag	tgctttctga	gatatctggg	14400
20	catgaagggt	tgaagattcc	caaggcaaaa	agttatgtca	atctccttag	tcgcacatgt	14460
	gattaagggg	tacctttgg	tctggactt	gccaattcat	gacgtggcaa	aaaattacat	14520
	aaagaacaat	tggcagatag	gaggttgtgt	tttagaggcc	tgagtagaat	tggggaaggt	14580
	ttaataaaa	ctggaagctc	agtttcatat	aattcacaaa	aagctaaatc	tatatattata	14640
	agagttaagt	aagaaagaaa	gagatttggg	gggcaattaa	ttttctatgt	aagtatgtat	14700
25	ttatttggtt	gatgggatcc	ttggtgaatt	tctaattttt	attattttat	aaatttagta	14760
	aaacatgaaa	aaggaagcaa	aacttaccta	tatgcataaa	gctttgggga	aaaagctata	14820
	acagactgaa	acaatcactc	tccactttac	agtactatct	tcagactcat	atgaatatga	14880
	ataaaaatata	tgaacataaa	aatattttta	ttttatgaaa	aatgagatca	tactgtttat	14940
	tcctgtttta	aatttaaaaa	tacatattta	ataacattta	aaaaataaag	taagaaattg	15000
30	tgaccaggc	ggtttcttga	catatactga	tgtgcatcct	ccccaaccc	caagttaaaa	15060
	gaaatgataa	aagtcagtaa	tcctctaatt	acgaatcctc	tgattttgta	taagcttcca	15120

ES 2 784 246 T3

	ggacaaagaa	actttgtgcc	cttttccata	aggaacaaaag	agggccctgt	gggaacattc	15180
	tgcattcacg	taggtttgga	gaggagaacg	gaaagctaca	gaagcagaca	cattagcaag	15240
	catattggta	ggatgattgt	agttgtgaga	attctgaaac	aaatgtaaaa	aggggtgatgt	15300
	tatgaagact	gaagggaggc	tattgttaga	ttgcttggaa	aggaaaggcc	cggtgaaaaa	15360
5	aggtacactc	atgctgacac	ctgattgaca	agaagaagcc	agacacgagg	attgcagatc	15420
	cttctatgca	aagggtaaag	gaaatgcaaa	tcctgatatg	aagtaaatac	cctagatatg	15480
	tattagtaaa	tagcatccaa	aggtatatta	ttagaatcat	tgtatgcaga	gttattccag	15540
	caatgcaaag	atttcattcg	gaaaagtttt	aatgtaatta	attacaatca	taattacata	15600
	aaaacctcca	gcaggaaaac	aatttgatga	taaacaaaag	agtgactact	taaatgacag	15660
10	gtgactttta	ataactgcag	tggaagtcag	gtgatagtag	aatgatatag	ccaaaatatg	15720
	aaagaaaata	tctattaacc	tataattcta	tactgagcaa	aattttattt	ttcagaaaca	15780
	gaaagaaatg	cttttttggg	gtaaacaaga	actgagattt	tactgacaat	agaatttaac	15840
	taaaggaatg	tctaaaactt	ctcctttaag	agagaaaag	atcatagtgg	aaaagtcaga	15900
	agtagtacca	tatgaagaac	ttatggtaag	caaaacaatg	gcaagcctgt	gggaaaaatc	15960
15	taaaccatca	ctgactgtaa	aacagtaact	atcttgtcta	attgggaaag	gaaaaaaaaa	16020
	acttaagata	gaaataaaaat	gtgaaaggat	gcctgtaatc	ccagcacttt	gggaggccga	16080
	ggtgggcgga	tcgcctgagg	tcaggagttc	gagaccagcc	tgaccaacat	ggagaaacc	16140
	cgctctact	gaaaataaaa	aattagacgg	cttgggtggca	cacgcctgta	atcccagcta	16200
	ctcgagagga	tgaggcagga	gaatcacttg	aaccatgag	acggagggtg	tagtgagccc	16260
20	aggtcgcacc	actacactcc	aacctgggtg	acagagtgag	attctgtctc	aaaaaagaaa	16320
	aaaaaaagtg	aaaagaaaat	aaaatctcga	gaccccaaac	tcactatgcc	aaagggaaaa	16380
	cttaagcttg	gaagctgaga	cacacacaca	cacgtgcaca	cacaccccaa	aaaaccaaac	16440
	tcaacccaaa	ccaacccaaa	acacaagaaa	acaacccaaa	aactgacttc	ctcttgtttc	16500
	caaacagctg	taatttcaca	gctcacttta	tcttatgtaa	aatgtagatt	tactgagtgc	16560
25	tagaggaatg	cataattgac	cctccctttt	tgcatgtaaa	atgtggactc	agtgagcact	16620
	aatcaaagcc	tcacaagagt	gtaaccactt	gcctcgttgc	ctaacctcct	cttttatttt	16680
	tctttcctoc	tctccctcct	gcttgcttgg	tccccttcaa	atattgatgt	cctcaaaact	16740
	gtctttggaa	agaagcatag	gccatggatt	ctattataac	ttgtgattct	gtttcttaga	16800
	cacatcctta	actttggcaa	aataaacctc	tattccattg	agatgtgtct	cagacacttt	16860
30	gtggtttata	aaaatcttcc	ccaataatat	tatataagtg	aggaaggagt	gtgattattg	16920
	gaattaacca	ttgtaaggtc	attgtatttt	tcagagggaa	aataaagata	ttcagcttag	16980



ES 2 784 246 T3

	aactgatgag	gttaaataag	catgctaaaa	tttctggaaa	aacaatgaaa	tgaaaaaagt	17040
	tagacgaggt	acttaaaaaat	gagtagaggg	aaaacatcaa	atgggggattg	gggagaccac	17100
	gtcaattcaa	aagaagaaaa	aaagagaaaa	aataagcaca	ctaggaaaga	gggggaggac	17160
	aaataagtaa	tacaaagatg	gtagaaatga	gtccaaatth	ctaatcaaga	tgaatagagt	17220
5	aaaccattta	cttaaagaca	gaggatcaaa	ttgaattaaa	aagcaaaata	caattatatt	17280
	tgtcttatag	aacttaactg	taaaaaataa	tactttgaaa	atataatcaga	gcattttttt	17340
	ggaaccctga	gatgcctcct	gaagccacga	ggagttaatg	gcaacccttt	gtcttacaag	17400
	gccttacgta	atttaattct	tcaactttga	atthcttgct	cactctgctc	aaccacatta	17460
	acctctttgc	tgthcttgga	gctcatcaga	cacatgccag	cctaaacgth	tgthcttagth	17520
10	tttccctctg	cttggaaat	cctaaacca	ggtatctact	tagctaactc	tctcatctth	17580
	ggttccctac	tcaaattthta	cattctcagt	gaggcccacc	tagaccacct	tacttattcc	17640
	tgcaacttgc	tcactthctc	tcactthcta	ctthctthct	thgctctggt	aattattggc	17700
	acttatcaac	thctaacctg	ccatathcatt	thactththaa	aactgattgt	thattgththg	17760
	thththctccc	thagaatata	aactcaagga	ggaaaggaat	ctththctat	cttattcaca	17820
15	gattctggaa	tagtgcctgg	cacatagtag	gcacttgata	aatattcact	gaaggaataa	17880
	atgagtgcta	ththctacccc	thattthacag	cacaacatct	ggcaacattth	thattaagtaa	17940
	aataaccaat	aagthaaaaag	caaatataaa	atthtgattthc	thgtattththct	ctthctgtattc	18000
	thggaaaatgc	ththggagatg	agggtagtag	gaagaaatgg	gaaaaaggca	gaggggagatg	18060
	agcctcctcc	ctththcactg	gatgagatgg	ththgaactgca	ggtccctthga	thgtththccaca	18120
20	ctagcagaga	atthctctcat	thctctthctc	agggatgatc	ctthgaagcag	gatctacaat	18180
	agacagcatc	aaaaatcaaca	ggcatatgat	aactgacagt	ththggaaaact	atgacctaat	18240
	thgatgataca	agacctatta	gththgtgggg	cctaaagagga	aattthcaaca	ggaaagatta	18300
	gtctthgcagc	ctgactthgtg	gatgcagcag	ththgcctcatg	ctatggattg	cattgtatca	18360
	acctctaccc	ctcaaattg					18379
25	<210>	24					
	<211>	3454					
	<212>	DNA					
	<213>	Homo sapiens					
30	<400>	24					
	agtatgtgca	ththgtacctth	gctththgthth	cctcaactth	thgctthgthth	ctgthaatthc	60
	ctcattcatt	cctacctctg	catgctthgaa	agththctththgt	ggataaggac	ththggthccgaa	120
	thtatattthc	ththcccattc	catgcacgtg	thctctctctc	aggaaatagth	gcaaatgagc	180
35	aactattgca	ccaagthtagc	cattctctaa	acataggtac	thacctatgca	ctththacaatt	240

ES 2 784 246 T3

	cttgcttcta	atatttttct	gggttgcattg	gaccttacia	aaaggagtag	cctttttgaa	300
	aagattgggt	tgaaaaaaaa	caatttcaag	catcgtttga	aaaggctgag	ggaccaaaaa	360
	gccagcacag	ctcaagtcac	tttaaacatg	caatgattct	cactctgaat	actcagagtg	420
	gagactcaaa	gtgtggctct	ttgcaagtta	atgtcactct	ggccattcct	tacactttga	480
5	tcattcaaac	agaagtcaca	tgtggtttctg	tctcagctct	aagaaggcca	aacatgaatt	540
	tctcaagcct	gtccaaacaa	tctctcagaa	aaaaagatag	aggttggatc	atgtgttcat	600
	acagtttgat	tagctaacac	acattttata	gtacttgaag	ggttggtgaa	aaggagttcc	660
	tgtcttatca	ctagaagggtg	aattcttgaa	cctgtaaaat	aaactagtta	gtttgcatgt	720
	ctttatattc	cttccatgca	tttagatata	cctattttcca	gacaggtttt	cagaatgcat	780
10	ttgggaagcc	tgtgattaaa	ggatattttc	tggtatggta	tgaaggctga	gtctcttgac	840
	aataactttc	agaaaaagaa	taaaatctat	tttacctcag	ctgaatgtct	ctaattgggt	900
	cttgaagacc	aaacagttcc	cttcaatgca	gctggggctt	tgggtagccc	caaaccaatt	960
	aactcaaatt	atataatttt	cttcccatcc	ctacccocaa	agcttgactt	gcttatttag	1020
	taaagaggag	gattagcgca	agcactaagg	agctgttctc	tggctgcttg	gcacaatatg	1080
15	tgaacttact	tctgggccag	ccagaagcat	cctggctggg	aagaaaggaa	aaggggaagc	1140
	tgaagtgaag	ccgtctcctt	ggtgtgactc	tcctctttct	tgggatacaa	tggaactcag	1200
	cagaaatata	ttactggatt	accaggcagc	agaaagcatg	ctggccttta	aatgggaaca	1260
	agcaatcttt	agccctccta	aacctctaaa	aatgtgcagg	agctaattaa	ggcaacaaca	1320
	tcatgagggtg	atcagagaag	agcagagaaa	tgtgaacggg	tagggggaat	ctgaacaggt	1380
20	gtgtatgtgc	ggtgtgtcta	aaggagcaaa	aagctttact	atgaatagat	ttcatctttc	1440
	ttctgtttcc	aatgatattg	ttaagcctgg	ggtgagcatt	gaacaaataa	caaatttatg	1500
	taacaattcc	aatgtatat	tttccaaatt	aaaaaaaaagc	aataatttta	aaaggcagaa	1560
	tgacaccctg	cattgcaact	gtatcagaaa	tatgcttagt	aacctttatt	acaaggcagc	1620
	ttaatttttt	ttctatttta	tatagagtac	tgtcttttgt	gatccttgta	acaagatact	1680
25	aaatacctga	tttgataaatt	gtgacatata	ggtgaattta	aaatagttta	gttctaataa	1740
	gaaagaataa	ttaatgatac	cttcaggtgg	gcagggtttt	tcaggggagc	attttttcat	1800
	atztatggga	cagtgaatc	tcagcttcta	agtgctgacc	ttttatgtgc	caacaagaga	1860
	aagcaaatag	tagacatgcc	tcaatgtctc	ccttcttttc	taagcttata	aaatatggta	1920
	cttaacttgc	cgtggatatt	tctcacacat	tcctttctga	ggggaccctg	ccctggatac	1980
30	cagtagaatg	gttttataca	acaggcttcc	ctgatgttct	aggtcctggg	agttatcttc	2040
	taagcttgag	ttttttgctc	atatgtctgt	caaaaaggaa	aatccagtga	aattaaagtt	2100

ES 2 784 246 T3

	cgtcaggaag ctacaagtct gttttcttac agctccocatg ggcaaagtag cattatatct	2160
	tctgttgatg tcaccatctc tctgggagat tctagaaatt tgttcattgg tttccttcag	2220
	aatctactga ctaccaatgt aaactcacag ctggagagcc acatcccttg tccttttggg	2280
	ccatggtacc tatgaccaag gcttaggcct tttctgttga gtctctgtct ttggggaggg	2340
5	ggataagttc ttaaattcag ggccagagtt ccaggaaagg tattcaagta agacacagag	2400
	caaggctacc aattaaata aagacaatag actttcaagt tcaaattctg agaagaatat	2460
	taaaaattat ttagtctaca ctgtgatttt aaagagagaa ccatggtagc ccaggaggg	2520
	ggttgacttg ttcaaggtca catggtggct tagtggtact gcctgaccag aacttggttc	2580
	tcctgatgca attgaagagc aatctctggc tgtcaatgct gatcacatct caatcataga	2640
10	aacatctcct ttatctctct gactttatag attgctaag gcaggagAAC actatgactt	2700
	acaagttgag ctttcacctt gctggccctg gctgggcaga cttggcatct gtggttgagg	2760
	ctttaaggtg gaaaaacagg gcattaccag tgcttctttt cattgaatgt acatttgaga	2820
	gatgcattaa ttaacgtaaa attgctacct ctagctctga gccttagctg gcgctccact	2880
	ttgtactggt caccaaaatc aaagcaccgc tatggtttat tttttagata tcttgaaaag	2940
15	gataatgttt gaccattcct ctccttggtt ttacctccat gtgctgtgtg taatgatcca	3000
	gagagaatca attggacact gcattttaaa gataaggatt gggattttac ttctgggtaa	3060
	cctggtgacc ccaatcaatc tctgtcttac gaactctctg aagatttgat gctccagtcc	3120
	gcaattaagt cccagcttcc aagaatggca acagatggtg caatccaaac acctttatta	3180
	actatttatc ttcaaatata tatcaacgat ctcttgGCCa acagaaagag tggcctgccc	3240
20	cttaaagtga aatcacact ctttcatctt caagctatct tactttatag tccttttgag	3300
	aagataaaaa gagatctatt aagaaagtag ctgacaatat ataattgctt tcaaaatttg	3360
	ccttttctaa aagtagtttt tatctataca ttgaaaatat tgctattaag ttgtatacct	3420
	caactataca aaacatcaa tggatattag ggta	3454
25	<210> 25	
	<211> 27712	
	<212>	
30	DNA	
	<213> Homo sapiens	
	<400> 25	
35	accaaaggac atgcgaaaac ttttggtgt gatggatata gtcataatct ttattgtggt	60
	gactgtttca cacatgtgta catatatcac aactcatcaa actgtatact ttaattgcgt	120
	acagtttatt atatgtcagt tatactcaa taaggctgga aacaaaaagt gctctgggca	180

# ES 2 784 246 T3

	aagagtctgg	tgacttaagt	tctgctttta	ttctgggccc	aagttacat	gtcaccttgg	240
	ccaagtgacc	caaccetaag	aggctcgggt	ttttcacctg	tgccctggga	ggtttggggt	300
	agatcgttga	gtggtaagag	caaatgctct	caggggccag	gaaggaaata	caaatgaatg	360
	acataagcca	ggttcaccgc	ggagaggggt	agagacaggt	agagactgtg	gctacctgga	420
5	gagtgttgcc	tctgcccag	ggggcagctg	ccaatcagct	ttggccattt	gctgcttaat	480
	ggaatgtggg	cggtgatgct	cacgcttcag	agtctttaag	agaaaccaca	gctccggatt	540
	cctcaaatga	aatcttccc	ttatcaaatg	tagataatta	acttcaaaaa	gttaaacac	600
	tgtgcaggcc	aaggccacac	atgtgcagac	gagaccagc	ctgagcccca	cttgtttgtg	660
	gcctctgcac	tctgtgatgc	gtggggatgc	tcttaccgga	ccaagaatct	cttctctact	720
10	tttagccaaa	gttgcttccc	taattctttt	tacctatact	tcactaagaa	aaaatgtcca	780
	tcaatgccca	tttgcaacct	gcctgctttc	catctacat	tcgatctata	gagtgtctta	840
	actcttggtg	gacttgaatt	cttatttctt	cagtttgtgg	aggagacatt	ctgggcaatc	900
	ttgccgagtt	aaaagaggct	agtacctacc	aaaaagagtc	gaaagcaagg	actccatcag	960
	atatttgat	accagtgttc	aaagtggcat	tattcacaac	cacaaaagg	tagaaacaac	1020
15	ccaatgact	attgacagat	aaatggataa	acaaatgtgg	tacagtacaa	tggaatagga	1080
	ttcagacata	aaaaggaatt	aaattccgcc	acatgttcta	ccaggaggga	accttgacaa	1140
	cattatgtta	agtgacataa	gcgagacaca	aaagggaaac	tattgtgtgc	ttccactagg	1200
	tatccacgag	agacctagaa	tcgtccaagt	cacagagaca	gaaagtcaaa	ttcatggaga	1260
	ccaagggag	gaggcatgag	tttctggg	gcagagtttc	agtctgggaa	gatgaaagaa	1320
20	ttctggagac	ggatggtggt	gatggttgta	caacaatgtg	aatgtacttc	atgccactga	1380
	actctatact	tcaaatggct	aaatcggtat	atatttatat	atatttatat	acatatatat	1440
	aatacatata	tatttatatat	gtatcccaga	acttaaaatt	atatatatat	tatatataca	1500
	ttatatatta	tacattatat	attatatatt	atataatata	tattatacat	tatatattat	1560
	ataatatatt	atacattata	tataatatat	ataatgtata	atatattata	taatatatat	1620
25	aatatattat	ataatatata	ttatatatta	tatttatatat	tatatatatt	atataatata	1680
	tataatatat	tatatattat	acaatatatt	atatattata	taatatacac	tatattgtat	1740
	aatataaat	ataatatatt	atataatag	tatttatatat	aatatataat	acatattata	1800
	tataataata	tataataat	acaatatata	ttatatatta	tataatataa	aatatatatt	1860
	gtatattata	taatataatt	atatattata	tatataattt	taagttctgg	gatacatgtg	1920
30	cagaacgtgc	agttttgtca	cacaggtata	cgtgtgccat	gatggtttgc	cacacctatc	1980
	aacctatcat	ctaggcttta	agccctcctg	cattacgtat	ttgttcta	gctctccctc	2040

ES 2 784 246 T3

	cccttgcccc	catccccga	caggccccag	tgtgtattgt	tccoctccct	gtgtccatgt	2100
	gttctcattg	ttcaactcta	aagtggta	ttttatccat	tatttttttt	tgtataaaaa	2160
	ggcaggacac	gtctggaatt	ttcagatccg	atgatgtaat	ataagaggct	ttcttttcag	2220
	cacactgtgc	taaggagcca	cggtggagc	tcccattggc	acgggtgtctc	tgcaactccc	2280
5	tcctcaggct	cctcacacac	ccggggaccc	cctgtgagtc	cctaagctgc	tcttaggctt	2340
	caccattttt	gcaaagtggg	tcttggtccc	agctacactt	tgagagcttt	tgaatagtac	2400
	agatacctgg	gccccaccct	tggagaatct	gaatcaattg	gtgtggtggt	ggaatccggt	2460
	ctccacattg	actcagagcc	tcccgggtta	ttctaattgtg	caggcagagt	tgagaaccac	2520
	tgaattctgt	tctgaaaaca	tcagcaagac	ctttcatgga	tattataggt	aagtaaatca	2580
10	aaaccgcagc	agacggtgct	gaacagatcc	atggggtgag	ctgttctggg	gaggcggggt	2640
	tatccccgga	agggttctgc	aggagtgggt	gggcctggaa	gtgggaatat	ctgtaccccc	2700
	attaagaggt	aagaaatgag	caagccatag	ttaaggagcg	tgtttggttg	gagggaggag	2760
	aaacaggggt	aggattaagt	aataaaacgt	gagacaagaa	ggcctgcaat	tcccagggtga	2820
	agcgcttgga	gtctttctat	tcctgggagc	aaatctaaca	catgggaaat	atttgcttct	2880
15	gcagagaact	tcttagattt	cacttctaag	tgaaatcagg	taagtcagtg	gtaagaaaaa	2940
	tcataataca	agatttctta	aataagaatc	tacttaacct	gctgcaattc	tctgtcaaaa	3000
	tatcctatgc	cccagtctca	aggtaggatt	tcattcagaa	ccgtatctat	ccccacaaaa	3060
	ccacttgaat	gaagttaggt	ttatttaatt	tggtgacttg	accgagtcag	cttggtgagg	3120
	gattggggat	gaaaatctaa	agggaaaata	ctggactcgt	gtaaatttag	actccttggc	3180
20	tctgtcattc	taaatgtttt	atgcaacaaa	gttggagaat	caatccattg	ctccaactgg	3240
	ttccttttcc	taaacagcat	cttctccaaa	tcttgtcata	gaagtgggtg	tagtgaaatg	3300
	actgtcatgt	gcaagcaaat	catgaaaacc	tatcagagca	taatttttaa	aaatcaagaa	3360
	tgagaaaggt	gctctggag	gaacaaaagt	ctttatttca	tggaaacaat	tatgtgatgc	3420
	tcagaagttg	atcaaggctc	tgaaagtcac	agtgcattgg	attatccatc	ttacttacct	3480
25	gtaagtcacg	tctctgtcaa	tcttacctgc	tcacgggagt	tggaaactga	aaatcataac	3540
	aatatcaata	acactagcca	acttatattg	agggcttgct	atggtgcagg	cgctcttgtg	3600
	cactttgcat	gtatcaagat	ccttaatcct	cacaacaaca	gcatgtgaca	ggtactattt	3660
	ttgccatctc	tagtctaagg	atgaggaacc	tgagatgtag	agaataat	cgataattta	3720
	cccaaggtca	catggccagt	aagtggcaga	ctggattcaa	atccagctgt	caagttat	3780
30	taggtcagag	cctgggctcg	tcatgtacca	ctattacctt	ggaagaagga	agaaaaggta	3840
	gaaacaaaca	cttagtaagt	gtttattaag	tgccagctat	tttatacatt	atgggtgctg	3900

ES 2 784 246 T3

	tgaacccta	ccacatatcc	ttagcctcat	gttacagcca	ctaggaaatg	tggacagaga	3960
	gtttaatgac	tagctagcaa	aaggcagcct	ttatattgtct	gaccatacac	ctgtgcattc	4020
	ttcactaaat	aatgaaatth	cagagtagca	ttcatgcaag	aaagcatgct	tagggaagaa	4080
	agtctcttgc	ttagagtttc	atcctttact	tagtgcagtt	ttaaccagtt	tgcctatctg	4140
5	ctttcctttt	caaagccagg	aagtgtatgt	ggggtgggag	caagagggaa	ggtgggtgaa	4200
	ttgctggaga	aataagttha	atagagaaaa	taaatgtcca	agagatgagg	attattaaac	4260
	aagcagtatc	ctagctatcc	atccttgact	tctttgagtg	gaagtthtgg	ttaaaagcta	4320
	tatgctttct	ttaaaggaat	caaagaaaga	ggttgatga	gtttgttagc	agcaatgaat	4380
	ctatacaggt	ctgtagcaac	ctcaattctt	gattcctcag	aagaaagaat	ttgaccgggg	4440
10	gacataaggc	aaagtgagac	caaggcaagt	tttatagcag	gagtgggaag	ttactaaaaa	4500
	gttttagagc	agggatagaa	ggaagtaaag	tacagttgga	agagggccaa	gtgggtgact	4560
	tgagagattc	aaatgtgctg	tttgactttt	gacttagggg	tgtatagttt	ggcctgcttc	4620
	cagtggggtg	tgtctgttct	cccctgattt	ttctcttggg	gcgactgtc	tgcattgtca	4680
	gtgggcctgc	cagcacttgg	gaggggccc	gtgtgcgggt	tttactgagg	tcgagtgcatt	4740
15	gctccttga	ggcatttttc	ccttaccagt	ctagggttcc	tagatgaagg	tcacatacca	4800
	gttaaataaa	gtccatcggt	ttacctctca	atgcacatgc	ttgagccac	tcgcccact	4860
	cctgagatct	tatcgggaag	ctgctgcta	ccaggttcgg	gtgttttctt	ttcttttctt	4920
	ttctttgttt	ttttttttg	agatggagtc	tactctatt	gcccaggctg	gagtgcagtg	4980
	gcgtgatctt	ggctcactgc	aagctccacc	tcccagattt	gcccattct	cttaoctcag	5040
20	cctcctgagt	agctgggact	acaggtgcc	accaccacgc	ctggctaatt	ttttgtatt	5100
	tttagtagag	acgggtttc	accatgttgg	ccaggatgg	cttgatctcc	tgacctcgtg	5160
	atctgcccgc	ctgggcctcc	caaagtgtg	ggattacagg	cgtgagccac	cgtgcccggc	5220
	caggtgtttt	ctatctattg	ggagactgcc	ttccctggg	gctgggtgcg	atcagttatt	5280
	atthtaggga	gcagtggaac	aacttcctga	ccatcacctg	atggttgtct	gacgttcctg	5340
25	gggtgggggt	gggggtctgc	cctgcttatg	tctgcctaac	tacctactgt	taacaagtta	5400
	atcagataaa	tttagtaagc	tttcaaaagt	ttgtataaaa	ataatcctta	gttaaattta	5460
	gaacacaaaa	ttaagttcaa	gtgagaactt	ttctaaacac	agaaaacagt	tttaactctt	5520
	caaagaatac	attgccactt	actctaaaca	acataatata	aatacaattg	ttattccaag	5580
	attattaaac	atataatcaga	aggtatgcag	agctcagatg	gtacttgtgg	gtatgcctgg	5640
30	gcttgctctt	tctttctttg	tctgcctggg	gaacttctct	gcagactcaa	ggacaaggctc	5700
	ttcgggactc	ttctgagaag	tcagccctac	tccttctctt	ccaccogtca	ctgcctgca	5760

ES 2 784 246 T3

gtattctgga gctgtggttc tcacacttta gaggacatca gaatgaggag ggcttattaa 5820  
 aacacagatt gccagcgcca cccagaggag ttctgcttca gtagtctggg tggggctcca 5880  
 ggatctgtat gtcccacaag ttcccagctg actctgctgc tgcttgctca gtgactacac 5940  
 ttggagaacc actgccccag agaaaactcc tctctcgtct gtgctgccct ggcctattca 6000  
 5 gtcattttat tttgacttgg gccgagcaga gaatttctgt atcttctcaa gggctctgtga 6060  
 tcttctcgaa gagagagtcc tgttttcagg ccttgagaaa gggtaatagc agagagttga 6120  
 ggggcttctt gggagagggc tgtggctgat ccagggctga ggagtctatc cagtaacaaa 6180  
 ggtgtagtca caggtctctg aaaactgcat cccaacccca gtccctgctg gactcacagg 6240  
 ctcagtggaa agtagagagc tgtaaacaca gaggtagtta aaaaaaaaaa aaagtaatgg 6300  
 10 cagaagctgc cctctctcgg accctgtaag aaagcatgaa acgaggcaga gaagcgtctt 6360  
 ttcatactcc cagacaaaacc tcgcttttgt catcccaagg aatttaggcc attactcaca 6420  
 atgcctgaat gagatgatgg tgcccagacag agccgggcat catcaagggc tgtgctgccc 6480  
 aatccagtag tcattggcta catgtggctg tatgtatgta aatataaatt acttagaact 6540  
 aaagaaaacc aactagttt catttcaggt gctcagtggc cacagatggc tcacggccac 6600  
 15 cctgctggac agttcaactc taggacatgt ctatcattgc agaaagttca gtcggctagc 6660  
 actactggag ggacttggac aatgatgccg caagagcaag atggtacaca ggaaaccgaa 6720  
 tgtaacgtgt ttgtgccct ctccctgcat gctgttctgt ccaagaattt gcaaagactg 6780  
 gcatacccca cagaatgatg cctgggagca tatgatgcct ctgcttctcc ttttctctgt 6840  
 tctcatgagc cagaacttta gtgccaagtg tggttggggg acccgtgagt cagaagaaca 6900  
 20 ctgttggagc tgagagtagg attgcccctg gtcaggggtg agtcactctc tggactccaa 6960  
 aaggccaag ggtcctaac atggggctga atgcctgccc aatgccaagg ctgtcgagtc 7020  
 atactttttc ttttgttctt ttttttcttt tttggagatg gagtgttgct ctgttgctctg 7080  
 ggctggagtg cagtggcaca atctcagctc actgaaacct ctgcctcctg gtttcaagca 7140  
 atcctcccc tcagcctccc gagtagctgg gattacaggt gcccgccacc acgcctagct 7200  
 25 aatttttcta ttttttagtag agatgggggt ttgccatatt ggccaggctg gtcttgaact 7260  
 cctgacctca ggtgatctgc ccgccttggc ctcccatggt gctgggattc caggtgagag 7320  
 ccaccagcc cagctgagtc atgctctttc tatttoggctc agtggtactt gtgcctcacc 7380  
 ttgcttcttc tgccgcagga acctcccctc ccctctcata cgcagcgtgc atgcctttct 7440  
 cttgtcattg ctctttgaaa gacagcctat gcatttgagt taggatttgg gaatttaaaa 7500  
 30 ggatggcaag tgaaaaagca gagttggggt atctggatca atgatagagt ctccaagacc 7560  
 tggctctggg ctctatattc agtaatgagg tttcctagcc tcccctggtg acacaccag 7620

ES 2 784 246 T3

	gtctgataaa	tctctcacca	tagacaagtt	tcccagcagt	agggagctta	aatgttcctt	7680
	tacctaattc	ttccataact	catcataaaa	tgggaaaaaa	aattctaatt	tctctctggc	7740
	tggctaaaac	ctaagagaga	tggaaggaaa	aggtgttcca	gggtgctttt	gaggttgcac	7800
	gtggacctga	gttttagcag	atgggccttt	gcctgcctct	gccatggggg	ctcgcagctc	7860
5	ctcaggcctc	ggtatcacag	aggtcttagt	caacgggtgg	gtaacaaaac	atggacgctg	7920
	ctttggcaca	cagggcacac	tgaggggagg	gagaacagtg	taagagaagc	atgctcagcc	7980
	agatagtga	aggacgtccc	tcgtaagccc	aagctgtgcc	cacaattggg	cttttaaaag	8040
	gtctagaatg	ggtggtggtg	ggcaaccaga	agtttgtttg	tatgagagcc	agggagatta	8100
	attattttaa	gaggacagga	atgagggcac	tataagcttg	aattggtcag	tgcaaggcct	8160
10	aagctgggat	atgggaggaa	atcccacatg	catggcgctg	tctgccagtc	aggtttgtct	8220
	cccaatccag	attgtggagg	gaaggaggag	ggtgagagca	gagctgctac	aggcatcctg	8280
	taaaagctgt	ttgactccaa	actccgtgaa	acatggagcc	caggcagcac	actgattggg	8340
	gaattctctg	gccaactgtg	acgaagtaag	atggtgagca	gaggcattct	tccagagttt	8400
	cccgcagaac	ccacatggct	ttggcccttg	gagagctcca	ggccatcaga	gatggtgcag	8460
15	gaatgggta	ggagacagag	gaagcctg	aggaagccag	caaaaacctc	acctaccttg	8520
	agaactcagc	aatgccgaa	gagattgaga	ttcctagaga	atggaggagc	cggaacaaa	8580
	ggagaaggat	gggatccagg	aacaggccaa	gagaaccagc	tcgatgcttc	ttcctctccc	8640
	ttctagaaaa	ttctgttcag	aagccattag	gtaaggtaga	gcaaggcagg	cctctgtagc	8700
	tgagtgggga	ggaagtagcg	tgcccagagc	aggaggggtg	agtccaccgg	ggtgagatag	8760
20	aggctcacac	aagggcggtg	gtccagtgtg	aggttgccca	tgtggagcga	ggaggggtgcc	8820
	aacataggag	ggggcagccc	agcatgtgtc	ggagacaaa	gcaggggtccg	aaggggtcc	8880
	tgtccaggga	ggatgtcctg	gcacggagac	tcagaccctc	agtgggggtga	ggaggggtct	8940
	acacagaagg	tggcccaggg	caggatggca	gaactagagg	ggtgaggaga	gtgtctattg	9000
	caagggcacc	ttgcgcttgg	agtcagtgtc	ctggggaagt	gggaagggca	tccacatgga	9060
25	gggtggccca	gggcaggatg	ctgctgtcca	ggcaatggaa	ggaagggtgc	ctcaggaagg	9120
	gtggtaccgc	atgagtgtcc	tacctgagca	gagagaggaa	ggtgtttcag	tgaccggcag	9180
	ggtggctgag	aatcccactc	tgctttgtgt	cctgagcctc	acagagcaca	aggcatttag	9240
	tagctgccca	ggtaatggta	attgttaaat	ggatgatgaa	ataaatgaga	aaaatctgga	9300
	ttcaactctc	atcttgacca	tatattagct	atggaacttt	ggatatgatc	ttcatctcca	9360
30	tcagtgggat	actgtgtatg	aaactactca	gaaaagctaa	aggagctgat	tttactccac	9420
	ctaacaggaa	agaaggctct	gccattcttt	gctgtgcaag	cgttcctcat	atcaaagaat	9480



# ES 2 784 246 T3

	ggcagagccc	tctttccctt	tgggtggagt	aaaatcagcc	tagccttccc	ttagcgggta	9540
	ccatgctgcc	cagcctcagg	tgcgtccttt	gtgaggtgag	aagtgtatgg	agctgctgag	9600
	tgatgtgtgg	ctacagtgga	tgcggagaaa	ctcacctgca	gggagagaac	aggctgtggc	9660
	cattggtgtg	caggcctgtg	gactttccgc	atgcgttggt	cagcttattc	agccttgggt	9720
5	gtctctgaga	tctatggcag	tgagcgtctg	ctccctctca	cagcaaacac	cacactttca	9780
	ctgaaaaatg	aggctattag	tcttgttcac	agagcaccag	gatccctccc	agttctttca	9840
	tgtgtttggt	tgttgttttt	tgagacagag	tcttgctctg	ttgccaggc	tggagtgcag	9900
	tggcgcaatc	tcagctcact	gcaacctacg	cctcctgggt	tcaagcaatt	ctcttgctc	9960
	agcctcccga	gttgctggga	ttacaggcgc	ctgccaccat	gtctggctac	tttttttgta	10020
10	tttttagtag	agacatgttg	tatttttagtg	gagatgttgg	ccaggctggt	cttgaacttc	10080
	tgacctcaag	tgactatggt	tctacaatcc	gagttctcct	gttggaccag	tcgagtgacc	10140
	ttgggcaaat	agcctcctgg	cctgggcagc	tgaggacagt	gtgtgagctg	tgttctgagg	10200
	cctcaggcct	cagaatttcc	ctcctgacac	tgtgggcctg	agcagacaga	aaggacaaac	10260
	ttctgcccga	gagcgtgtgg	tctgaagggt	cctcggagac	cctctgatca	atctttgacc	10320
15	ccttccccca	cacacactac	agcagttacg	tgtctgttaa	aatacacggt	cataaaagac	10380
	cacctactaa	ataattttta	agttgttatt	ctaaaccaa	ctattttgaa	cttttgtaaa	10440
	tgcagttttt	atttttaatt	aatgacatta	tctttgcagc	cctgaatcag	actttcctgg	10500
	acacttttgg	gtgttcttat	ctgcatcaat	ggggcctcag	ttagcatttt	aaaggtgaca	10560
	ttgccccaga	ttttatctcc	accagatctt	ctcttctgaa	ctgcagatcc	agatatcaaa	10620
20	cggcctcttg	cacataatga	cttggctatc	tctcaggtcc	tcctgtcca	caggggtgggt	10680
	tctcaactta	tcaactccct	cctctgacac	cactcctccc	ctgaaagggt	cctcccctc	10740
	ccctcagaga	acagcagcac	tcacagcagt	cagcccctaa	atccagctga	tctttgtctc	10800
	cattgccaat	atcactgttc	caggcaccat	cctctctcgc	tggattact	gcaaactgcc	10860
	accagctgg	tctctccacc	tccagccttg	ccagctgcc	cccttgcccc	gtccatgtca	10920
25	gactctacca	cgctgacctt	tggaaaatgt	aactctgtat	gcatcacttc	cctactgaaa	10980
	actctgatag	gtcactatgc	cctttaagat	aaagtctgaa	atcctcagca	gggttgataa	11040
	gcagctctat	gtgggactcg	cttttccagg	ttagcaaggg	acttcctga	ttttagcact	11100
	gaagtctctga	attctcctta	gtccttgcca	aactggatgg	ctcaccactc	ccctcttctc	11160
	ctcattcctc	tgctcacc	ctaccccaca	ctcaccctct	gtctgtcccc	tcagcagtct	11220
30	tcctcctgct	actgtgaatg	gtctctgcc	cagccccttt	gctttgtaac	tttgagatcc	11280
	ccctcctagt	ctcagtgggc	agatggcttc	ctccatgctg	tctcctggac	accccggtc	11340

ES 2 784 246 T3

	aggtgactcg	cccctgctgg	gtggcactct	tagttcccct	tgtggcactt	aaatgcgtta	11400
	tttcaatcac	tgggttaccg	gaggtctcct	tccatgactg	tagatgctgc	aggcagaagc	11460
	tgagtcgtgt	ttgccccgt	catcacctgt	tgtctggcac	aattgcctgc	tgcggtttc	11520
	agtggtgatt	tttaggtgaa	tcgtgatgca	cccaggcaca	gcctatacac	agaacgttgt	11580
5	gtttatctgt	tatcttggt	ctgagacagg	cagtctcaga	aagtgaaaa	tagctggttt	11640
	ataaatacat	gataaaatgt	tgacaatcac	tcataattaa	gtagacatac	atataaataa	11700
	taacgttcac	tttttctgt	gagacagagt	tttgctccgt	tgccaggctg	gggtgcagtg	11760
	gcatgatcat	ggctcacggc	agcctcaagc	ttctgggctc	aaggatcct	cctgcctcag	11820
	cctcctgagt	ggctaggact	ataggcacat	gccaccaaac	ccgactaatt	tttttttttt	11880
10	ttttgtagag	atgggtttta	ctgtggtgcc	caggctggtc	tcaaattccc	agcctcaagc	11940
	aatcctccct	ccttgacctc	ccagagtgct	gggattacag	gtgtgagtca	ccatgcccg	12000
	cctaaggttc	atTTTTtacc	tactagattc	ataaagggtca	cacaatgtga	agaagcggag	12060
	gacaccagca	ggcgctctcc	tcctgggggt	agaagcataa	atctgcgaga	acccttgaag	12120
	agtaacttgg	caatctttcc	taaaagctta	cctgtacata	gttttttttc	acagtttcac	12180
15	tcctagaaat	gtattctaca	aatactctta	gagatttcta	cagaaaagag	caaacaagaa	12240
	tattcaacac	atcattgtta	gcaatgaaaa	taaaagggaa	aaaaatacc	tacctatcca	12300
	tcaaaaggaa	actcgttaaa	taaattaggc	aagtccttct	aacagagtat	tataaaggaa	12360
	ttttttcaat	gaggtagatt	tacataaggt	tatatgaagc	aatcctcaaa	gcagggggag	12420
	ggggcaggaa	atgaaaaagg	tctacaattt	gtttatTTTT	gttgtaattt	taaaaggaaa	12480
20	tatgcatatg	tgtaaatatg	cataaaaata	tttctggaag	aatacacaag	aaactcgtag	12540
	cagtaattac	ctctggggag	agagactggg	atctgggata	ggagagaaat	ttattcattc	12600
	tatatctctgt	cttaagtgtt	taaataatTT	attacaggca	taaattcacc	ctTTTTTTTT	12660
	TTTTTTTTga	gacggagtct	cgctctgtcg	cccaggctgg	agtgacgtgg	tgccatctcg	12720
	gctcactgca	agctccgcct	cctgggttca	cgccattctc	ctgcctcagc	cttcagagta	12780
25	gttgggacta	caggcgcctg	ccaccagccc	cagctaattt	tttatTTTT	tagtagagac	12840
	agggtttcac	catgttagcc	aagttggtct	tgatctcctg	actttgtgat	ccgcctgcct	12900
	cggcctccca	aagtgcctgg	attacagggtg	tgagccacca	ttcccggcca	taaattcatt	12960
	tttcaatact	acaaaaagaa	aactccgtgt	TTTTTTTTTT	ttaaagaaga	aaaaagctag	13020
	ctagaaaaaa	gcatctgccc	gaggttctag	caattttcct	tccttccttc	ctttttccat	13080
30	cttttctttt	ttttctttct	ttctgcccct	gctctcctcc	tttctaagaa	aactgtcttt	13140
	ccagaatctt	ctaacaatat	taagtaataa	gattagacta	gctcttcgtc	tctgagctgg	13200

ES 2 784 246 T3

	gagtccaggc	tggactgggt	gagtttacc	ttgcgtgagg	ctgagtgcta	atgtctctca	13260
	cttactaatg	gggtaccttg	cagcctgcct	ttcatcctcc	tgcccacett	ctccccagcc	13320
	atgtcctggc	atcagctgca	acagatccca	gcttctcact	cctcccactt	tctgctcagg	13380
	ggctcctctg	ccacatgat	gtgagatgct	gaggacactc	attttgtcat	tgtgatatgt	13440
5	ttggaaacct	ggctgtggga	gagggttaac	aacccccggg	atgacctgtg	atccatgggg	13500
	tcatccctca	cagcttgcta	ggggtcccca	gcggtatcga	gctccagttt	ctcactggcc	13560
	tgaccagctc	aataatttac	cttggttggc	ttgtcctctt	tccgtttgac	tcttccgagc	13620
	ctctcactcc	tgtttcttgg	gatcactttt	caaagtaaac	caccatgttg	tgctaggctc	13680
	tgcttggtgc	agaaaccag	gctaagacac	catctttcat	cactcctgga	gagttctgga	13740
10	gtccttgtag	acctgtggat	taagaccaca	cttcattcaa	agagatccaa	caattttccc	13800
	tgggagttcc	tctctctcgc	tttctcttcc	tgagatgtaa	cctttcccct	ctaggtcctt	13860
	aggcctgcct	ttcttctctt	ctattaatgt	gaggatggca	ttttgctttg	tgcccccca	13920
	cctcaaattc	tgtattgaaa	ttcaatcagc	aatatgatat	taggaggtgg	ggcccttggg	13980
	aggtgattag	atcaccacct	ttgggatagg	atcaatgccc	ttattaagga	gacaccagag	14040
15	agctgcctgg	tctcttccac	catgtgaaga	cacagctaga	aggtaccacc	tctgtaccag	14100
	agagtgggtc	ctcaccagac	accaagtttg	ctggctcctt	gatcttgaac	ttcccagcct	14160
	ccagcactgt	gagaaataaa	ttcctgttgt	tcataagcca	cctcgcttgt	agtattttgt	14220
	taaagcagcc	tgaatggact	aaggcacctt	tataaaccta	ggcattctat	tctaaaattg	14280
	ccttccagtc	caacagaagc	atgttataga	ttctccaggt	agaagcattt	gttgtaaaaa	14340
20	ttaactgtac	ccttgacatt	gagatcatct	tgtatcaatt	ttagatccct	gaactctgat	14400
	ttgatgattt	aaaaagcagg	agaacctctg	aatctaactc	attccagtc	ctgcggtgga	14460
	aggcaaacat	agttcactca	tttgaaaacc	aaggttccct	gcacagaaag	tgccaggcca	14520
	accagcgag	ccctgatgca	aggtcactat	ttattttgtc	atcctgaggc	gagagttcct	14580
	tcaaggggct	gctgttggct	ttcaaacaag	cctggaaaat	tgtctggtgg	cctctttgat	14640
25	cctgcccctt	tttctgggtg	gtgctctctc	ttttctctgt	gttccacttt	caaaataaac	14700
	catctcagtt	ggctgtgata	aattcagtga	aggaaatttc	aagttgagaa	tggtgagaag	14760
	acctgcagaa	gggaagctat	aaatagccca	cttttaatgg	ctatagtaac	ataattccct	14820
	ttacattact	gtctgccatt	aagcaataag	taacattgta	acttgaaaat	cggaccaaaa	14880
	tagattgcac	catctacca	gaccaatat	ggtatgtgta	aatatgcaac	actgccctat	14940
30	tatttataga	tctatgattt	tccttatgaa	acggattcat	ttgggtgctc	tgtagacctg	15000
	agttaacttg	atccaacaaa	atccaacttt	gtcatagaaa	cctacaagtt	tagagcaagg	15060

ES 2 784 246 T3

gggactttta ggaatcacgg agttgaaagc ctgtcctttg cctaagctca tgcagggaca 15120  
 caggggatggg tacatgtgag aaggaagtag agactgattc caactgaaca cctggagaaa 15180  
 ggcctcggat tctcagattc aatgaaaggg gccttcacat gcctttgtta tctatcacia 15240  
 catgagatct ggaggctgca atcaccattg ttcagtggag gaaatagggt cacagagtga 15300  
 5 agtgacttga tccaagttac atagtaaadc aatggcaagg aattggactg gaaccaatt 15360  
 ccaacttaag gctagtatct ttcctttcat agtggtagct ccattgtttc tggcttctag 15420  
 agtcttgggc tggtcagctt tgattgacac gtccacagta agagtcccag ccctgccccg 15480  
 cctcccacct atacctcagc acctcagtag gtttctgtga cccctccctt tcttagcctc 15540  
 aggtttgttc aactacaga tgggggtgagc caccccaagc ccctatcacc acatcgtctc 15600  
 10 ccactcctgg ccccaaagtc tttcccctgg ccatgctcct ttcttattat tctgaacccc 15660  
 ttgtcagttg ttttctgtac tttatccctg aatagtcctt tcaaacacaga acatttacia 15720  
 tttccttctt taagaaaaga gtacttaaaa aaacaaaaac gaaagccacg tttgtgattc 15780  
 tcgcttcttc cattaactac cttctaattt tccaagtctt ggcttggcat tcagggcccc 15840  
 ctgtaattag gccctgcaa tgtggatcac cttctcccta tcctgtgtt gcttgtacct 15900  
 15 ctattacaac attgcacacg ctcagccctg ctacctctat tacaacattg cacacgctca 15960  
 ggctgctac ctctattaca acattgcacc tgctcaacco tgcaatattc caactaaaga 16020  
 gcatgggaca ctgaattcgt ttttatgtcc agtagaacat ctgccacaca gtcacgcaca 16080  
 tagtaggtgt ccagtgcagc tgtattgaat ggaatgggct cattcctgct tcctgcagca 16140  
 tggtcctat ggctgtcta gagcacatct ttctatctgg gggcaagttt gggcctgtca 16200  
 20 cccctgcag tagacactaa cacacaaagg ggtgagatta gccctgtgc atagttccaa 16260  
 agaacgagct ggcctaaata atacttctga gtgtgctacc agtgcaactg agttatttct 16320  
 taaacctca catccaggtg cctagtatgt ttctaggaac tttatctgaa agcatcaatt 16380  
 tctgtcactg atccccaaa ttgtaattgc tcaagaccaa gtgaggacta aaactccgca 16440  
 ggcatgcagc ccctgtgttt tgggtgctaca tgcgggggga ctgaatgtct tacagaggag 16500  
 25 cttacagtct aatgggggtgg ggtgggcagg gaaacaaacc tgcagagagc gacaataggc 16560  
 aagacaagag catgaagaga gacactgtgt atgggtaggg gtggctggga gaatgaggat 16620  
 tacatgcagc agtttataga aagtgcctgg cacatagtag gtgttcagta aatggtaacg 16680  
 agtcatattc tcaactaccac acaagcagct gggttcacag aggatcaagg cctgtgcctc 16740  
 cctctgactg ccatgcctct tcctccccta tcctgccac tcctctgct ccggcctggt 16800  
 30 cttctgatca tgaggaacat gccaaagttct ttctttcccc agcagggaaa agctattcct 16860  
 tattccagaa atctgtgttc ccagcttagg gcaagactgg ctgctgcttg ctcttttaggt 16920

ES 2 784 246 T3

ctcaagaataa atgccacctc cccttgccctg accactgcac tgccctgccc cagagttatt 16980  
 ctctatcaca tcacactggc tagttccttc tttgcaatta ccagaagctc taaaaatttt 17040  
 gtttctttct ttgcttggtc cttgtcccac taggcttcag gctcgagaca gagaggaacc 17100  
 gcctctgtgt ttttcaactgt cgtgtctcag tgctgggagt gtactccatg tggtcagtgt 17160  
 5 gtgatcaatt taactgtgcc tgagggttct gagaagacct cacaaatgaa ggtacctttg 17220  
 accagagcca cggagagggg acaagagttt acccaccagg cgctgcaaag ctgaggtggc 17280  
 aggtcaggac ttccagtgag aaggaggtag tggtaaagga gactgttatt atgagcagct 17340  
 ccgtccagga gaagccaggg ttcttggtcc aaaacagcac cctaggttca aataggaata 17400  
 ccctgggggt ggaggtgagg gaaggggtgt ggacagctca ctacagctatc agaagctgag 17460  
 10 ggataagtcc ccttccctcca atctgggctt tcttagcagc cttttgagct ggaatttgtt 17520  
 ttgttttgtt ttgtttatgg tgggacctac cactgtgca gggaggatct tatcaggtgg 17580  
 ccaagcttgt tttttgtttg tttgttttga gatggagtct tgctctggtg cccaagctag 17640  
 agtacagtgg tgtgatctcg gctcactgta acctctgcct cctgggttca agcaattctc 17700  
 ctgccttagc ctcccacgta gctgggacta caggcgtaca ccaccatgcc cagctaattt 17760  
 15 ttgtattttt agtagagacg gggtttcacc atgttggccca ggatggctctc gatctcctga 17820  
 cctcatgatc tgcccatgta ggccctccca taagcctggg ttttgaaca atacaaataa 17880  
 tgaaaatttt aagtactgac atttattgag ctctattgt actattttac acacatctgg 17940  
 ttttaagccac agccactgca caagattggc atttttcccc atttccagag gctgaaactg 18000  
 agattgagtt tcatgtccaa agagtgagta acatgtgtaa agtcatgggg ctaggaagtg 18060  
 20 gtggatggag tttcaaacc agctgtgttt gaccctgaag ccagggcgct aaaccacaat 18120  
 cttttttctg gccagtgtat ctcacaggtg aatcaattca ctggggttgg cgcattccct 18180  
 tgtgggctga gtcaccataa gtcagactgc ctgaacctgt tctctctgag gaggtgata 18240  
 gaaacctaact ctctaaactg acaatgccag gggcaggact ctggactttg gtaaccccat 18300  
 gatgggggtg ctccctactc tcccactcag agctgcagat agcttttctc caggacagca 18360  
 25 ggactcaagg gtgctatggg ggttagttat tgcagacatc ttgctttgct ttgctgtaga 18420  
 gtgggggtggc taagagcttg ggtagaggca gacagactgg tttgaaatcc agcctttgca 18480  
 cttcgtagct gtgtgacctt agcttgggca agtttcttta ccgctctgtg cttcaactct 18540  
 catctttaa atgaggctga gaacagtctc atggtgctac tgtgaggatt acgtgaaaaa 18600  
 acgcgcttgc acatagcaaa ccctcagcaa tcattagcct ttatcattgc tgttgttgtg 18660  
 30 actggtatat atatatatac tttttttttt tttttgagtg gagtttctact cttgtcgccc 18720  
 aggctggagt gcaatgtcgc aatctcggct cactgcaacc tccgcctcct gggttcaagt 18780

ES 2 784 246 T3

gattctcctg cctcagcctc ccgagtagct aggattacag gcatgcacac cacgcccggc 18840  
 taatthttgta thtttagtag agatgggggtt tcacatgtt ggccaggctg gtctcaaact 18900  
 cctgacctca ggtgatccac ccgcctcggc ctcccaaagt gctgggatta caggagttag 18960  
 cactgcacc ccgcctgttg tgaatagtct taaggggagg cgtagtggga tgtaatgggc 19020  
 5 tggagtccta ggccaccact thtttagccat gtgacctttg agatgaacta ttaaacttca 19080  
 tcccagaatc thttctaaatt ctccaaagt aaagatgaga thtaatagct catctattaa 19140  
 agatthttctgg gatggcattc thaaaattaa gattagcttc tgttaaggaa ttagaaaaca 19200  
 ccagaggtag ggaatggtcc ctgtcacata tagacagcat ttgccctaaa ccatgctctg 19260  
 gtcaagagga ggctgaggac thctgagcca thtgctctc atcagaacgt cctgggtgta 19320  
 10 gtgtcagaga gtggctgtat tggcttgtct gaacagctag tgtgttgctt tggthttgagc 19380  
 tgaaagattg thctaacaaa ggtgcatggt gactatggtc agcataggcg ttaggagagg 19440  
 aggggccctc tgtgcacact gtctgggtg tgccatcct caggagctca gctgtgtagt 19500  
 gtgtggcagc ctgtccccct gactccccgc ggtgaggthc acagatggthc agagctccca 19560  
 ggtgcccctc thaaagctctg gctctgctgc cgtggcccca ggcaacctgg ctggctcatg 19620  
 15 ggcttcagct thctcacatgt ggaagagcac agatcatcct tcaccccagt atcccggtag 19680  
 ctgacctcag actthttctgag tgtgagthga cthgagthgc cthgagatgc thacgtctc 19740  
 tgagtacatc aacaacaggg agthttctggg ctgcaggctg agaacctgthc thtthtcaaa 19800  
 ggccggccca cagagthacc accactctaa ggccctgcca gagccagcaa cagattatthc 19860  
 cagaaggcac ctgtctccca atcacctthc ctatctggaa caacacctc ctcagggtthc 19920  
 20 ggtaaagthc thaaatctctg thcctthgat aactcactc agthgtcaac aatgctggt 19980  
 ththttcccag thttctgthaat ctgtatgacc thctthgacc aagagattgt catcatcctg 20040  
 agggccgggg cccaggctgc thttgctgctg gcctctctcc cthactctcc agthaaacct 20100  
 gtcccaggct ggctctccc thccgggctg thttatccac gctthggctc caaccacct 20160  
 gacctthctc cacctgthcag thacgccccca gthgtthcct gthgtcacgca acagctatath 20220  
 25 agthagctccg cagaccaaca gcaggccgac agctgthcac ctgagthtcta gatctaccac 20280  
 thttcatgct ggacctggca thaaagctthc ccacgtctc gcctccatth ccccatctgt 20340  
 gaaacgagag cactggthcag ctctthcat gthacgthttg thggatgthc cthtccatct 20400  
 thccatccat cccgccaaca thcatgcaca aacatthtagc acctgctgca thgtgthcagg 20460  
 gactatggca ggaaaagagth thaaacagac acgtcccagg cthccagccc cthcacaccac 20520  
 30 ggagagghaa cagatgcccg caaaggagga gthaccccctc agggggccag cgtgctgaca 20580  
 cggthggaggc agggaggccg thctthagca gcctgctgagth cccgctgctg caccgtggct 20640

ES 2 784 246 T3

	ttgaggagtg gcgsggggccc agggggccggt ctctcttccc ggggagattc ctcccctcac	20700
	cccggcatta ctcagcgccc tgaactgtct gcctcccctc agccggccct cctcgtcttc	20760
	ctggagcgca gcacaaaggt cctggttggt ccgcgccccg ggccgcgggc gagcctctct	20820
	ggatgggtgt gactcagtct cttgccattt cctttgtgcg gctccggggc tcctcgtctg	20880
5	gagcggagtg tgtctgcagg gctggggggcg ggagccggga cccacagccc gacagcgagc	20940
	ctttcatgtg ggcagggggc ttcccgcacg caatgcgaac ctacgcctgg agcttcccaa	21000
	agacagcgtc cggcgcagga acgcgagatg ctggccgcct cgcctctggc ccccgcgagc	21060
	atcaaagcgc gtgccgtcga gggggcacgt gtccccatc gggcgcgcct ctgctcctag	21120
	tcccctgaat gaacacatcc ttatgaaaag tggaaattag ccgccgaagg gaagggcccg	21180
10	gagagcttgg gaagcgacct aggctgccag cctcccggcg ggtccttggg cccagctctg	21240
	atgacctgtc agcagccgca ggacctgcgc ttaaaggcgc ctctccaggc ctggctcagg	21300
	gtggggctcc tcgtgctcag caccctggtc aaggttaggg ctgggtgtgc gctggaggct	21360
	tggagtgcca gggcaccag tgaagagcga atgaatgaac gagtgaacac cggactgggg	21420
	gcctgcagac ggttcttcgc aggttaatta gaaggcctct agcaagctgc agcggaggca	21480
15	tttcaggcat ccttcagaga ggaccctcgg cctggctcct aaggggccct ggtctggctc	21540
	tcaccccctg ctctgggtggc atttctgctc actcagcctt taccctttac acgccagccg	21600
	ctctgaacag tttattcttc tgggagcaca tcatgttctt gctcacatcc aggttttgcg	21660
	taagctgttc ctgctgcaag gaaaaccctt cctgtgtcct cctcaggtga gagctcccgc	21720
	aggcagcttc tccccggagt ctggcgtaag tgttctcct ctgcacgcct ctgaggacat	21780
20	ttgcaaaggt ctgtcatagg gcttaccacc ccgttacctg tttgtttcca ccagggagtg	21840
	cgctgaagct gagagggaat gagtgagtga atgaagggt tgagaaagga aatttcttca	21900
	ccctccagtg ccctctgggt gggattgag acaagctcta caggaagcct aagaaaacta	21960
	actgctctaa ttctgtcctt ccttttgcaa tgtttaggca actcctgtgc atctgtaggt	22020
	accattgtga ggttactgcc ctggactggg gagagatcca cacacgcaag agtgcactctg	22080
25	gcatcagtat gtaagagtca aaactgacac acagttcttc atctcatgga aatgaaaaca	22140
	tgcattggccg gaatgatctt atacctgctt ctcttggggc aggtcaccag gctggccctg	22200
	agaagtatgt gatggcatgg agaagaatcc tcacacatcc ttgcagttct ctaggatttg	22260
	caaggcattc cccccattgc tggactcact ggatttgagt aggcctgtct gccctattt	22320
	tagagatgag catatacacc ttacaaaaac tgagtcttgc tcaatgtctg gcaaagaagt	22380
30	cttcctttat ccaacaatcc tgagagtcta gcgggtgttg ggcaccataa agatgaatga	22440
	ggtgcgggttc ttgccaccag gcagtgcccc ggcttgtcag ggagaccat gtggagcatg	22500

ES 2 784 246 T3

acaattgcta ccttcttgat acgggcaaaa ggatggtgag tccagtggaa ggagaggctt 22560  
 gtctggctgt gagatcagca aagtcttcac agaaaaggag aattttaaat ggggccttga 22620  
 aggggaagtg tctcctggag atggagagaa catagcgagg agagtgcggt gaggtggggg 22680  
 gtggcagggg aagcacatca ctacgcggtg cttagggccg agtctgagcc aacctgggag 22740  
 5 tggcaactcag ctccccagc cccccgagat gcatgttcag cagcatccag cggcctcctg 22800  
 tgaagcgact gggagtccac agagacaaca aaagcagatg tagtgatgtg taaacttgaa 22860  
 gtttctagaa gttccttttg gccccaccaa atctctgtgg caatgaacca atcccacatg 22920  
 ttctgtggg taatgctccc agagggcatg tgactttggg catcattatt ggctgaaaaa 22980  
 ggaaactggg gtagtagtta gagagtgcta tgaactgaat gttgtgtgcc tcccaaactc 23040  
 10 gtacactgaa ctccaaatcc cactgtggtg gtattagggtg agggggcctt gggaggtcat 23100  
 taggtcctga gggtaaatcc ctcatgaatg ggatgagtgc cctcacacat gagaccccag 23160  
 agagctctct ggcggtcttt ctaccatgta tggctgcaat gagaggtctg cagcctgcac 23220  
 ctggaaggag gccctcaatg aacctgacca gactagcacc ctgttctcag acttctggcc 23280  
 tcccaaactg tgagaaacaa gtttctgttg tgtataaacc atccaatcta tgatagtttg 23340  
 15 ttatagtagc caaaccgact aggacagaga ggatgtaagg agccagtgga ggactctttt 23400  
 aatggagaga ctacagcatg tctcaggctg aatgggtccag tagggagagc aaaaacagtg 23460  
 cccatgcatc accctgaggt ctacccaac cctgctggaa ctgactttag tgccctcttc 23520  
 cagtgttccc cgcatgacct ggtgggtgca cacctggctg cttgcattca caccgtccct 23580  
 ctccacttct tcttctctcc cagctctctt cctgtcaacc ctggcattgc ctttgttggc 23640  
 20 tactgagaga agaccagaaa tatccatcta gtcagacttg cctgctcctg ggaagaaac 23700  
 aaaaatgcaa agaaaagggt ctcagggaga ttgagccaac ctgggagtgg ccctcagctc 23760  
 ctccagtccc cagagaccca tgctctgcag catccaaggg gctcctgtga aactgttggg 23820  
 aggccaatga cactctgtcc cacgttgtgg atctattttg tggctctctg atccttact 23880  
 gctttttgtg gacattattg tattagattc ctttggaat gatgatccag ctaatggcca 23940  
 25 gttagtagga aacatcacga ccctcccc aaattccagc ctcttgctga aaggggtggg 24000  
 cctgggaaat catatggtat tgctcctggt caccacagac cagtgggtgc tttgggcca 24060  
 attctggccc agccaatccc cccaccttt tttttttttt gagagagaga atttgaggta 24120  
 agagacacag agactcaggt taggaggatg cttgaaactga aaggtcctga gacagcagga 24180  
 caggagctag taccatgcag aacacagcag gagccacagg caagcctgaa ctgtgggaga 24240  
 30 gagaaaacga agggccttcc agagagggtcc agtctgcca gaggagaaga gatttgacac 24300  
 gcagaaagag ttagggtgta caagaacccc cgtagcccct tgaaggacac agagaggaga 24360



ES 2 784 246 T3

	tcttttttgt tcttttgtga ttcattccttt ctcaacttcoct gtccttggag gtcaacaaca	24420
	gaccctgtga tccttttaaat aatccctctt ttcatttgaa attgttccag agggtagctg	24480
	atccttgttg ccagcatgcc ctgaataaga aaaatgctca aaccaaacac tgagtctact	24540
	gagtctatgt gaattaattc ttggaattcc ttggctcaat tcaataaaca tttcatgcac	24600
5	aatttttgtg tgccaggtgc tagaggcatt ctgagaaaaa ctgagacca ggagctgtcc	24660
	tcagagagtc cagtaagatg tggctgata agacatgttt ccatataccc agaatacaag	24720
	gtagtttgc agtagcactg caagagaaac gcagatggaa ggctggagtg tgtactgcca	24780
	ctgtggaagc aggagggct tgaggaaga gggccttcaa gaatgggtg aatctaata	24840
	tggaaaggg aggaagagt gaaagtataa gaatcagaag tctgggtgca ggatggggca	24900
10	tgatatgggt gggacactgt aaactgcaca gctggaagg aatatggagt ttagaggaat	24960
	aatgttagat gagtctgtaa gacgggcttg actgggatta tgaagggcct taaaggtcaa	25020
	gccaaatttg ttatcataga atcataagaa ggagaagagc cttagctgtt gtctagtcta	25080
	acttaggtaa tttggttcca gttcctctta aggtggccac catgacagac tgaatctcaa	25140
	gtactcatct gagatacagt catttcaatg gtagtgactc agaatttact tttctttttt	25200
15	tttaccacag caaaatattt attttagaaa ataggattat attatttgtt gctctccaac	25260
	ttgctttttt tggacatctt ggacatcttt ctctaccagt acatatagtt ccatttcoct	25320
	ctttttattt tatttacttt attatttttg tagagatgag gtcttgccat gttgcctagg	25380
	ctggctgga actcctgggc tcaagagatc cactcacctt ggcctccaa agtgctagga	25440
	ttacaggcgt gagccactgc agatattttt attttttatt ttcatttatt tcaatagttt	25500
20	ttggggagca cgtggttatt tgattacatg gataagttct ttagtgggta ttaccgagat	25560
	tttgggtgcac ccatcaccca agcagtgtac actgtaccca atgagtagtc ttttatcoct	25620
	cgtcctcctt ccccgctccc ctcacgtccc caaagtacat tgtatcttat gcctttgcat	25680
	cctcatgaga ttacttttct atctttaaca acttaagagt tctttccaga agagtcctct	25740
	tactacgagg aagagtgtta gagcacaggg aactgggcct agagagtctg cagcaaattg	25800
25	tctcaaatag cagcttaaaa aggtaaggaa cagaaaagaa acactctcta tctatgtgct	25860
	ggcctcaggc acagtgcttc tagatggtag aacatctgtg aagtagaaat tacaatcact	25920
	tttcagggtga gaaaacagga gctgtaggga ggagtccggac aggtccccag gccagcaac	25980
	tataccaggt gaggcaggaa tgtggcctcg tgttgaccag attccacagc cacgggcttc	26040
	catccctctt ctctgcttgc ttttaagacta accaccctgg cttcaagtaa gtatcactca	26100
30	caaaggaatt tcaaaaagac atgcacataa attaatggct gatggctgta ggtggctgta	26160
	tgggaggaac cgattataac attgtatgaa cttagcaaag ctctaaacca tagcacagac	26220

ES 2 784 246 T3

atttggcaaa atggttactc tttttcaatc atccaaggac tcagtttata ataagccttg 26280  
 agcgagtccc taaattccaa agcccttagc atcttccagg accctcttga gaccacacag 26340  
 tgcttccagc ttccggaaac agcagatgct attgcttcca tgagcaatgt cagcatttaa 26400  
 tacacaaggg ggaacagaga aagaaaccta tatggatggg gagcaggag gaggggcagc 26460  
 5 actggatcct ctctgggcc ctgtccagct cgacattcct gaacagagcg tgctgttccc 26520  
 tctcctgatg ttggcagctt agaatgcagg agccttagat ggggtggcctg gaagggaggc 26580  
 cagcaggag aggtgacctg gaagtgagga agctcaggag ggactgatgg taattggagg 26640  
 ggcaggcaga gagaggcaga tgaagaaaca gccgaggcct gtgtgaaggc tggaccaac 26700  
 ctgcgtccaa gcagaaagtc cagagaactt agcacagctt ccaaagcttc agagtacatc 26760  
 10 agaactactt ggaagtgcg tcaaactctg gttcctaggg aaatcctcag agatcctgca 26820  
 tctgcgatga ggcccagaag tggtttttgt gaccagttcc aaggcgactt catacaggca 26880  
 gtccttgggg aactggtga caggatttcc ctctctggac cttggtgtcc tgctctgtaa 26940  
 ataaaggggt ttgtcaaaga cggtttctgc tttctctgtc agtccaaca tacagcttct 27000  
 caaaagcttc caaaaatccc cttaccaag cttgcagccc tcatcacctg tctcaagata 27060  
 15 atggtttctt attcttttta atgtataagg cagacagggtg gtcattgtacc tgctcagctc 27120  
 ttgaaaagga cctacatgat agactctagc aactccacct cgtctgcca ttttggggga 27180  
 gagtaaagcc acgtcgtgtg cgttcacata ggcattccaa tgggacagac ttctctctc 27240  
 tggaggccgt ggctccaggt caaaacaaaa ccaactccag gtctcaggtc acaggatcct 27300  
 gcagaatgat ttatttaagg aagaaagctt caagggctcc agagaaatta aatgtgtata 27360  
 20 tttcccagc aattatgcac gtcctttccc ttgaaaata gttcccatgc cctgcctgga 27420  
 agaaaagcca gattctccat gatgctgtgt tccacaggct tctagagggtg ggggggctgt 27480  
 gattttctaa caggagaagc cacatgaaag tcttcagcag ctttgcgctg tttctgctgc 27540  
 agcacctctc agggcagact ggagaatcag ggagtcttgt ctggaaaaac gagacaggct 27600  
 gggcctgaca cattgatttc tggttcaagt ttcccagtga aatgtgaagg aggaattttc 27660  
 25 cacttcttgt cctgattcac cttggcgaac cagtctttgg agtcccagac tg 27712  
  
 <210> 26  
 <211> 1863  
 <212> DNA  
 30 <213> Homo sapiens  
  
 <400> 26  
 cttcctcggg gtttgcttcc aggcctgact ttactcccc tttctaagtg tgcagatggg 60  
 atgtgcttct ccacaggagg ccccacggct tccccacccc tcagaggagc gccgtgctgt 120  
 35 cgtctgtgtg gaggattggc agctcctgca gtcggcctt ggtcctattt ggcgacgct 180

ES 2 784 246 T3

	ctgccttccc	cttaattata	cagtcattgag	ccgccctgga	atcacggcag	ctccggatgg	240
	atcctggatg	ccagaatgca	gcctcagcac	ggggctgcag	gacaggagtg	agcgagggggc	300
	tgacagaccg	gcggccgcgg	tgggcacccat	ggagggggct	gccctgggca	gcacggggcat	360
	gagtctcaag	gcccaggttt	gagtaacagg	tgttgagagc	ttacttactt	ttcctgagac	420
5	acagtttctt	catctcgaga	gcacggaaaa	tcattctaac	ttcagaggat	tgttgtgaaa	480
	gttaaagtgg	attaaagagg	taaagcccat	gacgtgctta	gctcgtgctt	ggctcttggg	540
	caatgccagt	tagcgtgca	ttttctcccc	tctccctccc	tccttctctc	tttcttttct	600
	tctattctcc	attcctgttt	tctccccac	cccactcccc	aaagctctgc	ggtgagaacc	660
	agatgctgtc	tggtggggtta	ggccagagg	aggaaaagct	gcccggcctg	ggctgcaccc	720
10	atacctctt	cattccaatg	acatgagggg	aggggaaagg	acagaggtag	actgtcctcc	780
	cctacctcct	cctaatacaa	atggaattcc	tggaactgga	aaacaaagaa	tacccccata	840
	aaaataagac	agtacttctg	gtgcggtgta	ataaagggga	aagtaaccct	caatgtcagg	900
	aaactccgca	cctcccagct	catatttgtg	tggaggaaaa	gttaaataat	aatttgact	960
	caactgaatg	tggacacaaa	caatggtcac	caagtcccg	aacaggttgt	gtgagcctct	1020
15	tcaggggttc	atccagcgtc	gttttgaga	aatctctatt	tcaatttatt	cctatacgtt	1080
	agttactgaa	aaacaacaga	caatcgcaaa	agcaagttgc	ccgttttgtg	ttccttgagc	1140
	ccaatcatga	agtgccgtcg	tgactgggcc	tcatgacaaa	caacttgtaa	caagtaacaa	1200
	cagagctcag	gtcccagacc	gactgaagc	tctgtgagac	ctctcctcat	ctgtgcatga	1260
	acgagtgtct	gactctggag	cccagcctgc	tgcttcccag	tctgggtgtg	aatcctccgt	1320
20	agtctgatgg	aggtttgctc	ttgttgcca	ggctggagtg	caatggcaca	atctcggctc	1380
	actgcagccc	ctgcctccca	ggctcaagca	attcttacgc	ctcagcctcc	tgagtagatg	1440
	gaactacagg	gcatggactg	gaactcccaa	taccctgac	atgggctgag	tcaacgtggt	1500
	catgaacatg	tgacaggagg	cagcagaagt	tgacagagaag	agtgaggcac	gtttgaaaaa	1560
	ggctgaaaaa	tgtttctgtc	caggcaaggg	tgtgtgctga	atgactcaag	gattttttgg	1620
25	gcaacacaaa	ccaacacgag	ccgtgtgagg	atcaggtgac	agctgccccaa	aagctgacac	1680
	aaggaacaag	cctggaggag	tgaggatggg	tgctgtgaag	gaggttgtgc	agctgggccc	1740
	gcagtcggac	ctggtgagat	cagaggaggg	ggtgccacca	gtctgtggac	gaagatgaga	1800
	agctggaata	gagcagaaaa	caggaggctg	ccactctcca	tctttcccaa	agtcaactcca	1860
	gga						1863
30	<210>	27					
	<211>	1402					
	<212>	DNA					

ES 2 784 246 T3

<213> Homo sapiens

<400> 27

ctgtctcaag cctccaatca acagatcaga cagcttgtac tcacaggcca aggacacgtg 60

5 gaaagaggct caatthttcta gatgggtggc aacagccatg atcttctgtc ctctgggtcc 120

ccacaagcct ggatgaactc aagatctgac tcagtggcac agtgaggaga cthttgaggc 180

ctcagtgacc atccttggac ttcacctctc acggctttca ggcagagagg ccctcccatg 240

cccacaacag gctgagccca gccttctctg gggthttgctt ccaggcctga cthttactcc 300

cthttctaag tgaggcagcc atgactggcc acttcatgtg ctctggaga agggcttgca 360

10 ccagccgttt tcaggaaagt caagcagctg ttgactctctg agtctgggtg aatthgtgtg 420

aagagcataa ggcgctgttt cthaaccaa acgcttctctc ttgcagtgca gatgggatgt 480

gcttctccac aggaggcccc acggcttccc caccctctcag aggagcgccg tgcgtgctc 540

tgtgtggagg attggcagct cctgcagctg gcccttggtc ctatthggcg acgctctgc 600

cttcccctta attatacagt catgagccgc cctggaatca cggcagctcc ggatggatcc 660

15 tggatgccag aatgcagcct cagcacgggg ctgcaggaca ggagtgagcg aggggctgca 720

gagccggcgg ccgcggtggg caccatggag ggggctgcc tgggcagcac gggcatgagt 780

ctcaaggccc aggtthgagt aacaggtgtt gagagcttac ttactthtcc tgagacacag 840

thtctcatc tcgagagcac ggaaaatcat tctaacttca gaggattgtt gtgaaagtha 900

aatgagatta aagagghaaa gcccatgacg tgcttagctc gtgcttggct cthggthaat 960

20 gccagthtagc gctgcaththt ctcccctctc cctcccctct tctctcttht thttctthta 1020

thtctccatc ctgththtctc ccccacccca ctcccctaac ctctgcttg agaaccagat 1080

gctgtctggt gggthtagggc cagaggagga aaagctgcc gccgtgggct gcaccatac 1140

cctcttcatt ccaatgacat gaggggaggg gaaaggacag aggthagactg thctccccta 1200

cctctctcta atacaaatgg aatthctgga actggaaaac aaagaatacc cccataaaaa 1260

25 taagacagtha cthctggtgc ggtgthaataa aggggaaagt aacctcaat gtcaggaaac 1320

tccgcacctc ccagctcata thtgtgtgga ggaaaagtha aatathaat thgactcaac 1380

tgaatgtgga cacaaacaat gg 1402

30 <210>  
28  
<211>  
3679  
<212>  
DNA

35 <213> Homo sapiens

<400>  
28

# ES 2 784 246 T3

	gaggcagcca	tgactggcca	cttcatgtgc	tcctggagaa	gggcttgcac	cagccgtttt	60
	caggaaagtc	aagcagctgt	tgactcctga	gtctgggtga	at ttgtgtga	agagcataag	120
	gcgctgtttc	ttaacaaaa	cgcttcctct	tgca gtcag	atgggatgtg	cttctccaca	180
	ggaggcccca	cggcttcccc	accctcaga	ggagcgcct	gcgtgcgtct	gtgtggagga	240
5	ttggcagctc	ctgcagtcgg	cccttggtcc	tatttggcga	cgctctgcc	tcccccttaa	300
	ttatacagtc	atgagccgcc	ctggaatcac	ggcagctccg	gatggatcct	ggatgccaga	360
	atgcagcctc	agcacggggc	tgca ggcag	gagtgagcga	ggggctgcag	agccggcggc	420
	cgcggtgggc	accatggagg	gggtcgcct	gggcagcacg	ggcatgagtc	tcaaggccca	480
	ggtttgagta	acaggtgttg	agagcttact	tacttttct	gagacacagt	ttcctcatct	540
10	cgagagcacg	gaaaatcatt	ctaacttcag	aggattgttg	tgaaagttaa	atgagattaa	600
	agaggtaaag	cccatgacgt	gcttagctcg	tgcttggctc	ttgg tcaatg	ccagttagcg	660
	ctgcattttc	tccccctctc	ctccctcctt	ctctctttct	tttcttctat	tctccattcc	720
	tgttttctcc	cccacccccc	tccccaaaagc	tctgcgttga	gaaccagatg	ctgtctgggtg	780
	ggttagggcc	agaggaggaa	aagctgcccg	ccgtgggctg	caccataacc	ctcttcattc	840
15	caatgacatg	aggggagggg	aaaggacaga	ggtagactgt	cctcccctac	ctcctcctaa	900
	tacaaatgga	attcctggaa	ctggaaaaca	aagaataccc	ccataaaaaat	aagacagtac	960
	ttctgggtgcg	gtgtaataaa	ggggaaagta	accctcaatg	tcaggaaaact	ccgcacctcc	1020
	cagctcatat	ttgtgtggag	gaaaagttaa	atattaat tt	ggactcaact	gaatgtggac	1080
	acaacaatg	gtcaccaagt	cccggaacag	gttggtgtgag	cctcttcagg	ggttcattcca	1140
20	gcgctgtttt	ggagaaatct	ctatttcaat	ttattcctat	acgttagtta	ctgaaaaaca	1200
	acagacaatc	gcaaaagcaa	gttgcccgtt	ttgtgttct	tgagcccaat	catgaagtgc	1260
	cgtcgtgact	gggectcatg	acaacaact	tgtaacaagt	aacaacagag	ctcaggtccc	1320
	agaccgcact	gaagctctgt	gagacctctc	ctcatctgtg	catgaacgag	tgtctgactc	1380
	tggagcccag	cctgctgctt	cccagtctgg	tggtgaatcc	tccgtagtct	gatggagggtt	1440
25	tgctcttggt	gcccaggctg	gagtgcaatg	gcacaatctc	ggctcactgc	agccccctgcc	1500
	tcccaggctc	aagcaattct	tacgcctcag	cctcctgagt	agatggaact	acagggcatg	1560
	gactggaact	ccaataacc	ctgacatggg	ctgagtcaac	gtgg tcatga	acatgtgaca	1620
	ggaggcagca	gaagttgcag	agaagagtga	ggcacgtttg	aaaaaggctg	aaaaatgttt	1680
	ctgtccaggc	aaggggtgtg	gctgaatgac	tcaaggat tt	tttggagaga	attggagtgt	1740
30	ctcaccagag	gagaccagct	ctgaagggct	ttgcatccct	ccttggacat	gtctaatacc	1800
	taacactcag	aaagcatcca	gtaaatattc	gtggaaagaa	aggagtggag	aaggggagaa	1860

ES 2 784 246 T3

	aggggaaagg	gagtaggcga	gagagaagaa	agactctgct	tcttgcccag	ggcctggcat	1920
	ggggcggagg	caaagcagtg	gggtcctcag	ctatgtccca	ctgtgagtgc	acagcgagtc	1980
	ctgaccttca	gagggtgca	cccgagggc	cctggcctgt	ctgaagggtg	cgccagccga	2040
	gtggcctgct	ctgaccacca	ggctcaccca	tgactacctg	ggtggctaca	gccagttcct	2100
5	gacaatgagt	acagcactca	gttatcgggg	cccttccacc	cacacgctgt	ccacttctctg	2160
	gggtactgct	gtgggcatgt	gagtgcctgc	tccccggggc	actgctgtgg	gcatgcgagt	2220
	gcttgctccc	cggggcactg	ctgtccactt	cctgggggtac	tgctgtgggc	atgcgagtgc	2280
	ttgctccccg	gggcactgct	gtggacatgt	gatagcttgc	tccccagctc	cactagtgc	2340
	actggcggcc	cctcgctggg	gccttccccg	cctgctccgc	tccattaccg	ctgccgggct	2400
10	cctcacgtct	ctccttgctg	cttctgcac	tggggtgagg	agagtggggc	tggteccctt	2460
	gagaccggag	aagctccagg	cttttaagga	aaactgccag	ggacgaagag	aagatatcac	2520
	ttccccacgt	ggttggttc	cagattcaga	aggaatgtct	gtccttgtgg	attccgtacc	2580
	agatgacccc	agatgctgcc	tcagtactag	gtccctgtgg	ctctggagcc	tttgcctggg	2640
	ctgggcagtg	tctcttctc	tccagttcat	ccttgggtct	cttcaccctt	gccaggggca	2700
15	ggcttctctg	tgagaggctg	acctcctgca	tgaaggctct	caagaggcca	gttcaaagcc	2760
	aagctccggg	tctgtgctct	tggggctgct	cctcgatcag	gagatggtea	ctccccctct	2820
	ggtctgtatc	tgtgggattc	tcctccatca	ggagatggtc	tctccccctc	tggctctatac	2880
	ccgtgggatt	ctcctccatc	aggagatggg	cactccccat	cctggtctat	accctgggga	2940
	ttctcctcca	ttagatggtc	actccccctc	tggctctattc	ccgtggggct	gctcctccat	3000
20	caggaggtgg	tcactcccc	tcttggctca	taccctgggg	gctgctcctc	catcaggaga	3060
	tagtcactcc	ccctcctggg	ctataccctg	gggattctcc	tccatctgga	gatggctcact	3120
	ccccctctgg	tctataccca	tgggattctc	ctccatctgg	agatggteac	tccccctctg	3180
	gtctataccc	atgggattct	cctccatctg	gagatagtca	ctccccctct	ggtctatacc	3240
	cgtggggttc	tcctcaatca	ggaggtggtc	actccccctc	tggctctatac	ccgtgggatt	3300
25	ctcctccatc	aggagatggg	cactctccct	cctggtctat	accctggggg	ctgctcctcc	3360
	atcaggagat	ggtcactccc	ctcctggctc	atacctgtgg	gattctcctc	cctcagaaga	3420
	tggtcactcc	ccctcctggg	ctatacccat	gggattctcc	tcctcagaa	gatggctcact	3480
	ccccctctg	gtctataccc	gtggggctgc	tcctccatca	ggagatggtc	actctcctc	3540
	tcggttgctc	agtccaaaa	caacctctct	ggaaaactgc	gtggaatctt	tttttaaga	3600
30	attgaaacta	gaactagcat	ttgatccagc	catctgccta	ctgggaatac	acccaaagaa	3660
	aaataaatca	ttatatcag					3679

ES 2 784 246 T3

<210>  
 29  
 <211>  
 5 4435  
 <212>  
 DNA  
 <213> Homo sapiens

10 <400>  
 29  
 caaatgcctg gcagcgtcct cggcgcttca cctgccatag ccgacagtgg ctgacctccc 60  
 atgcctgttg ccttttcttt ctgttgatc aggatatac tgccatgtgt gtttaagaaaa 120  
 gctggcctta cctacagggc tggccagtcc cggtcacggt tctagtaagc cattgcctta 180  
 15 cataagggta acggcatggg acgctatctt agccaatgtg ataaaagtgg acatgaggtg 240  
 agaggcttca gagagaggtt ttaaaaaaga gacaaaagca ggacgttgcc tctcttcctc 300  
 ctctccacgt gtcctaccg gatgtgaagc caaacagat gcaggcttag tgcaacctg 360  
 gggaaccag cataagcaca gattcaacag cagaagagtg gcagagggag aagggtgaaag 420  
 gaacctaggt tttcctgtcc ttgttgagtc attcagttaa aaatccctgg aattttcctc 480  
 20 tctccggcag tgtgttttgt gggataatga gttgccttat tggggttggc ttgctagtcg 540  
 ggatgtttcg ctcccatcaa catccatacg cttgctctgt gaaccaatga cctgatgagg 600  
 tagtattage accaccatca ttatgctgag gatgagattt atggcacagt ggttcagtag 660  
 cttgcccag gccatgcggc tggtaggttc tggaggaggg ctcagggcac cccctgagct 720  
 acccctgctg gccattgcac cacccataa agctgctggc agtcacttct ctgagggggtt 780  
 25 agcatgtaag aatgtcctc ctgaatgctg gccagacaaa tggaaatctg ccagggttgg 840  
 gtaccccat gacagcagcc agcctgccct cttagtccct gacagctgca gtgacagcat 900  
 ctgtgattgc aaagcgtgac aatttatatc tctcatttca tcacaccatc tatcagcaga 960  
 cagtcaggct ttaaaaatca atcccacact gactcagtc ccagcagaga tggcctctga 1020  
 caacagtatc cacactgcag gctggacaag ggccctatta attttgagac tcagccaaat 1080  
 30 ttccttctga ccctaagctg gtgaatccct gctccttgc tttggttggg gttggtgtga 1140  
 gctaaggctg tgatccatt tgctcctatg gcctccaggt ggctgggccc tccatgaatg 1200  
 ggccacatgg tcatactgaa tgcttgatta cactcagacc tagcagtcgt ctgggcgag 1260  
 ctggtttatg gatcactttg tcacaatgtt ccatccttcc aggtcccat ccccgcggtg 1320  
 ggaaaacatt gctttaggca gtgctagagg acttcagcag gcattggcag cttctggatt 1380  
 35 caggattaga acaaagaagg aggagtcaca gcaaagatag gaacagaagg cagagagaac 1440  
 agacagatgg ggggtgttga gaaggagggc ctttgagacc tcagggagtg ggagacactg 1500  
 gctcgagaat aataataatg gcaatttctc tcatctgtgt tttcagggca tggactggaa 1560

ES 2 784 246 T3

	ctccaatac	ccctgacatg	ggctgagtca	acgtggatcat	gaacatgtga	caggaggcag	1620
	cagaagttgc	agagaagagt	gaggcacggt	tgaaaaaggc	tgaaaaatgt	ttctgtccag	1680
	gcaaggggtg	gtgctgaatg	actcaaggat	tttttgggtg	attgaatgaa	cagcgggaca	1740
	ttggacacct	gctgatccat	caccccgggc	ccgggcaggc	ccgtggatga	agagagatgg	1800
5	agaagaccag	gcatgagact	gtggagaagc	cacaccacca	gaaaccctg	cccatgcgc	1860
	cgtccagccc	acacctgtgg	atgcacgggg	gattgcaggc	agggctccca	ccgtggactc	1920
	aggaacaggc	aggaagctg	ctgcctcacc	aggcgaaggg	gccaggaggg	ggaggcggag	1980
	aggcccgtct	agcccctgcg	gctgtcaccg	tggtgcctcc	tactggcca	gtgcggctcg	2040
	gcctcagctt	cgtaaatagg	ggagggggcc	taagagtttt	cacgtccagg	ctcgggcagt	2100
10	ggggaggcag	gcaggagtgg	ccgctggttt	ttcagacctc	ccaggagggc	cgaggaaatg	2160
	gcccgtcctg	gagtgggctg	ggttctgtct	tcagatggat	gctggagggt	tgggctgcgt	2220
	gggaccctgg	gccctgctgc	ttcccggagg	atgcgctgtc	cggggctgca	caggttggt	2280
	gtgttttttg	gatgcttgat	attttgtttt	ttcttctctt	cactctgtca	tgaaactggc	2340
	aatagtagtt	tgtaaataaa	tatgtgttat	agatgaatat	ttgctatgag	taaattaata	2400
15	aaggagtga	taaatgagcg	attgatgtag	ggcctgtcct	gtctcaggga	gccccacgaa	2460
	ggcctgcgcg	ccggccagag	cctgcctgcc	tgccagggta	ctgggacgtc	actotcaaag	2520
	cggcgggacc	cagccgctga	tcttgctgag	gaggcccggg	ctcagaaaac	tgagcggctg	2580
	cttctgcaga	ccctgcatcc	tcccctcctt	ggagaaagaa	gctctggctg	agtctgggga	2640
	ccgaaccctt	gggtgccaca	gaaacgggct	ttgctgcctg	tcagtcaagc	ggcgggagaa	2700
20	acagacctgg	ggaggaggag	gctgggaggg	ctgtgttttc	tgcacagcga	gtagctcctt	2760
	agcctggtgc	catttctctc	caaacaccct	gaaggttgag	tccagggtga	agatgtagag	2820
	gcaagttttg	gggggatgga	gtgggcttgg	agggatgctg	gcgcttagc	aggctgtgct	2880
	cctgaggtgc	ccagtgtctg	cgggcacagg	aacatgttgc	cgagggcatt	tgggtgtggg	2940
	tggggtgggg	aaagggagac	agggctgtct	cttttaaatg	gtatctgcga	gcatgtgatt	3000
25	gtaagagagg	aagaagtagg	ggaggaagaa	ggcctccttg	ggagggtcgt	catcctgagg	3060
	aaggctgaac	aatgagggtc	ttggagagtc	aattcagaag	cacaaccttg	cagagcaggc	3120
	aaaaacaata	gggcttcttg	aggctgcccg	ggcactcatg	caatcacctt	ttcctgctgt	3180
	gaatgagcct	acattttgtt	ggggaagaga	cgcaacgacg	ccaaacgatg	gactctgagt	3240
	caacgataag	atgaaacaaa	attaaaacaa	agtaggaaat	caagagtggc	tgctgtgatg	3300
30	gcgttgcgga	gatgatgttt	gctttgagaa	ctggacaagt	gagcccctga	gctgcatctg	3360
	caccagagg	ctgagccggt	gcacaggact	tgacagagga	tgggcctggg	cttgtagagc	3420



# ES 2 784 246 T3

	agcacaacgg	ccccaggcct	ggaggagcaa	gggtgggaag	gggggcaggc	cagctcctgc	3480
	caggctggag	aaggactcgg	acctcaggcc	acctgtgcct	gggtgattgt	gaacttgtaa	3540
	caaatgtgat	cttatttatg	ttttgaaaaa	ggcaacacaa	accaacacga	gccgtgtgag	3600
	gatcaggtga	cagctgccca	aaagctgaca	caaggaacaa	gcctggagga	gtgaggatgg	3660
<b>5</b>	gtgctgtgaa	ggaggttgtg	cagctgggcc	cgcagtcgga	cctggtgaga	tcagaggagg	3720
	gggtgccacc	agtctgtgga	cgaagatgag	aagctggaat	agagcagaaa	acaggaggct	3780
	gccactctcc	atctttccca	aagtcactcc	aggagcaagg	gtgtcattta	ctgaaatgac	3840
	agactctcca	tttcacattt	ttcccccaag	tgacagatgc	agggaaagcag	atgggctaaa	3900
	tttttagagt	cagggttatt	aatgtatact	ttacatagta	aactttcccc	ttttaagtgt	3960
<b>10</b>	gcaggcctga	ggtttgccaa	atatgtgtag	gcatttaatc	accaccacga	tcaagatgta	4020
	gaatattccc	actatcaaaa	agtttgctgt	gtcccttgat	ggtcatgccc	cattccacag	4080
	ccccagcccc	agcccctgga	gattgctgtc	tgctttatgt	tccagtgggt	ttatcttttc	4140
	cagactgtat	ggatgtgaat	ggaatcagat	gtgattccaa	ggtgttttat	cttttccaga	4200
	tgtgaatgga	atcagatgta	cgaaatccta	tggtaggggg	tcttctgagt	ctagctcctt	4260
<b>15</b>	ttgttttagcg	tgatgcattt	gaaattaatc	catgtctcag	gcatcaggag	ttcatttctt	4320
	tttctgctga	gtagtatttc	attgtatgga	tgtactgcaa	tttgcctatc	cattcacctg	4380
	ttgatgtaca	tttgagattt	ttggcaatta	tgaataaagc	tgctataaac	agaca	4435
<b>20</b>	<210>	30					
	<211>	4996					
	<212>	DNA					
	<213>	Homo sapiens					
<b>25</b>	<400>	30					
	aagatgggac	aatTTTTTTT	cctcttggtt	tctttataat	tattgtacct	cttttctgga	60
	ataatctttt	catcttgttc	atctgtcaat	gcctgcttgt	cttctcagat	ttcaactcag	120
	gtatattatc	ttctcctgag	ttatTTTTTT	aactgctgta	aaggcgtatt	tctgtgcccc	180
	atatctacgc	ttcctaggat	aaagcacggt	cctctaatag	tgtacaacat	ttggcaattg	240
<b>30</b>	cctgtttgtc	tcttctctct	gctagacggt	gtgctacttg	agaatatagc	tttccctttt	300
	attaatttat	ttcgtttaca	tccttctgtc	acaggattct	accagcctgg	atcctatgcc	360
	tgccaagggc	aagtggagct	ggaagggatg	tgtgagcaag	caagcatcag	gtccggccac	420
	tgcacatagc	tgctggctgc	agtggggtgg	gcagctccag	tctccagcac	aagagccagc	480
	tccttgcgag	gctacagctg	gaccagacat	cccacaagca	gcttccacag	atggcactag	540
<b>35</b>	ggaatgcagt	ggcaccacga	agcttgaagg	caccaggaac	cacagagccc	caaagagggt	600

ES 2 784 246 T3

	gtcacagtcc	tggcttgggg	aactcctaga	tctgggctcc	ctgaaggact	gcagctcttc	660
	tctccttctt	gtcacccaca	acatggtgag	caaggggtgt	gtttcagccc	tgtttgtggt	720
	acaaagggca	tgttcagccc	tgccatttgg	tgggtcctga	gttcttgtcc	agtgcccagg	780
	aaaaatgagg	aatgctgaca	agtggagggt	tagcaaggcg	aagaggagct	ttattgagca	840
5	atagaacagc	tcagaggaga	cttgaagtgg	gtagcatttg	tccacagcca	gggtgtcccc	900
	atgagtgttc	agctctcagc	agagaggaga	ccctggagtg	ggcagctcct	cttcacagct	960
	ggtagtgtcg	atgtttgctc	agctctcaac	agagagggga	acctgggtgtg	ggtagctcct	1020
	ctccacagct	ggttgtctta	ttgtctctc	agctctcagc	agagaggaga	ccctggggtg	1080
	ggtaggttct	ctctgcaact	ggccatcctg	ctgtcttcct	aagtctgtct	gagtccagga	1140
10	cctttatggg	cctcagaggg	gagaaagcgt	gcaccgattg	attcatgggc	agctatgggc	1200
	aggcatggaa	aaagcaccac	aagttcccgc	tacagtctgc	aggactagca	gcctggcccc	1260
	caggcttcag	gcctccctg	gcttgaagat	ggagcttcag	tggggatctg	cccgcttctg	1320
	cccaggagcc	tgtctgcctc	ctgctgccat	tcatggcact	caggctgttc	atgccaaggg	1380
	gttcctgaag	gtcagcaatg	accgcctc	agccctgccc	ttggccttcc	tcttgtgcta	1440
15	gttgtgcca	aagtccggag	gggatgaag	tggcacgggg	ttggtgtgtc	aatacttccc	1500
	tgattgtgcg	cacacctggc	caggctggga	tagtgaccag	actcgcccc	aaccttgctc	1560
	tgagatcaaa	gcagatgcta	ggagtggaga	gaagccaaac	agtgggagca	ggcacttcca	1620
	agcctgtggg	ggtatggggg	tccttcccag	gcccctgaga	gtgcagagat	gcctgggtcc	1680
	acagccgtga	catgaggagt	tgcagctgtg	cctgggaag	tggggctcct	cctgcctggt	1740
20	cctggctctc	accagctccc	tggagcgtgc	agtgctgcct	gtgcctccac	actgcagctg	1800
	gcatcgtggc	agctgccgct	ctatacaggc	tgccactgcc	atcacttcca	gaatattacg	1860
	ttgctgctac	ctagtagatg	ttcagtaagc	ttcttaattt	taataagcat	ttaactagga	1920
	acatgaagtt	ctttatactt	tgagacatta	tatactgct	tgttattgcc	atgagtgttt	1980
	tctgtctctt	gactgaaaca	tggctcccaa	gcctgaaaca	tcagggataa	agtctggtga	2040
25	ggaaaacaaa	agcagagaag	agaaccaaga	gccagcatgg	ttaccaagg	tcacagggct	2100
	cttggttact	gactgaatcc	agactgtagt	ccaatgctac	tagcaacaaa	tctgttcttt	2160
	acactgagtc	tcggctactt	tgcttctctt	taaatagcaag	taatcaaaact	ttttcttccct	2220
	actactaaac	atthtagcac	aggtattatt	tatatactta	ttgaatgcac	agcttttcag	2280
	taacaatcct	agatagctag	tgtcactatt	taacacctta	aatctctaata	tatgatgagt	2340
30	ccatthtgac	ctttcctaga	gttcctcaga	ggcatcccta	ttattgtctt	atcattaaga	2400
	tttattagta	tcatttcatt	tacgaactgc	cattttcatt	ttattttggg	gcatatgttc	2460

ES 2 784 246 T3

	aaactggcat	cttccccagc	tgcaatcaat	gtacataatg	ccacagctcc	ttgattgggt	2520
	taagaacatt	ttcttctcta	cggatagga	cacagtttaa	ggtttctgat	gatggcacat	2580
	ttcaagtgat	gctgcttaat	tcacctgcag	ttctcagtg	cttggttgtc	tcatattcat	2640
	ctttaaaaat	aaacttcctg	atgttgcaaa	ctaagaagt	gtcctaaaga	aaagaagatt	2700
5	aaaaccacag	atggtgcaat	atagatacca	gacatcctat	tactactaact	ctgagtatta	2760
	caattaatgt	aatgaagaaa	aacttaaagt	tgttggcctt	aagaagttag	ataagacca	2820
	gtaggtgaca	aagttgctta	cggatgaggt	tgatttccta	ttccagggtg	ttgggttttc	2880
	ttttttactg	ttctgaacta	gaaaaaaaaat	gtcttgggaag	ttcatataaa	taactttcat	2940
	gatttctaag	aacaatcatt	ggttacagat	gaatgttttc	aggataattg	tcatatagat	3000
10	ttggttatga	gaaattaata	aaaattgttc	caaataaatt	taatgtaata	tacatcattt	3060
	atatgaagtc	tttatcaact	tctaaaaat	tgcttttaag	tgtttttatt	tatattaaaa	3120
	tatatagtct	atcttctactg	gaaatatttt	cctaattttg	ttttcatata	attgctttta	3180
	ttattgtaat	ttctgttgaa	catttattta	gtactcattg	atcaagtcca	tacaacaaag	3240
	aaaagtttct	ctaaatctcc	aatgaatttg	gctgtgctct	gattattcct	gcttccttag	3300
15	ctttcaagac	aaacaaaact	gtctaaaagt	tttaattgta	gttgataaat	tctgaaaatg	3360
	gagtaacttt	taaaggctct	ttcacacaaa	aatcctaaag	aaaactcata	aataattact	3420
	ctcagtaaac	cccctcaaat	ttttagagct	tttttctact	tattcccttg	atataaagtg	3480
	ttagttttta	ggtggattaa	aacaacctat	tagaaaatct	tgccagggtg	gttggcttac	3540
	ccctgtaatc	ccagcacttt	gggaggtgga	ggcgagcaga	tcacctgaag	taaggagttc	3600
20	gagaccagct	tggccaacat	agtgaaacc	tgtctctact	aaaaatacaa	aaactagcca	3660
	gacatgtag	taggtgcctg	taatgccagc	tacttaggag	gttgaggcaa	gagaattgct	3720
	tgaacctgag	aggcgggggt	tgcaagtgagc	caagatgggtg	gcactacact	ccagcctgga	3780
	tgacagagca	agactctcaa	aaaaaaaaaa	aaaaaaaaaga	aaagaaaaga	aaatataata	3840
	gactgactct	acatttattt	gtactgttct	atttaaaaat	attttaata	atttttaaca	3900
25	gactttgcac	cacagaatgt	ccaggatata	tcaggaagga	gcaatgaggt	aagtgttctt	3960
	caaagtgaca	gttataagt	actaagacat	aggagatga	atcacttggt	catcatattg	4020
	atctgaattc	tgggaggaca	tagatcataa	atgtgaagga	gaaaggcaat	gcatttctgc	4080
	aatggatac	tgcttaaagt	ccctaacatg	ctccttgaaa	taaattggggc	acaaaagagg	4140
	ttgttttacc	ctaaagcaat	tttacctcca	atcttggcag	atttccaaat	ttttgagact	4200
30	tgaccatagt	cttatgttag	agtggcttta	aggggacagg	caatgggata	ttcactggat	4260
	gtaaaatcag	atgatttttg	tttgaaagca	agccttttca	cttatcaact	tcttgacttt	4320

ES 2 784 246 T3

	cagcaaatca	tataacatct	caaattatta	attgtcatat	tatctgtgaa	tgacatatat	4380
	atacatatat	aagccaagag	tgttttgtaa	gcagtgaatt	tctttactgc	catattcaat	4440
	aaagcaagca	gttgtaggt	gatagtcatt	catttattca	ttcaaccaca	ctggtatggt	4500
	gggtggagga	tactgacatc	catgaaaaac	aatcccctaa	tttcaagaca	tgtatagtcc	4560
5	agaaagggtt	gtagactcaa	ctcattgtgg	ctcacagatg	tattttgtct	gctggcatat	4620
	ttatttaaag	ttggaattgt	aaggcctttt	aataccctct	ccagttagtc	acatgctcaa	4680
	cctctccttt	tcttatatta	acctgcttta	gtcaaacaag	gtcacacact	ataggctactc	4740
	tctttagtca	aattattttt	tccagtggat	atgccttatt	tatgttgcag	tttgacacta	4800
	aagctacatt	caagaaaatg	tttctccatg	caagctgttg	gaataacatc	cataagaatt	4860
10	cagccattct	tatttgtata	tttgtccaaa	atgctccttt	tccccattt	tacttctaga	4920
	ttatgtatat	ctgtaaagt	ttcttagatt	tactttgcta	cattatagtt	ttgccaaaac	4980
	ataccctgc	caaaca					4996
15	<210>	31					
	<211>	3938					
	<212>	DNA					
	<213>	Homo sapiens					
20	<400>	31					
	agctgctggc	ccccctgggt	ccagaggagc	cttgccgccc	tcacctgccc	agagcctgga	60
	gccgacgct	cacccccagc	ggaagcgct	cgctgcccgg	gogtctggcg	aggtgtgccc	120
	tccgggtccc	agctccagcg	cttcgcgcca	gtcgcccgcc	tctttccgca	agcagggcgg	180
	ggactgggcg	gcatctaccg	agatctgcga	ttcgaggcgc	cgaggagccg	aagaccacag	240
	ctcagctcag	acggcgcct	agggccgcac	agagggtcgg	gcagtgccgg	agagaggttt	300
25	gaaagcgcg	ccgccaactc	gacagcgogt	cccagcgcct	tgagctcgct	tcctcctgct	360
	ctcaggaaaa	actgaggaaa	cgcgcttgg	tccaggggtc	ggcggggacc	gtggagacgc	420
	tgccagcatc	ctcaacagct	tggaaatccc	atcaccttgg	ttccctgaga	cttggaggac	480
	tagtaggaac	tgacagctgg	ctgacagaaa	acttatccag	ggagagaaga	gacaaaagtg	540
	aagtgtgaaa	ttttgaataa	tgttttcaga	tgctttgcat	tcagaataga	cctctgagtt	600
30	gggaccaag	ctgtcaactg	atcccaaatt	cctaagttcc	tgacttgacg	gtattgagtt	660
	ctaacctccg	aagatggatg	aaggtatgga	aatttcaagt	gaaggaaatt	ccttgatcaa	720
	agcagtccat	cagagccggc	ttcgctcac	aagacttttg	ctagaaggcg	gtgcctacat	780
	taatgagagc	aacgaccgtg	gggaaacccc	tttaatgatc	gcttgtaaga	ccaacatgt	840
	cgatcaccag	agtgtcagta	aagccaaaat	ggtgaaatac	ctgtagaga	acaatgccga	900
35	tccaacata	caggacaaat	ctgggaaaac	ggctctgatg	catgcttgct	tagaaaagc	960

ES 2 784 246 T3

	tggccctgaa	gttgtttcct	tgctcctcaa	gagtggggct	gacctcagct	tgcaagacca	1020
	ttctagttac	tcagctcttg	tttatgctat	aaattcagaa	gatacagaga	ccctgaaagt	1080
	tcttcttagt	gcttgcaagg	caaaagggaa	agaggctatc	atcatcacia	cagcaaagtt	1140
	gccctgtggg	aagcatacta	ctaaacaata	cttaaatatg	cctcctgtgg	atatagatgg	1200
5	gtgtcattcc	ccagctacct	gcaccactcc	ttcagaaata	gacatcaaaa	ctgacctatc	1260
	gccactttca	cattcttctg	aaacggaact	gacgcttttt	ggctttaaag	atcttgagct	1320
	tgctggaagc	aatgatgata	cctgggaccc	aggttcccct	gtgaggaaac	ctgcattggc	1380
	ccctaagggg	cccaagctcc	cccacgctcc	accctgggtc	aagagtcccc	cattattaat	1440
	gcaccagaac	agagtggctt	cattgcaaga	ggagctccag	gatattacac	cagaggaaga	1500
10	actateetat	aaaaccaatg	ggctggcact	ttccaagcgg	ttcatcacta	ggcaccaaag	1560
	cattgatgta	aaagacactg	cacatttgct	aagagccttt	gatcaggcca	gctcaaggaa	1620
	gatgtcatat	gatgaaataa	attgtcaatc	ttatctttca	gaaggaaatc	agcaatgcat	1680
	tgaagtccct	gttgaccagg	accagattc	taaccagaca	atatttgctt	ccaccttaag	1740
	aagtatagtt	caaaaaagaa	acttgggggc	aatcactac	agctctgatt	cccagctctc	1800
15	agctggcctt	accctccaa	cttcagaaga	cggcaaagca	cttataggaa	agaaaaagat	1860
	cctctcacca	tctccttccc	aattgtcaga	gtccaaagaa	ttgttggaga	atatcccccc	1920
	aggctcccctg	agcaggagaa	atcatgcagt	tttagaaagg	cgaggttcag	gagctttccc	1980
	tttagatcac	agtgttacct	aaaccagaca	agggtttctc	ccaccttaa	atgtaaatc	2040
	tcacctccc	atctcagata	tcaatgtcaa	caacaagatt	tgagccttc	tttctgtgg	2100
20	tcaaaaagtg	cttatgcaa	cagttccgat	ttccctaaa	gaattcaaaa	gtaagaaat	2160
	gttgttaagg	agacaatcat	tgcaaaactga	acaaattaag	caattagtaa	acttctagga	2220
	gatgggtata	aaacacatct	tcttcaaagt	tttatatcag	agaaacaaag	aactagagaa	2280
	gaaatcttaa	atgttcattc	ttttaaatct	cgtgattgg	tagtccataa	tggctagatg	2340
	gattaaaatg	taatgtgatt	tgtactaggc	gtcatgagca	taaaaataa	tacatagttt	2400
25	ctgttaaggg	aattctctca	aacaaaagga	aagcgatttt	tctcaatgct	tctaatttt	2460
	aacaatctcc	atgtagtcca	aatttgcatt	taaaaaaaa	tcaaagaaag	aaggccacgt	2520
	atgttgggg	aatttttaaa	aattttcaga	ttggctaaat	attttattag	gaaacagttt	2580
	tcaagtcaat	aattttttta	acatttcatg	ttaataaatg	agattgaaat	tttttatgat	2640
	ctctaaacca	taaaagaaaa	caccgacagc	tgtaaaatgt	tctaagataa	aaaaactcga	2700
30	gctacaaaga	aagaatgaac	taattcttta	caaagtgtga	ctgaagatag	ataaaactct	2760
	aattaaaaaat	ttaaaaggtt	aaacactgta	ttagaatggg	caactaaaat	attcgtgggtg	2820

ES 2 784 246 T3

	tcagtttaat	tagtgtcaaa	ctggcaagtc	agagttttac	aacctactag	taatctatgc	2880
	cgggtccttgt	tgtttggtgca	ctgtgttttg	ccttgctttg	ttttggtttt	taaacagact	2940
	tacctgtaaa	gttatcttac	ggaattattc	tttctccata	tcttttaagg	aattattcct	3000
	tctccatatac	atcttttaat	tctctgttatt	agttttggaa	gcttatccat	aagtttccaa	3060
5	agacaagatg	atataaaagt	taaaaagcat	tcctctttac	ttatatcaaa	ttattcttgt	3120
	ctttcaaaaa	gaaccaaaaa	aaaaaaattc	atcatggata	aaaactaagc	gcttgccttc	3180
	ttttaaaaag	aaaaactgat	gattagatta	ggttagctaa	aattaataga	ggcagtagaa	3240
	acttaatcac	aaaatgtact	aaatattttg	caatattaaa	caatgccttt	ttatttctga	3300
	tatgtagtta	ttagacattt	atatattaag	gataacttcc	ttagtgtgac	attccaatca	3360
10	tttagtattt	taggacctgt	gaataacttc	caacaaaatt	aatgaatacc	atattagtat	3420
	tataaaatat	tataaaagtaa	taattatatac	atctatataa	cttcaaagta	tgatgtttat	3480
	acaagaatc	cttatttcag	tctagcagct	taacaacaaa	ggataaatca	gactatacaa	3540
	aacctaaagt	tattaatttg	atgattgtca	cgtacaactt	tctttgcctt	ccaagtagag	3600
	gtgatcctaa	caattggcat	gatgcttttc	ttggtaattt	gatataagca	agttgtaatg	3660
15	tacatagtaa	ttatttaatt	actgtggctt	ttattttaa	aagtaattag	aggtttttcc	3720
	atttcatgtc	ttgaacaaca	ttaatattaa	ttacactaga	aatatttttt	gattcagaac	3780
	ttagaattgt	acctgatatt	tataggtatt	taaatgcttt	ctgcaagtta	aatatcgaga	3840
	aaagtacttg	acttcaagtt	gtaaggatac	aatttggaag	ggtatgtaaa	tagattagtt	3900
	cataaacaaa	atgggatcaa	taaagatttt	aaatatca			3938
20	<210>	32					
	<211>	542					
	<212>	DNA					
25	<213>	Homo sapiens					
	<400>	32					
	agctcagctc	agacggcgcc	ctagggccgc	acagagggtc	gggcagtgcc	ggagagaggt	60
	ttgaaagcgc	cgccccaac	tcgacagcgc	gtcccaggaa	aaactgagga	aacgcgcctg	120
30	gttccagggg	tcggcgggga	ccgtggagac	gctgccagca	tcctcaacag	cttggaaatc	180
	ccatcacctt	ggttccctga	gacttggagg	actagtagga	actgacagct	ggctgacaga	240
	aaacttatcc	agggagagaa	gagacaaaag	tgaagtgtga	aattttgaat	aatgttttca	300
	ggcacggccg	tcgccagcat	agtaccggct	cctcttcttc	tcccagaacc	tctgacacc	360
	aaccttggtg	aaagaaaagc	tgtgacaatg	ctttgcattc	agaatagacc	tctgagttgg	420
35	gacccaagct	gtcaactgat	cccaaatcc	taagttcctg	acttgcaggt	attgagttct	480

ES 2 784 246 T3

	aacctccgaa gatggatgaa ggtatggaaa tttcaagtga aggaaattcc ttgatcaaag	540
	ca	542
5	<210> 33 <211> 12351 <212> DNA <213> Homo sapiens	
10	<400> 33 aaacaggaaa agaaattggg atttttatga aaaatgttaa aggctagctc tgtaggatt	60
	tcccatgaca ttgcagtggg gacatggctg tggatgtgcc aaggaaagcc tgagctgttg	120
	actgctgccc cagtagcatc agagaaccac tgtgcttgct gagaccaatg actgccattc	180
	tggacagggc agcctttggc aacattcaga agcaagctgt ttgtcttcag tcccctctct	240
	tcagcctcca aatttgtcat tattgcttgg tggatggagt accctatact accccatggc	300
15	tctccaaaac ccttttcctc ccagccagga ggcccaggtc tgcgcattca ctactcgat	360
	tctgtgcatg ttgcctgtgt gcggtccatt gccctcacct cactttcctg gggaaagaaa	420
	aatgacact gagctgagga atgagcaaaa atctaggtag agacgtggga gaggctgtgc	480
	tagttggagg gcgtgaacaa aatcgtggaa gtttacaact gtctgacttt tctagggaaa	540
	ggcaagtaat ctgatgtgac tagagaaagg ttaggtgaga tctgtaagct ggtttgggtg	600
20	tagaaggaca aagaattgga gtgggaaggg taagtggcag ctagactggg aagggctgag	660
	caccaggtaa aaaagacaaa ataaaattgt ttctcctctc ccaggaaata ctgaacttta	720
	ggaggcaaca tctccatcct ggctctgtaa accaatcttt atcagaatga gaattttggg	780
	gtaagttgga agggacaggg ccaggcttac agcagcgggt ggcaactat ggtctgtgag	840
	ccaaatcaa ctgctgcctg tttttgtgtg gcctgtgact aagaatgatg cttacatttt	900
25	taaatggttg agtaaaagtg aaaagaaaaa taatattttg tgacttgcaa aactgtacaa	960
	aatccaaatt tcactattca cacataagtt ttcttggagc acagccacat acacttgtga	1020
	tgatttcact gcttttgtca tacaagggta gaactagaac tgaattgttg tgacagagat	1080
	cctctgtccc gaaagggcct aaagcatttc ctgtctggct ctgcttagaa aatattgcc	1140
	aagttctgtg ctgggcacgg tggctcacgc ctgtaatccc agcactttgg gaggctgaga	1200
30	tgggcacatc acctgaggcc aggagtctga gaccagcctg gccaacatgg tgaaaccca	1260
	tctttactaa aaaaatacaa aaattagctg ggcatgatag cgggcacctg taatcccagc	1320
	tacttgggag gctgaggcag gaggatcact tgaaccggg aggcagaggt tgaagtgagc	1380
	cgagattgtg cactgcact ccagcctggg caacagagca agactctgtc tcaaaaacaa	1440
	aaaacaaaac aaacaaaaca aaacaaaaca aaaaacaaag gagtcgagca ctagacagaa	1500
35	agttcagagc aggatggagc tctacaaaaga taacctaagt tttatggagc tgagttccca	1560

ES 2 784 246 T3

	aatcacttta	actaaatgta	ttaattccag	tggccatgat	ttccctagca	cttattctcc	1620
	tgtagcataa	ttggaaattc	taacaagcct	ttttttgctg	ggagggggga	gggtggaggt	1680
	tgtttgtttt	tagtgtgaga	tgtggattaa	gcatattaaa	aattttaaaa	taatttctgg	1740
	gaaatttgga	aaactgtggt	gacaggggtg	ttgccatgca	ttttaaggaa	cattcacatg	1800
5	gttgaagagt	catagagaaa	acattgtctt	tcagaatcac	tcattccaaat	caatataaat	1860
	aaattgctaa	gaccttttct	aaccttttaa	acattcatct	ttcttcatga	gaacagcaat	1920
	aaatgtcctt	tgtttctgga	gtctgccaat	cacctatttc	ttcttttagtg	tgggtaattt	1980
	aaaaaattgt	tttcataagg	ctaaaagaca	ttatgttata	caatgtctct	atTTTTTTTT	2040
	ttaatggcaa	ggcagacttc	attcaagggt	ggcacattgt	ggtaggtata	ggaaccattg	2100
10	caatgagtg	tgcagcaggg	gagggagatt	ggagtcaact	cactactgtg	tctttacaat	2160
	tttatttttt	ctttcagaga	cagggacttg	ctctgttgcc	taggctggag	tacagtggcg	2220
	taatcatggt	tcattgcagc	ctcgaatcc	tgggctcaag	caattctctg	acctcagcct	2280
	cccaaggagc	taagaatata	tttaagtttt	tttaaaaagc	aatccttact	tcctgaatgc	2340
	accaaattg	taatcccatt	ttgaccag	taagaggaaa	actcaaaact	gagagggcct	2400
15	ggttaaagaa	aagtgagtag	aggatataat	acaatgattg	acaggaaacc	ctggtgtggt	2460
	gtgagacaca	gcagtggagt	tgtaaagagt	cgctcccag	ttgatgtatg	ctatctcaga	2520
	atatccagat	ttcccagctg	acatcttctg	cctcccctgg	ggtggtgtgc	aatggagac	2580
	tgtatcagtc	agggttcagt	tgcagcaaag	ggaagcaact	ctagttattt	taagcagaaa	2640
	tgtttaatac	aaagaattag	ctgcatggaa	gtgctgggtg	aagagatggt	ttttgggaga	2700
20	ctcccaggac	acttgagagc	ttaccaccta	ggggaacaac	tacctcttcc	atgaaggtgg	2760
	ggagtacagaa	agttgctata	ggatcaggaa	tctgccattt	ttcctcaca	gatgcatctt	2820
	gactcccatg	aagctgggaa	ttacaagtac	cctgctggaa	tgctgctgca	gaaatatatc	2880
	tgactacca	tattttctag	tgaaattcag	ccaaaagcag	caggaaaatt	atctctgcct	2940
	catttccact	ttccaaacct	tgcaaaagt	catccaagt	gggataagta	ggtgatcaga	3000
25	acctagctg	caagagattc	caggaaatgt	agttttttta	tttctagact	ctctatgtgg	3060
	ggagacacac	tggaaggag	tgaagagaa	tgttgaggtt	aatcacctgt	atgtgcttcc	3120
	tattgctgct	ggaataaatt	ggaacaaact	cagtggctta	aaacaataca	catttgttat	3180
	ctttcatttc	tggaggtcag	aagtctgatg	gaggttttac	aaggctaaaa	tcaaagtgtc	3240
	agccaaggtg	tgctcctttt	ggaggctcta	ggggagaatc	catccatccc	ctgcctttcc	3300
30	cagcattaga	agactttccc	acattccttg	ctcatggcca	cattgctctg	acttccgctt	3360
	ctgtcatcac	atcaccttct	atgactctaa	ccttcacatc	tccgtcttat	aaggactctt	3420



# ES 2 784 246 T3

	gtgattacac	tgggttcac	tgataataca	ggataatctc	acctctcatg	attcttgact	3480
	taatcacatc	tgcgattccc	atcttccatg	caagaaacac	attcacaggg	attgatatgt	3540
	tgacatcttt	tgggggtca	ctattcagcc	tgccacattg	ttcatatcca	aattattgag	3600
	ggaaggagct	gatgtttatt	aactacatgc	tatgtgctgg	aaactttata	tatatatata	3660
5	ttatctcatc	aaacattcat	gacaatcctt	gaaggtggca	ctattactcc	tactacaaat	3720
	gagaaaaaga	gattcaaaga	atthtaaata	cgagtccact	attcagcgat	aaaaaaaaatg	3780
	aactattaag	ccatgaaaag	acatacagga	accttaaata	catattgcta	agtgaaagaa	3840
	gccagtctga	ataggatacg	tactgtatga	ttctaactat	gtgacattct	gggaaaggta	3900
	aaattataga	gtttataaaa	atatcagtgg	ttccagggg	ttaaggtttg	gggcagggcg	3960
10	ttgagggtaa	gtaggcagag	ctacattacc	ctacttatga	gcaatgagtt	ctcccccaa	4020
	aaaatcattt	ttctatcaac	caggctggag	tgcaatggca	tgatcttggc	tcactgcagc	4080
	ctctgcctcc	tgggtcaag	tgatcctcct	gcctctgcct	cccaaatagc	tgagaccaga	4140
	ggcatgtgcc	accacatcca	gctaattttt	tatttttggg	agacttggag	tcttgttatg	4200
	ttgtctaggc	tggctccea	ctcctgggct	caagtaatcc	accagccttg	gcctcccaa	4260
15	gtgctgggat	tacaggtgta	agccactgta	tcaggcccaa	atthttgata	tcataaacia	4320
	cctgtggcaa	atattcttgc	atatgcatct	ttcacactt	ctttgactat	tttttgctaa	4380
	tacattccta	agggtaggtt	ttctgagtca	gatggcaggc	acattgtaaa	caccttttat	4440
	atatatatat	ttagaaagtg	tcagtgggtg	gctggaactc	tgaacaaat	tagagctttc	4500
	ccctctttct	atggagagct	gactattaaa	catttagcat	actactggaa	agtgtgtaca	4560
20	aatctccagt	cctaacagta	tatgaggacc	cattatthtc	acctcaaaat	ccatactgat	4620
	gcttaaaaca	gtaatatgtg	ctagttgtaa	tttgatatatt	ctaatactga	tgattcatag	4680
	tacctgttgc	tatctctagt	ttttctthtc	tatagctcat	ttagaggtta	aaagaaatth	4740
	caggtatatt	tgggcatatt	tcatactcag	ccaggtcagt	atggtcatt	aagggaagc	4800
	aaatthtgca	gggatttagc	ataattatgc	aataattcca	aggagtctct	gcactthgga	4860
25	aaattgttat	ttataaaaac	ctthtaacta	attgtthttg	catacattgt	tgatctgcag	4920
	ggaacttggg	gacacacaga	gagggaaagg	gagagagtga	ttagaatctc	caggagctct	4980
	ttatctaatt	ttcatcatc	ataccatata	ctccatthaa	gcccacgggt	ggggatcttc	5040
	ctgaccttgt	tggactgct	accctggtag	ctagtaaacc	actctthtaa	tgtggttgtg	5100
	ttgcttctgt	tgcaatggaa	taaagatthg	gaccactgag	tcatctagtt	ctaagaagct	5160
30	gtgattctat	cagaaatgat	caatgggggg	agtcagctgg	cataatgaaa	atagcatgaa	5220
	tttgggggtt	aaggctccea	gaattctaag	tcctgctthg	ccacagggct	atgcattthc	5280

ES 2 784 246 T3

	tgtcattttc	tactccacag	cttgattggc	ttatctagcc	aactagattc	ctgcttcatt	5340
	ttccctaadc	actcctggta	gatcttttcg	ccaaggattt	acaaaggagc	tactcaagaa	5400
	attcccatgt	gaaagagtga	tagtcttcta	cttgataaaa	gcataggaat	agcccctttg	5460
	cctctagata	actgaatgct	cttagacaag	cctcagtttt	cacatgaata	gaatgagtac	5520
5	atgtgtgtta	gtctattctg	gcattgtaat	aaagaactac	tgagactggg	taattgaaaa	5580
	gaggtttaat	tggctcacgg	ttccacaggt	ggtataggaa	gcatagctgg	agagggctcg	5640
	ggtaacttac	aatcgtggtg	gaaggtgaag	ggaaagttgg	cacatccttc	atggctggac	5700
	caggaggatg	tgtgtgtggg	gtgctacaca	cttttagata	accagatctc	atgagaactc	5760
	actcactgtc	atgagaacag	caaggggaag	tgtgccccca	agaatcaatc	aggccccaac	5820
10	cctgacgatt	acaattcgac	atgagatttg	ggtggggacg	caaatccaaa	ccatatcagt	5880
	gtgtgtgtgt	gcgcgcatgc	gcgcgcacgt	ttagaggccg	gggggaactg	cactcaatgt	5940
	gtgagtctg	aagttcaatg	attctatgaa	accaattcac	ctgtatagta	aatgtggtgg	6000
	aatcacacta	gtgccttcaa	tagaaactaa	actcccttaa	aagaagcgtt	tgagttagct	6060
	tccagagact	gctatgtgag	aacatgatgt	taagttgtca	tatgtatgct	ataatttgat	6120
15	tctcactgga	agaatgcagc	agtgatgtaa	gaggctgttt	gtgaaattag	gccatcaggg	6180
	aatgcttgtg	ccccatgact	gtaaggacta	taattctctt	acacacagac	atcaaagtgt	6240
	attgcaaagc	cattggaaaa	attctaatta	ttttaaaggc	atatataaaa	tatgtacctt	6300
	ttattaaata	atatgaatat	aaagtaagat	caagttctga	ctctgagctg	tccatgctga	6360
	tgacctacag	agcattgcca	gcttttagtct	ctgcattgcc	ttcttttctt	gtaagtatca	6420
20	atggcagttg	cccactcaat	gtaagttgaa	gggtgcagct	gaaatcacca	ccgcatcccc	6480
	aaaatatctt	ttccaccaat	gcttttgaaa	ccaaaggttt	gccacttgag	atgaagaaat	6540
	ccttttttcta	ggtttttacc	tctagcacc	ccttgtttaag	aatattgcaa	tgtcaattgg	6600
	tcattactaa	aggccagaga	tagccaatgc	aatcaccaag	tgtatcagcg	tatcaatttt	6660
	tttttttttt	gagatggagt	ctcgtctctg	cgctcaggct	ggagtgcagt	ggcgccatct	6720
25	cggctcactg	aaagctcctc	ctcccaggtt	cacaccattc	tcttgctca	gcctctcaag	6780
	tagctgggat	tacaggcacc	caccaccagc	ccagttaatt	tttttttgta	tttttagtag	6840
	agacaggggt	tcaccgtggt	agccaggatg	gtctcgatct	tgtgatctgt	ctgcoctoggc	6900
	ctcccaaagt	gctgggatta	caggcgtgag	ccactgcate	tggccttttt	tttttttttt	6960
	tgagactgag	tctcactctg	ttgcccaagc	tagagtgcag	tggcaggtat	gagcttggct	7020
30	cactgcaagc	aacctctgcc	tcccagattc	aagtgatttt	cgtgcctcag	cctcoctagt	7080
	agctgagatt	acaggcacca	gccacaacac	ctaatttttg	tagtttttagt	acagacgggt	7140

ES 2 784 246 T3

	tttcaccatg	ttgaccaggc	tggctctgaa	ctccccgacct	caagtgatcc	acgcaccttg	7200
	gacttccaaa	gtgctgggat	tacaggtgtg	accactatg	gccaaactagt	tttctgggctc	7260
	ttctgtaaaa	aaaaattacc	atgaacttgg	aggcttcaaa	caatttaaaa	aatgctgtta	7320
	tagttttgga	ggccagaagt	ccaaaactaa	ggtgtcaaca	gggttggttc	cttgtggatg	7380
5	ctctgagggc	aatccattcc	ttgcctatct	cctagcttcc	aatggctgct	gccaatcctc	7440
	agtgttgctt	ggcttgtaga	cgtattgatt	cagtctctgt	ctccatcttc	acatctcatt	7500
	ttcctctcta	tccccgtgtc	tccagtttct	ttctgccttg	ctcttatgac	tcctggcatt	7560
	agattaaagg	tccaccccaa	atctaggata	aactcatctc	gagattttta	catctgcaaa	7620
	gatgtaaaag	aattccttgc	gaagaagcaa	agaattatat	ctgcaaagat	ctttttcaaa	7680
10	ataagtttac	attcacagg	tccaaagg	aggacatgga	catatctttt	tttttttttt	7740
	ttgtcagggt	ccaggggcac	tgttcaatcc	actgtagcat	gggaagccct	gataaaaaga	7800
	gacacaggac	aagtaagtac	tgaacggaag	ggatggtaaa	aagagagatt	tgaaaggtag	7860
	gatgagaaca	ctaggctgga	attgggggat	gggttgagga	ttgaaggata	aattctttct	7920
	ttcttttttt	tttttttttt	gtttgttttg	tttttagtttt	ttgaaacagg	gtctcactct	7980
15	ctcaccagg	caggagtgca	atggcgtgat	ctcagctcac	tgcaacctct	gccttgtaga	8040
	ttcaagcaat	tctcgtgcct	cagcttccca	agtagctggg	attacaggca	tgtgccacca	8100
	tgcccagctc	atttttttgt	attttttagaa	gagatggggg	ttcaccatct	tgaggtcagg	8160
	tttcaaactc	ctgacctcaa	agtgatctgc	ctgctttggc	ctcccaaagt	gctgggacta	8220
	taggcatgag	ccaccacacc	tggcctggag	aaattatttc	cattttactg	atgagcattc	8280
20	taaaagggaa	attgataatc	ttgaagaact	ttgcctgggg	ggttctcctt	gcaagggatt	8340
	ctttggcctg	agaaatcact	ggcccttatg	ctggtgggtgc	cataagagaa	tctgggaatg	8400
	tgactaggac	cgaaccatct	tgtgcgtggt	tttttggtctg	tttattcact	tgtctattca	8460
	tccatccatt	cagtaaacad	ttattgagca	ctttctttgt	tcctggaaca	tagaaggcta	8520
	cctccttctc	aggtgccttg	ttgggatggt	ctgtccctgt	ttgtatccag	cgttgggctg	8580
25	gcagtttagt	ggagttgcac	atggtcaagt	cagccactaa	gattacaatc	aagtagagtc	8640
	aaaattgcct	tagaaaactt	ctgaaaacat	ctataaagta	cacctaaatg	ggtttctcca	8700
	atctgaatac	ggggttcaga	cacaataaac	aatcgcagga	tggagataat	tgaggaacac	8760
	gatgaagcac	atcctaggat	gataattggt	tttgtcttct	aacattatct	taattcttct	8820
	tttcttccct	ttgccgcact	tacagaatta	aagttgtgaa	aattatatac	gtacttcacg	8880
30	tgattctagt	ctactgccac	acaaggctct	ggtggagatg	tagcaactgg	aatctttcaa	8940
	aaccgtgtga	gccagaggca	gccataggga	tattatgggt	gcttgtttat	tcagaagtca	9000

ES 2 784 246 T3

ctgttggtg gttgaaagag acatgggcta ctctctctg cttgaaacag aaaattccgt 9060  
 gagagactca cgcaacctac aagaggctgg gttgcctcat ggttcatctc aatgatgtcc 9120  
 tcataaagga aactccagtc aggtagccct caaagcattg aaaacaatgt aatTTTTcct 9180  
 gaaatctcat gaagctgcac cgaagaggaa acccatacat agcatatTTT cttaaaattc 9240  
**5** cgtctcacat ttctTTTTta atatttcaca catcacagat ggcagttacc taaaattccc 9300  
 actTTTTatc ccttaacatt ttgcaaatcc tccccaaatt ttttgcactc tggctcttct 9360  
 ttctccctgt cctctggttt tcctgatctc aatTTtatcc cctTTTtacct gtaaatcagt 9420  
 ctagatggct gtagtatTTT ttcatTTTct tgaccactgt ttcttctta tgagatccat 9480  
 aaagcgcaa gcaaatctac accgaaaact ctggaattaa ccaggatttg aattgagcag 9540  
**10** tttgatTTtg ctacttagta acaatgtgat tttgggtaaa tttcttaaac tctctgattc 9600  
 tctctctttt tttctaattt gtaaaataaa gccataata ccaaattggt agagatggtt 9660  
 tgaggattaa gtgaaacaat atattttcag attcctatca caatgctggc catattaggc 9720  
 ggtttaaaaa aatgctggtc gttttctttt tcttttcttt gtagaaagat ctctttagtag 9780  
 agacaaatca caatcaaaga ctttttggtt aatgtggaac gagatcatgt gaattagagc 9840  
**15** acatggcgct ctaaaggctc catgctaaga ataactgaca gatccatgct acggcaaaaa 9900  
 ttgttttgca atgggaacta cggctagggg tctgcctccc atcaaggatt tatttatgga 9960  
 ggaattcca aaatacagga agaatgttca aatagtagca gccaggaaat ttccaacatc 10020  
 tgctacactg ggctactctg aattggtctt tttggcttct ttctgtaatt tccattttgg 10080  
 gaaatcagga gttgtgactc acagtggtaa atcttcacac agttgaaata tgccttatta 10140  
**20** gcacaatcta ttttagtatt attaatgcca tagtataaat atgtacagca ttagaagtag 10200  
 tcaattagtg gaggtgatt tttatTTTtac ttctatgTTg gctttacttt caaaatatat 10260  
 gttatgTTat tattgTTTTc cttttcttca ttttcattgc tacctttctt ggtccaagcc 10320  
 atcactatct cttaggtagg tgatgagata gagcactaag aggtctggga ctcttccgcc 10380  
 cctacacagc agccttgccc tccacatggc agctggagtg atctttataa aaccacacat 10440  
**25** gagaacatgt tcctcctctg atggcttcac accacatctg gaataaaacc ctaacatcct 10500  
 accctgaccg agtgggcctt atgagttccc cttgcctctc tgagcacatc tactcccccg 10560  
 ctcatgctgg gtcggccttc tatccgtacc tttgaccatg tattccctct gctttgatct 10620  
 cttcccatct attcttacag ggctggcttc ttcttgccat tcaggtetca atatctctc 10680  
 agacagactc ctagcccctt aatctaacgt agacctgctt ctactccaat cattatcggt 10740  
**30** ctgctttatc tttgtagtgt gtgctactct ctgacatTTT gaattatttg ttttcttgct 10800  
 tattgtctgt gtaggggaga aaagatttct ttctcactc attgtaaagt tcatggccaa 10860

ES 2 784 246 T3

	caaccctatg	acaaaagagt	aataagcaaa	aagcttgcaa	atgcatttca	tgtaaactctt	10920
	acatgacatg	tgagccttca	gaagcaaagc	cccaaagacc	cagggaaaac	tgtattttta	10980
	tggacagcca	tacagaagta	taattgaagg	acaaaaggtt	ctgatccaaa	ggtaacaaac	11040
	tgggagaaat	gtagtaagac	ctgtttgttc	agtttcttct	gtgtgggcac	ctgccacatg	11100
5	agtgtcttca	ggggagaagg	aacagaagag	gtcggagagt	gacgatcctg	ggttttatgg	11160
	tctgcttcag	gggaggaaag	cctgagagaa	ggtcagagac	gccttcctac	ttctgctggt	11220
	ttttcagttt	ccaaggtgtc	agtcataatt	tggggatatca	cacctgaagc	ctctgcgaga	11280
	ccacaggtct	gtgtgcctgt	ccagtgtctg	ggacataaca	ggagcttaaa	aagcattctc	11340
	tccacacggg	gatttaccgt	agacatgttt	gtgaaaacca	aacaaatcct	taattcctct	11400
10	cccctgcaa	ggtgtccttc	ctccatttag	agctgcctt	ttccagagtt	cccagggctc	11460
	ctgggtcatt	accaggttcc	cttatcacia	agagaaagag	tggaagtttc	ctatgttttc	11520
	tctcctcaac	ctccagtccg	ttttctccat	tccaggctgc	ctttgctgtg	tgcaaagctc	11580
	aattgtctgc	ctcaatttta	ataattcagt	gttgaatggg	cacatttgca	tatgcaaata	11640
	tttgaagaat	tgaaatggca	attaacagat	gtatatttgg	gattaattta	aaatattttt	11700
15	tgtcttttcc	tgtttacttt	catgggccag	cagtaattct	gatcttagtg	acttgctgtg	11760
	attcctccat	ccaatgtggt	tccaggtcta	ctctagccag	agtcagattt	ctaaaagatg	11820
	ctgtgctgtc	tttgaatacg	attgaaaaat	caccatttta	acccttttat	agaacctaat	11880
	aaagcatttc	agaagtacct	gcatttcttt	ttatttctac	ctggttgatg	agcctctctc	11940
	tttcaaggct	tcagctagag	gagaattgat	caacacgtgt	tattataatt	atgtgaggac	12000
20	ctaccatgga	aagggcactg	tgctggaagc	agctggggga	atatagagag	gagtaagacc	12060
	aaagccctgt	cctctggagc	cttatggttc	cacaggaagg	agaagatgtg	aagactcggt	12120
	acctgaagtt	gacatttggg	ggatgacaca	gcattcaaca	caaacattt	gccatcccc	12180
	aaaaagctgc	caactgttac	tggatggctt	tggatgattc	catgacattt	ttccaaaata	12240
	caatgacttt	cctcttgtgg	ttttgtaca	tcaacaaatc	ttttcaacta	acaactactg	12300
25	ggaaaagtga	atctatagaa	gtttattatt	aaataaacta	acatgaaaat	g	12351
	<210>	34					
	<211>	31532					
30	<212>	DNA					
	<213>	Homo sapiens					
	<400>	34					
	tccctccctt	ccttccttcc	ttccttctct	tcttcccttc	agtttctctt	ccttctaagt	60
35	cccctgtcc	ttaaaaatgt	ctccattcag	gcactatgca	atgtgttaac	tccacttctc	120

ES 2 784 246 T3

	aaagataaat	ttctggtcag	agtgttctat	tcttgctggt	ttcattttcc	cacctcctat	180
	ttactcttga	atccacagga	atctaggttc	tactcccaac	aatttgcaaa	agcttctttt	240
	tctaaaatca	caaatggtac	tgctccta	taggaaatcc	agtagacagt	tttgagttct	300
	tatcttattg	ttctcttaca	cattgtttga	acttctgaat	tatttcctcc	attgtagacc	360
5	tctctgtttc	ttcagagttc	aaagcttcac	attctcctta	cagctcacta	cccactctcc	420
	ttctgtttcc	tacatggcct	ctgcctgtgt	caaaaatgtg	aaagaataga	gctgtgctac	480
	ttccatagaa	acatgagggg	gtatattcat	aaattctgca	agacatgtac	gcatacaaaa	540
	ttaaacaaca	acaagaggaa	tgtgctcaag	agaacacatg	acaggaactg	tggttcagaa	600
	gaagagcaga	tggagagtgt	gggtaagagt	cgttctgtaa	gcatcatggt	gatataggat	660
10	gagtgtggca	ttggggctgc	aaatgccact	gcagtgggat	cccagcactg	acagccatag	720
	ggccttgggc	aagttacttc	ggcacaatga	acactctatg	ggaatagtaa	tagttatgtc	780
	ctgggactgt	tgagaaaatt	aaacaaaatc	cttaagccat	tatttgacgt	agtacctagt	840
	atgtgcttca	tgaatatatg	ctcattttca	taaagaaagg	gagtcttgag	aacacttttt	900
	tctcctctct	cctgcatcca	agcctgaaga	ggcagaagga	actccaggag	ttgaatggaa	960
15	gagcacagaa	gggaaacagt	gagcatcggt	actactgcac	cctcatccca	gctatgatct	1020
	gctaatectc	agatagcctg	agacggggta	cggaaagtgt	tagatgacca	gcaggttaga	1080
	caagaccttt	gaccaatgtc	agaaaggtgc	ctggaaaagg	tgtgggacct	ggctgagatt	1140
	tcatctgggt	acagagaata	atttaaaaag	cttgctggaa	ggcagtggtg	tgatgaaacc	1200
	atgcaattct	tgtttaattt	tacctatata	aggtctgtct	tgttcaataa	atgagttata	1260
20	tgtacttaca	aatcattaac	aggtagtact	atcaaaccat	acttaaaata	tttctgagtt	1320
	ttcaattatt	tccttttcta	gataaagaaa	tagcgacaga	ggcaccccag	tggatgtccc	1380
	tgcacacctc	cactttgggg	actattctaa	gagcaggagc	ccaatggggg	ctgcaaatgc	1440
	cactggaggg	caggtgatcc	atgaccagtg	aagacagaaa	aagaggagaa	tgtggtagtg	1500
	atggaggttg	atattgctgt	ggtagaacat	gtggaaggaa	aatgaagata	ggcaaaaatt	1560
25	gaggctcttc	agattcattc	catgtagggg	aagagggggc	aaaagtaaga	gcattgttca	1620
	agaacaacca	ggtagaaaca	aaaggaacag	agaatgtggt	gacctccaag	ggaagaaagg	1680
	aaageaaaaga	eatttgtggt	aeagteaaaa	gaggaeagte	eagagtaaea	aggatggagt	1740
	atgtgagtat	eeeeaagagg	ettaeaaaaa	ggaaetttae	ttatagataa	geaatgatag	1800
	ggtaaaattg	aaaagaeta	aagagaaaga	aaetaagaea	gttgaeaeae	tggagaaaaa	1860
30	gtttatgage	eeetaetaea	gteatgeatt	eteaaaataa	etgetaaaaa	aattageeat	1920
	eteagtaaag	eaagaetggg	taagaattta	agaatetete	eateetgggt	tggeaagtga	1980

# ES 2 784 246 T3

	tgggeagaat	aattgaaeeag	aeateeteea	geteagttee	tgggatgeag	agatgetggt	2040
	ggaageaett	tgtageaeag	eaaggtgaga	gtttgaaggg	getteaettt	etgaaaaate	2100
	teteteteata	ateetgtttt	teeattteag	aaagaattta	aateaaaaae	ettaatgtte	2160
	ttgteatete	tgaeeaeatg	etgaatgeag	gggaaaeae	etgaagtagg	aatttetgat	2220
5	eteetetette	etttgttgte	atteaagaat	aeaaeteag	ettttaeaat	ttgatgteet	2280
	tetaaettga	ggaaeeeatg	eeattaegaa	eaeteeeett	geettagaag	aagatatgtg	2340
	agttgggtet	tagggagaet	aaggaaagaa	aaeteteett	aetggggaea	aaeagtatee	2400
	tagaaeatg	gattetetat	eagtagette	tgaeeeeagg	ggtgteaeae	agagetttgg	2460
	aettaggaaa	agteaeatag	eatetttgag	eatggagtee	eaattggtaa	ttatgatgta	2520
10	tgttgetgee	tgatggttea	ggatatttee	ttgaaagaet	tettteeata	gegetetgat	2580
	tatgetgttt	gggattaaea	gaataggeat	ageggtttag	ataggaaatt	ttaaaaatga	2640
	aaaattaaag	aateetggaa	aataeaetgt	aeattetgee	aaggtttate	aatatggatg	2700
	etggtatagt	aatgagaata	aateggtaaa	ttetttteat	aaaatgaagg	aaagaaatta	2760
	etatgtgete	tttaaaatgt	gttgeateag	tgeetgattt	gattgtaagg	gteaeatett	2820
15	eaagaeatgt	gataeeaeae	tttataeeae	attatageat	tgtetaatgt	tgtaaagttt	2880
	ataaattget	tteaeateagt	etteatetga	tteteagaat	gaeetatee	aattgggaat	2940
	atgggtttea	ttagtettae	attaetaagg	agatteagag	agteteaatt	ggeeaaeate	3000
	atgeagttaa	aatgaeaaa	tggggatttt	gaaeeeaagt	etteetgae	eeagaaeeeg	3060
	tgatetttgt	aetaeateat	getteetgag	aaattaaatg	gaeetgtett	geagaaetgt	3120
20	tettetteta	aetagggate	tggaggagte	teaagtaaat	aggeagatgg	eettagggag	3180
	ggatgtetgg	aageaeetgt	ttggagteee	ageaggttgg	tggttttetg	tetgtaggte	3240
	tggeagetgg	geatggtaae	ttageeatgg	aaaggggetg	eaagaggagg	teeteagtge	3300
	teagaeaeag	ggeagaggae	tgtgtggete	etgtttgttt	eteagatet	aetetetaea	3360
	egetteaeae	etgetetetg	tttgggatgg	aateaaagga	eeeeettgee	eeetggetta	3420
25	tggttgeett	ttgeeaatgg	aageagtgae	agaggateag	attagaggta	gaaggggagt	3480
	gaggaaggag	agtgaagagg	gataaattet	eettetgeet	etgateetet	gtegetgett	3540
	ccactgccac	ctactgcttc	cattggcaaa	aggaaggatg	ccgtgaggtt	gccatgagca	3600
	tgctgcagcc	ttccagtctc	ctataagaca	gcttccccat	ggggtccttt	tcctattcct	3660
	cctcttgccc	cttctgacct	agccccaggt	acagtactgt	attacttacc	ttctcttata	3720
30	ccttttccat	acctttgtcg	atggctctct	tgttggactc	ctcacattac	ccagtttgag	3780
	tgtgctttct	atctctgat	gggctcctgg	ctgatcagac	ctgaccccag	aggacctggg	3840

ES 2 784 246 T3

	taccagaatc	taatgcctgg	attaaggcac	atgagcaaga	cgcagaccct	gcaaattggaa	3900
	ttgaaattac	aatgacctag	aacaagggag	atagggccaa	gcatgcccta	gtgaacgagg	3960
	gacccaaatg	gggtaggact	gggaagaaat	ctgacttgag	actgatgggc	taggactctg	4020
	ctagaagggc	ccttctggtc	ttccaggaga	caagactatt	cacagacgct	gcaaattggg	4080
5	ggtgcaagga	aggcagcagg	agctcaatag	ggtacagagt	ctaaggagag	ctggaggcat	4140
	gaaccaagca	gagtggctgg	gtgtttgaat	ccttgcttct	agtggcagag	actgaccggc	4200
	tattcatcga	accattttt	atttcctcct	gggcacatgg	actatggtcc	tcgtgttctt	4260
	gagttctagc	caatggaatg	tgggcagaag	ggatgtgcta	gcccttaaac	cttccttact	4320
	ctctcccacc	tcttgccagc	tgtaaggaag	agtcacagta	acatctatta	tttacttatt	4380
10	cattctttca	ttcattttatt	tcattcactc	cctgaaacaa	gagccaaggg	tacagcctct	4440
	ctaggagggtg	actctcatgc	ccttttatta	tgctggcttg	atactaattg	agatgcggtt	4500
	gaccattgca	aaaaccctg	ttgagacaca	gcagagttgg	ccagcattct	tatggtactt	4560
	cggatgtgga	tcctgtgatg	gctacagcat	aaaacactgc	attagcctcc	atcttctatc	4620
	ctttttccct	tcaaaaatga	tgatcatttc	attgagtgcc	caccctgcac	caggtgcttc	4680
15	tgatacttta	tgaaatatga	tgttttaaat	atgaaaatgg	gggcttacat	aatgctgtga	4740
	ctaatttgag	ccttgctcag	cagttaggca	gcttcaatct	tcttattaat	atacagggag	4800
	tggttgctga	taataggcac	atthttcaagc	ccaaaggcat	cttgacagtg	catgctgagg	4860
	attgggggaa	ataggaaacc	tccaaggaat	actcctgata	tctttgcatc	tgtatacaca	4920
	tatgagttgt	ccttagtgttt	ttaccataga	agatccttaa	aagttgacac	aggcaggctc	4980
20	tgggtatgtg	catcgagaga	tatttccag	agtctgtttt	tttgacatcc	tttcaccatc	5040
	atthttatctc	ttagcaggaa	tcagttgccc	aacaactcct	gtgatcatct	gcaaacctct	5100
	ttacagtttt	cagtgtctca	aggtaataca	taaagaagga	agaaacaaaa	gagtatgagt	5160
	atcactattc	atggatacta	attaccaa	gtactthttt	gaattaaatc	cttgthttgaa	5220
	tggaggttgc	acagagatga	atgtthttggt	agcagacttc	tcgaggccat	ggcaggttta	5280
25	aataatthttg	cgccacggga	gacaaatthtt	cctgatgttg	gaatccta	gtgggtgaac	5340
	catgtgaaat	gctgctthttca	gcaaggagct	gacttcccag	gctccctthtt	ctgagggagt	5400
	tgggcagagt	tgggggtggtg	acagtatggt	ggaggcagaa	gcttctatgt	cctgattccc	5460
	ttgtactaga	aatthcatta	cagatacttg	tgcacatcag	atgcattggt	ggatcagagt	5520
	gtcgcagtgt	cgthtcctthttca	cagatgthttat	thtcagathttaa	gccacagaca	gcgggggagtg	5580
30	gacgtggcat	gcaththttcct	ctthcaththttg	tagcgtctca	tctcccagca	gtcaththttgca	5640
	gagcaacatt	actthgcata	caaththgagcc	gatctgat	thttaggthttat	gatgtcaaga	5700



ES 2 784 246 T3

	tatattatac	tgacgacctac	tgactttata	aaaaagtagc	caaagaaaga	aaatgattag	5760
	ggccgagttg	ggattgaaag	ggacctgagg	gaatgtcata	tgttatgaga	atcttaaaag	5820
	cttctaataga	cctgttattc	ccaagggcg	cttgctactg	tgacgattga	atcttttttg	5880
	tactaaacaa	gctttgcatt	taatgccatc	tttttttatg	gtctgagacc	cacaagaatg	5940
5	tgttttacta	ttttctgaat	aaaatacttg	gtcaacagtt	tatcatgcaa	tcatctttct	6000
	ttatgcttcc	atgactatat	ttagtaatac	tatattttgt	attattaaat	gtattttatga	6060
	attcttctgt	tataaacttt	ttctgtttaa	ggatgtttga	cagtgtatat	cttaaaggcc	6120
	aagtgtcatc	tttgcttttg	taaatatatt	ttatagtctt	aaactgaaga	tgttgtttgt	6180
	gagcattttc	atggcataga	atgtatgcac	aaagcttagg	attaaagtaa	gccttttaaa	6240
10	aacagcaacc	gtgattatca	ccaaatcaca	gtgttttttag	ggtaacatgg	actatgggcc	6300
	tcgtgtgctt	catatgaata	atcccacctc	ccttctacct	ggtaagctct	atgacagaag	6360
	atgctgtaca	taacaggat	tcaataaata	tttgttgat	ggatagatgg	attaatggat	6420
	gaatggatgg	aggaagtaga	tatgtgtgtg	atgtgggggt	gagggccgtg	ctttttctgt	6480
	gagtccagac	ttaagtcagg	ctgttttgca	tactgagct	tcacaaacat	ttactggaag	6540
15	tcaatgtcct	gctgttcatt	tgaagaaaca	aaagtgcaga	gggctaataga	actcttagga	6600
	ggatggcact	gctttccatt	aagcaaagcc	agcgtatctt	tggttagaa	aatgagttca	6660
	aatttgaaat	tgctttctcc	aaaatgggtg	cagtctttca	aattacagaa	ctctcctgga	6720
	aattggagaa	taaataaaaa	tgcaaggatc	cttgctttgg	tgagtaagct	cacaaggatg	6780
	gaaataggca	caaaaagtg	cagtgtctct	gaattatcac	tgagtgtgag	tttctaagag	6840
20	aacaaatcac	tttcacgcag	ccttgacaat	cacttgggta	gctcaacccc	aggaaaggct	6900
	atgaacaggg	ctgggaagca	gaaataatgc	attattttgt	tgagcttatt	aacatttggg	6960
	cagaaaggat	agattccttt	tacatagtta	ggcatcattt	taacatgtac	attataggtg	7020
	gtggcttttt	tgtaacagaa	ataagtgtag	ctatccotta	acaggagcaa	tttcccttca	7080
	tatttcttgc	agctcttgtc	ccatgaggcg	acagatgagt	atgtgatagc	aatactgatt	7140
25	ccagtgtctga	gatgccatct	gatccactgg	gagagctggt	ggattcaaat	caatgtcagc	7200
	tcatgccttc	tgggcagcag	tctttcagtg	caggatttac	tctatggatc	agaaaaacag	7260
	ctggtgactt	gcaatatatt	atacaaaaaga	cctttaaaat	gttttgttgt	ttocagctat	7320
	gatgtagtgt	gagtcacttc	aatttttttt	atgtgtgtgc	ctttctgatg	gaacaaaatt	7380
	ccgttaagca	actggtaaaa	acataatagt	aatttaaact	gggtgtctgta	gaatattgag	7440
30	actgaagagt	gattagaaat	aaggttttac	tttaatgtgc	atcttttagtg	taaaaatttt	7500
	acccatggaa	agcattttatt	ggaaatcctc	tcttgagatt	ccctgtaaaa	tataagcata	7560

ES 2 784 246 T3

	tgccaaagcc	aataatcctt	gtgggttact	tggaattatt	ggaaaagaat	aatTTTTacc	7620
	gagttatTTT	gctaagttgt	gggttacagt	tatttgTTTT	caggtatat	tgtttgtaca	7680
	tgacagaatt	ttggactttc	ttctttcctt	taggtcaagt	TTTTTccca	taaaagatgt	7740
	ataataattc	atattaacat	taaaacattt	atTTTgggag	gaaatactca	atgctTTTtag	7800
5	tcccagaact	agtcttcttt	ccctcactga	gtcattTTTTg	gtTTTTtatac	tttggTTTT	7860
	catgggTTTT	tttaaagag	gtttctttct	cactTTtaaaa	aaaaaagtat	tttctgtctc	7920
	tgtagtccaa	gtttctggta	acaattagga	tcactagtac	agaaatacaa	tgtatgtcta	7980
	gaaaaagta	caaaaataaa	ctagcaagat	tcttggatgg	tctggatacc	taaaagacaa	8040
	gggattttaa	atTTTctgag	tgtttgggtga	gtccagttag	tggctatTTTg	gtatcaagtg	8100
10	ggtatcccaa	atctgatgtg	attagccaaa	tttccacacc	aatcatccag	agccaatgcc	8160
	agaatgacga	cctcgcatac	atcaattcaa	tggtatgggt	ttcccagttg	ctttctgtag	8220
	ttctctgttg	aatactTTaa	tgaaataact	aaatagacgc	cagccatctt	gggcatctct	8280
	gtggatgaag	agctatgtga	aatactatca	tactcaatat	ttgtaggggg	tgagtcttaa	8340
	gtctgtggtc	ctgtcaagga	gttcctcact	acatttgact	gcaagcataa	ttagcaattg	8400
15	gtgttcagtg	tgcaaggaac	tttgattgat	tgggctgtgt	tttaggcctt	gtcaacatga	8460
	acaaaacata	tcatcaggtt	cgtccatctt	gcttagctac	TTTTtatatgt	acttgaatat	8520
	tccagcaata	ctaatttcca	ctgatcaatt	aaggaagcaa	tcctaaagga	agatgagatt	8580
	aaaagaagga	aaaagaatca	caaaccaaaa	gagcatttcc	tgaagtgtgt	ccaagaacac	8640
	taattattgg	agaagttatt	aagatttggg	ttgggggggag	gtgggtaacc	cagtgaataa	8700
20	agtttgagaa	atgctgagat	aagccaagtt	agcattTTTT	tcctatattt	tagggctcat	8760
	cagagctTTT	aacatgccat	gaacattata	aatctcaaaa	agggagacct	agcttcccca	8820
	acttaatgga	acacctcctc	tacatcccac	catctgattt	TTTTcccca	agaatTTTT	8880
	gaaaaacaac	cttttgggat	gtttgcttaa	tacatgtgga	cttaaaatta	aataataatt	8940
	ataaataaatt	aaattcagtt	gtgttcttgg	catcataaat	ttatttgact	tatcatttat	9000
25	tgaagcctg	ctatgtgcca	gacactgagc	taagtacttt	tacatatatt	aaaattgtaa	9060
	tagcccatg	aagtaggtgc	tattttacca	ttttaatgaa	taaggcactg	aagcttagag	9120
	aagcctggtg	atTTTcccaa	gtttgcagaa	gtaggaagta	gtgaaggtag	aatccaaact	9180
	taggccataa	ctgataacca	tgatactata	acaaatagtc	taaataaaat	aataaaaaatt	9240
	gtgtgtttat	gtctgtaaga	gaaagctgga	ccacagcttt	ttagatccag	agaaagggtg	9300
30	acctaaaaat	tttcaggaat	tattaaatcc	agttctcaat	gttttagagac	ccagaacagt	9360
	gatatcattt	tctaagtata	caccactaat	tgatgaacag	gaaggagctg	gaaccatact	9420

ES 2 784 246 T3

	ctttttgact	ctttgatgat	aagatgccac	gtcattcttg	atggcttttt	aattagttga	9480
	cttcagaaaa	cgaacaaga	taatattgct	tttaaaagtt	tagatctggt	ttgttagtag	9540
	attataggaa	tttgctatta	ggttcattgt	ttcatgatga	aacattgcaa	atgttcattg	9600
	gaaatgtttc	ataccaaaaa	acagactata	aataaaaggt	tatttaaaat	atttaaaatc	9660
5	atgtgagtgt	gaaggtgagt	gagaaaatat	agtgtccagg	aaaagtaatg	tcaacaata	9720
	gcatttgaat	aataaatgac	tcaaccgaag	tagaatatag	gctttttttt	tcttgaggat	9780
	caaagcacia	cctcagcttt	atztataggg	gtaatagtca	tctctgtagt	gtgaaatgaa	9840
	atggggcact	attatgttgc	tgcacagtct	aaatttctac	tcttacatac	attatattac	9900
	attaaggcaa	tatgtttcag	tagccatctg	tttaaatgaa	aataactctg	gagcagaaat	9960
10	acgtaaagca	gtttctcaaa	tattaaacc	agtctgagct	tgggcttggc	atatctcttt	10020
	ttattggtgt	caggaaatat	aaaagataaa	ttttgatggg	aggaggctca	tatggaaatg	10080
	gtcagaaaaat	gaaagaatgc	ctggggcagg	cagtctaagt	acaggcagca	atztatccca	10140
	gaagaaagga	atgtaggaag	tgaggtcacc	cagaggaaag	atgaccttag	gagatgctgg	10200
	atggtgctaa	agacagtatt	caatatcgta	actttcaacg	atataatcca	atcttaggga	10260
15	ttgcctcttt	accatagaga	aacatatatt	tacaagcctc	tcagcttttg	taaattgtta	10320
	cacttttttt	aatggttgg	gtaaaggaaa	gtctggagga	atctaactct	agcactgtcc	10380
	ttgagcagct	ctcatcaagt	ataacagctg	ctgtgtatgt	aagagaagtg	ggggatgact	10440
	gggaaagtgt	ttccagtgtg	atctcctgaa	atagatagaa	gacttgcaat	ttcacaccaa	10500
	gatccacagc	ctggccttgt	tttctagtgt	cagatctgaa	gtagtagtag	tccatctgtc	10560
20	agcctgacat	ctttttatgc	tccctttcaa	tcactccag	aggaaaaaaa	atattttaga	10620
	ttgattctga	ttttggtaac	tttcttatta	cctatcagtt	taaaaacatt	aaaagatagt	10680
	agcagatttc	atcttctctc	atcctgcagg	tttttaaagt	tggaaatttt	cccattctat	10740
	ttgggtccta	ggaatagtga	tataactgac	agacagctga	ctaataaatg	aactggagaa	10800
	caactattct	atgtgtcttt	acataaattc	tttaaaaaat	gatagaattg	gtttattcat	10860
25	tcactaaaca	gacatgaacc	aagcgcataa	cagaacactg	gaaagttaaa	ttcctatgag	10920
	ggagatgtca	ttctgggctg	aacaaggctg	tgcaagaaga	aaagggacca	agaatctgac	10980
	taagaatgaa	gatgatgatg	ggcacccttt	gtggatgcaa	agatcagtag	aatagggtgc	11040
	ttgcaccaga	tagattcaag	tggaaagagt	gatgggtgat	tcaggaaaat	cctcaagggc	11100
	caggagacta	attaaggcca	agtcctgtgg	agagcaaaat	ccaggagatg	tatcatcatt	11160
30	tgccatatga	ggaagtgggg	atgtgctacc	tcagatccca	aaaaaagaaa	ctctttgctt	11220
	tccatctcac	tttgttttgt	ctattgtgtt	aggatgatcc	ttatacatga	aaaagctcaa	11280

ES 2 784 246 T3

	aaactgactc	aagattccag	gttttggaag	agagccattc	atgcaatgcc	aaagtacaca	11340
	tcaaaaatgtg	caacagagag	tgtggagtga	caccatcaac	taaagaacta	gtcaaagttc	11400
	ctacgagcat	ggcgccatac	agccaatcct	ccttcttgg	tctcagtgtc	ttcgagggta	11460
	gctcaaaggg	tactgtcac	agtgaccatg	aattgtacag	gaatcctgta	gacagtgaga	11520
5	agatcaagcc	ttaagaaaca	ccacatttat	ctatttggag	gtagagtact	gtttgttttg	11580
	gtttgatttg	gtttttat	gatttggagg	ttttggctat	aaaagagtgt	cattttgtga	11640
	ttcagaaata	ctcactcttt	aaaatgtag	tttcattttt	agcgtcctca	cattcttttg	11700
	gttcctttta	ttggaatccc	atcttataac	ctaatacctat	taataatttat	aggggtccaca	11760
	tgaatatgaa	attaactagt	aggttccatt	tatgaaaagg	gatcaactat	taagtcctat	11820
10	attttgttct	ttaactttgg	aatttgattc	atgatatctt	gtaaagcttt	gaagtcaact	11880
	gacagtatga	cagatttaca	aacatctgtt	tgaatttga	ggcctttcca	tctcttctga	11940
	ttgaaagtaa	ttatactcct	cttctgcacc	tgttgcatg	ttttatggtg	tcatatactc	12000
	gttgagtgca	tgtacacgta	tctgtcacgt	cacttagatt	gaaagcttct	tccagccaga	12060
	aatttgtgtc	atttgtcttt	ggatcctcag	tggaatcag	agtctggcat	atagtttatg	12120
15	ttcagtgtat	ttctaaggag	gtagattta	aggaggtag	agatgacatc	atcatagtaa	12180
	taaaataagag	taacttttct	taaagactgg	atctctatac	ttgggaaatg	gatattactt	12240
	tgaaggggag	aagagagtga	gagcaagagt	gagaaaagaa	gaaaatgaat	ggagttcatg	12300
	agtacctagg	agttgtttgg	ctagaataaa	acaagtgttt	cattacagga	aatgaagata	12360
	atataaagag	cagcttaaac	ttttttttag	tggactaagt	tgagaatcct	gtggagtgta	12420
20	gagttttcat	gtctgggtag	tcatgccttt	cttatagtta	tggagggtta	ggtatgaacg	12480
	gggaacattt	aaccatctga	attgaccata	ttaaccgaaa	atggcagtaa	agtaaccata	12540
	aatgccaggg	aagtaaccat	gcctacctag	gacacatcag	tgataagaaa	atgcttcttt	12600
	caacttttta	acagatttat	tgaactgtaa	tctacatacc	ataaagttca	cctttttaaa	12660
	gtgtacaatt	caaaggtttt	tagaatattc	gcaaagtgtc	atacctgtca	ctgtaacctta	12720
25	attttagaac	aatttcatca	tcctctcccc	aaaataatca	ctgcccattc	tcccctcact	12780
	tagtcccaaa	tcctaggtaa	tgactaacct	acttttctct	gtacatttgc	ctattccaga	12840
	catgtcatat	aaatggggtc	atataaatatg	tgatattttg	tgactggctt	ctttctcttt	12900
	gcataatgtc	tttgagtttc	atctgtgtca	tagcatgtat	cagtactgca	tttctttttg	12960
	ttgtcaaaaa	attccattgt	gtggatatgt	cacattttgt	ttaataagtt	gatgaacatt	13020
30	tggatttttt	caatttttgg	ctattataac	cactttgttg	aaatcaataa	accacaaatg	13080
	tatgggctta	tttctggact	cttaattgta	ttctattgat	ttatatgcct	atccttatgt	13140

ES 2 784 246 T3

	cagtatcaca	gagtcttaat	tactgtagtt	ttataataag	ttttaaagtt	tggaagtgtg	13200
	agtgcttcat	ctttgttctt	tttcaagatt	attttggtcta	tttgggttcc	ttgcatttct	13260
	atacaaatct	taggatcagg	ttattatfff	atgcaaaaaa	aggcagtcag	tatffffata	13320
	aggattgcat	tgaatctgta	gaggaattta	gagcatattg	ccatctttgt	aatgtcaagt	13380
5	gttccagagg	agtaatgtca	gcaaaatgga	ggaatatagg	agctttctac	cctcatctcc	13440
	ctacagtgca	ccaatttaga	cagccacca	tgaaaaagat	taactttgtg	ggagtctgag	13500
	agtccagaga	agcttcagca	tgttcttgg	ccaaaaatct	aagaagtgat	gcactgaaga	13560
	aghtaagaag	aacagtttca	ttttaccac	attactctc	ccccatttg	gcataggtca	13620
	gtgacaagag	agaccacgt	ggtccacaag	tttctccat	gaagggaagt	aaaaagcata	13680
10	gtgaatgagc	tccggcctt	cccagctgtg	caggatgcac	tcaagaggcc	tatctctttc	13740
	ttgccccacc	cagaatactg	aaaaaaaaatc	agcataactg	agtagctggg	ggagcctggg	13800
	agcagggag	agaggaagg	attcacagca	actaaccagg	aaactcaaca	aaggccatg	13860
	taacctacta	accgtcttct	cagattccat	caggtagtcc	acttaaagc	catttgggat	13920
	gcctcaacag	cacaccact	ccaaatgtcc	ccatgaggac	ttccaatgtt	tgtcatggct	13980
15	caccttcaca	cacactctgt	gactggatcc	ctgtgcattt	ccctctcatc	ccctccagtc	14040
	ttctcccaa	tgcacagtga	gtgtgagcct	ttgcagatgg	cttgggagcc	tgcacaatca	14100
	gccagcttgc	ctctgcaaga	ctgggagaag	gcacataaac	ttgagcattt	ttttccctag	14160
	ggcatcacc	tgaggaaaaa	agcagaggca	ctgagcatcc	actgtgactc	agtgagactg	14220
	tgagaaggca	tacaatctta	agatacga	gagaagatga	gagtgggtt	gatgcatcca	14280
20	tagcaaaggt	ctgagactat	gtacagtgg	tcatgcctgt	aatctcggt	ttttggaag	14340
	ccaaggcagg	aggatcactt	gagcccaaga	gtttgagacc	agcctgagca	acctactgag	14400
	acctgtatc	tacaaaaaaaa	tgtttttttt	aattaactgg	gtgtggtggt	gtgtgtctat	14460
	agttccagct	actccagagg	ctgaggcatg	aggattgctt	gagcccagga	ggtcaaggct	14520
	gcagtgagcc	atgattacac	cactgcactc	cagcctgggc	aacagtgcaa	ggccttttca	14580
25	caagaaagag	agagacagag	agaggaagaa	agagagagaa	acgaagaaag	agagagacac	14640
	agaaaggaag	gaagaaagcg	aaaaggaag	aaggagggga	gggatccaga	gaatacctag	14700
	ctgggctgac	tggccaagtt	atctctctcc	ctaagccagt	cagtaagaat	tagaggaagt	14760
	gactgcttat	ttaaatgcaa	agacagcagt	acaaaacttc	aaggaacatg	aaaaactaag	14820
	gaaacatgat	atcatcaatg	gaacacaata	aatttccat	aactaacc	aaagaaagga	14880
30	agatttatga	attgcttgac	agtagtattc	aaaaatcatt	gtttaaagaa	ggctcagtga	14940
	gctataagag	aagcacagac	aactaaaaaa	aaaaatcaga	aaaagtacat	aagcaaaatg	15000

ES 2 784 246 T3

	agaagctttg	ttttgttttg	ttttttcggg	gatagagtct	cactctgtaa	cccaggctgg	15060
	aatgcagtag	catgatctca	gctcactgca	acctcctcct	cccaggttca	agcgattctc	15120
	ctgcctcagc	ctcccaagta	gctgggatta	caggtgccca	ccaccacgct	tggctaattt	15180
	ttgtatTTTT	agtagagaca	gggtttcacc	atgttggtca	gactggtcgc	aaactcctga	15240
5	cctcaagtga	tccacccgcc	ttggcctccc	aaagtgctgg	gattacaggc	atgagccacc	15300
	acaccagcc	aagaagttta	acaagaaac	agaaataatt	aactaaaca	actcttgac	15360
	acaatgaatg	aaataaaaaa	tgcaatagag	aggcaacaac	agacttgatc	aaacaaaaga	15420
	cagaatttgt	ggactcaaag	acaggtcact	tgaaattatg	cagtcaaagg	agaaaagaag	15480
	aaaaagaat	tgaacaaaga	aagcttatgg	gatttacaag	tcaccaccaa	acaaaagaat	15540
10	atatgcatta	taggagtctc	caaatgagaa	taaagagagg	aaggaaaata	agtttattta	15600
	aagaaatcat	agctaaaatt	tttccaagtg	cagtgaaata	tggacatcca	gatacatgag	15660
	gcccaaaggt	tcccaaacag	gttcaagcca	aaaaaaactt	caccaagaca	tattataatc	15720
	aaatgtcaaa	aagcaaagat	gatggatTTT	gaaagtagta	tgaaaagaga	cctatcacat	15780
	gcaaggagac	cttcattaga	ctgtcagaag	atttcttagc	agaaacccca	gcagaccagg	15840
15	aaagagtggg	atgatatagt	caaagtgcta	aaagaaaaaa	aaatgccaac	cagaaatact	15900
	ttatctagca	aagctgtcct	tcagaaatga	aggaaaaata	aacatttttc	cagacaaaca	15960
	aaagctgaag	gagttcatca	ccactagact	tgacttacia	aaaatgataa	agggagtTct	16020
	tcaagctgaa	atgagaagac	actaattaat	aacatcattg	gtcaaggtaa	gtaagagtaa	16080
	gtaagtacag	tcaaattcag	aatactctaa	tactgtaatg	atgatgtata	aatcactTTT	16140
20	agctctagta	taacagttaa	aatacaaaag	tattaaaaat	aactatagct	acaataattt	16200
	gttaatggat	acacaatata	aaaagaagta	aagtctgaca	ttaaaaacat	aaaatgagaa	16260
	agtaaaagtg	gagagtTgtt	gtatgcaatt	gaagttaagt	tgttataagc	ttaaaataca	16320
	ctttataact	ataatatgtt	atatgcaagc	cccatggtaa	ccacgaaaca	aaaacctata	16380
	gtagaccaca	aaatataaag	ataatcaaaa	catacagtat	tttttttaaaa	aatcatcaaa	16440
25	tcacaaagga	aaatagcaag	agaagaagaa	aggaatataa	gtaagaacta	caaaacagtc	16500
	agaaaaggat	tactaaaatg	tcagtagtaa	gtcttttcat	atcaataatt	actttaagtg	16560
	taaagtgagct	aaattctcca	tttgaaagac	aaagaatggc	taaattggatt	ttttttttta	16620
	atctgctacc	tagaagagac	tcactctaac	ttcaagttac	acctaggTTT	atgtgaagga	16680
	ataggaaaag	atactccatg	caaatggaaa	ccaaaagaga	acagggtaac	tatactaata	16740
30	tcagacaaaa	aagagcttaa	gtcaaaaatt	gaaacaagaa	accaagaagg	tcgatatata	16800
	ataataaagg	gataatttca	tcaagaggat	ataataagtt	tatatacatc	taacatcaga	16860

ES 2 784 246 T3

	gcatctaaat	ataaaaagcag	ttttaatgta	tctgaaggga	gaaatagaaa	gcaatacaat	16920
	aatagtagag	gacttcaata	ccccactttc	aacaatggga	agatcatgca	gtcaaaaaaa	16980
	ttaataagga	aacattggac	ttcaactata	ctttagacca	aatggactga	acatacatat	17040
	acagaacatt	tcattctaaca	gcatcagagt	acacatgcat	gtcaagcaca	catagaacat	17100
5	tctccaggat	ccttatatgt	gtcttagccc	ttttgggctg	ctataacaaa	atgccataaa	17160
	ctaaatggct	tttaaacaac	agaaatgtat	ttctcacagt	tctggaggct	gggaagtcca	17220
	agataaaggt	ggcagaagat	ttactgtcta	gtgagggtcc	gcttattggc	tcattggacag	17280
	ctgtcctcac	taatggaagg	ggcaagagct	tcttatataa	ggacactaat	cccattcatg	17340
	agggtccac	ctcatgacct	agtcacctcc	aaaaggcctc	ggctcctaata	tatcatatca	17400
10	tatcataaaa	tgtattgatt	attacatttt	aacatgtgaa	atgtagggag	gcataaactt	17460
	tcagtttata	gcaatatatt	agtctacaaa	agaagcctta	acaaactcaa	aaatattgaa	17520
	atcataacaa	ttatctcttc	caaccacaaa	agtaagaaac	tagaaatcaa	taacaggagg	17580
	aaaactggaa	aattcacaaa	tataaggaaa	gtaaacaaca	tattttctgaa	caaccaatga	17640
	gtaaaaagaag	aaattgaaag	aaaatttttt	aaaaattgaa	ccaaatgaaa	atagaaactt	17700
15	aacataccaa	aacttatgag	atgaggcaaa	agcagttcta	aaaggaaga	ttattgtaat	17760
	aaacacctac	attaagcaaa	aagaaagatc	tcaaataaca	acctaacttt	aagaaaccag	17820
	agaaagaaga	acaaactaag	cccaaagtta	gcagaaagaa	gaaaataaca	aagattggag	17880
	cagaaataaa	taaagactag	aaaaacaata	gaaaaggtca	agaaaactaa	caattggtgt	17940
	tttgaaaaac	agaattgaca	tgttttgaaa	aacagaattg	acaagccgtt	agctagacta	18000
20	agaaaaaat	aagaaaagtc	tcaaatacat	aaagtaagaa	aagaggagag	attacaactg	18060
	atatcacaga	aatacaaagg	ataagagact	actatgaaca	actatatata	agcaaattgg	18120
	ataacctaga	agaaatgaat	gaattcctag	atacatacat	cctatcgaga	atgaatcatg	18180
	aagaaataga	aaatctgaag	gtaccactaa	taaggaggtt	aatcaccaa	tcaaaaatct	18240
	ctcaaaaaag	aaaaagtgag	gaccaggtgg	cttcactact	gaattctttc	aaacatttaa	18300
25	agaataagta	atagcaagtc	ttctcaaact	cttcaaaaaa	attgaggaga	atgggaacac	18360
	ttccaaacgc	atthtacaag	gtcagcatta	ccaagacag	acaagaacac	tacaaaaaaa	18420
	gaaaactgca	ggccaatatc	cctgatgaac	atggatgcaa	aaatccttaa	caaaataata	18480
	gcaagccaaa	ttcaacagta	tatgaaagaa	tcatacacca	taatcaattg	aggtttgtcc	18540
	ctgggatgca	agcatgattc	aacatagaca	tgtcaataaa	tgtgatacac	aacataagca	18600
30	gtgtgaagaa	taaaaatcgt	atgtccatct	taatagtcac	agaaaaatca	tttgacaaaa	18660

ES 2 784 246 T3

	tttaacactc	tttcctgata	aaaactctca	acaaactagg	tataaaaagg	aatagacctc	18720
	aacataataa	aggccatgtg	tgttaaaccc	acagctacca	tcatcctcaa	tggtgaaaag	18780
	ttgaaaccgt	ttcttctaac	atcaggaaca	agacgaggat	agccactctc	atgtctattc	18840
	aacagagcac	tgaaagtccct	agccagagca	attagatagg	aaagaaataa	aaggcattca	18900
5	gattagaaat	gaagaagtaa	aattatctgt	ttgcagatga	catgatctta	tatatagaaa	18960
	accctaaaga	tgccccaaaa	aactgttaga	actaacaat	cagggctagg	ccctggaaac	19020
	ataaggagga	agagaacact	agtccctgct	ctctaggtgc	tcatggccta	gtggggaaaag	19080
	catggatcca	aatgaaaatc	acatcatgca	agaaatgcca	tcaatggcat	gactaggtgt	19140
	gataaaatta	ctgttaagag	agtgattggt	ctgactcaga	tagttagata	acgtttgcat	19200
10	tgatcagagt	ttagttcaat	ttttaagaat	gtgagaaata	ggcatgggca	tactgtaatt	19260
	ggggaccagt	ctggttccaa	ggcacaggca	ctatgggggt	agggaggttg	gaaaggtgga	19320
	gaaagagtgg	caagaaatga	gtctaaaatg	atagcttccg	gctagaatgc	catcccaagg	19380
	aatttggagc	caatccaggg	ggcaataaag	agcattgcag	gtctataaac	cagaagacta	19440
	gtaagtctgt	atthttgttt	agggaaactga	ctctagcagc	cccatgtcgg	aaagattgga	19500
15	ggaaagagat	gaaaatggga	gatggtgaag	gcctgagtta	agacaatggc	agcagggctc	19560
	atagaggagg	gggtaaaact	gagacaatat	tgttgatgta	gctgggatga	aaactgaaat	19620
	gtgtcaaaga	tggagtcgga	aattagaaga	taacatagtc	tgatgggaag	aacagtacat	19680
	gaagtctgca	aatctggact	caagttccag	cttagctggt	aactagctgc	atgtccttaa	19740
	ttaaatthtt	atthttatthtt	atthttatthtt	atthttatthtt	gattthttgatt	thttthtgagat	19800
20	ggagtctcgc	tctgtcacc	aggctggagt	gcagtggcgc	gatctcgggt	tgctacaaac	19860
	tctgcctccc	aggttcaagt	gattctcctg	cctcagcctc	ccgagtagct	gggactatag	19920
	acacacaaca	ccacacctgg	ctaathtttt	tgtathtttta	gtagaaacag	ggthttcatcg	19980
	tgttggccag	gctggtthttg	aactcctgac	ctcaggtgat	ccacctgcc	tcagcctccc	20040
	aaagtgtgta	gattacaggc	taattaagta	tttaaccact	ctgthtctgt	thtctcagct	20100
25	acagagagac	tgagtagatt	atctcacaga	ttggcttcca	gaactaaaat	acaaaactaa	20160
	aaggaagagg	aggaggagaa	ggaggagaga	aattgagaca	atthtatgtag	atatcatcca	20220
	agataaaagat	gactaaagaa	acagagcaat	tgaggagatta	taaththaaga	gagthttgtt	20280
	thtaggagat	aaaatgtctt	gtagaaaaag	thtacataac	acaththtttag	gtgthtcagga	20340
	tatccaaatc	ctggcacttg	thctthttac	ctacaggggt	ctctgccaaa	gaacacctac	20400
30	aaaaggatca	ataatcgaat	aagaaatcca	gtgtaaattht	tatcagtatc	tgaatagtht	20460



ES 2 784 246 T3

	cctgaaaatc	caagggaaaag	ctggatggca	ggcataatth	gggacaaaaga	aggaatggag	20520
	tctcttatgt	cccatacaaa	atctagacct	tgggatccta	tgctcatgtg	tgggagaagg	20580
	tgtataggca	catacactct	catgttcaga	gagttgggtg	gtggagggag	agggaaaagg	20640
	tgagcccaag	gacagcagag	agaaagaaaa	agaacctaaa	tatatgggca	tgctcacctg	20700
5	tccaatatca	ggctgaactg	agcccagaga	taccattat	atthctgtgc	aggattactg	20760
	atcactaggg	gaaacatggc	cccataaata	acagatttaa	tcagataagc	agctcctctc	20820
	ccatgagaac	tagttcagaa	ctaaagtaaa	gagctggctg	tgagggattc	atccaagaat	20880
	ccactgagcc	atgcaaggat	ggatgttttc	tcttatgagc	tgagatagaa	agctgggaag	20940
	agaagcgaag	tgtctcatcc	ttaccaaca	gtattatth	gattcttcaa	ttttataat	21000
10	atgatatcct	ttgatgggtg	gaactatgtc	ttaccatca	ctgctcctag	cttactgaac	21060
	tacagtgaat	gtaattgaa	tcagtaaata	tattaataat	caggattgac	tggatttaaa	21120
	taagattatt	gcaactcaaa	gaatcctcgg	gagggcatca	tccatcttca	ccatttgтта	21180
	tgaactcttc	atgtgtatta	atcatttaa	tgcaataaca	ctataaggtg	ggaactatca	21240
	tcattcccc	atthtcaaaa	tgaagaagct	ggggtctgga	ggacctatct	cgccccatca	21300
15	cacagttagc	aagtggcaga	acaggaatgg	gaagccagat	attagataca	gaatthtatgc	21360
	atthgcaacc	acacacactg	ccagccaaaa	acatgctth	cctctccaag	agcacaaccg	21420
	ctagctthcc	ttattggctt	atgaaaactg	gaaaccagt	thttaaaga	ctgtgaaaaa	21480
	aaattaagcc	aatatgctta	tcattthaaa	aggtactcta	thtaattgag	gatatatgth	21540
	ttcatactth	tattcccaaa	tggttatcac	ttccttaatt	aaataataca	tcaattatat	21600
20	ttgtctataa	atatgtatgt	gtatatatac	atgtgtgtgt	gtgtgtgtgt	gtgtaccagg	21660
	ccctcaataa	gtatthgctg	aatgthtctt	thctgcaaaa	tctatgtata	ctaathgtht	21720
	ctaaattagt	atacacagtc	thtctactgc	tgtthtagagg	gaaggtgcga	tgatthcca	21780
	tgtthttaa	atcagatggt	tcaatatatt	catgccacat	ttagagaaga	aagcaattca	21840
	cggtagagta	tgaactctca	aagactthaa	gtctcaatgt	aatthtcaa	ctthtatatat	21900
25	caacaaactt	ttatthtagtc	ctctctgtat	ataaaaagct	tatthagcgat	cacatgctaa	21960
	agcagattht	taaatthgcta	gagcctthaaa	atgccacaaa	tatagthccag	aaagaagaca	22020
	tgaataaaat	tggattatgt	agcatagcat	thaaaggctt	atthcacactt	tatgcccctcc	22080
	ctcttctatt	cctacctatt	cttctagcac	acagggthcag	gtcctthcca	gctgcccgtc	22140
	thtctctatg	ctacgctggc	acactthggcc	aatgthggtg	ccatgaagag	gthactcatg	22200
30	cagataggaa	gctgaggagg	aggtthttaga	aagaagctga	tgagthgagt	gatggacacg	22260
	thgagthttag	gtgccaatgg	gaaagtacaa	gthaaatgtat	tgaagcacia	thgaataata	22320

ES 2 784 246 T3

	atgctttaac	aatttgataa	ttatgtgtgg	attaagggag	agggaaagtt	ttaagcctag	22380
	gatattggaa	gaaggatgat	aaaaaagtag	gaggtcagtg	ggaaagttga	tttgagagaga	22440
	aagatgctga	tattagtttt	ggatttgttg	cacttcagaa	gatgatgaga	cattaaaact	22500
	gatattgata	atgtaatctt	cacgatgaaa	ataaagtaga	gattgaggaa	ctgatccaga	22560
5	ctgaaggaga	ctagagagac	ccggaattgg	gtgcaacca	ggatcctgga	gcagtgcttt	22620
	tgctatgaag	gacgggattg	agccaattgg	caaaacttga	ttgcatcttt	gggcaaaggg	22680
	tatccaggtt	ttttaaataca	gatgattaa	tagtatccat	tgtatgattc	ttataatttt	22740
	tctataagtt	tgaaatcatt	taaaaataaa	aagcagaaaa	aaacaaacat	caccactttg	22800
	gcaacaaaaa	gttggcattg	tcaatataatc	ttaagatcta	cattagatat	gtaagatgtc	22860
10	tgtatcttaa	tctagatgtg	tgtgttcaca	aactttaaac	tagtaattct	actttgagac	22920
	actatcataa	agaactaata	atztataggc	atacttcatt	ttattgtgct	tcactttacc	22980
	gtgcttagca	gatattgagc	gttttttttt	tttttttttt	tttttataaaa	ttgatggttt	23040
	gtggcaaccc	tgcatggggc	aagtcttttg	gtaccatttt	tccaacagta	tgtgctcact	23100
	tcacgtctct	gtcacatttt	gggaattctt	ccaatattta	aaactttttc	attgtatctg	23160
15	tgatctatga	tcagtgatct	ttgatgttac	tattgtaatt	gttttggggt	accacaaacc	23220
	atgccatat	aagacagcaa	acttaatcca	tgaatgctgt	gtgttctcct	acttctccag	23280
	tgactagtca	ttctcatgcc	tctctccctt	tctccaggcc	tcctttctcc	aggccttctt	23340
	attccctgac	acacaacaac	attgaaatta	ggccaattaa	taaccctaca	atggcctcta	23400
	agtgttcaag	tgaaagaaaag	agtagcatgt	ctctcacttt	aaatctgaaa	gctagagatg	23460
20	attaagttta	gtgaggaagg	catctcaaaa	gccaagatag	gctaaaagct	aggcctcttg	23520
	taccaacaaa	caaaattgtg	aatgcaaaaag	gaagagtttt	tgaagaaagt	taaaagtact	23580
	actccagtga	acacacaaat	gattaaaagt	ggatcagcct	ttttgtggat	atagaagaag	23640
	ttttagttat	ctgggtagaa	gatcaaacca	gccacaacat	tcccttaagc	caaagcctaa	23700
	tccagagcaa	gaccttaact	ctcttttagct	ctgtaaaggc	tgagagaggt	aaggaagctg	23760
25	tagaagaaca	gtttgaggct	aaaagaggtt	ggttcatgag	gtttaaggaa	agaagccatc	23820
	ttcataacat	aaaaatgcaa	ggtgaagcag	caagtgggta	tgtagaagct	gcagcaagtt	23880
	ctccagaaaa	tctagctaag	atcattgatg	aaggtggcta	tgcaaaacaa	cagatttacc	23940
	ctataattaa	ccaggcttct	tcttcttctt	cttctttttt	tttttttttt	tttttttttt	24000
	tttttttttt	tttttttttt	tgagaggcag	tctccctctg	tcgcccaggc	tggagtgcag	24060
30	tggcacaatc	tcagctcact	gcaagcccca	tctcccgggt	tcacgccatt	tctcctgcct	24120
	cagcctccca	agtagctggg	gctacaggtg	cctgcaatga	aacaggcttc	tcttgggaaa	24180

ES 2 784 246 T3

	agataccatg	taagacttgc	atagctagag	agaagaagtc	aatgcctggc	ttcaaagctt	24240
	cgaaggacag	gctgcctgtc	ttgttagggg	ctaacgcagt	tgggtgtcttg	aagttgaagc	24300
	caatgcccat	tgattattcc	aaaaatccta	gaacctttca	ggatgatgcc	aaatctactc	24360
	tgctgtgct	ccacaaaaag	aacaacaaag	cctagatgac	agcacatctg	tttacagcat	24420
5	ggcttactga	atattttaag	cccactattg	agaccatttc	tcagaaaaaa	aaaaaaaaatg	24480
	attcctttta	aaggttactc	cttattgaca	atgcacctgg	tcaccaaga	gctctgatgg	24540
	agatgtacaa	ggagatgaat	gttgttttca	tgctgtctaa	cacaacatcc	attctacagc	24600
	ccatggatcg	aggaataatt	ttaactttca	agctctatta	tttaagaaat	acattttgta	24660
	aggctaacct	accatagata	gtaattcctc	tgatggatca	gggcaaagta	cattgaaaac	24720
10	cttctggaaa	ggatttatca	ttccagatgc	cattaagaac	atgtgtgatt	tatgaaagaa	24780
	ggtcaaaaata	tcaacattga	caggaatttg	gaagaagttg	ataccaacc	tcctggatga	24840
	ctttgagggg	tcaagacttc	actggaggaa	gtaactgcag	atgtggtgga	aacagcaaga	24900
	gaactagaat	tagaagtgga	gtctaaagac	aagactgagt	tgctgcaatc	tcacgatcga	24960
	acttgaatgg	ataaattggt	tcttatggaa	gagcaaagaa	agtgtttttt	ggttttgttt	25020
15	tgttttttta	agacagtgtc	tcactctgtc	accaggctg	gagtgcaatg	gtgtgatcac	25080
	aactcactgc	agcctcaact	tccccaggct	caggtgatcc	ttccacctca	gcctcctgag	25140
	taactggtac	aggcacgtgc	caccacaccc	agctaatttt	tgtatttttt	tgtagagacg	25200
	gggtttcac	catgttgccc	agtctggacg	tgaactcctg	ggctcaagtg	atcctcctgc	25260
	ctcagcctcc	caaagtgtctg	ggataacagc	tgtgagctac	catgcctggc	cagaaagtgt	25320
20	tttcttgaga	tggaatctac	tcttggtgaa	gatgctgtga	acattgttga	gatgacaaca	25380
	aagtatttag	aacattccat	aaacttagtt	taaaagcag	agcaaggttt	cagaagattg	25440
	actccaattt	caagagaagt	tctatcgtga	gtaaaatgct	atcaaacagc	atcagatgct	25500
	acagagagat	cttctgtgaa	aggaagagtc	catcaatgca	gcaacttcat	tgctgtctta	25560
	ctttaagaaa	ttgtcggccg	ggcgcagtgg	ctcatgccta	taatcccagc	actttgggag	25620
25	gctgaggcgt	atggatcact	tgaagtcagg	agttcaagac	tagcctggcc	aacatgggtga	25680
	aacctcatct	ctacaaaaat	agaaaaatta	gctgggcgtg	gtggcgcagt	cctgtagtcc	25740
	cagctactca	ggagaagaat	cacttgagcc	caggaggagg	aggttgcagt	gagccgagat	25800
	cgcgccactg	cactccagcc	tgggtgacag	ggactcatcg	aagcaagatc	tccaccagct	25860
	aaaagattgt	gacttactga	aggcacagat	gatcattggc	atTTTTtagca	ataatgcatt	25920
30	ttcattaag	tctatatatt	gctTTTTtag	atataatgct	attgcacact	tttagactat	25980
	agtatagtgt	aaacataact	TTTTTTTTTT	ttgagacaga	gtctagctct	gtcaccagg	26040

ES 2 784 246 T3

	ctggagtgca	gtggcatgat	ctcatatcac	tgcaacctcc	gcctcccagg	ttcaagtgat	26100
	tctcctgtct	cagcctcctg	agtcgctggg	atcacagggtg	cacaccacca	cacctggctt	26160
	tttttttttt	tttttttttt	tttgtatttt	tagtagagat	ggggtttcac	cacgttggtc	26220
	aggctggtct	caaactgctg	acctcaagtg	atctgcccac	ctcggcctcc	caagggtgctg	26280
5	ggattatagg	cgtgagccac	cacgcccagc	cttgctttca	tgattttaaa	ggtatttttaa	26340
	atcaaaaggt	caagaagtc	acaaattcag	gattaattat	ttgtatttag	gattatttgc	26400
	cacagcgttg	accaaataat	catttgtggc	caaagttttt	gaagaataga	ctatagagag	26460
	aggagatcag	agtgggcca	tagggagcca	tgcagtggcc	cacatttgga	aaaggagagg	26520
	aatgtgctga	gcgaggtga	cggataatta	actagaaatg	actgcactga	aaagtgtgtg	26580
10	tctgctggtg	ttgctgaaaa	aggttggagt	gtgggtttat	cacatcccga	aaaaggctaa	26640
	ggagaagagg	aactgaagaa	aaaacctacc	gattcactaa	ggatttccca	ccaagaggcc	26700
	tcaataaaga	caaactggct	tttataattc	aattcaaaca	caaattattt	tttaaattaa	26760
	ttcctacggt	ttgcattgat	attttaacat	gagaagtgga	gttcagaaac	tgcaacaaaa	26820
	gggatttgag	cagtgataaa	atatttgtaa	gcctctcctg	atgaccttgg	tactgaaaga	26880
15	gactgttctc	ctgtgtcggg	gaaggttctg	gaccgccttt	ccagcagcat	tttatcatca	26940
	gaaaacggct	cacttcataa	ggtttataac	cttcataaa	actgcagaac	attttattct	27000
	tttttcatta	agccaccttt	ggaatcattt	tagtcccttt	atagtctctt	atttaatctg	27060
	ttttttcgta	gactaaaggg	agaaaaaatt	ctatcagtgg	tcaaaatagt	aattagatag	27120
	tgtaagtcac	agcctgatgg	cttcaaggca	tacatactta	ctacttatct	cctccatctg	27180
20	ccttcatcag	tgaattcttt	tactcccaag	cacatcttta	cctttttctt	aaacaatgga	27240
	aaaaagaaac	taccaaaccg	tgcattttcc	caattataag	agttactaat	gtttatattc	27300
	ttttctatta	aagcatcatt	cccatggtgt	aaaagctctt	ttaccaaac	ctaaggaaag	27360
	catgaattaa	taaaacatca	agagatttta	tttctatat	tgaaaactcc	tatagttgca	27420
	taaaaacaac	tgaatctttt	ggaaatacgt	gtaatcacia	ggagaggaac	attaaaagag	27480
25	agaaactcac	tacaaaataa	atcttaaaac	cactttcatg	tttaaaaaga	agaaaatatac	27540
	agttcttctt	attcctgaag	gatttttttt	taaaaaaatc	ttttaattaa	tgacagccct	27600
	cagggcactg	agcaattggt	aattaaaaca	aggagaaaag	gaagaggaag	taggcaaaaa	27660
	tgctaagatg	aacacgtttc	cttttctctg	caggggaata	acattaccaa	atgaacatta	27720
	ataaatatga	atactattga	gaagaaatac	atttaaaaaa	attttaactc	ccacctcagc	27780
30	ttgacacaca	ctagcagcta	cataaattaa	ttggggcgcc	tcgagaatta	taaacccttg	27840
	ggtgtcacct	tttgtcta	tgagtattgg	tagccatcac	cctaccctca	tcaggatgga	27900

ES 2 784 246 T3

	ttgtttcttt	ctcggtgcaa	gctgacttct	gtcagggaat	agcgcctgat	caaaggtctt	27960
	ctaagggatt	tcattcactt	tcattcactt	tcattcttgc	agtggggcggg	cattcacgta	28020
	ggcaaccgcc	atcattataa	aacatttctt	aaatgcgagt	taggagctag	actcactgcc	28080
	cattcaattc	attggtcttt	ccctttgcag	ccattaaatt	tttacttaga	aaaaaataat	28140
5	tatcagatct	tttcgttcac	cccctgtgct	tacctaattt	gggcagggta	ttagtaataa	28200
	cattttcctg	gtcgttccct	accactttcc	cctctacctc	acatgaaaaa	ggcttttatc	28260
	tttctcataa	gctcagaagt	tcacttaaca	agcagagctt	tagaagccaa	gaacaagaaa	28320
	aaaaaaaaaa	aggtaagaga	atctgttttc	tactttattt	ggagggggac	agaaaccag	28380
	aatcccatag	gctgtatggt	tagcatgaaa	aaaaaaagtc	attatttgaa	attaggacaa	28440
10	ccagggatag	tttttcccaa	cttttaaagt	atcccagttt	tacgtaattt	tatgggcttt	28500
	tcatcaaagt	tgtttttcaa	aaatagaact	caaccctta	gggtttaaga	gttttttccc	28560
	ctttagtgtg	cgtgcacaca	cccctttgat	gttccgcatg	ctagcatatc	agggtcagtg	28620
	catgggggcc	agtgtcattt	acagaatttc	tcagatgcca	gctaagatca	gtagctagga	28680
	gacaacttag	aatttcattt	tgctctttgt	tcagatacat	tctttaccac	agataagatc	28740
15	ttacctcccc	agcagtctat	ctctaaaaga	acaaactcta	ggtaatcaaa	aagctatatt	28800
	ctacccccca	acaaaaaaca	aattgcttat	tttagctaat	acctagtcaa	acataaatgc	28860
	cagggtagaa	aaaataatgt	attttctctt	tccttgctat	aataatatat	accagttgaa	28920
	aactcctgat	tttcctcaga	ccacctaaaa	agctttgtcc	attgcttgtg	ctcatgtagt	28980
	agctaaagga	ggttatttac	aaggcacaaa	ggagaaatac	atagcccgtc	tatactgcat	29040
20	cacttttttg	ttctcttcac	ttgtgcatag	tatctactaa	tgactagctg	aggatagtaa	29100
	ttacataaac	attgaaatgg	aaaaattaaa	ggaacacttt	ttgcttcggt	tttcaaagtg	29160
	gacttaccta	agaagcacta	ccatgctcct	taaaaatgct	ttcttggttc	tccccactga	29220
	tgtcgccaat	ctgggggtgg	ggctcagaaa	tctatttttt	gttttttttag	agcaaggcag	29280
	ggtcttgctc	tataaccag	gctggagtgc	aatgttgcaa	tcatgactta	ctgcagcctt	29340
25	gaactcctgg	cctcaagcaa	tcctctcacc	tcagcctccc	aaagtgctgg	gattacaggc	29400
	acaggaatct	atttttttta	acaagcatga	gagccattca	taggcctaat	ttatttattt	29460
	atttatttat	ttatttattt	atttatttat	ttgagatagg	gtctcattct	gttgcccagg	29520
	ctggaatgta	gtggtacaat	cacagctcac	tgcagcctcg	acctcctggg	ctcaagtgat	29580
	cctccaacct	cagtctccca	agtaaccggg	actacaggca	tgcaccacca	cacctggcta	29640
30	attttttatt	ttttgtagag	atgggatttc	actatgttac	ccagggttgg	ctcaaaactcc	29700
	tgggcttgag	cgatcctgcc	acctttgcct	cccaaagtgc	tgggattaca	agagtgagcc	29760

ES 2 784 246 T3

	acctcagcca	gcatgttttt	tgtgggatct	cattatTTTT	aactgtctca	tgcaatatct	29820
	aataataaaa	tgtacatgtc	ttcttcattt	tatttctata	tagagcgtgt	tttattaata	29880
	catgttggtta	caacatctaa	ttgcaaatac	atatgaaact	ctatccaaac	tcctacccaa	29940
	tctcttggtta	gtggaaaagta	catcagtcac	aggaatagaa	cccagagtca	aggtcctgaa	30000
5	gtttgggcct	tggctggaga	gcagagtaga	ctcaggtcac	aacaccagga	tgggatacat	30060
	ggaggagaag	gaggaagatg	gggggaaag	aagattctag	gtctgccgaa	aaagatcagg	30120
	caggtaaaaac	tcagagacct	tccagcaagg	cccaaaacac	cactagccac	atgagagggt	30180
	tcaagcaatt	gactcatctg	cccctagtgg	gattttttaa	ctacagactg	gtataggagg	30240
	tgacctgttt	agatttactc	tcaaacctgc	tgtgttgggc	cactccaatt	tagactacac	30300
10	tttgctgaag	ttctgaaatt	caagaattgc	ttctcacctc	cttgtgacct	atgaagagat	30360
	gtcattatct	gggtccaccc	acattcactt	gggagttcat	tcaataaaaac	tttgcaatat	30420
	aatgtaatgg	gtgtcccata	gggattcggg	gcagaaatat	ttttaactct	cattttgttt	30480
	caagtacaat	agacagtaac	taaattttcc	agaaaacttt	aaagatgctt	ttatctctga	30540
	aaggtttttc	ttttttaacc	cacttcagtc	ccactgatgt	tttactagc	ttgcctccag	30600
15	gataatgcat	ttgatatcag	tgaatgtgaa	tacacacttc	caaatgcttt	gtgcaggctg	30660
	atccactagc	tctctttaga	cttttgctaa	tcagaaattg	ctcaagaagg	aaatttgatga	30720
	gctgtttcca	aattgcctac	tgcttagac	ttatgtaact	atgacagggt	tattgatgca	30780
	gctgggagca	agtttttaat	cttagaagaa	aatgtttatt	tctaaataga	ggtgcatata	30840
	cttttcataa	aagtatttct	agaggctttt	taaaatgctt	tgatggttta	aactaataga	30900
20	aataataatc	tttaaataatg	cttatcagta	gcatcccag	aattcacgtc	tttagtcttt	30960
	gtacgaatta	gatttcctgg	ctaaacctgt	gaaaaatctc	atggatttag	gaaatctgaa	31020
	tgttgtttct	ttgtattatt	caggaattat	atatttttaa	tttttaaaaa	gttaaataga	31080
	tggagataat	gttgcagtct	gaaagggcag	ccctgagaac	ttataatcag	tgctatggtg	31140
	gctgtcctgc	attctttggg	gcagagcttc	ctgagttagt	ccccacagtt	actacctctc	31200
25	cttcctcgcc	tttctctctc	tgctgctctc	tccttcctat	ctttactaat	ttatcttccc	31260
	atgtcaaccc	cttaaattct	gctgctcttt	catagaaatc	acctcgttgt	cccgttctc	31320
	caccactcat	attctagatt	ggtagatatg	gaccatacag	atagtctacc	atggctacca	31380
	tcaaatatTT	ttgttcactt	cattgtgcat	agttacctac	tagttattca	ttgggagtag	31440
	taatttgcaa	attattttaa	aggaaaaatt	aaaagaaaaa	actttttgct	gtagtttccc	31500
30	tttttttttt	tttttttttt	tttttttttt	tt			31532

ES 2 784 246 T3

<211> 1390  
 <212> DNA  
 <213> Homo sapiens

5 <400> 35  
 ccaagatttc tcatccatgg tttcaactaa gaatatttta ttctctccag tgaatTTTT 60  
 tacaattagg attgcaaaac tacatacatt caggtagatc tgtgcacatc attatctatt 120  
 tggaaaactg tctgtagaat tgtgccgtgt accatccatc cagccatacg cagcagccca 180  
 cagtcatgct gttctccatt catttataca ttctctacat catgttactt gcacacaaaa 240  
 10 gtccttacac atggctctaa gccatTTTTa accccctgga aagtgttaatt ccttgacttg 300  
 gcaccctttc tcttaagaat tgatgtccct tgcaattctg atgaatacga gtctctacct 360  
 aattagacaa aaatcaattg cgatcaatac tcaagaaatg aacccttac acaaacactct 420  
 aaatttgctt tctgatccct agcaggaaca actgtctatt cattcatata ctcaatactt 480  
 tagaacatac tgggtacaag gaatcatact atatgctgga aataaaataa tcagtgatgc 540  
 15 tgtccttgat ttaaggaat ttaaaacca agtatggaag ccaaacaagt aaattgacaa 600  
 tcataaaaagt actataagaa gcataagtaa ggactgctat agaaatacac aagtgaactt 660  
 ttcaaggcat gcatgaaaga gaaaacattc tatagaagtt tcattcattt acttaataag 720  
 ttaatattca gccggatctg gtactagggtg ccatgttaac aagtctgtat tttatccaga 780  
 aggaaatgtg gaactattaa tcaactgttaa gcttgcatgt ggcataatca gtttggtatt 840  
 20 caagaaaatt ctgaattact ccacaggtaa agttttattg ggataacaaa gggaaagaaa 900  
 aggagtaaaa agttattaga ggttactgat cataaggaat aggatgaaca aggaaagaaa 960  
 attcagtgac tgaagaaagcaa ataaatagga acatagcaaaa aattcaggac tggctaaaga 1020  
 acttgtagat tgtaaataac agagtgagaa aaatcgagag atcatgattc agaaatgttt 1080  
 taggattttt agatgtagag gaatttttagg ggacagtaga tctagggtgt acccaaaagg 1140  
 25 gaagacagct gaaatgttag atagttgaga tgaagaccag tggattgag gaggccataa 1200  
 acttgtagat gtactcccct tggagactga gtttagccac ttogatgttt ggactcaaag 1260  
 taaagtataa aaaagacagt agtcttatga gtttatcata gtggataaga cactattttca 1320  
 ggaggcagat tgcagcatac taattgtatg ctcttcggca agttacttag ctcttagatt 1380  
 ttcctctggg 1390  
 30  
 <210> 36  
 <211> 38342  
 <212> DNA  
 <213> Homo sapiens  
 35 <400> 36

# ES 2 784 246 T3

	cactgcagtc	tctccctccc	tggttcaagc	aattctcttg	cctcagtcctc	ctgagtagct	60
	gggaccacag	gcgctcacca	ccacgcatgg	ctcatttttg	tatttttagt	agagacgggg	120
	tttcaccata	ttggtcaggc	tggctctgaa	ctcctgatct	caggtgatcc	acccgccccg	180
	gcctcccaaa	gtgctgggat	tacagaggtg	agacaccgcg	cccagccata	tttagattta	240
5	ttgtcgtttt	cttttttggt	gttgttttct	tgtttttttt	ttttttttga	gacagagtct	300
	cactctgttg	cccaggtggg	agtgcagtg	cgtgatctcg	gctcactgcg	agctccgcct	360
	cccaggttca	cgccattctc	ctgcctcagc	ctcccgagta	gctgggacta	caggcgccca	420
	ccccacgcc	aggctagttt	tttgtatttt	tagtagagac	ggggtttcac	catgttagcc	480
	aggatggtct	cgatctcctg	acctcgtgat	ccgcccgcct	cggccttcca	aagtgctggg	540
10	attacaggca	tgagtgacat	cttacagata	acgataagtg	caggtggtaa	gttgttaata	600
	ccaaaggcaa	ccatattctt	tggacctaac	gttttcttgt	aggaataatt	tgattcattt	660
	taccgccaag	gagcaagtgt	tcaagaacct	cctccctata	agggcagaaa	atttagatgt	720
	cagtcttgct	gaaatgcccc	agtgccctcc	ttctcacgca	tccaagagtt	tcctcatagc	780
	ttggttggt	ccagatgggc	ttggtcccat	gtctacatat	aattaggggtg	gagaggagtt	840
15	gaggcataca	gcctggtgtc	agcaagtc	gtcctgagcc	tggagctgga	caaagcccag	900
	aactcaccta	gtggccaagg	gcattcagga	gaggcagtga	ctcctacgga	agttggtctc	960
	agcatttggtg	ctgccatctc	ttccggtcta	actggccaga	gacatttagg	tgaagacctt	1020
	tcacattgcc	tttctctcag	tcaaggaaga	ggtcagctaa	attggtccag	gaactttgag	1080
	tcaaactcct	tcaattcctt	gtcagctcag	gggtgtagcg	tggcagagag	tcacggtggt	1140
20	aggtggataa	ggagttggga	gtgtttgggt	cttctcagta	gaaggggcta	gggtaggggt	1200
	tgcatctgcc	tctggatttt	gttgttggt	tgggtggtggt	tttttatttg	tttgttttat	1260
	agagacaggc	tcccactatg	ttgcctaggc	tggctctcaa	ctcctgggct	caagagatcc	1320
	tcccgccttg	gcctcccaaa	gtgctgggat	tacaggcatg	agccaccatg	ccggcctgcc	1380
	tctgaatttt	gtgtcttctt	tccctgctgt	agcatttagg	ctagaaccaa	gcccttttgc	1440
25	agcagttctg	gacacagtga	ctgcctacaa	ccgggcttgg	ctgctgggac	ctcactccct	1500
	actaggccca	agctcagagt	gttctatctc	ttagggacca	actctttcat	cataagtaca	1560
	ttcaccocag	gggcataacc	caccocagga	aataggactc	aactctgtac	caccgcagag	1620
	aacaccggtc	cttctggctt	ctgagggaat	gatacctcct	gaacctgtgg	gatgcagcag	1680
	cgccgcagag	accccggtt	gggatgatct	cccgtctga	ttatcaccac	cctgtggacc	1740
30	aagaccatcc	cccacaccocg	ctgtccaggg	atctactctc	ctgggaactg	agcaggtgtc	1800
	ttcttaaacc	ctgaaagccc	aaagtgtctt	gtgagtttgc	cccttttctc	cagacaatgt	1860



ES 2 784 246 T3

	ggatccttga	cctactcctg	caagggaggg	tcccctcttc	cactccttacc	aagaaggaga	1920
	tgacacaaaag	tccatttctg	gtaggggtgct	actttaaaag	gcacccgtca	cacacatgcc	1980
	tcaagcccat	ctgaaattat	ccaggggtgct	ggcctttctc	tacctatgca	gctgccctcc	2040
	tggaagcctg	ggttgagaga	gatgcgactc	gttcagcagc	ccgtctatgc	tcagggtaag	2100
5	cccgagcacg	tcagcgaagt	ctccctggca	tgggatccgg	catccgggaa	gctaagaggc	2160
	atcagtgggg	caagctggga	tggttccaat	ggcccatggc	ctcctctcag	ctttacccca	2220
	cctcacccca	accagagaga	tcagtaggct	ccttctgagg	gtgcctcctt	tctcaaaggc	2280
	aggattcttc	cctccagtgc	aatggatcat	gacctggctg	gtccttcttt	ctctctgatc	2340
	ttggcctcaa	tctaagtttc	agtcaagtga	atgacattat	cccttaccta	ctaggaatta	2400
10	aataggTTTT	aaagtacaca	cagacacaca	cacactttgg	aatatttata	tcaaaatgta	2460
	tgTTTTtag	gccaggtgtg	gtggctcacg	cctgtaatct	cagcactttg	ggatgccaaag	2520
	gtgggcagat	tgcttgagcc	caggcattca	agaccagggt	gggcaacatg	gtgaaaacct	2580
	gtctctgcaa	aaaatacaaaa	atntagcctg	gcgtgggtggc	acacacttat	agtcctagct	2640
	acttgggagg	ctgaggcagg	aggatcactt	gagccctgga	ggttgaggct	gcagtgaacc	2700
15	gtgatcgcag	tactgtactc	cagcctgggc	aacagagtga	gaccccatct	caaaatatat	2760
	atgtatatat	ggTTTTtaa	accaggtttc	ttgagatcat	ttcattggga	atitagaaga	2820
	aaaagaggca	ttctgggcgt	gatgtatgga	gaattcttct	ggagcgcttc	atggaacca	2880
	gcctctgaag	cagaagaaac	aactgagttc	caccaaggag	ccctggtcac	ttcacggtgt	2940
	cttaacttct	ccacatcttg	gagtcactta	acacttccag	gacaccaaac	agtctaacia	3000
20	cttagttctc	atgaaagaat	gctgctgggt	tgaattgaaa	agcaggcaga	gttagagaat	3060
	gtgccttcta	caaagtagcc	atctcagaga	gacttgtttg	agtgaataga	aaaatgaaac	3120
	ctttagttaa	agcaactgag	tattgaacat	acgcatgctt	tagaactaaa	aaataggccg	3180
	ggcacagtgg	ctcatgccta	taattctagc	actttgggag	gccaaaggctg	gcagatcact	3240
	tgagctcagg	agttcgagac	cagcctggcc	acatggtgag	gccctgtttc	tactaaaagt	3300
25	acaaaaatta	gctgggcgtg	gtgggtgcatg	cctgtaatcc	cagctactca	ggaggctgag	3360
	gcagaagaat	cgcttgaacc	ctggagctag	aggttgcagt	gagctgagat	cgcgccatta	3420
	cactccagcc	tgttatccca	gaactttggg	agttatccca	gaactttggg	ggacagagca	3480
	agattccggt	tcaaaaaaaaa	taattatgat	tttaagactt	gtgcttttta	aaaaacaatt	3540
	tggaataata	ttgcaatgct	tttttgtttg	tttgtttggt	tgTTTTtgag	atggagtttc	3600
30	gctcttgttg	cccaggctgg	agtgcaatgg	cgcgatcttg	gctcaccgca	aactccgcct	3660
	ccaggttcaa	gtgattctcc	tgcttcagcc	tcctgagtaa	ctgggattac	aggcatgtgc	3720

ES 2 784 246 T3

	caccatgccc	gtctaatttt	gtatttttag	tagagacagg	gtttctccat	gttggtcaga	3780
	ctggtctcaa	actcctgacc	tcagggtgatt	tgcccacctc	agcctcccaa	agggctggga	3840
	ttacaggcgt	gagccactgc	gcccggcctg	caatccttat	ttaattttaa	ttttttgtgg	3900
	agacaaggtc	tcactatgtg	gctcaggctg	gtcttgaaat	cctggggctc	aagcgatccg	3960
5	cctgttttga	cctcccaaag	ttctagcata	acatgtgtga	gccaccacat	ctggcctgca	4020
	atgctttttt	tggccaatta	taagttagct	atattaaatg	agactaacag	tgatgtttaa	4080
	tgatactaaa	taagacctgg	ataatataaa	ccacctttta	tgtgatcatt	aatatttttt	4140
	atggtaggct	gtaagtgtac	agtgacagaa	atgaggttca	aaagccaagc	aggtatgcct	4200
	gggataagtt	atagcctttt	gtagctttta	tgccactagc	attcataagg	cacatactat	4260
10	attcaaggac	agcgtatgg	tgtgagtgtt	tgcatccctc	caaaattcac	atgttgaaat	4320
	cttctttttt	ttttcttttt	ctttccttgt	tttttttttt	tttttttggc	aggtaacctt	4380
	ctgagctaga	gtaggctcag	agactccctc	atctgttgaa	atcgaatctc	caatgttttg	4440
	cctttaagag	gtggggctgt	tgggtcatga	gggcagaacc	ctcgtgaatg	ggaataatcc	4500
	cgccataaaa	gaggcctgag	ggagtttgct	tgcccctttc	ctccttccac	catgtgagaa	4560
15	tgacgcaaga	aggtgccctg	tatgaagcag	agggccctca	ccaggcaccg	aatccgggtgg	4620
	caccttgatg	ttgaacttct	cggccttcag	aactgtgagc	aataaaattc	cgcacttttt	4680
	ttctttttga	gattgagtct	cgctctgtca	tccaggctgg	agtgcagtgg	tgcagtctcc	4740
	gactcactgc	aacctccgcc	tcccaggttc	aaactattct	cctgcttcag	cctccagatt	4800
	agctgggatt	gcaaactcca	cctcccaggt	tcaaactatt	ctccagcttc	agcctccaga	4860
20	gtagctggga	ttacaggcac	ctgccaccac	accagctaa	tttctgtatt	tttagtagag	4920
	atggggtttc	accatgttgg	ccaggctgat	cttgaactgc	tgacctcaag	tgatctgccc	4980
	acctcaggct	cccaaagtgc	tgggattata	ggggtgagcc	accgcgcccg	gccacattct	5040
	gctttttata	aattaccag	tctaaggtat	tttgttacag	cagcccaa	ggactaagac	5100
	agtgtattta	gactggaggg	catggggttt	gggttttagat	atgtgaaatt	gcagagagat	5160
25	gggctatgcc	tcgcctttgt	ctgcaggctc	aggacagggt	ctgaggaatg	tctgtagtgt	5220
	caactggaca	atgcaatatt	caaacataac	acagaaaatg	gaattcctta	actcttgctc	5280
	tgcttctgtc	ttctcaaaaa	agaacatttt	tcaaatcaaa	aagaacaaat	caaacctatg	5340
	aggagatggg	atgagaatat	tttcatagta	aagaaaatgg	aaagaatttg	tggagggtgat	5400
	tgggaaatct	tttgatgat	ctctaggaat	tatgaaaaat	aaccgagcca	cagagatggg	5460
30	aaatacgtaa	ttctaatttt	caaaaagaaa	aagaaggtgg	gttctatgac	ctatagatca	5520
	gtaagcttga	gattgattct	tgggtgagagt	gttgaagaga	atgctagaag	gtgggtttctg	5580

ES 2 784 246 T3

	agctcttaga	aaccagcagg	cagtgattat	agtcagcccc	atgtcactaa	aagcaaattg	5640
	tgtagcctg	attccatctc	cttttctgat	aggattactc	cactggcaaa	cttagagata	5700
	caagatggat	atggtccctc	tacacttcag	aaaggaaact	gacatagttg	cttgggtgcc	5760
	ctggggataa	ggtacagagg	cagagtatca	ctcgcagctt	ttaggtcaca	aagaacagaa	5820
5	acaaattcta	gtgagtttaa	acagaaaagg	gattttattc	aaggatatag	ggaagtttac	5880
	cagctgtcca	gaagggccag	acaatcaggc	tcagatatcc	tacatctgat	gtgatttatg	5940
	gatttttggg	tgcagagccg	catccacaat	cacagccctg	gtctttggag	ggcatgacag	6000
	cttgtcaaca	tcggcatgaa	caccaaggtt	tgccctgctg	acacggctaa	cactaacctt	6060
	ggtgtcctga	aaagggtata	aagctgtccc	catcctctgc	caaaacagag	tccttaaagt	6120
10	cccaacgttt	ttgcctctcc	agctcctgag	tcaaagttca	gccaatgcc	tctgtttggg	6180
	ggagcccaga	tcatatgccc	acaccttagc	tatggagggg	gctgggaaag	ccagatgctg	6240
	acctgtttca	cttctcatgg	gaggaggtgg	tctctgcctt	ctgacagact	cgcaaagtag	6300
	ggaattctcc	cacgcagaaa	gtggggtcag	atgatgagct	gccgtaaaga	atggctaata	6360
	ttgtcctcac	aggggttgag	ggatagggta	attgtgctgg	tttttaacgg	gttgaaggat	6420
15	catagccaaa	gcttgctaata	taattgattc	tttttaatcc	agaggactgg	ttttattgga	6480
	ataccacaga	actctgcatt	atcgtgccac	atgagggttt	tttgttgttg	ttgtgttttt	6540
	ttgtttttgt	ttttgtttta	tcagtggcct	ggccaaagac	caaaaataaa	cttgttgtat	6600
	ttgcaggtga	cacagagaat	gagtggaata	ctaatacatt	gaagggcaaa	atcaaaaccc	6660
	cagaagatct	ctaaaagtct	gaatgaatca	gcccataatta	caagataaag	tccataatgg	6720
20	taaacggaag	gctctggtct	tggtttacaa	aatccaacca	ctcaaatatg	tagttgctgg	6780
	taagaaaaaa	agccataatt	tcatgtgggt	gccaagaaag	ctcattaat	ccttggctgc	6840
	attaatagat	gtatggtatt	tccaacaaag	ccttctgcct	cattctgcac	tggagagacc	6900
	acagctgagc	cctgtgccaa	gctatgtgca	ccacagtttt	caaagggtc	gacgagttgg	6960
	aggctgttca	gaggggagca	gcgggggtgg	agacactctc	agccccttcg	tagaggaaga	7020
25	atgataccac	cgcaggagct	cgccatgaa	gaagggccat	ggggggagtg	atgacatagt	7080
	ggtcaccaat	tttctacaga	gctttcacat	ggaagatggg	tacgatttat	cccacggggt	7140
	gtcaaggcat	gaaattaggt	acaattgatg	taaattatag	ggaatcttca	gtctaagaaa	7200
	gggtttccac	tggagcaacc	caaaagtgga	tgagtctatg	ttgggagggg	gcaagttacc	7260
	tcctgtcac	tgaagacggt	cagattcgag	actggatggc	cagcatccag	gggtgctgtc	7320
30	aaggggcctc	aagctatggt	tagtctaaac	gaactttcag	ccttaagagt	atattttttt	7380
	taatgaaaac	ataaggcatt	acaaaggaga	gatgagccag	gtgtgggtggc	atatgcctat	7440

ES 2 784 246 T3

	ggtctcagct	actcgggagg	tgaggtggga	ggatcttttg	agcctagaag	atagaggttg	7500
	cagtgagcca	tgattgcacc	actgcctggg	tgacagagtg	agacctgtc	tctaattgtta	7560
	aaagaaaaac	cacagagacg	tttaacttaa	cagagtttaa	ttgagcaaaa	aattatttgt	7620
	gaatagggca	gcccctggac	cagaatgggt	tcagagaagc	tccagcttag	gcacatgggtg	7680
5	gaggaagatt	tacggacaga	aaaaggaaag	ggatgtacag	gaaacagaag	cgaggcacag	7740
	aaagagccag	gctggttact	gctggatgat	tgccctgttt	gttcatgggt	tgaagaactg	7800
	cccgcctttg	gccggaactg	ggtgattgac	acaagagtag	gcagccgtgt	gtttacacac	7860
	cctgtcaggt	gacagtgcac	tatgcatgag	cacagcttta	ggcagaatgt	aaactataag	7920
	gaggcagcat	tgggctaaac	ttaattttac	actaaataaa	gtctaaaaaa	tttaaaagca	7980
10	tttttaaagg	taatagaagt	tagctgtgat	gtgcatgtga	acatttaaac	tacatttttc	8040
	gttttttttt	taaaaaggaa	gttttgtggc	catggggatg	ctgacaaaga	ttgcttggga	8100
	tgcacacaag	gcagcggcga	agcctgaggg	gtgctgccag	gccgggctct	ccactggcca	8160
	cggtaagaat	cttctggggc	ctgtttgttt	tgccctctgt	gagcatgggc	cacaatcacg	8220
	gggaaatgaa	ttgctaggaa	gtcaattcct	ctctgaagga	aggactcaa	agagagctga	8280
15	ggctgccgtg	ttttctggcc	gcccacacaa	gccaacaagc	tattccctgg	gggcaaccac	8340
	taatctctaa	ccagacaacc	ggtaatctct	tattcattct	ccgttgaatt	cttgggctac	8400
	actcaattta	taatagaact	taaagaatgt	cctcatttta	tctagagggt	ttgtaatgcc	8460
	tttatttcga	ttcctcatga	atcattatag	tcatggatac	ctgtgaacca	cagcttcctt	8520
	gtagagaggg	gagaggggaa	taagtgaaat	tactccggag	aaaacaaaca	aggacgttta	8580
20	gctccagggc	atgtggagag	ccacagtctg	agtctctcac	tcgcatacca	ggagataaat	8640
	aattcagagg	cctaacaaag	ggaggcggag	tagtcaaact	ggttgaacac	ctggtcggct	8700
	gcaccagct	aaacagggct	ggtgtctgtg	agggcttct	aatcattgtg	gatgacattt	8760
	aaagacaaca	ctcatagcaa	atattgcatt	agaattttct	gcttccaaga	taccagtcag	8820
	agtaagggtg	ggagagaaat	gagggaaaga	acagataccc	tactacttat	cagattgcct	8880
25	tagagtacac	atcatgaaag	taattatgat	tttctttttg	agatggagtc	ttgctctgtc	8940
	tcccaggctg	gagtgcaatg	gcatgatctc	agctcactgc	aacctccatc	tcccaggttc	9000
	aagtgattct	cctgcctcag	cctcctgagt	agctgggact	acaggcaccc	gccaccacgc	9060
	ttgcctaatt	tttgtatttt	tagtagagaa	ggggtttcat	cacgttggcc	aggctagtct	9120
	caaactcctg	acctcaggtg	atccaccac	ctcagcctcc	caaagtgttg	ggattaaagg	9180
30	tgtgagccac	cacacctggc	ctaattatga	tttttaagat	gacaacaggg	ctatcaatgt	9240
	tcatgtcttt	gtgtcctcta	taagagatca	atgtatctct	tgccctgaata	cttccccaga	9300

ES 2 784 246 T3

	ttagatttct	ggaagctcaa	agtagtgctg	attgctgtct	ggtcctggtc	ttgcaatcac	9360
	accccaccaa	atgtaggcaa	attgtcagtg	tacaaggctg	cctctgtggt	gggaacattt	9420
	tgggaacata	aaagggaggc	agggatttct	cttttttttc	gagacagagt	ctcactttgt	9480
	caccagggcc	ggagtgcagt	ggcatgatct	cagctcactg	caacctccac	ctcccggggt	9540
5	cgagtgattc	tcctgcctta	gcctcctgag	tagctgggac	tataggcgcc	caccaccacg	9600
	cccagcta	at	ttt	gt	attt	ttt	9660
	cttgatctct	tgacctcgtg	atctgcccac	tttggcctcc	caaagtgttg	ggattacagg	9720
	catgagccac	cgcacccggc	ctgagggcag	gtattttctaa	tgtgtagtgg	gtttcaagtt	9780
	tacagtgaca	tctcagagct	gcaaaaatga	aacattattt	ctctataact	gtactcaatt	9840
10	tacttatgaa	gtagtggaaa	actcttcac	ttggcacttt	aggataactg	acacccttct	9900
	ggtttcaaag	cttcttttagg	gtaattcctc	agtcaatcca	ggattttaat	tccatcaggg	9960
	ccacactccc	tcatctcctc	ctctggatga	gccccaggtc	tgtcccatgc	ttcctgttct	10020
	ccggcccccc	ttggccttgg	agacatcttg	ttgccttggg	ggtgcgtgtc	agtcttggtc	10080
	actgttgctc	tcaccattga	cccagtttgt	cagctgctct	taggcaacaa	aaggagaggt	10140
15	ggctgttccc	tgccggccag	gccccgtcac	tgcagtggca	gtgctgctct	ggccaaggct	10200
	tcattctctg	ccaccttct	caccctcacc	aggcgctaog	ggctcttccc	ctgatttccc	10260
	cacacaggaa	ggaagtaggg	gagactcagg	tggggcggtt	cttggaggcc	cattttcagt	10320
	ccaggtctgc	cctgcctgcc	tttccgctct	gcttctctcc	cctctcatgt	tcttgtgggtg	10380
	ctggaagcaa	gggttttaga	gcaaaacaagg	gccacgtccc	ttctgccctt	accctgtac	10440
20	tctctgtccc	ctgccagtga	aatgtcggct	aaggaggcag	agccaccgcc	cccttgggaa	10500
	caagcacacc	tctgtctgta	tctcttacia	ctcttctctc	ctccccatt	tctgtctccc	10560
	agttccctgg	gtgctgagtc	aggaaagcct	ttatttcccc	cccctcccc	agtaagcttt	10620
	tgcagtgcca	ggaaagctat	ttttttaatg	cttattaaaa	aaattttttt	ttcgagacag	10680
	agtctcattc	tgtcgcacag	gctggagtgc	agtgacgcaa	tctcggctca	ctgcaacctc	10740
25	catctcccag	gttcacgcca	ttctcctgcc	tcagccttct	gagtagctgg	gactacaggg	10800
	gcccggcacc	acgcccggct	aatttttttt	tgtattttta	gtagagacgg	ggttttacca	10860
	tgttagccag	gatggtttcg	atctcctgac	ctcatgatcc	tcccacctcg	gcctcccaaa	10920
	gtgctgggat	tacaggcgtg	agccaccgtg	cccggccccg	gctaattttt	ttgtattttt	10980
	cgtagagacg	gggtttcact	gtgttagaca	ggatggtctc	aatctcctga	cctcgtgatc	11040
30	cgctacctt	ggcctcccaa	agtgctggga	ttacaggcat	gagccactgc	gcccggccaa	11100
	aaaatttttt	ttgtttaag	aatagggtct	tgctatgctc	aggctggcct	cgatctcctg	11160

ES 2 784 246 T3

	ggctcaagca	atcctcctgc	ctcagcctcc	taagtagctg	gcaatacaga	tgtgtgccac	11220
	catgcctggg	cagcaatttg	tattgctttc	ttttatgggtg	gagaaatgac	cttgtgccat	11280
	gagctgcatc	ctttagagca	gggtgtccaa	tcttttggct	ttcctggggc	acattggaag	11340
	aagaatcgtc	ttgggccaca	tataaaatat	gctaactacta	atgatagcta	atgagctaaa	11400
5	aaaaaaaaa	attcaaaaag	tctcataatg	ttttaagaaa	gtttatgaat	ttgtgttggg	11460
	ctgcattcaa	agccatcctg	gccacagatt	ggacaagttg	ctttatcgta	acacctataa	11520
	atgctatgct	ctgtcccca	agcttttact	atcatcttgc	ttatttatgc	ctagtgttcc	11580
	attattggaa	cggtaagcat	gtgggagtta	tttatatcct	actgctcaag	gcatttccaa	11640
	ggtctgattt	ttcaaatata	aaaaattgcc	acctcagcca	taaattgggtt	aaaactaagc	11700
10	cattttgaaa	ttcagaacaa	aactgcctct	ctctcacatg	actagctctt	tcaagcgact	11760
	gtggcttcag	atattgtgaa	ttatccatcc	gctcagcacc	tcttggtgc	tttgttctcg	11820
	ctgttttcac	tttctcctga	agtaatgaat	gccattgagc	caatgggggc	agagtcaata	11880
	actttgaaga	aaaagaacct	cagtttaaaa	tttcaaaata	ttatttttaa	tttttgataa	11940
	cttatatgcc	ttcactccaa	ataaatgaag	atcaaaatat	gtgaataaaa	ttcaagatga	12000
15	caggccgggt	gtgatggctc	acatctgtaa	tcccagcact	ttgggaggct	gaggcaggca	12060
	gatcatgagg	tcaggagttc	gagactagcc	tggccaacat	agtaaaacc	catttctact	12120
	aaaaatacaa	aaattagcca	gagtgatggc	acatgcctgt	agtcccagct	actcaggagg	12180
	ctgagggtggg	agaatcgctt	gaactcggga	ggcagaggtt	gcagtgagcc	gagaccatgc	12240
	cattgcactc	cagcctgggt	gacaaaaaaa	aaaaaatcaa	gatgacatca	ctctagtttg	12300
20	tccaatcct	ggtgtagctt	gagtaaggaa	aagcagatgc	cctcgttata	ggtctaagtc	12360
	tcgcaccaag	gttgcctcatg	tttctgtttt	taaaccttcc	acaagaaaa	tcacatgtag	12420
	gtcacactgt	cctcactaat	atctggtgga	gcctcatatc	atctggattc	ctgttttcac	12480
	ctataagaac	tgatagtttt	gtttgtttgt	ttttgttttt	gagacggggt	cttgctctgt	12540
	tgcctaggca	ggagaagtgc	agtgggtgta	tcatagttta	ctgcagcctt	gacctcctgg	12600
25	gctcaggcga	acctcccacc	tcagcatcct	gagtagctgg	gactacaggc	atgcccacac	12660
	atgcccagct	aattttttgt	attttcagta	gagacagggt	tttgccatgt	tgcccagcct	12720
	ggtcttgagc	cccagggctc	aagggatcca	cccacctcag	cctcctaaag	tgccgggatt	12780
	acaggcatga	gccacctcat	ctggcagaac	tacttttttt	ttttttttga	gatgaagttt	12840
	tgctcttgtc	gccaggctg	gagtgcgggtg	gcacgatctc	agttcattgc	aacctccgcc	12900
30	tcccaggttc	aagtgattct	cctgtctcag	cctctcgagt	aactaggatt	acagggtgtc	12960
	accaccacgc	gcctggctaa	ttttgtatt	tttagtagag	acggggtttt	tgccattttg	13020

ES 2 784 246 T3

	gccaggctgc	tctcaaactc	ctgacctcag	atgatctgca	agcctcggcc	tcccaaagtg	13080
	ctgggattac	cgtgagccac	tgtgcctggc	ccagtgga	tgatttttaa	tgaggcagag	13140
	ggagcagcgt	ttgattcaca	cacatttagt	gtatactggt	ttcaacagtt	taccacatgc	13200
	tgcagggggc	agaggtggat	ccaggttttg	ggaggcctga	agcttacaga	atctggggcg	13260
5	cctttttaag	tagaagaata	caaagttatg	tagataaata	gttatcacat	aatgagcaaa	13320
	gaatgtacag	caaatcacat	tatcaaaagc	taacaaatca	cacaaaatca	taaaactcca	13380
	aaaagtacat	aatattttat	taaccacttg	ctatactttt	tttttttttt	tttttttttg	13440
	agacagagtc	tcaactctggt	gcccaggctg	gagtgacagtg	gctcgatctc	ggctcactgc	13500
	aacctctgcc	tcccaggttc	aagagatact	ccagcctcag	cctcctgtag	ctgggattac	13560
10	aggcatgagc	cactgcgcct	ggcccacttg	ctatacttct	atcgtactcc	cctaccctt	13620
	gtattttttg	gctgtgtatt	cttaggtgac	cttttgagag	aaaacaattt	tataatttca	13680
	ttttctctaa	agagaataga	atcattcagt	ttttcttcta	gcatggtgga	ttgcaatgta	13740
	cttatacata	gtttgaaagt	tttgtttggt	aatgtcattt	aaaactttct	tttttttttc	13800
	tttttttttt	tgagaccgag	tctcactcta	ttgcccaggc	tgagtgagcag	tggtatgatc	13860
15	tgggctcact	gcaccctccg	cctcctgggt	tccagtgatt	ctcctgcggt	agcctcccaa	13920
	gtagctggga	taatatatgt	gtgccacaac	accggctac	ttttgtact	tttagtagag	13980
	ataggcgttt	caccatgttg	gccaaagctgg	tctcgaactc	ctgagctcag	gtgattgcc	14040
	acctcagcct	cccaaagtgc	tggtattaca	ggtgtgaacc	actgcgcctg	gcctgtcatt	14100
	taaaattcta	tccaaggttg	ttgttaaatt	tggtataacc	tctatcaagt	tctcttgata	14160
20	tacatacaag	ctataaaatt	ggaaagaata	ttccccaga	ctggcttctg	gctccaaact	14220
	gtgttttatg	ttcatgagac	acatacttgt	ggtgccagaa	gccacagcac	acatttatat	14280
	catgatgcaa	attttggcct	gcaccttcat	gtcctgatgc	ccagtgagtt	ggcacagggga	14340
	gagggcgttt	tcctggaagc	cattcctaca	tcaggatgag	tagcaataac	ttcaactatg	14400
	cacagacaca	tctgcaaatc	agatgactgt	gttttaccaa	gtccaactaa	atgtaccct	14460
25	aactcaactt	gccgttagcc	aattcccaa	aatgctcaca	gccacttcta	ggaccctaa	14520
	cacaagtggc	gttgagcag	aatgcaaatg	atcttaatcc	cctaaaattg	cagtttctta	14580
	cttatagaaa	ttttatatat	aaacacacac	acacacggct	aagggtcctt	gtagggcctt	14640
	ggaaggagcc	cgtgcaaattg	agggattctg	aagcttcaac	cccattagct	tactgcaca	14700
	gccatagctg	atgggggtggg	aggatggatg	ctgagcaaaag	ccagaaatca	ggttcttgct	14760
30	gagaagacca	acacaaaaga	ccacgatgcc	acagtccgca	gtccagtgac	ttgctgactg	14820
	tgctcactctg	aaggagagat	acgggtggga	taaataaaagc	cctgagtgcc	agctcagaag	14880

ES 2 784 246 T3

	gagccagggg	ggatthttctg	caggccccgg	taccacagct	tacatcgccc	tcttggta	14940
	gcctcatcat	gatgagtttc	aagagagaat	tcaacaacgg	ctctctccc	ttactgttt	15000
	ggatgctaaa	gtgttgat	ttttgttatt	actgtttcta	attcagatgg	ctgatcaaac	15060
	tcggtgtttt	ctgatgcatc	tgtgaacaaa	gattacactt	agataatgtc	taaaatgcaa	15120
5	tgccagctga	gtgcagtgac	tcacgcctgt	aatctcagca	cttagggagg	ccaaggcagg	15180
	aggattgctt	gagccaagga	atthgagacc	agcctgagcc	atattgtgag	gccccatctc	15240
	cacaaaaaaaa	tttaaaaatt	agcctgcagt	cccagctatt	tgggaggcag	aggtgggagg	15300
	atcctttgag	cccaggagggt	caagactgca	gtgagccatg	atcatgccac	tgactccag	15360
	cctgggtgat	agagtgat	cctgtctcaa	aaaaataata	aaataataaa	acaaaataaa	15420
10	ataaaataaa	atgcagtgac	acttctaccc	tcatatgctg	gagtttgatg	ggggagcaca	15480
	ttgatttaga	tgccgcaaaa	gcagcattta	gctgtggaat	tacagtcggt	accatttgg	15540
	gtatatttta	ctctgcctgg	aagagttcat	gtgtttcacg	gttgctacta	ggtaaggacg	15600
	caggccctgg	gagatcctgg	ttcaacagtg	actgtcttat	gtaacagagt	cattctcttt	15660
	atgaccacct	taggaaccgc	taaggaacat	aataagaaat	acacagaact	gattgtggaa	15720
15	ctgctctttc	tccctgcgat	tcagagggga	aaagataaag	ccacacagcc	ctggggcctc	15780
	ttgcttaaga	acacatctca	gtttaaccac	caaggccgtt	atgataaaa	atgtcagtat	15840
	ggaggtgtga	acatcagggg	ctattcaagg	acgcttctct	gatcactgcc	atgtctatct	15900
	gctgtgatca	cgactattht	ataaacaccc	ttcctacca	atgcatcag	aattttaggg	15960
	acgatgcttc	agtaattatc	ttttttccc	tcctctcc	ctatthtctt	tttctctga	16020
20	atagctgcca	aagtaactag	agtcataata	ttttagagct	ggaagctcag	ggagaggctt	16080
	ggatcctgat	gaccaagca	tgggaggggc	ctgaaaaaat	gtcaacagcg	ctccgttgtt	16140
	gatccccacac	atthacttaa	tatgagctgg	tgctggcaga	ggtttatgtt	ggaaaggctg	16200
	caactthtctg	tgccccacat	aaatgagata	aaacctgggg	aaaggagtgt	tggthtaaat	16260
	cagaaaggct	ctggtthtta	tttgatacta	aacaaatcat	gcagthtaca	agtctgtgac	16320
25	actctaagag	ttactagca	gtthtgttht	thtctthttht	tttgagacgg	agthtctctc	16380
	ttgttgctta	gtctagagtg	caatggcgca	atctcgctc	accgcaacct	ctgcctcca	16440
	ggttcaagca	atctctctac	ctcagcctcc	cgactagctg	ggattacagg	catgcgccac	16500
	catgcgcagc	tgatthttht	atthttaaata	gagacaggg	ttctccatat	tggtcaggct	16560
	ggtctcgaac	tcccagcctc	aggtgatccg	cctgcctcgg	cctcccaaag	tgctgggatt	16620
30	acaggcgtga	gccactgtgc	ccggcctaat	cagcagthttht	taacatgcta	cacagggtct	16680
	gggaaagaca	gctgccaagt	tgggggcttht	gaaaatatga	gacatctgta	aataataacc	16740



ES 2 784 246 T3

	tttgggtatt	tcacctgtgt	ttgcttcttt	atattacttt	tgtgtgtgtg	tgtgtgtgtt	16800
	ttgagacaga	gtgtcttgtc	accaggtctg	gggtgcagtg	gcgtgatctc	ggctcactgc	16860
	aacctccacc	tcttgggttc	aagcaattct	cctgcctcag	cctccctcag	gcacttgcca	16920
	caatgcatgg	ctaatttttg	tatttttagt	agagacggag	ttttgccatg	ttggccaggc	16980
5	tggctttgaa	ctcctgacct	caggtgatcc	acccgcctcg	gcttcccaaa	gtgctgggat	17040
	tataggcgtg	agccaccatg	cctggcatat	attactttgt	tctaaaatta	atttagatct	17100
	ggcatcctct	ttttgtccct	caaatgttat	tttaccaaaa	catatattat	tgggacaaga	17160
	ggcaaattgc	atggccaagt	tgaatgacgt	tattccccac	tctgacagct	tttgttttta	17220
	actctagaat	ttgtacatat	ggctttggaa	acctcatcca	acactaagta	atgaacatac	17280
10	atgaggatac	tatgtatfff	tcaacctgca	agcccaagat	ttcaaattct	ttggtttatc	17340
	gcagagaaca	catctctcaa	attgtcttca	aggagcactg	caggaggtac	aatccattcc	17400
	ccactaacc	aggaagactg	tctgaatfff	ttcagaggga	agatgggtgg	gggagaagtg	17460
	gggatggtta	atgggtacaa	aaaaaaaaaa	tagaaagaat	gaataagacc	taatatttga	17520
	tagcacaaca	gggtgactat	agtcaataat	aatttaactg	cacttttaaa	aataatgaaa	17580
15	agagtataac	tggattgfff	ataacataaa	aaataaatac	ttaaggggac	agatacctcg	17640
	ttttccatga	ggtgattatt	atgcattgca	tacctgtatc	cagagtatct	catgcaacc	17700
	ataaatatat	acacctacta	tgtaccaca	aaaattaaac	attaaaaagt	taatcttttt	17760
	aatgtttaat	tttttttttt	gagacaggcg	tggcttggc	tactgcaac	ctctgcctcc	17820
	tgggttcaag	caatcctagt	gcctcagcct	cgggaatagc	tgggattaca	ggcctgtggc	17880
20	accacgcca	gctaatttct	gtatttttag	tggagacagg	gttttgctat	gttggccagg	17940
	ctgaactcct	gacctcaggt	gatctgcctg	ccttggcctc	caaagtgct	gagattacag	18000
	gcatgaggca	ctgtgcctgg	acagaaagtt	tttaaaaaaa	atgtgttcag	aggaacca	18060
	tttctcttct	tgctacacag	acagccaggc	ctgacttgca	ctgtttctat	ccccccaca	18120
	aaaagcaac	aacatcaccg	agaagatagt	tctgtttgtc	ttgatgatca	acatagatct	18180
25	gtatagttga	ttttgtgcca	gcaacaggct	ccagtcacaa	caacatgaga	ttccaggcct	18240
	ttttgcctgc	catgctggac	acagactggg	ccatagagaa	taggagaacc	cgtgtgttct	18300
	tctgagttgt	ctgtgaagaa	aaatacacgg	ggagaggggt	agacgtgagt	tcctggaaga	18360
	gtggagatgt	gtggggaatt	ctccagcgtt	ccttaattag	aaacacgact	cagtgatggt	18420
	ctttggagcc	caagacccca	ggaggcactg	agtccagtgg	tcccaggaag	ctaaaaatga	18480
30	gggcaagagt	cagcgtggct	ttaaaaatct	ctgatcactc	atccccaga	atgaaatctg	18540
	ggactcaaaa	gctctgatgg	aaatgaagca	gacttttagga	ggtctggttt	cgggggtgct	18600

ES 2 784 246 T3

	ccaggagctg	aatgtgaaat	gttatttggt	ccagaaagtc	ctggcaactt	ggcgcagcga	18660
	at ttgatcag	caccatacgt	acgacctgtc	tcaggaacgg	tgccatgtgt	gtgactagga	18720
	ctgcaaagca	gcttgtgttc	gtgggggaaa	tgacaggcac	aggaaggaaa	agctgagaac	18780
	actgaaacgg	ttcctaatac	tgcagtgggg	aaaggagggc	gactgccgcg	cagagtggca	18840
5	cg ttggctgg	aagaggggat	tgatcagcag	tgctggcagg	aacagcatag	gcttgtcgtg	18900
	tgatctaaca	gaagaggcag	caatctggag	gcgcccaga	tcagagaaga	gacatcaagc	18960
	cccaggagaa	atggatttcc	tttctcccca	cccatcagct	gggtaggaag	cccgaaggag	19020
	cctttcatgg	aactatggga	agggctcctc	tgacgcagag	gggatgaact	ggaagcaaga	19080
	tgctgactgt	ttccaaaggc	ttgacagtca	gaagcaggca	ggcttcagcc	tattgagata	19140
10	ctttacccaa	gaggatttcc	gcttaggttc	tgtcttghaa	gaaatattcg	ctcccaaatt	19200
	tcctcccac	aagagtgtt	ctccctacag	aaggctaagg	ctcacaggtt	gtcccagggg	19260
	acacatttct	ttcaagtagg	atgactggta	tgttttagact	gaaaagctga	tttactggaa	9320
	gattgctatc	accccctggc	ctaccatgtc	gttgggtgtg	ccagtgttta	tcagacagtg	9380
	gtgtttccag	cttaggcctg	aatggaagaa	gaaactgaaa	gaagaaataa	aaagagagat	9440
15	gcgccgggca	tggtggctca	tgctgtaat	cccagtgtt	tgggaggccg	aggtggcaga	9500
	ccacttgagg	tcaggagttc	aagaccagcc	tggccaacat	ggtgaaacct	cg tccctact	9560
	aaaaatacaa	aaaattagct	gggtgtggtg	gcgtgtgcct	gtggtcccag	ctactccgga	9620
	ggctgaggca	ggagaattgc	ttgaaccogg	gaggcggagg	ttgcagttag	ccaagattgt	9680
	accactgcac	tccagcctgg	gcaacagagt	gatactctct	caaacaagac	aaaacaaaca	9740
20	aaaaagagga	ggctcggcac	ggtggctcac	gcctgtaatc	ccaccacttt	ggtaggctga	9800
	ggctggcata	tcacttgagg	ttgggagttc	gagaccagcc	tgaccaatat	ggagaaacct	9860
	catctctact	aaaaatgcaa	aatcagccag	gtgtggtggc	gcatgcctgt	aatcccagct	9920
	actcagaagg	ttgaggcagg	agaatcgctt	gaaccoggga	ggcagaggtt	gcggtgagcc	9980
	aagatcacgc	cattttactc	cagcctaggc	aacaagagca	aaactccatc	tcaaaaaaaaa	20040
25	aaaaaaaaaa	atggagagag	agatgtttct	cagctttggg	aaatgctgac	ttttccagca	20100
	cacctttgct	cagaaaagcc	ctatgatata	aagtgtcata	ggaaccttgt	ccttggaaacc	20160
	aagcctagcc	taggctcagg	gacatcatgt	gggagtgaca	taaaggaggc	tcctctgtca	20220
	ctgtgcttgg	gttacaagta	attctcgaca	tgggagcatg	ttgatttcta	accatcgggtg	20280
	gcgagctgt	gacttcccaa	gctggtggct	gacctcaaga	ggactattat	agacactgtg	20340
30	ggaccacggc	ctgagaaaag	aatggctacc	tccctctcta	tcccatgacc	tctaacggcc	20400
	cggtcaccac	catggccttt	tgttcctgga	gagggacagg	aactttggaa	agtggggctg	20460

ES 2 784 246 T3

	ctctattgct	tctgcaggtc	atcttcccag	acttgcctaa	gcctcagaat	ctcagtcttc	20520
	tgctctgttt	tgcacgtctt	ttttgaaagg	tttttaaaaa	ttacaatcta	ctgtacagaa	20580
	gaaaataata	cacagaaaat	aattttagaa	aataatacaa	cagatatcta	agtatccacc	20640
	accagattg	gacaacatat	taacattttg	ccccatctat	atcagatatt	atttattttc	20700
5	ttttttactt	atttttgaga	cagaatctcg	ctctgtcgcc	caggctggag	cgcagtggtg	20760
	tgatctcagc	tactgcaac	ctctgcctcc	caggttcaag	cgattctcct	gcctcagcct	20820
	cccagtagc	tgggactagt	ggtgtgcacc	accatgcca	gctaactttt	gtatttttag	20880
	tagagacagg	gtttcaccat	gttggccagg	atggtctcga	tctcttgatc	tcgtgatccg	20940
	ccgcctcag	ccttctacag	tgctgggatt	acaggcatga	gccacctcgc	ccagcctatt	21000
10	tttatttttt	ttaagacatg	gtcttgctct	gtcaccagg	ctggagtgca	gtggcacgat	21060
	cttggttac	tgtggccttg	accttccagg	tgcaagcaat	cctcccatct	cagcctcctg	21120
	tgtagctggg	actacaggag	catactgcca	cacttggtg	attaaaacat	tttttctttc	21180
	tgcagagaca	gggtcttacc	atgttgctta	ggctggtctt	gaactcctgg	gctcaagtga	21240
	ttcccctgcc	tccggctccc	aaagtaatgg	gattacaggc	atgagccagc	atgccagcc	21300
15	tatatcagat	ttttttaaaa	ttgcagatag	aattaaaac	ttgcttatct	attttttagta	21360
	gagggaaaaa	cctaaataag	tttaattcta	gtaagttgct	gactctacac	aacaacttcc	21420
	tttcagtctt	cagataatgg	aaactttgtg	gatttatgca	cagcacccaa	accccagaga	21480
	tctgccccaa	cagaaagatt	gccaacaaaa	tgtttgtctt	aataactgaa	caaatttttc	21540
	tcaaacttac	attgtatatt	tttctccacc	agtttgctaa	atgtccacaa	ggttaatacc	21600
20	cgccagcca	aatgaaaaga	ccactgggat	caggtgcggt	ggctcacacc	tgttatctgt	21660
	tccagctact	tggggaggct	gaggtgggag	gatcgctgta	gcctgggaaa	tcgaggccgc	21720
	agtgagctat	gatcaagcca	ctgcactcca	gcctggccaa	cagcgcaaga	gcctgctcta	21780
	aaaaatcaaa	ataaaaaaaaa	aaagagcatt	gggtctccaa	aggtaacagg	tgtgaaatac	21840
	accttagcct	actcagaatt	ttgccccatg	aaataagtaa	ggattattaa	atatttctgg	21900
25	aaactcaaac	aactctttta	acaatgttca	caatttttca	atgtccacat	cagccaaacc	21960
	cacggaaagc	taagcattaa	ttcacctact	gttgagagg	ctagactatt	taaggaatct	22020
	ctcctgaatt	ctagtctctga	atltccaatg	caactcgtgt	ccactagaat	gttctgtgaa	22080
	tgtttcaagc	ttgaaacgcc	tgcagccaaa	cttgttttct	ttccatccaa	ttatatectc	22140
	tttccaatgt	tccccttttt	tcattaaagg	caccactatt	cttcagcca	tcctgattca	22200
30	cagcctcaga	gctggcctca	atltccttgt	ctccttcgtc	ttccacatcc	aattattcac	22260
	taaatcctgt	tgaatttttc	tcaaaaatatt	tcttgcacct	gtttactcca	ttctgctccc	22320

ES 2 784 246 T3

	actgccacct	ttctaataa	gtattttcca	cctgtgtgtt	tcggctcctg	cagcagattc	22380
	tgcatctccc	ctttctcctt	tcaatgaatt	atcagtatca	gattaatctg	ctgaaagaag	22440
	cactgtgtgc	catcctgctc	aacataattc	agtgattccc	agatggctta	ccaaataaca	22500
	gcttttaaaa	aaatccagaa	ccttcagtga	tcttcacgat	ctttatatgt	ccaccttcc	22560
5	agacacatcc	cacattagga	accattgaa	acctctgccc	caggcgcatg	gcactactgg	22620
	cttgctaatt	ctgattcctg	ttcaagtatt	tctttggcct	aagtattcct	tcccctcctt	22680
	cactacatga	accaatcttc	atggtgctta	atatgaacca	gatcatctgg	tgggcctcta	22740
	atacaacagt	gaacaagaca	gaaacaaccc	ctgcctccat	atactcctta	cagcctagtg	22800
	gagaaaacaa	aagatgaact	ggcagttggc	atgccaggct	gtgcaggaag	aactgtgaca	22860
10	aggaaagaca	aggctgaggt	gggcggatca	cttgaggtea	ggagctcaag	accagcctgg	22920
	ccaacatggt	gaaaccctgt	ctctacaaac	aaaaaaaaaa	attagctggt	gtggtggtgg	22980
	gcgctgttag	tcacagctac	tcagtaggct	gaggtgggag	aatctcttga	accagaggag	23040
	tggagattgc	agtgagctga	gattgtgcca	ttgactcca	gcctaggtga	cagaatgaga	23100
	cgctgtctca	aaaaaaaaaa	aaaaaaaggc	caggaccca	gagccaggca	tggggattca	23160
15	gagcaggctt	ttcagaggaa	gggataccca	accaagtttt	gatctgttct	tcatgatggc	23220
	tagtgaggtg	aaggagaggg	agaagggtca	gaaaagaact	ctacagcaga	gagaatcatc	23280
	ctgctcagcc	cctatccaac	ctttaatgcc	cacctcaaat	gccttccttt	tttttttttt	23340
	ttttttttga	gatggagtct	cgctctgtca	cccaggctgg	agtacagtgg	caccatcttg	23400
	gctcactgca	acctctgcct	cctgggttca	agtgattctc	ctgcctcagc	ctcccagata	23460
20	gctgggatta	caggtgccta	ccaccatgcc	cggctaattt	ttgtattttt	tagcacagac	23520
	agggtttcac	catattggcc	aggcttgtct	tgaactcctg	acctcaggtg	atccggctgc	23580
	cttagcctcc	caaagtattg	ggattacagg	catgagccac	tgcgccagc	ctcaaatgcc	23640
	ttcttgacca	ggccggtggt	gtactgtgag	aacacagact	taaagtcatc	cagaaacaaa	23700
	tcctaaccct	gcctctgctg	catgctagtt	gtgtacatga	ccacgcaaaa	tttgctcatt	23760
25	ctcaatatga	gtcaatctct	gaatctgtaa	aaataactct	tcttttgaca	gggtctccct	23820
	cggttgctca	ggctggtgtg	cagtggcatg	atcacaactc	actgcagcct	cgacttctctg	23880
	ggcccaagct	atccttcac	ctcagcctcc	tgagtagcta	ggactacagg	cgtgcaccac	23940
	tataaccacc	taactaaaag	acaatttttt	tgtaagggtg	gggtctcact	atggtgcca	24000
	ggctggtctc	aaacctctgg	gctcaagcga	tcttcctacc	tcagcctccc	aaagtgtctgg	24060
30	gattacaggc	atgagccact	gtgcccagca	gaaataactct	tacattacag	agtttattca	24120
	ttaaataaat	attaagcaca	agaaccacat	actcttctcc	gtgataagga	tacacttaag	24180

ES 2 784 246 T3

	aataggatag	aaatcttggc	tcttatggtg	cttacattct	agtaaggaaa	aggtgacagt	24240
	aaataagata	aatatgtaca	ttatggagta	tattggaggg	tgatggattc	tatggggaaa	24300
	atacgtcaga	gaagagagag	agtagggggg	aattgcaact	ttattcattt	gtttattatt	24360
	taactcattt	attcaaacia	atagtattga	aggtctgcta	catgccacac	cctggttctag	24420
5	gccctgggtg	tatagcaggg	aacaatggac	aataaccttt	gcctttatgg	agcttacatt	24480
	ctgatcagaa	agagagataa	gcaaaataaa	aatagaaaaa	tatggagatg	tagccgggcg	24540
	cagtggctta	cgctgtaat	cccagcactt	tgggagggcg	aggcaggcgg	atcacctgag	24600
	gtcaggagtt	tgagaccagc	ctggccaaca	tggtgaaacc	ccatctctac	taaaaataca	24660
	aaaattagtc	aggtgtggtg	gcacatgcgt	ataatcccag	ctactcggga	ggctgaggca	24720
10	ggagaatcac	ttgaaccag	caggtggaga	ttgcagtggg	ctgagattgt	gccattgcac	24780
	tccagcctgg	gcaacagagc	gagactccat	ctcaaaaaaa	aaaaaaaaag	ccaggtgtgg	24840
	tggctcacat	ctgtaatccc	agcactttgg	gaggctgagg	tgggtggatc	acgaggtcag	24900
	gagttcaaga	tcagcctggt	caacgtggtg	aaccctgtct	ctactaaaaa	tacaaaaatt	24960
	agctggacgt	ggtggcacgc	acctgtagtt	ccagctactc	aggaggccga	ggcaggagaa	25020
15	ttgtttgaac	ctgggagggc	gaggttgcag	tgagccaaga	aggcaccatt	gcactccatc	25080
	ctgggtgaca	agggtgaaac	tccgtctcaa	aaaaaaaaaa	aagaaaagaa	aaaaacatat	25140
	ggagatgtta	gtgcaaaata	gaaagatgga	taggaaaaat	agtagatgag	ttccaacatt	25200
	caacagggag	gccagctaac	ccgactgaga	aagcagtagt	tatgaaaagg	tgtggcggga	25260
	tctaggccag	ccgtgtgaac	aaatggagga	agagaattcc	aggaacagca	agtgcaaaaga	25320
20	tgccacattg	ggactgcatg	gtgtgggcag	gaggagcaag	tgaggggaga	gcagaaagag	25380
	gcaaacaggg	gagagcaagg	caggtcaggg	ccctgtgggt	tattgtaagg	actttggctt	25440
	ttactcggag	tgacaaggaa	acctagtttg	gagcagagga	gttaccgat	cagatttgta	25500
	ttttaacatg	gtggcgctgg	gtcaagaata	gtcaagaaga	gggaccaggg	cagacgctgg	25560
	cagggcagct	gggagaccac	cgcaatcacc	cagacaaggg	gtaaggaggg	tgtggacaag	25620
25	cgtgatggca	acagaagacg	ggcagatggc	agggttcttg	atgtatctta	aaagcagggc	25680
	taacaggact	tgtgatcaga	tacgggatgc	agaagaacta	aattgattcc	atTTTTGGCT	25740
	tgagcaactg	ggagaatgaa	atagctcttt	actgaggcag	ggaagactct	gggaggaaaa	25800
	ggttgggggg	aactatcagg	agtccagctt	ttgatgcgtt	gagtttgctt	tagggtgatc	25860
	ctgcaaagtt	tactgcaaaa	gggatagtt	cagtaaagac	ttgaaggaaa	tgaggagcag	25920
30	aacttgggaa	gattaaatga	aagggtgttt	gagagggcac	ttcgcatagt	gcagtgccgg	25980
	ccagctcagg	ctccgttaat	tccattccct	catccataac	aaacttcttc	cgctccaggg	26040

ES 2 784 246 T3

	ggcaggggct	gggaagcatc	agttcattat	tggaaaatcc	tcgctctagt	gggtaggctg	26100
	caccttggtg	attgtagttg	ccaaactcta	tttgctgaat	tcacgagaga	aaggaataag	26160
	ctataatcag	taaagaaaac	tgttccaacc	agcttcctt	tctccttccc	ttccaaagaa	26220
	gaggtttgag	ccaagatgct	cttgtgtccg	ggtgagggga	attagaggtc	tgaatcctct	26280
5	gtcttatggt	gaacacagcg	tgggggttct	ctgagtgtag	aaccacctgc	agcccaatga	26340
	gcagggatag	tggtaaaata	tgaattcttg	gaccctttcc	cagaccttct	cattttgagt	26400
	tgttagggga	gaaacgggta	tctttctggt	acagacacat	gcagtgcttc	cttgaaact	26460
	aaagtttaag	aactactgac	actaggggaag	atgacccttc	attgacattg	ctcctcggag	26520
	gcagatcatt	tccagccatg	atgtggtaaa	ttacagccgc	tctgcaattt	tatgaataat	26580
10	gtgtgctcat	cacctaataca	aacctctcca	gtggaggtag	aacctggctg	gctcagatcc	26640
	ccactcacat	tgtcaggtga	ttgctttagc	aaaaggcctt	ctgccaaata	cctcttggtt	26700
	gaactttgca	gcttgaggag	agaagtatgc	acgaacacat	aaatgccaaa	tctcttatta	26760
	ttctgagttt	tcaaacaatg	aatacgattc	cacccacat	tcttgagaaa	gggcagcaca	26820
	cctatctcac	cctcagctgt	gatgaagcaa	gaaactcagt	ttcttcacat	tgctcgggtga	26880
15	gtctatacca	caaacaggac	taaaagtcac	atgttggctt	tgggcaccat	tttatcgtga	26940
	gcctttcata	gcccatcttc	caaggctatt	aaaatatcag	ctccatgagg	gcaacattcg	27000
	tgttgtttat	tgctctcttc	ccagtgccta	gaagagtgtg	tggcacacag	tagtcattca	27060
	gtaaacggca	gaatgaatcc	attccacttc	ctaaagtgaa	gagccaaatc	gacacacatt	27120
	cccatctgtg	gagtatcaca	gtttcctgca	gtttacttcc	acatacctca	ctccaccagt	27180
20	taactacccc	ctatataaat	ctgtgcagtt	ttcacttaag	atataacttt	ctggtgaccc	27240
	cataaaaaat	tggcagaaat	tctcagaaag	gatgataatg	taattggtct	tgtggggaat	27300
	ccatggaggg	atatatttca	cattattcat	gtttccagat	gggcttcagt	ccccagtgca	27360
	gtcattccag	aaccctttct	cagcgttaag	tttactccga	aaaatataaa	tagtgattta	27420
	gggcttgatt	gctcccacaa	aaggcacccc	tgttttggtg	caggggtgga	aggggggag	27480
25	aggaagaggc	agctgggaag	ctgagtgagg	ggccaggcgc	ccgctgggtg	tgagccagca	27540
	gctggtcaga	gtatctctgg	aggatgaggg	tttcgcaggt	gggggctggg	gactagctag	27600
	agatgggatt	gtccgtggtc	aggcagttca	ggaagctttc	agcagcaata	aagcttgat	27660
	gtgggcatgc	caagcttgga	ggagatatgg	gtccattccc	atccttctga	aaaaacagtc	27720
	ttcaaacacc	acggctagtg	tccaaggcta	cttagctcag	ctgggtgggg	tgctgggcta	27780
30	ctaaaatttc	actgtagcat	ttcctgaatt	cttactaggc	tcatatatta	acaccttcaa	27840
	caaatatttg	tgtgtcagcc	tctatgctga	gggctgggga	tacagctatg	aacaaggctg	27900

ES 2 784 246 T3

	tgaactaagt	actgtttctt	taccagtgaa	ttcttccatt	tcatgggcct	ctgattctgg	27960
	ccctagtcag	atatttctca	aatgcctgac	gttgtttcca	aaggggtaca	ttcggagtag	28020
	ctagatcaca	gcaaacgctt	caagagttct	caacaatagg	tcagtggaac	cttgatattc	28080
	taaggacata	atgatctaata	ttagactgaa	aatcatctag	ccaaacacac	actaggcatt	28140
5	taattcatgt	aaggctcaat	cagaatgtca	gtatgaacca	gataggacag	agtgttcatt	28200
	tgcagagaac	aatatcccgg	cttgccctggg	cggctgcaaa	gcctttaaac	tgaaatcctt	28260
	gcttccactc	ttgctctgca	cagcagccaa	agaattttat	caaccctcca	ccggcttctc	28320
	gttgcaattc	gaataaaaatt	ccatctcctt	accaggatct	acgcagccct	ggagtctggc	28380
	ccctggttgt	atctctggaa	gctggtcctg	gccttgagat	tgacctgaaa	ctctttcccg	28440
10	cctcatcttt	tctcgcctgg	ctcctcatta	tgcagagctt	tgttcaaata	caaagctctc	28500
	cttcccaggg	aggtccttcc	tggccagtct	ttctgtagca	gttctggacc	ttccccacgg	28560
	catctcttta	tgtccttagc	gtatttctta	ttcttcatag	tgggaatatt	atagcaattt	28620
	atagcaataa	atgtttgttg	agtgaattaa	tatgcatcac	acttactaaa	cacccaaagg	28680
	ttttctgggg	atgtctatga	ctattaccag	atggccaatg	gtttgcggca	ctttatTTTT	28740
15	atattttttt	acagcccacc	cataggagat	gacagtactt	tattttatTT	tatttttatt	28800
	ttaagagaca	gggtctcact	gtgttatcca	ggctagtctc	gaactcctgg	gctcaagcag	28860
	tcttacctca	gctgcccaaa	gtgtcaccag	gctggagtgc	agtggcacga	tctcggctca	28920
	ctgcaacctc	agtgaggtgt	gagccaccac	ttttaaAACG	ggcctgacag	cactttttaa	28980
	aatcatatTT	gaaaacctgg	tacttgacac	agagccctag	aacctactat	taacaaagtg	29040
20	cttaaatattg	ttgttgTTgt	tgttaaattg	attctaacta	aattaacacc	agaccagtga	29100
	ctggaaaaat	cacatgtgac	caaagaatcc	cattgatggt	gtcagacaat	gaccaggaa	29160
	gaggagtTca	tagcggctgc	ttgtttcctt	actggaaatg	cagggtgaca	gcagaactca	29220
	gggaacatgg	tgctaccag	taaaagaaac	agtgcatagg	ccgggtgcgg	tggctcatac	29280
	ctgtaatccc	agctctttgg	gagcccagag	cgggcggatc	acctgaggtc	aggagtTcaa	29340
25	gaccagcctg	gccaatgtgg	tgaacccca	tctctactaa	aatacaaaaa	ttagccgggc	29400
	atgatggcga	gtgcctgtaa	tcccagctat	tcgggaggct	ggagactcgc	ttgaatccgg	29460
	gaggcggagg	ctgcagtgag	ctgagatcac	gccactgcac	tccagcctgg	tgacagagcg	29520
	agactccgTc	tcaaaaaaaaa	aagaaagaaa	gaaagaaaga	aacagtgcac	aacaggggca	29580
	gggctgTTtg	caatgtgatg	aaagcataat	ggtgctgcag	tcttgggcct	gatgtcatct	29640
30	tgagactgga	tgttggtagg	atggtgcctt	tctgtaatat	gtttagtagc	tgcaattgct	29700
	gaattgacag	cctctctgTt	taaaactgac	aaggagaaaa	ttaaagtttc	ccctgctttt	29760

ES 2 784 246 T3

	catgtcatgc	atgaataacc	aattgcttgg	cagctagtta	aaattcatat	ttctcttgtc	29820
	aggTTTTtag	agactgtgaa	gatcagggta	atgtaagcct	tcctctcttt	tgccctcttg	29880
	gctaactagc	tagttatatt	tgcatTTtctt	tttatataaa	tctTTTTttt	ttcctgtccc	29940
	tttgacagca	cagtatcaga	gatggcatat	tatcttcaga	tgtgccatgc	tggaaagcgt	30000
5	ttgctcttat	ataaatatag	aggcagaaaag	agactgtctt	tcttcgcacg	tatccaatcc	30060
	TTTTtaggtat	ccaatccttt	taatgactcc	aagtcaaagg	ttgTTTTttc	tcaccaacaa	30120
	aaaggatttg	tcaactacca	ggaatctgag	agTTTTctaa	tcctactggg	gtgggaagt	30180
	ctaaacattg	tgacatagac	TTTTctatTT	gtatagagtc	actcacagat	cctacaccat	30240
	gcaattgtat	cattgcctca	tggaaaagaa	gacgctcttc	aactttaaca	tgTTTTtgac	30300
10	acctgctaaa	cacctggtaa	tgctagcttt	ctactcaggt	ctcttctcag	ctctcttctc	30360
	agctctacag	attataaatc	TTtaatgctg	acaaaggagt	tatcctgctg	ctgccagaaa	30420
	gaagctacac	aaatTTtgcg	atgctgtgag	gcaaggcaca	aatctcagaa	ctgtggaaaa	30480
	cagagaatct	ttcccttctt	cagttgtgtc	ttcttgccac	aacttcata	gaatcgcagc	30540
	tgagagtac	tggcagctgt	agccacatct	tctctccaaa	tcacagagaa	ataactgagc	30600
15	ggggaattaa	gagttgtctc	tgggttgcac	aaacaatgtc	tcaggaacac	gctggccacc	30660
	actctgtatg	aggaatgaga	actggagcgc	aggatatgaa	TTTTtctcac	cctcaaaaaa	30720
	cccaggagag	ataccctcct	aaggTTtata	ggaaatttgt	tcctgacca	agggtcagag	30780
	aatagcttac	tatgaatTTT	aattggctcc	caagtaattg	ctaattcatc	tctgactttg	30840
	gcaggaaaaa	aaaatTTaat	gttaaagaaa	tgaatttagc	aggaagactt	TTTTcccttc	30900
20	TTTTctTTtc	TTTTttatat	gagcacggtc	ctacagctgt	tgaagcctaa	cagagaagat	30960
	ggtaaataaa	catgcagggc	taggggcggt	catttgcaga	actttctgct	tgaagaggag	31020
	cctggaaaac	tgcaaggactc	atttgggatt	acaaatcttt	TTTTTTTTtt	TTTTTTTTtt	31080
	TTTTTTTTga	gacagggcct	tactctgtca	cccaggctgg	agtgcaatgg	tgctatctca	31140
	gctcactaca	acctctgcct	cccaagttca	agtgattctc	ccacctcagc	ctcctgagta	31200
25	gctgggatta	caggcacatg	ccaccatgcc	cagctagttt	tagtattttt	agtagagatg	31260
	gggttctgcc	atgttgcca	ggctggctc	gaactcctga	cttcaggtga	tccatccgcc	31320
	tcggtatccc	aaagtgctga	gattacaggc	gtgagccact	gcgccgggcc	tggattataa	31380
	atctTTaatg	ctgacaaaagg	agttatcctg	ctactgccag	aaagaagcta	cacaaatTTT	31440
	gtgatgctgt	gaggcaaggc	acagtgggtg	cgagatgcag	aaggacagc	acacaggagg	31500
30	gcctgtcccc	accatgcaag	tcacatgaaa	ccaaaaccaa	cctaacttgg	gTTtgagaaa	1560
	ctaaagtccc	aggtgttggg	ctcacctctt	gtccttgtgg	acttcagagg	atccgtcttt	31620



ES 2 784 246 T3

	gtccctaacc	tttctctca	tttctccct	ccccaatttt	tttccctgac	atctctctgc	31680
	tcaaactcac	atctctctct	atctgatgtc	tgctacatat	ataacataca	acatgtttta	31740
	aaatgtatag	ttgaatcatc	aaacattgag	cattctttct	gggaatttat	gctgcctggc	31800
	agataacgtc	catctgttca	ctcgccattc	attgccagtc	acctgtgccc	ttgtctttct	31860
5	ctgttggtga	ggctaaagag	agaaattttc	aacttcccca	attgcccatg	gctaggtgga	31920
	acccgaggag	tctggttcct	gcttaaacc	catgtgtggc	tgggcacggt	ggctcacgac	31980
	cgtaatccca	gcactttagg	aggccgaggc	gggaggatca	cctgaggtca	ggagtttgag	32040
	accagcctgg	ccaatatggt	gaaaccctgt	ctctactaaa	aatacaaaaa	tcagcttggg	32100
	cgtggtacgg	gcgctgtaa	tcccagctac	tcgggaggtt	gaggcagaag	gatcgcttga	32160
10	acccgggagg	cggagctttc	agtaagccaa	gatcgcgcca	ctgcactcca	gcctgggtga	32220
	cagaacgaga	ctccgtctcc	aacaaacaaa	aacaaaaaca	aaacaacaac	aacaacaaaa	32280
	ccaaacccat	gtgtgatttt	tttcaggcct	gaccgactgc	tattccagag	gcatcacccg	32340
	tcaggcctca	ccggaaggct	gcacagccgg	tgccacctca	gagagtctct	ggcaagaggt	32400
	cagcctctc	tggtctctcc	tgcccttttg	tggatctgct	ttcctagtcc	aggtgctctg	32460
15	ttcggagggc	tcagggacct	ttaagggaag	acacctttct	tcactctgac	tcagtacttt	32520
	tacactctca	gctttttccc	ctctcactac	ccaactcccc	agccccgtgt	ccacaaccct	32580
	tcaggaagcc	tttggttagg	ggccccctca	agagtgagat	gacccccaca	tctgtgctga	32640
	tcctcctgac	cctgaaccgt	atgggtgcat	tgttccaagg	ggaaaatgaa	gcaggagagc	32700
	tcagcactcc	ctccagtgtt	agcctcttgc	ttgtactact	gcagtgcggg	attaaagtct	32760
20	tcgctattac	ttccatttgt	gcttgttgta	gcttcaagtg	gctactctaa	cacctgacag	32820
	ctcagctccc	ttccagctct	actgagctcc	tgacagcgcc	atgcgatgca	atttaactca	32880
	agaggaatcc	agccgcatgg	ttataccggg	gcacggtgga	gaataaatga	cattctgcct	32940
	ttgttctgcc	taaaatacag	gtgtgatgac	tggagatgca	gaagccattc	cattatatca	33000
	acataacatg	ataagccaag	accctaaaga	tgctgagaaa	aatggtcaaa	agagcttggg	33060
25	gtttttttgg	tttttttgtt	tgtttgtttt	gttttttttg	aggcagtggt	ctcactgtgt	33120
	tgccaagct	ggtctcaaac	tcctggcctc	aggcttcagc	ctctcaaaac	tgctaggatt	33180
	acaagtgtga	gccactgcat	gagactgggc	tgttttttgt	ttggtttggg	tttttagag	33240
	acagggctct	gctctgtcac	ccaggctaaa	atgtagggat	gtgatcatag	ctcactgcag	33300
	cctcaacctc	cttggctcaa	gtgatcctcc	cacctcagcc	tccaagtag	ctgggaatac	33360
30	agacatgcac	taccacaccc	agctaattaa	aaaaacaaag	tttagtagag	acggaggtct	33420
	ccctatggtg	cccaggctgg	tctcgaactc	ctcacctcaa	gtaatcctcc	taccttggcc	33480

## ES 2 784 246 T3

	tcccaaattg	ttggaattac	aagcgtgagc	caccatgccc	agtactgtct	ggtttcttaa	33540
	taacattggt	gagccattgc	aatagccttg	ggatattgct	ctttgtactt	tttcttatgc	33600
	aagaaaaaca	gattcacaag	ttatttgatg	actctcttcc	catcaaaagg	aaaagtctaa	33660
	ttctttttcc	cttgattatg	gatcagcttg	agcttgttgc	ttctaacaaa	tggaagagag	33720
5	caacatgctg	gagtgatcac	atggaggaag	cacaaagga	tacatgcca	aggggcccc	33780
	gctgttccag	cccctagaca	tttgaatcta	ctcaggcacc	aagtaagcag	gtgaatagcc	33840
	ttcaggtgat	tgcggcccac	tcccagctga	agccaagtgg	agcgcagatg	agcttcccct	33900
	gctgagccct	gccc aaattg	cagat ttgga	agcaaatga	atattgtttt	aagccacaaa	33960
	tttgtgagtg	ttttgttaca	tagtataagg	agccagaaca	gctctacaga	tgtaaattat	34020
10	agtcagatat	gttgctat tt	ataaccaaag	cattcctaac	ttataaatgt	ttcaacatta	34080
	ataagcagaa	gaaagtgtaa	taatcttatac	aaggtaatac	aagttacttg	tttaataata	34140
	ccaccttcat	ggcaagcctc	aatttcataa	cctaatact	ttgagtacaa	cttgaccta	34200
	atgggtagct	tttttttttt	tttttttttt	gagacaggg	cttgctctgt	caccaggat	34260
	ggagtacagt	gacacaatca	tggctcagca	cagtctcaaa	ctcctgggct	gaaatgatcc	34320
15	tcctacctca	gcatcctgag	tagctgggac	taaaggcagg	cccactatg	cccagcta	34380
	ttataat ttt	tttttttttc	tgtagagatg	gagccttgct	atgttgcca	ggctgatctt	34440
	gagctcctgg	gctcaagcag	tcctccagct	caacatcccc	aagtattggg	attataggca	34500
	tgaaccacca	ctcttggcct	ctgtgtagca	ttttatagaa	aatataaagt	tgatattata	34560
	aattttatat	taacagattt	ctataattaa	aaatcttggc	tagattgttt	ttcctttact	34620
20	cttttttttt	gagatggagt	ttcactcttg	ttgcccaggc	tggagtgcaa	tggcaccatc	34680
	tcggctcact	tcaacctctg	cctccccggg	tcaagtgatt	ttcttgctc	agcctcctga	34740
	gtagctggga	ttacaggcat	gcaccaccac	gctgggctaa	ttttgtat tt	ttagtagaga	34800
	tggggtttct	ccatgttgg	caggctggtc	tcgaaactccc	aacctcaggt	gatccgccc	34860
	cctcagcctc	caaagtgtct	gggattacag	gcatgagcca	ccatgcctgg	cctcctctac	34920
25	tctttcatta	gtagagttaa	tatccattca	ttgcgcactt	gctatgtgct	aggtgctaag	34980
	gacacaatag	tgaacaagat	taatcacctg	agatccttgt	cctaatagaag	cttaccttct	35040
	gggggggaaa	acatgataaa	aatgcagaca	agtatgttaa	tataataatt	tcagatcata	35100
	atgtgaagaa	attagtgtgg	gatatgtggg	ggagatgggg	aatagatagt	tttgctttag	35160
	ttaaaatgtc	aggaaggca	tctctaaaga	agaaacatca	gagatgagac	ctggatgatg	35220
30	aagggagcca	gcatgggaa	gttctgggg	agaagtgtct	cagactaagg	gaatagccag	35280
	tgcaaagagc	ctgtagccag	aataaggttg	gtagagtcca	gaacagaaat	taaaaaaag	35340

ES 2 784 246 T3

	tggggacaga	gggtggggtg	ggggagatgg	tactaagtga	gagaagggga	gcagacagga	35400
	cccatatccc	ttaggtcctt	gtaggccata	gtaaagaatc	tggaagttat	ttctgtaagt	35460
	gcaatgttaa	aggtactgac	aggatatgct	ttgcactttt	aaaagatcac	actatggaga	35520
	atggagtgca	gaggggcaag	agttgaagca	aggagaccca	ttagaaggct	gtggcagtaa	35580
5	tcaagaagag	atgattacgg	cttgattaca	cattggcaat	ggaggtgggtg	aggagctctg	35640
	agatctggga	taaattgaga	cagagcttga	aagagagctg	atagaaattg	ccaatagagt	35700
	gctgacggat	ttccacgtcg	actggaaaag	caaattatta	atztatgtga	atctcaatgg	35760
	ttttgtcatc	atttgagtgt	accatccggt	tgtcccctga	gcctacgtgt	atggtatttg	35820
	gaggataaat	agaaggagca	caaggatgca	gacactaaga	gtttaaagct	gaagccaggc	35880
10	atgtcctgtg	cattatttca	agcaggtggt	gttaattaat	gcccctctct	ggctgtatgg	35940
	caacaagctg	tagagcctcc	ttctggggcc	atccctctag	ctctcagttc	cttttgttcc	36000
	aaatcagagc	actagggttt	gagtactta	ggatctcaca	tgaatcattc	ttggggaact	36060
	aggggcaggg	taatgaatgc	tactaattag	cctgctaagt	atcctctgta	actagaggat	36120
	atttggttgc	aactagaaag	ctgaggtaat	tatctcttta	ttatgtacga	atcttattta	36180
15	catgagccac	atgggcattt	atgaccgatt	agctcagata	aatggacatc	caggctaattg	36240
	acaacatcac	aaattcattc	cctgtagaat	ccttctgttt	tagggctgta	aactctattc	36300
	cttgtagtat	gaggtggcca	gcaagtctgg	aaacatagat	aatactattt	ttattatgta	36300
	cgatttataa	cccattcatt	atgcttttcc	ctgtgtttca	agaatttggg	ggccaccctg	36420
	gagacacttc	ttggggatc	ttaccaaaa	ctcaacatac	cagctctcaa	accattctac	36480
20	ctttctgaga	cgcaccccat	ccacagaagt	gggcttcag	ggactctgcc	catgtgagtg	36540
	actcacctag	ctggcctcag	gtgattggac	agagctgaac	acttgtttca	agcagggcca	36600
	atcagattcc	ttctcccaga	aggaagaaat	ggagagacag	gcacacggtc	tctgtgaatg	36660
	agagaacaat	cacctctaaa	cttgttgctg	tggttcagcc	atattcagcc	ttgtggataa	36720
	agaagcagag	aaagcaggac	tctagtgtca	gagaatgagc	tagatgtgca	aaaaaagtgg	36780
25	aggaaagatg	aaccaagggt	gcatcttggg	aatgcggatg	ctttttcgtt	ctcaactttg	36840
	cccttcctaa	ggtctggctg	tactcctgcg	tttggttcct	caacacactt	ttgtatatgt	36900
	ataccaaatt	ccccctttgt	gcctaagtgg	agtccttttg	gtttctgtca	cttgccgccc	36960
	aagagtctta	actaatatga	ctttagatct	tgtccacact	ctccccaggg	aattccattg	37020
	gtcataaggg	tcaggaagga	atacatagat	aagtatgaat	ccattgtcac	tgaagtggaa	37080
30	acaatttaag	agcagtctct	tctagaatga	taccaatact	atcatctgta	aacacaaatg	37140
	ccagttgcat	cccgtcctgc	agagcaagga	aaaatcctct	ttctattcca	gaattgactt	37200

ES 2 784 246 T3

	ttttctatta	gaaaagagtt	tccctaaggt	actgacagaa	gaatctgctc	tttgaaaaac	37260
	aatttcaaat	ccttatacgc	cagcagatct	gcactaaatg	aaaagttgcc	ctcagatatac	37320
	catggctgca	atgtcctcag	aaattgtttg	caccgtcctt	taccaaaccg	aactctatca	37380
	agtataacca	aatagacttg	ctttcccggg	cttggttcta	tgtacaatgc	caccaaactg	37440
5	cattttat	gatgaaaaag	gtgatgtttc	cagtttcaaa	tggttagcaa	aaagtagggg	37500
	aattaaggct	tcttatttta	gtgtaatgtg	ccttcttg	tttagatggt	aacttcataa	37560
	gggcgagcaa	agagtatccc	cccaaatgg	taaaatactt	taaatataac	aagaaacaca	37620
	agacataagg	aaagtaaaag	tctaggctgg	gcacagtgc	tcacacctat	aatcccagca	37680
	ctttgggagg	ctgaggcagg	aggatcactt	gaagtcagaa	gttgaggtcc	atccggggca	37740
10	acatagcgag	accccatctc	tacaaaaata	aaaaattagc	tgggtgtggt	cacatgcaac	37800
	ttttgtccta	gctggttggg	accctaaggc	aggaggatct	ctcgagccca	ggagttcaag	37860
	tttgcaagtga	gctatgatcg	caccactgca	ctccagcctg	ggcaacagag	ctaaactctg	37920
	tctccaaaaa	taaataaata	agctatattt	tttaaacaag	aaaaaaatta	aaaaggctaa	37980
	caaccccaat	agcacaacca	gaggcagtgg	gtgtggggca	gatcagtagg	caaattcctt	38040
15	gagggcaagg	gccctttgcc	ccagagccaa	gcactttgcc	tggaatagaa	caggaaataa	38100
	atgtttacag	agtaaaccga	ttgtatgaac	acatgattga	aagtattgat	aaaatgaaag	38160
	ccagaaaact	atattacca	ttgctaatag	gacacaaatt	ggttgctg	aaatttaaag	38220
	tattaaatac	tcttgaattt	gtccacgcaa	ttgaatctga	tatagcctct	ggatataaaa	38280
	agtaagattc	taaaagctca	tcaggctccc	ctagttactg	cttttttttt	tttttttttt	38340
20	tt						38342
	<210>	37					
	<211>	13854					
	<212>	DNA					
25	<213>	Homo sapiens					
	<400>	37					
	agtgatccgc	ccgcctccgc	ctcccaaagt	gctgggatta	caggtgtgag	cactgcgcc	60
	tggccgctgc	tcttatacta	ttttgaatgt	aggccggccg	tagtggctca	cacctgtaat	120
30	ctcagcactt	tgggaggccg	aggcaggtgg	atcacctgag	gtcagaagtt	tgaggctggt	180
	tttagtagag	acgaaacccc	gtctctacta	aaaatacaaa	aattagctgg	gtgtgggtgg	240
	gggcacctgt	aatctcagct	actcaggagg	ccaaggcagg	agaatctctt	gaacctggga	300
	ggcagagggt	gcagtgagct	ttgatcatgc	cattgcactc	cagcctgggt	gacagagcga	360
	aactccatct	caaaaaaaaa	tttttttaaa	gaatatagat	ataagccaca	acccgaggac	420
35	cccaacctcc	ccactgcata	tgtgaatagg	gagttcacta	tgaactcttt	ctacgtgacc	480

ES 2 784 246 T3

	actcttgaga	ccttaatggc	tgctgtactt	gggctgccga	actccataaa	ggacaagact	540
	gaaagattca	cctccgacct	gggtgtttgca	gcctgaggcc	agtctctgtca	caggtcacag	600
	ggaatcactg	ccaccgttt	taattacagt	ctctggaaga	agaggccaaa	ccccttctga	660
	tttgacagaaa	gcctggtttc	tttatcttat	taacaacaac	atatcccagc	gctccagtga	720
5	ttacagaccc	attcctgaag	caatcaaatt	gcctatattga	aagaaagact	atttcctttc	780
	cctaataaat	gtgaacagtc	cccagagcc	tgaaggtatg	gctatgaatg	cccactgta	840
	acaatgaaaa	actattataa	ataaatgaca	cagagctgct	ctgttcttaa	aaatcaccac	900
	atgatcaatt	tgagagacat	gcatgaagat	gggactcagg	agattttggt	ttaattattc	960
	tgcccgaagg	aaaacaatac	tttgctcttt	gctggcaccg	ctgtacagag	aagcttaaag	1020
10	agactttgaa	aacatgatcc	tgttcatcct	tctcaaatca	caggcagaca	cagttgcctt	1080
	cattttttga	aaggggaaac	tgaggtgtag	acaaatgagt	gttttctgtg	tttagcaggc	1140
	tatttaaaga	ctcatatatac	atcatatcca	acatgttttt	atgtctctcc	cctactcagc	1200
	gtttctgatc	attgtatttg	aaaactcacc	aaaaagggga	gaaattaaca	aaaggctata	1260
	gagaaggtga	gcttttactt	ttataagctg	ccaacttctt	aaaataattt	taaaatgagg	1320
15	tgtgtgcacg	tgtgcctgtg	tgtgcatgtg	tgcgcacaca	catacataca	catgtttgag	1380
	tatgccttgg	tattggggtc	aggaaatagt	aaggatagaa	agataggaag	aagtgagggc	1440
	acttcattgc	agccacccaa	cccagagata	cctgcccctc	cccgaaggct	gcagcctatt	1500
	agccagaggg	cctgggatata	agccagcgac	tggggctgga	ttagcgaggt	tgatgaaaaa	1560
	ttatgtactt	tatagttctg	tcagaccagg	gtacccttgg	aataaaatct	tttagaattt	1620
20	gaaaaaatat	ccacttacta	gtgaatacag	gacccccatc	tgagacctac	tgctgcccag	1680
	gatggcagtt	tataattaat	atttcatcag	gggtcaaaact	gcagaccacc	aagaagaccc	1740
	tgtgagactg	tattgaaaaa	tcaacttggt	accctttgcc	atTTTTTtaa	aaagaaaaaa	1800
	gtgaatccat	ttgaaattca	tagataggag	tctgcgactg	caaaatgtcc	aataagatta	1860
	actaaaaatt	cctcaggagc	ctgaatattt	atatttccag	ggattcttta	ctgtagtatac	1920
25	agtacttctt	agaagggttt	gttgtttgtg	gatggcaagt	gcctttgcac	tgcttctttg	1980
	tacaattctt	agccacatga	ctttcctcag	gagttgacag	aatccccac	cccccaaaa	2040
	aaattcagag	gagccttatt	tttgcttact	tttaaaggaa	gagaacacaa	gttatttttaa	2100
	aaggtttctg	gaatttggt	atctagatgg	tttgacagtg	ttaagtgaat	caactaatca	2160
	cattgaccaa	atcactggct	aattcagtaa	agcaatcagc	ttaactaatt	gtccaactga	2220
30	tgatcaaatc	aatgaaccgg	tcttgttttg	gatcttttgt	ttttcgtttg	ctttgttctt	2280
	gacattgggt	aggcacagct	caagttgtgc	aagccagaca	ttctcaccaa	tacttatagg	2340

ES 2 784 246 T3

	aaagaagtgg	acaatatact	taaaaatgtg	agaatccgta	tggaaaacag	aacttcatta	2400
	aagaattaga	tggaattaaa	tgggttaagc	tcatcagaaa	aaaaaaaaaa	attaaaggaa	2460
	aaggctattc	ttaccagga	atgaagtctc	tgcagaaatt	gattatgtag	agagtccctt	2520
	tgggtccttg	aacaattagc	tctcagaaaa	ttagaggata	gcctttggct	tctggggatt	2580
5	cgaatgtaac	aggtgtctgc	tgtcccttag	gaaattcttc	actccttcta	gctgctcatt	2640
	ttttggctgc	ctgccctgc	agggtaaacc	caaaccctg	agagttaaag	atthttgagtc	2700
	atagagaacc	tgaataattg	gattctcggg	gggcattact	tttgcaagat	tccgccacag	2760
	atgtacttct	ggggtgtttt	ctgtgataga	aaaaagaaat	ccctttctct	actgagaaaa	2820
	gacaacaact	aagaggccgt	atthcttaca	gtgggtaacg	gagaggagac	aatatthgtt	2880
10	tctgtccctg	tactaacctc	atthcttagga	cagcatgaac	actgggggag	gtgactaggc	2940
	ctccgtcttt	cagatacctg	agaaaagtga	aacgtgatct	ctgtgggtgat	tcaggtagag	3000
	ttattaggca	tggacagaaa	gcagggagtg	cacagatgcc	tttgtgcaaa	ggagagtgat	3060
	tttctcattt	tacctgctga	gaaagagtag	aggtattht	gccaggatgg	gtgttattaa	3120
	acagatgaag	gacaatctga	cagagttaat	taaggatctt	gagtgtcagg	atccagagaa	3180
15	agagatatct	cgtgtaggag	gcaggtatgg	gaaaggtaag	tccgcaaggg	agggtagagtg	3240
	ctthtccac	aaaggggag	cagcacattc	ttgcttcagg	gtgaaggata	caacacattc	3300
	tgaaatgagg	tttggaatat	tgtgtattht	tagctgctgc	tgtgaaaatt	cctcctaagg	3360
	agagagccat	ctthggggaa	atthgcctctc	caagtctccc	tgggtagggg	ctgagcctcc	3420
	agggthtggc	taggccaagg	cccagctctc	agaggccagg	gtgaggtaag	gctgcctgta	3480
20	gaggatggaa	cctgggaaga	aggggaagaa	agagatagaa	aaaggcttcc	agagggacct	3540
	gggtatgaaa	tgactgggtc	tacgcgggat	gtgactcctc	tctctggctc	ttcaaattct	3600
	cataataatc	aaactgacaa	catgtthtgg	ggaaatagat	ththththth	taaaccagtg	3660
	aagthtggcc	cctagagtag	aacagagata	caatgtgtgg	aagtagggtc	tggagcagag	3720
	gacctctaaa	accactatgt	ctgtgctagg	gacacaggaa	ccatagtggg	ccccaccaa	3780
25	tatctgagtt	tcagagtaaa	acaaaatgag	gctthttagtg	tgctgtatth	taatattgtg	3840
	ttgcagagat	caacacgcag	caggagaacc	actthtgaat	ataaaaatct	gtctccaggc	3900
	tgggctggc	ggctcacgcc	tgtaatccca	gtgagaggtg	acagcgtgct	ggcagtcctc	3960
	aaaaccctcg	cttgcctctg	gcgcctcctc	tgcttgggtt	cccactthtgg	ccgcacttga	4020
	ggagcccttc	ggcctgccgc	tgcactgtgg	gagccctth	ctgggctggc	caaggccaga	4080
30	gccggctccc	tcagcttgca	gggaggtgtg	gaggagagg	cacgagcggg	aaccagggct	4140
	gtgcgcagcg	cttgcgggcc	agctggagtt	ccgggtgggc	gtgggcttgg	ctggccctgc	4200

ES 2 784 246 T3

	actctgagcg	gccagctggc	cctgccggcc	ccgggcagtg	aggggcttag	cacccgggccc	4260
	agcggctgcg	gaggggtgac	tgggtccccc	agcagtgcca	gccgaccggc	gctgtgctcg	4320
	atctctcacc	cagccttagc	tgccctcccg	cggggcaggg	ctcgggacct	gcagcccacc	4380
	atgcctgagc	ctcccaccca	ctccatgggc	tctgtgcg	cccgagcctc	cctgacgagc	4440
5	accaccccct	gctccatggc	gccagtccc	atcgaccacc	caagggctga	ggaatgcgag	4500
	cgcacgcgca	ggactggcag	gcagctccac	ctgcagcccg	gatgtgggat	ccactaggtg	4560
	aagccagctg	ggctcctgag	tctgggtggg	atgtggacag	tctttatgtc	tagctcaggg	4620
	attgtaaata	caccaatcag	caccctgtgt	ttagctcaag	gtttgtgagt	gcaccaatgg	4680
	acactctgtt	atctagctgc	tctgggtggg	ccttgagaaa	cctttatgtc	tagctcaggg	4740
10	attgtaaaca	caccaatcag	caccctgtgt	ctagctcagg	gtttgtgagt	gcaccaatcg	4800
	acactctgta	tctagctgct	ctgggtgggg	cttgagaaa	ctttatgtct	agctcagggg	4860
	ttgtaaatac	accaatcagc	actctgtatc	tagctcaagg	tttgtaaaca	caccaatcag	4920
	caccctgtgt	ttagctcaag	gtttgtgaat	gcaccaatcg	acactctgta	tctagctgct	4980
	ctgctggggc	cttgagaaa	ctttgtgtcc	atactctgta	tctaactaat	ctgatggggg	5040
15	cgtggagAAC	ctttgtatct	agcccagggg	ttgtaaatac	accaatcagc	accctgtcaa	5100
	aacaggccac	tcggctctac	caatcagcag	gatgtgggtg	gggccagata	agagactaaa	5160
	agcaggctgc	ccgagccagc	attggtaacc	cgcttgatc	cccttcaca	ctgtggaagc	5220
	attgtttttt	cactctgcaa	tgaatcttgc	tactgctcac	tctttgggtc	cacgctgctt	5280
	ttatgagctg	taacactcac	cgcaagatc	tgcagcttca	ctcctgagcc	cagggagacc	5340
20	atgagcccac	cgggatgaat	gaacaacccc	agacgtgctg	ccttaagagc	tgtaaacctc	5400
	accgtgaagg	tctgcagctt	cactcctgag	ccagcgagac	cacgaacca	ccagaaggaa	5460
	gaaactctga	acacatctga	acatcagaag	ggacagactc	cagacgcgcc	accttaagag	5520
	ctgtaaacct	caccacgagg	gtccgcggct	tcattcttga	agtcagtgag	accaagaacc	5580
	caccaattcc	ggacacacca	gcactctggg	aggccaaggt	gggaggatca	cctgaggtca	5640
25	ggagtgcgag	accagcctgg	ccaacatggt	aaaccccgtt	tctactacta	aaaataccaa	5700
	aattagtggg	gcttgggtgg	gggtgcctgt	aatcccagct	acttcggagg	ctgagggcagg	5760
	agaatcactt	gaacctggga	ggcagaggct	gcagtgagcc	actgcattcc	agcctgggca	5820
	acaagagcaa	aactctgtct	caaaaaaaaa	aaaaaaaaatct	tgagtgggtga	ttcttactta	5880
	agtgcacaca	ttggcacttc	tttattttga	gggaactgtg	gtagtatcta	tcaaaactta	5940
30	aactaggaac	aacctccaac	tcaataactg	ccttatagaa	acactcaaat	atgtgtatac	6000
	ttcaaggaaa	ctgccttata	gaaatgctca	aatatgtgta	caaacacata	agtgcaagga	6060

ES 2 784 246 T3

	agttgttttg	aagcataaat	tgtaagagca	aaaccttgga	aataacctga	ttgtccataa	6120
	atagggaaat	agtcaaactg	attattatac	gattatgtaa	tcttcagtat	actaatTTTT	6180
	ttttaattg	ggcaaaattc	acataacata	aaattaacca	caaaccattt	ttaagtgtac	6240
	aatttagtg	catttaatac	attcatagtg	tgcaactgag	acagccaaat	gcttaggcag	6300
5	ataagaagg	gtccccagag	aatctccaac	ctgccccaca	agtgtttaca	tccgatgctt	6360
	tccgtgcagat	gagggactct	gcccaaagct	ttgtctgggc	atgcccacag	tggactggag	6420
	ctccacatgc	gactggggg	aagtgggtgg	agccatgggg	aattggcacc	ctacacaggg	6480
	gaggagcctg	ctctcccagg	ttcctgtgtg	gtggccaggg	attcagtctg	tgaggtggac	6540
	ggcatgttac	aggtctccat	ctcactttgc	tgagtgtttt	ttttttcttt	ttttcctttt	6600
10	tgcccaataa	agtctgctc	tactcacctc	tcaatgtgtc	cgtgtgccta	aattttcctg	6660
	gtcgtgtgac	aagaacctga	gatttagctg	aactaaggag	taaggttcta	caatacaacc	6720
	atcacctctc	tttaattcca	ggacggtggt	atcactccaa	aagggagcct	catacacatt	6780
	aagcagtcac	tcctcatcac	ccttgagaaa	tgatttcttg	aatttttgag	acagggctct	6840
	gctttgttgc	ccaggctgga	gtgcagtggg	gcaatgatgg	cttactgcag	cctcaatcgt	6900
15	tcaggctgaa	gcgatcctcc	cacttcagcc	tcccagagta	gctgggtatta	caggtgtgta	6960
	tcacatgcc	cagctaattt	atcaattttt	tgtacagata	gggtcttact	atgttgtcca	7020
	agctggctct	gaactcctgg	cctcaagcca	ggagtttccc	aaagtgctag	gactacaggt	7080
	gtgagccacc	atacctggct	gagaaaagat	tttaaatgtc	agaatagtat	gaacagtgtc	7140
	accctatata	tgtatgaaaa	ccctctaaac	tatgtcctat	gtttccgtct	actgacagag	7200
20	gcattgcaga	atagtggttc	taggcagagc	tccagaacca	ggccgcctgg	ctttcaaadc	7260
	ctggccctga	cacagaccag	ctgtgcatca	ctgggggtgt	gttttagccta	tctgtgcctc	7320
	tgtttccaca	ggtgtaaatt	gggcatagtt	gtgaagagga	aatcagtaag	gacaagccta	7380
	atacagtcac	tgtttagtat	acttacttct	gtgtttgaag	ttttcttttt	aaagtcaaaa	7440
	tcatgggcaa	ataaacctat	tgccagtgta	gaacacacat	tcctagacta	ctccctttca	7500
25	ggacaccag	tgagggtctac	ccccatcag	tgcttgccctc	ttgcttaaag	ctaaggctgc	7560
	aggaggatg	catattttca	cgccagcaca	gagcacactt	taaatctcct	caacagcgtg	7620
	gcagaaatgc	aggctttaa	gagcaacaaa	atcctgactg	acaagattca	aggggaagtac	7680
	ctgatcaggg	aagtacaagt	acaagattca	gggaagtaac	tgaaaaatgt	aagttttaag	7740
	acttacatth	gactcaaggg	ccagcaggca	tttcagacag	caagagggag	ggtctctgtg	7800
30	aagggtgagat	acccaaagaa	gaagggaacag	agggaagaag	gaaggaaaag	gaagaaggaa	7860
	gaggggaagg	aatggagaaa	agaagaaaag	gaagaagggg	gagaaggagg	aaggaaggag	7920



ES 2 784 246 T3

	aaaggaaggg	aggaaggaag	aaggaaagaa	gggaaggagg	aaagggagaa	gaaagggagg	7980
	aacaaagga	gagggtaaga	aaaaggaaga	aaggaaagag	gagagagagg	gaataagga	8040
	ggaagaggaa	aagaaaaag	ggttaaaaa	taagttagga	tgaaggaaag	gaagaaaaga	8100
	gaaggtgagg	aagtacaagg	aaacaggtga	gccccagccc	tgctgtgatt	tcagttctca	8160
5	gatctaaagt	gttcaagtaa	aaacaaagca	caggcatagc	cttctttttt	tttttttttc	8220
	tagatggagt	ctcgctctgt	caccaggtct	ggagtgcagt	ggtgcatct	cagctcactg	8280
	caacctctgc	ctcccgggtt	caagcgatct	ttctgcctca	gtctccagag	tagctgggac	8340
	tacaggtgtg	cgccaccaca	cctggctaat	tttttgtatt	tttagtattt	ttagtagaga	8400
	tggggtttca	ccatatagcc	caggctggtc	togaactcct	gacctcgtga	tctgcctgcc	8460
10	tcagcttctt	caagtgtctg	gattacaggc	atgagccacc	gcgcttgccc	agcacaggca	8520
	aagcctttca	acaaaaaat	caagggagaa	ctaagagaag	tatttgcgat	ttcaattttt	8580
	tttactgag	tcctaatact	aatggaggtc	agaaactgga	caatacaaa	ctgccatgcg	8640
	tcaaggatgg	aacaagcaca	gccgcggcca	agctcgcaca	ttcctaggtg	ctttccagga	8700
	tgcccctcca	gggtgcgtgc	ggtggcctcc	aggatgcccc	tccaggggtg	gtgcgggtgg	8760
15	ctccaggatg	cccctccagg	gtgcgtgtgg	tggcctccag	gatgcccctc	caggggtcgt	8820
	gcggtgtccc	agccccaga	ggtgcctgcg	gaaactgttg	caaggggtgat	cccctgataa	8880
	acctttcact	ttgtttctga	atcggaacac	agccccaagc	ggacttgggg	ctgctgggct	8940
	gccaggggtt	tttaaatatt	taacaagggt	tggaggcagt	gagcacaaa	ctcaggtcca	9000
	cccaatttct	tagcagaagg	tggaaatgca	agtatggaat	tgtcttgag	aaaaacgcag	9060
20	ttttgaaact	ctgtcttttc	aaagacaata	ttttaaaact	caaagtctac	gaaactacca	9120
	gataatgagg	tagttagatg	gaattttgct	agcatatatt	tgcaaatatt	ttaagaatgc	9180
	tttgtatgct	tctgttgact	taatgaagtg	attgaaaagg	gttaagccgt	gtttggtatc	9240
	ttcaaaatgg	cgattttgct	tctgataact	ttccggaaaa	attaaggtg	ttgtgaagga	9300
	taaattatag	tttgatttga	gtcgtcttgt	taaaacgtca	ttcctctttc	tcagcaacct	9360
25	acttcccgtc	ttattaagcc	agttgactag	ataggtctag	gcaattatga	cgatgattta	9420
	ctatcttcat	gctccattgt	cactgggagc	caagggatgg	gggaagggaa	ttcacattcc	9480
	catcttacgt	gtctcttgga	gggacaatca	agtccctcagc	tgtagcggtta	aacacagcaa	9540
	tagaaaagcag	agacacagta	aagcattttc	actgctctta	tgagctgaga	tataaaatga	9600
	gatttatttg	caacaatctg	atagagaaaa	ttgagtcctg	agaattgatg	tcctagaaag	9660
30	gctttcaagt	cagccaggag	ttactacagg	acgtgagtca	cacagcaaaa	tatcaaagag	9720
	ttggaggaga	aaaaaaattg	agctttgaca	ttttctgcag	ccgctgttaa	agaaattgac	9780

ES 2 784 246 T3

caatgtgtac aatacgaatt atggtcacaa ttacaatctt ctocgatcca gtctttccta 9840  
 acagttggat accttggatc cttagattga tgtcatcatt cagctttttg cttttttaaa 9900  
 atattcagtt ctactgcaga tgggatgcta aataaacaaa ccccctaaat ggctctctcc 9960  
 tttccccca gaggtttaat cttataaat aactccgaat aattgtgatg tatcttctgg 10020  
**5** catttcacat attctgaaaa ttaccattga aatttgaatt taatcatata ataacccccca 10080  
 aatataatfff aaactgagag tataaactag aagttttggg gtaatctcat ttactcagga 10140  
 attcatttag tggccactat ttgtcatgat tttaatgtgg gtctgacatt ggtaggtcat 10200  
 gttcggagtg aagatatctg cagtttttca atttgcataa tccagttagt gcttcagaa 10260  
 tgtcttccat gtctcttcat gtttgcaaat taccagaggt cacaggtaaa attttaaac 10320  
**10** gtgagagttg ttcataaaca tactcgggct ttgtcaaaaat caggatatct cccttccctt 10380  
 tgtagtttac tttttttttt tttttttttt tttgataagt aatgggtctg aagcttcagg 10440  
 acacaagatg accaaaacca gtttttctgc tgggccctct gaattctacc caagataatg 10500  
 ctacacattt atataacgcc cacacctgct tatgctgcag taattctttc aaaagttcta 10560  
 gcaatttga ctctctttt tatttaattt ggggatttag tcgctaactc acagttactt 10620  
**15** ctagaaataa gcagatgact gcttcaaaaa gcaaaaactt tctgacacct tttattacc 10680  
 tctagatgaa aatgaggacg gtaataactt tcaaaggtaa ctgatacact caatgggtggc 10740  
 tcaccacctc atttcagaca accagggggg ctcagtgcac agctgctctt ttattctctt 10800  
 ccaagagagt ttgtgtaaga actttgcaag catttctttt acaatttgtc tttctgggaa 10860  
 aattgcatat ggcgttggtg taacttgctt aatagtcaca atttattaat ttcatacatt 10920  
**20** tttctcaaga gaggtagaaa aaaatgacta atcgtgtggg gggtgacaga gagtctttct 10980  
 ttggaccata aaagtaact ggatcaagtc cccaacaat gttactgact taaaaattca 11040  
 catctgcact gtatttatag ttaccttatt ttttgacca ttgcttatgc ttgaacaaga 11100  
 ctctttttt tttctttgag acagagtctt gctctgtcac ccaggctgta atacagtggc 11160  
 acaatcacgg ctcaactgcag cctccatctg cagcctccat ctctggtct caagcaatcc 11220  
**25** tcccacctca gcctccctag ttgctgggac cacaggctca tgccaccatg cccagctaaa 11280  
 aaacaaaact ccccgcccg cctcacaaa aaaacaaaac aaaacaaggc tcttaagttc 11340  
 aattttctaa gtaaaaattt gtgaaactat ttttgttgtt tcattacat tcgtttctaa 11400  
 gaccaaagga tacatattgt tctctgctt cttctcccta aagccaaact tttttttct 11460  
 ttctttctat ggttacgtca cgtaatttt tttttttgga gacggagtct cgctctgtca 11520  
**30** cccaagccgg agtgcagtca cacagtctca gctcactaaa agctccgcct cctgggttca 11580  
 agcgactttc ctgcctcagc ctctctgagta gctggggctt caggtgtgtg ccaactacacc 11640

ES 2 784 246 T3

	cagctaattt	ttgtatTTTT	agtagagaca	gggttttact	atgttagcca	ggctgctctt	11700
	gaactcctga	cctcatgatc	cgccccctc	cacctcccaa	agtgctggga	ttacaggcat	11760
	gagccaccac	gcccggccat	gtcacgtaaa	ttttaatgag	acgaaatatac	tatcaagctt	11820
	aaaatcatat	gagaaatttg	aaggaaaatg	attgtagatt	ttattcggaa	aagatactct	11880
5	gagtcatcag	ttattccttt	ttttctgatt	attaaggctg	ataaaaaaaaa	acctctttat	11940
	tttgaaatat	gtatgggctc	acagaaagct	gcaacactta	acacatagag	ttccatgtgg	12000
	tgacatctta	tataaccata	gtaccatatt	aaaaccagta	aactggcgtg	gaataaact	12060
	agtaactaga	gtatagacct	tactctgcat	tctccagttt	ttacatgcac	tcatgtgtgt	12120
	gtgtatztat	agttctatgc	aatttgacc	cagttataga	tcagtacata	attactgttg	12180
10	tagctaacac	aacaattagg	atacagaatt	gttccatcag	cacaaaggaa	ctccctcatt	12240
	ctaccctttt	gcatcctccc	tctgtccgct	gttcataatc	cctggccacc	actaatctgt	12300
	tctccatctc	tacacttttg	tcatttccag	gatgttctat	aaatggagtc	atacagtatg	12360
	taaccttttg	acattgactt	tttccaccag	cataatgtcc	ttaagacca	cccagtttgt	12420
	cgcatgtatc	catagtttat	tcctttgcgt	ggctgaatag	tattccaccg	tatggatatg	12480
15	ccagagtttg	cttaaccatt	tgccctttga	aagacatttg	gattgttcac	agtttttttg	12540
	ctattacaaa	taaagctact	atcagcattc	atatacagac	ttattctctg	tgtatatgag	12600
	cataagtttt	catttctctg	ggataaatgc	ccaagaggat	atgattgcta	ggttatgtgg	12660
	caaatgcaga	tttagtttta	tgaaaaactg	tcaagaaatt	ttccagagta	gatgtacatt	12720
	ttaaacttcc	accagcagta	taggaggggt	ccagttttcc	cacatcctcg	ccagtaacaa	12780
20	actttttaga	tgagtaagtg	aacatgaaaa	cattgtgaga	tgacaaaggc	cacatataga	12840
	ctgggcaaag	tatgtgaaag	gagatatttg	gcttgtatat	gatcctcaga	ccactttttc	12900
	aggagagatg	gcagcaacat	ttgctgtaat	ataaatttcc	cctgctttta	tcagcctgta	12960
	gccatgaatc	agcagtggct	tcaagtgtta	gaaaactcaa	ctacagccat	ttaagcacat	13020
	ggggctattt	tcctcacaga	acaagagatg	cagaaatcag	cgactgcgga	ggcttaaaga	13080
25	tgatggctgc	tgctgctggt	gcttcaggaa	tcatgttcac	attcctccag	gaagaagaca	13140
	gaaggagaaa	aggcagtgtt	tctatcacag	aaaaaaaaaat	tgtttttttt	tttttttcag	13200
	gaacaccact	agtgttctgt	tttggctcatg	ttgcccagaa	cactgcctca	gatccoctca	13260
	tggtctggaac	aacatggtag	ggagaagggc	cttggaatgc	tgactgggtc	aggaattcac	13320
	tattatctgc	cacaggggac	cgtaaacatt	aatggtcaac	ctttgccagc	ttaaggcttc	13380
30	cccagtgat	gcatggcctc	atcttattgt	aatgtcctcc	atcgtaaagc	atctctgggt	13440
	atctctatgg	ggtatctcac	ttgtgcttat	aagcaaagtc	cggtcccact	gctcaacacc	13500

ES 2 784 246 T3

	attgttctct	gcaggtcctt	gtgaggtaca	atgttatctg	cagggccctc	ccctccccta	13560
	agcttccgcc	ctggctcctt	ggttgtcacc	atggaggaac	tagaaagttc	acgcagttgg	13620
	ggctgcattc	cttgccaaag	tggggagaga	gctctcccc	ctgctttggg	cactccttgt	13680
	catgctctgt	gccatgcggt	tcatgactac	ctttctgaac	ccatttcctc	acttgagctt	13740
5	atgaacgttc	actcttcatt	ggttcataca	ttgtccatgg	ggctggacag	gtgaccagac	13800
	acaaggccat	ccgttccact	gataatgtct	ttctcattct	tacattccca	caaa	13854
	<210>	38					
	<211>	346832					
10	<212>	DNA					
	<213>	Homo sapiens					
	<400>	38					
	agcagatggc	at ttgagcaa	acacttgcaa	aaggtgagga	agatagccat	catagctgat	60
15	ggaacaagca	aaacaaaagt	cataaggaag	aattgtactc	gtgtgtttga	agacatcaag	120
	gaatccgggg	cgatagacat	agcaagtgag	gggaggggat	gagaggaatt	gggtgggagg	180
	cacagtggga	ggccagggca	tttaagatgt	tgaggacttt	cggttcatg	cagcataact	240
	gagtatattt	aagaaagaat	gctcattgaa	tgttcccgtt	acaccatgca	ctgaggtaag	300
	cgctttattt	atatttctct	gtgatttttt	tggttagtct	tcataagaac	cctacgtaca	360
20	aaatagtatt	attaatatct	atattttatt	aacaagcatg	tttagtccta	aagaagtcga	420
	ttaactcacc	caaggtcaca	tagatggtaa	atgatgagaa	ctgtatctag	gctttccgac	480
	acctgtctgt	ttgatcatag	cattatcctg	agtccaagtt	gaatggcttc	tatttgattt	540
	tgcaatgtca	aattacctga	aatgatgtag	acatgcaatt	caaagttcca	ctgctgtgca	600
	aagacttaat	tcttgctatg	ggctgaaagt	ttccattccc	ctcaaattaa	tgttatactg	660
25	ctaaccacca	aagttgtggg	attaggagct	ggggaatttg	gggaggtgat	gaagtcattg	720
	ggcagagtcc	tcatgagtaa	gattagtgca	cttttaaaag	aggcctaaaa	aagactcctg	780
	ctcacctctt	ccaccatgtg	agggcacagc	aagaaggtgc	catcagtgaa	ccagaaagtg	840
	agcactcatg	aggcatggaa	tctgccagtg	ccttgatctg	ggacttccca	gcatccaggg	900
	ctgtacgaaa	gttctgtagt	ctgtgagccg	tccagtttat	ggatatttgt	tatagcagcc	960
30	caaatgctat	atgtacttag	cccatgtgga	ctaagataat	tggttaagagg	tcttcacact	1020
	ttctcagcta	ccagaaagta	catttgaatt	caactgagga	aatctattta	gtcattgttt	1080
	tgccatgtta	ccccaccca	acaagcattt	gttatgtttt	catgttgcaa	gttggattct	1140
	tggagaggcc	tttgggatca	acccttgtga	aaaggagaga	agagaaaggg	gaataggcag	1200
	aagaggaatg	agctgtgatg	gaggcccaact	gatggcctca	gctgatctca	ccagaagctt	1260
35	ggcactctgg	tggctctcag	caagacttta	ttcccttaca	tcaatccatc	attggttgtg	1320

ES 2 784 246 T3

	ggcctctgaa	ggagtattga	ggcacaacac	cttacagcat	ccaccacaat	ctgtagcatc	1380
	aaaatgcttt	ctgattactt	gagttgcoc	gggtgctaca	agggaaatac	aagcagactc	1440
	taagtgtggt	tttattgatg	ttgaagtagc	ttcctttcat	ggaaaaagag	gcaaaaacct	1500
	cgacatttcc	cctatttccc	cttctgggtg	acagaaatgc	at ttgggtg	gatctataaa	1560
5	tttaaagcta	ataagatttc	tattctactg	atgctataac	tgtttgataa	tctaaaaaga	1620
	ttctcaaag	at ttttgtg	tggggataac	ctagatttgt	gaagggtcac	atatgggttt	1680
	gtgagtgtgt	gttttaaa	tataatagaa	atagaagaga	gataacataa	ggaaatgtgt	1740
	cacttttccc	aat ttttcat	tctcatgaat	gctcacttct	tcctttcgct	ttcatgggtg	1800
	ctgagggtta	tttctggcg	ggacaatagt	ccctgtgtca	aagggctggt	gggtcaactc	1860
10	accaagctaa	gctgctgctg	acagatgagt	gatggaaaga	tgtactgttg	tatctgtcag	1920
	ctctgatgag	aaaaagtgga	gcttagctta	gaatcattct	catttccaga	tttttatttg	1980
	tattgttatt	ttattcctga	aaagaggatt	gatttctttc	tgcattatgt	aggctctctt	2040
	ttcaatgctc	ccgggtaaac	caatctcaaa	gcacaaagac	tgaaattcct	ctactttcca	2100
	cagttttag	gcaacgaatt	tagaatgtgt	ctcatcacca	ctttattctt	ctcatcacct	2160
15	cgaaaagtga	ctagcagaat	tcccacttgg	tttataataa	aagaaagcaa	caatttcatc	2220
	tacgaattag	catactagta	tgaatgcgca	ctcttgaaaa	taaatgtgct	at tttgtata	2280
	gtcttgtttc	ctgagagagc	agtgacttgc	at ttttatat	aaacatgctg	aat tttacgt	2340
	gtgttttagaa	aaat ttggca	tacatat ttc	cagaactctg	aaaatctgac	aaacccttgt	2400
	gcctactgt	tgttacccaa	cgttccttct	ctgggaaactg	cctattaaaa	aatcctgcag	2460
20	attgtctccc	atcccttatt	aaaatgtgca	ggaaataagc	ctaactgtta	agtgtatgaa	2520
	ggctctgaaa	accatactct	gctggctatt	gtcattgaca	ttaaactccc	taaaatattc	2580
	taaaacaagg	acattcaagt	taaccttact	tcattattta	acactaaaga	aggcaacatg	2640
	gattctccaa	tctctgagat	tgttaggaga	taagatcttc	cagaacctta	tactcaatc	2700
	acagaatcaa	agaatgtgct	cagctaagac	acattgattg	acaaatcctt	tatgcatatg	2760
25	agtgacaatg	tcagctttca	ggaagcagag	aaaagatgaa	gaaaaataaa	atctctagat	2820
	gactcacaat	taactaggac	aaat tttctg	gacatacaga	gttcataggt	accttgggag	2880
	gcgtttataa	tgtttgcccg	ttaattgaag	catttattta	tttaataatc	aaacatttat	2940
	tgaatgccta	tggggatcca	ggat ttaag	atacagagct	taaaaactga	gaccttgcc	3000
	ctgctatagg	gatttacaga	aaaagaaatg	aat tttataat	gcaatagaac	gaaggcatct	3060
30	ctggaagcac	gctcaggaat	atggaaggat	atgggctgga	aaccaaacc	aatagcaga	3120
	catggaggaa	gatgttttgt	tttttcttca	ggaattccac	gtgacttcat	ataagcttga	3180

ES 2 784 246 T3

	aatatgagta	tggataggcc	aggaggccca	ggaacagggg	ttggtgaagt	ggtagtgatg	3240
	gtgggttggg	gttacataaa	ggagagaaa	gacagcacat	tcggagtcac	caaggggcag	3300
	gattgagaaa	ctgcaagcaa	ttcaagatgg	cggaataga	actgatgagg	ctagaataa	3360
	agaggttgat	ctataagagg	aggacaaggg	ccagatcgag	gccttataag	ccctgctaag	3420
5	gaatttgaat	tttatcatga	aggcaatagg	gaccagtgga	aggctaagta	gggagatcct	3480
	atggacattt	ctgctttaga	gctgggagtt	acacacaggg	gttttaaatac	cattagggcc	3540
	atgaaattag	atattcagac	cggtatatatt	tcttaatgaa	atagaatcaa	ttataataaa	3600
	aaggaaatct	taaaatacat	tgcaagtagt	aatagtaatt	aatttgtttt	atacaatttg	3660
	tgtagtaggt	cacaaagtaa	gtttttgtta	ctgaggggtg	ggccaaaata	atgtgagaag	3720
10	cagtaattta	gaaagatctt	tcaggcagct	gaaagcaggg	agagcagtta	aaagattatt	3780
	cctagaacca	tattatacaa	gaggagagaa	gtgggtcctg	cagaatcatg	ggaagatggg	3840
	aggacacgtc	atctcattcc	tgtgatgtct	ctgaggtgac	taaagcctcc	agactctgca	3900
	tttcatagat	tgcaacatga	gacatggatg	cctatgacct	ctcaaaggaa	gggcttccac	3960
	catgtttgca	gtgctgcttt	gctgttccct	ccacctcaga	tgatagtgtc	tcatttctac	4020
15	atgaaaggtc	cattattcga	aagacagctt	aaagtgttgc	atcttccatg	aaatttcctc	4080
	agatctccct	atctagaaat	aacctagcat	caatcctttc	ttccactgta	ttagtcatth	4140
	gtgtagcatg	cccataaat	cccttcttgc	tgcattccacc	tgttgaatgg	tcttcagaat	4200
	aatcaacact	atgtgaaaag	tgcttacaag	tgtctttgca	tttcttccct	ctcttccctc	4260
	ttctagaatg	tgagacactt	gagggcagga	gtggaactgt	cttcttccact	atgtcaaggg	4320
20	ccaggaaagg	gagtgacatt	gagaagagac	tgaataaaaa	gttattaat	gaaggatgg	4380
	atgtaaaagc	accctgatct	gcagtgtacc	tgaaacagca	tatacttcat	atcacaactg	4440
	tagtatcttc	atccttgctc	atgttttttc	cactgcaacta	aagtgtcttct	ttaaatagaa	4500
	gaatcaaaat	agtgggattc	aatgataagt	agatgctatt	ttgaaattht	atgttgatta	4560
	gaaatggatt	gcagtaatat	ttttactttc	tgtggaatgg	ttatgtacat	aataaatact	4620
25	ctgcctgcat	tgtatthgca	aaacatcgat	gtctttgatt	ttgtggcttt	agaaagthtt	4680
	tcaaatacaa	attcaatctg	ccattgtttg	tgtgagttgg	ggaaagaagg	gcccacacat	4740
	tttgagctt	cccaaatgga	catgttggca	atgattccat	gagtcctgtc	tctgaagtct	4800
	ttgggaaggt	ctccaacctc	ctgcccactt	atthttttcc	ttgtttatth	ttatggagga	4860
	agccaaaatc	aagthaagga	tatthtaatta	taggctgtgg	ctthctthtag	aatthaaata	4920
30	atcagtgata	tattaccatt	ttgccaaaaca	tctcatgatg	ctcttgthtt	taaggatgac	4980
	aataatthtt	aatthtaaat	gcaaacaaac	ctgctgttta	gcccctthgtg	ctthtacctg	5040

ES 2 784 246 T3

	tgagagtatt	tggaaatctg	acattggaag	gcttgtgtta	cctttcatca	ggttcaacaa	5100
	ggcagtagca	acataaagaa	aaccctgggg	agtcagactc	atgatacact	cataggctta	5160
	tttagcgta	agatacaaat	atctaggatg	tgaagtccac	gctaattggtt	gatggaagaa	5220
	tttaaattat	tgctataacc	tgaccatgca	caattgtcta	actcttactt	tggtattgatt	5280
5	gcttatatgt	gatgtcataa	tgtggttaag	aaaggcaaaa	atttactgaa	atcaaaatac	5340
	ctggattgta	attgccgttc	tgctataagt	tagttgtgca	ataattagag	gattctaaaa	5400
	caaagctata	acagcaacaa	caaatataga	caaatgtagt	tgaattcaag	gaattataga	5460
	caaatttaaa	atcaaattct	actttcagca	cttaccattt	ttgttagatt	gagcaaggcc	5520
	ctgcacctct	cagagcctca	gttttctcat	ttgtgaaaaa	tggtgcatca	cgagcttatac	5580
10	agaattcact	gagttgtggt	attgaaatgc	ctaggaaaaa	tgctggggat	attatTTTTT	5640
	tgtataacta	aactcaggtg	aactgaagca	ctgctggagc	tgTTTTGGGA	gaaagtgacc	5700
	aagatctaga	agaggtggga	aaagagtctt	gaacaaagag	tacttggagg	atgaaattca	5760
	gtaattcaaa	cttaaaataa	ttcagacgta	aagctgttgg	aactttattc	tgaggaatgt	5820
	ggctgtgaag	cctgagtcgc	atggcatgcg	gatgcaactt	ccgtctTTTT	tctgtaaaca	5880
15	ttcaggacca	aatagtgccca	aagaaaagac	acctccccca	cctcagatta	tcctcctcat	5940
	ggagtaataa	agtcctcttc	cttgtagcta	atcaaatcac	tgggggtgTTT	gcactggtct	6000
	tgtataaaaa	atataatcct	gctaaaattt	ctatgtaaag	gaaaccatac	cttctctact	6060
	ttggaatgct	ggccccattc	ctttggagtc	gatgtttctg	ggtggcccgc	ctcaaacttt	6120
	gcctcaaaga	aactgtatac	ttaatcatat	tttctgaatc	tcattattta	aagttgacag	6180
20	gaggaaactg	gaagttcaca	gtggagaaga	gaagggagca	tattaaag	agaagtgggt	6240
	tgagagttgg	aaatatgatt	tatccactca	gcactgccac	taaatatgta	tgccatggga	6300
	ggctggtgac	tgtcctattc	tggaccaatt	tttcttggct	taaaaaatga	gaaagttgaa	6360
	gtggatgacc	tttgaagtct	ctcactgctt	tcacaatcac	ttgagtctga	ggataaacCG	6420
	agcagctact	tgcacatttt	taaaagtatt	aatatatggt	aggaggaata	gacttattca	6480
25	gtgctgctat	ggaaggcaga	acaagtcgtg	aaagttatat	tgagaaagaa	tatttgctta	6540
	acataaaaaa	gggcctctca	aaaattaga	attatttaat	gatagaaaag	ctgccttaga	6600
	aggTggtaaG	ctccaatggt	gagattttaa	gtctctgtat	ttctctaaa	tatttagaat	6660
	attcttcctt	tacttttttc	actaagccgg	ttcatattaa	gatacaacca	acttatcacc	6720
	TTTTTGGGGG	aaacttccta	gggtttctct	gtctggtaaa	atcatcccct	ttcttttccc	6780
30	tcagactttt	gtgcttatct	ctattttggg	ggcctatTTG	ggggcaaaaa	tttgtcatga	6840
	tgagaaattg	aaacctctcc	aaaatggaag	aataactgaa	aaattatggg	atagccatgt	6900

ES 2 784 246 T3

	gataaaaatac	ttcacaaatca	tttaaaaat	tgttcatgaa	aagattgttt	tgaaatacaa	6960
	aattatgta	ttttataatg	ctacctgaga	aaagaaaggt	acaaattgta	tatttaagta	7020
	tagtcttctt	tttttttttt	ttaaactgtg	tttcaactctt	attgccaggt	ctggcatgca	7080
	atgggtgcaat	ctcggctcac	tgcaacctcc	gtctcccagg	ttcaatcagt	tctccggcct	7140
5	cagcctcctg	agcagctggg	attacaggca	tgcgccacca	tgctgggcta	atTTTTTgta	7200
	tttttagtat	agacgggggt	tctccacggt	ggtcaggctg	gtctcaaact	cccaacctca	7260
	ggatgatccac	ctgccttggc	ctcccaaagt	gctgggatta	taggcgtgaa	ccactgcacc	7320
	tgccctaact	ccaactgttt	taaatgtgct	tataaacact	tgaatagaag	ggtatatata	7380
	ttaaaatact	cattttgaaa	gtgggcaaat	ctttacaggc	aaatatttat	tattttatct	7440
10	acatttttct	ttatttttctt	atgttctcaa	gtgagcatgt	ctgcttttat	aatataaaaa	7500
	ttgttaaaat	agaaaaaaca	taacttgtat	tttgaaaacc	aagaaaatag	ttgatattca	7560
	attacctgga	tttctggatt	gggttttgtg	ctgtcacaaa	ttgtgccgtc	acaaatgaca	7620
	cacatgacac	acaaataaca	caaatgacac	aaatgacaca	aaactgtcat	gcacaattcc	7680
	tgatgaataa	tctttttatt	ttgcaagcat	cttttgtcct	tcctctcat	ccagtatcca	7740
15	gcatcacagg	ccaccgcagg	aaagctgagg	ccccgtggac	aatgaaacca	cataaactga	7800
	gctcagagaa	atgcagcttg	atgaaataaa	gtagttgaaa	tggaaaaata	gttccctata	7860
	ttcttctga	ttccttcagg	ttacctgctc	caactatggc	taaagtgtg	gagagttttg	7920
	attgccagcc	acttcttgat	catttctttg	agtctctatt	ctttcctggg	ttaagctttt	7980
	aacctatcc	ttccagagct	cctggcatga	aaggggctaa	ggctcctagt	atcgtaatac	8040
20	aacaaaactc	tgatgttgac	tccaggggagg	gaaagaattc	aacatcaatg	tgctatataa	8100
	tccaaagaaa	ggatttggtt	ttattgtgag	caggtgactc	aagtcagggt	cctgcaataa	8160
	gctagaaaaa	ggcaactttg	tgaaagtatt	caagctgtta	atctagttta	atctcctcaa	8220
	ccagcaaaaca	ttgggaaaga	gcatacaata	ttccaggctc	agtgttaggc	atttagggta	8280
	acataaaggt	aaagaaatct	caaggtactc	atcagggatg	gcagcaagca	gagatgtgaa	8340
25	gaaacaatta	cgatgctgag	ccataggcac	aactctacac	attatccaca	gtgtatacac	8400
	attatacaca	tacatgtgca	tgtgactgtg	tcttccaact	taggcggaca	tgaacaatga	8460
	gaaaaagagt	tttaagactg	aatgagaatt	taccgaaaaa	tatgagcaaa	ggaaaaaaga	8520
	ggtttttagg	tgatgaaag	tgcccaggta	gatccttaga	catatgaata	ggtatatgtg	8580
	atgggagatt	aattgtttac	tttcattaat	attagtgagg	agcctatgca	tattaggaac	8640
30	tatatcagga	actgttttag	gtaatgagaa	tcccagctg	agcttatatt	gtgtcaggaa	8700
	gggagaaaat	aaacctatta	acaaataaaa	gtataattcc	tactctgccc	tcaaggaggt	8760



# ES 2 784 246 T3

	ggagcttgtc	ttcctacccc	ataagtgtgg	gtagcatata	gtgcctttct	ttcaaagaac	8820
	acagcgtgga	aaagagtagg	aggagaaaca	acttcccagt	ggagaaacct	gacaaacttt	8880
	tcctccacca	ggcatgaag	gtcaacatca	acagtcataa	atcatgtgta	taacatttac	8940
	ctttgataca	ctgcatgaa	aagggcactt	cacctctgca	gtctttctcc	ccagaacaca	9000
5	taaccctagt	ctaatcatga	gaaaaaatca	gacaaatttc	aaaagggaaa	aattttatag	9060
	aatacatggc	caatgctcct	gaaaacatta	aaagtcatca	aaaagcagta	acgtgtgagg	9120
	aattatccca	gcagagagga	gaccaaggag	acatgacagc	tgaatgtaat	gtgtttgtcct	9180
	ggatgggatc	ctggaagga	aaaaggacac	taagtaaaaa	ctaaggaaat	atgaataaag	9240
	tatggacggt	agttaatcat	aatgcattga	tattgtttta	ttcactctga	catatgtacc	9300
10	cctaagttaa	gttgttaata	acaggggaaa	ctgagtgtat	gcaatatgga	ctctataaca	9360
	tcttcataat	ttttctgtga	atctaaacca	ttttttaaaa	atatataata	ccaagtcggt	9420
	tgatgataag	tgctatgaaa	catagtaagg	caaggaatgg	ggtcaggaag	gggctgggga	9480
	gtgaggagtc	ttttggcaaa	ggccttaggg	gaggcctcca	tgagcaggtg	tatttgaaag	9540
	agtcctgagt	gaagaggag	agatcatgcc	agcacatggg	aatgcagatc	ctaaggccaa	9600
15	aaggctgaga	caggcttggt	gtgtttgaag	gacagcacgc	atgcaagcat	gcatagagca	9660
	cagtgagcta	gcgggagtac	gatgaggtta	gagaggaagc	tgaggctaga	ttatgtaaaa	9720
	ctttgggggt	catagtaaag	gatttgaatt	ttacttgag	taagattgaa	cagtgttgca	9780
	tgatttgcct	tgtatattcc	tgagatttac	ctggttgttg	cctgaactat	agatagtaga	9840
	gggcagagtg	gaaacatgtg	aacacttagt	aacctattgc	agtggactag	ttaaatgtcg	9900
20	atggctacct	ggccaggat	ggcagtgggt	gcattggtaa	gtagtagtca	ggtcttggt	9960
	gtgttttgaa	gaaacatggc	atgctgatgc	atgagaatca	gggaaaagga	aaaaattaag	10020
	gatgttttaa	aattccttgg	gaaattgggt	ggatggtaga	taggtggtct	gagtccataa	10080
	actgaatgag	aagaatggtg	gagtaaaagg	gtgcagatgg	ggttaataga	tttgatggtg	10140
	taaggctgaa	gaccttctct	gattaaatct	atTTTTTTTT	TTTTTgaaa	atgagaagca	10200
25	ggtcagtaag	ctgggaggaa	cttagggagc	aacagatttc	agtgttaaaa	caagaattca	10260
	aattgagaga	tgtgaagttt	gagattcatg	ttaggcttcc	aattagagaa	tcagatgggt	10320
	agttatgtag	atgactttgg	aaagcaaggt	agtgatagga	gctgaagtat	acacttagtt	10380
	accagtttat	atgagtgttt	aatcaagcat	aaattgtgag	tttacaatag	gaatgaccgt	10440
	aagttagagg	tgtctgaaga	ctgaggcctc	tggaactgca	agagtgagtg	gtcagaaaga	10500
30	aaataattta	acaaatggac	attccattga	tgtggaagta	aaagcaaaca	gtgattgtat	10560
	tgcaggagcc	aatgcaaaa	gttgtttttaa	gatagaaatc	agttggaaat	gggttccaag	10620

# ES 2 784 246 T3

	atggccgaat	aggaacagct	ccagtctaca	gctctcagca	cgagcgatgc	agaagacagg	10680
	tgatttctgc	atttccaact	gaggtaccgg	gttcatctca	ctgggggtca	tcggagagtg	10740
	ggggaaggac	agtgggtgca	gctcaccaag	cgtgagctga	agcagggcga	ggcatcgcct	10800
	cacctgggaa	gtgcaagggg	tcaggggaatt	ccctttccta	gccaaaggaaa	ggggtgacag	10860
5	atggcacctg	gaaaatcggg	tactcccac	cctaatactg	tgcttttctg	atggtcttag	10920
	caaacggcac	accaggagat	tatatcctgc	acttggcttg	gagggtccta	caccacgga	10980
	gcctcgtca	ttgctagcac	agcagcctgg	gggaggggca	cccgccattg	ctgaggcttg	11040
	agtaggtaaa	caaagcggct	gggaagctag	aactgggtgg	agcccaccgc	agctcaagga	11100
	ggcctgcctg	cctctgtaga	ctccacctct	gggggcaggg	catagccaaa	caaaaggcag	11160
10	cagaaaccgc	tgcaactta	aatgaacct	acagcttga	agacagtagt	ggttctcca	11220
	gcatggagct	tgagatcaga	gaaaggacag	actgcctcct	caagtgggtc	cctgaccac	11280
	gagtagccta	actgggaggc	acacccaat	aggggcagac	tgacacccat	acggctgggt	11340
	accctcttg	gacaaaactt	ccagaggaac	gatcaggcag	caacatttgc	tgttcaccaa	11400
	tattcgtgt	tctttagcct	ccactgctga	taccaggca	aacaggttct	ggagtggacc	11460
15	tccagcaaac	tccaacagac	ctgcagctga	gggtcctgac	tgttagaagg	aaaactaaca	11520
	aacagaaaag	acatccacac	caaaaccca	tctgtacatc	accatcatca	aagaccaaag	11580
	gtagataaaa	ccacaaagat	ggggagaaaa	aagagcagaa	aaactggaaa	ctctaaaaat	11640
	cagagcacct	ctcctcttcc	aaaggaatgc	agctcctcac	cagcaatgga	acaaagctgg	11700
	atggagaatg	actttgacga	attgagagaa	gaaggcttca	gacgatcaaa	cttctcccag	11760
20	ctaaaggaag	aagttcgaac	ccatggcaaa	gaagctgaaa	accttgaaaa	aacattagac	11820
	gaatggctaa	ctagaatagc	caatgcagag	gagtccttaa	aggacctgat	ggagctgaac	11880
	tacgtgacca	atgcacaagc	ttcagtagcc	gattcgatca	actggaagaa	agggtatcag	11940
	tgatagaaga	tcaaatgaat	gcaataaagt	gagaaaagtt	tagagaaaaa	agaataaaaa	12000
	gaaatgaaca	aaccctccga	gaaatatggg	actatgtgaa	aagaccaa	ctacatctga	12060
25	ttggtgtacc	tgaaggtgac	agggagaatg	gaaccaagtt	ggaaaacact	ctgcaggata	12120
	ttatccagga	gaacttccc	aatctagcaa	ggcaggccag	cattcaaatt	caggaaatac	12180
	agagaacgcc	acaaagatac	tcctcgagaa	gagcaactcc	aagacacata	attgtcagat	12240
	tcaccaaagt	tgaaatgaag	gaaaaaatgt	taagggcagc	cagaaataaa	ggtcaggtta	12300
	cccacaaagg	gaagctcatc	agactaacag	ctcatttctc	aaaagaaact	ctacaagcca	12360
30	gaagagagtg	gtggccaata	ttcaacattc	ttaaagacaa	gaattttcaa	cccagagtca	12420
	tatccagcca	acctaagctt	cataagtgaa	ggagaaatga	aatactttac	agacaagcaa	12480

ES 2 784 246 T3

	atgctgagag	atthttgtcac	caccaggcct	gccctacaag	aaccctgaa	ggaagcacta	12540
	aacatggaaa	ggaacaacca	gtaccagcca	ctgcaaaaac	atgccaaatt	gtgaagacca	12600
	tcagtgctag	gaagaaactg	catcaactaa	cgagcaaaat	aaccagctaa	catcataatg	12660
	acaggatcaa	attcacacat	aacgatattt	accttaata	taaatgggct	aatgctcca	12720
5	attaaaagac	acagactggc	aaattggata	aagagtcaag	acccatcagt	gtgctgtatt	12780
	caggaaacc	atctcacgtg	cagagacaca	cataggctca	aaataaagg	atggaggaat	12840
	atccaccaag	caaatggaaa	acagaaaaag	gcaggggttg	caatcctagt	ctctggcaaa	12900
	acagacttta	aaccaacaaa	gatcaaaaaga	gacaaagagg	ccattacata	atggtaaagg	12960
	gatcaattca	acaagaagag	ataactatcc	taaatatata	tgcaccaat	acaggagcac	13020
10	ccaggttcat	aaagcaagtc	cttagaaacc	tacaaagaga	gtttagagtcc	caaacaataa	13080
	taatgggaga	ctttaacacc	ccactgtcaa	cattagacag	atcaacgaga	cagaaagcta	13140
	acaaggatat	ccaggaattg	aactcggctc	tgcaccaagc	agacctata	gacatctaca	13200
	gaactctcca	cccaaatca	aaagaatata	cattcttctc	agcaccacac	tgcacctact	13260
	gcaaaattga	ccacatagtt	ggaagtaaag	cactcctcag	caaataaaa	agaacagaaa	13320
15	ttttaacaaa	ctttctctca	gaccacagtg	caatcaaact	agaactcagg	attaagaaac	13380
	tactcaaaa	ccactcaact	acatggaaac	tgaacaacct	gctcctgaat	gactactggg	13440
	gacataacga	aatgaacgca	gaaataaaga	tgttctttga	aaccaacgag	aacaaagaca	13500
	caacatacca	gaatctctgg	aacacattta	aagcagtgtg	tagagggaaa	tttatagcac	13560
	taaatgcccc	caagagaaa	caggaaatat	ctaaaattga	caccttaaca	tcacaattaa	13620
20	aagaactaga	gaagcaagag	caaacacatt	caaaagctag	cagaaggcaa	gaaataacta	13680
	agatcagagc	agaactgaag	gaaatagaga	cataaaaaac	ccttcaaaaa	atcaatgaat	13740
	ccaggagctg	gttttttgaa	aagatcaaca	aaattgataa	accgctatca	agactaataa	13800
	agaagaaaag	agagaagaat	caaatagatg	caagaaaaaa	tgataaagg	gatatcacca	13860
	ctgatccac	agaaatacaa	aataccatca	gagaataacta	taaacacctc	tatgcaaata	13920
25	aactagaaaa	tctagaagaa	atggataaat	tccttgacac	atataacctc	ccaagactaa	13980
	atcaggaaga	agttgaatct	ctgaatagac	caatagcagg	ctctgaaatt	gaggcaataa	14040
	ttaatagctt	accaaccaa	aaaagtctag	aaccagacag	attcacagcc	gaattctacc	14100
	agaggtacaa	ggaggagctg	gtaccattcc	ttctgaaact	attccaatca	atagaaaaag	14160
	agggaatcct	ccctaactca	ttttatgagg	ccagcatcat	cctgatacca	aagcctggca	14220
30	gagacacaac	aaaaaaagag	aatthttagac	caatatccct	gatgaacatt	gctgaaaaag	14280
	tcctcaataa	aatactggca	aaccgaatcc	agcagcacat	taaaaagctt	atccaccatg	14340

ES 2 784 246 T3

	atcaagtggg	cttcatccct	gggatgcaag	gctggttcaa	catacgtgaa	tcaataaacg	14400
	taatccagca	tataaacaga	accaaagaca	aaaaccacat	gattatctcc	atagatgcag	14460
	aaaaggcctt	tgacacaatt	caacaaccct	tcatgctaaa	aactctcaat	aaattaggta	14520
	ttgatgggac	gtatcttaaa	ataataagag	ctatttatga	caaaccaca	gccaatatca	14580
5	taatgaatgg	gcaaaaactg	gaagcattcc	ctttgaaaac	tggcacaaga	cagggatgcc	14640
	ctctctcacc	actcctattc	aacatagtgt	tggaagtctt	ggccagggca	atcaggcagg	14700
	agaaagaaat	aaacggtttt	caattaggaa	aagaggaaat	caaattgtcc	ctgtttgcag	14760
	ataacatgat	tgtatatcta	gaaaacccca	ttgtctcagc	ccaaaatctc	cttaagctga	14820
	taagcaactt	cagcaaactc	tcaggatacc	aatcaatgt	gcaaatatca	caagcattct	14880
10	tatacaccaa	taacagacaa	acagccaaat	catgagtgaa	ctcccattca	caattgcttc	14940
	aaagagaata	aaatacctag	gaatccaact	tacaagggat	gtgaaggacc	tcttcaagga	15000
	gaactacttt	cactgctcga	tgaaataaaa	gaggatacaa	acaaatggaa	gaacattcca	15060
	tgctcatgga	taggaagaat	caatatcatg	aaaatggcca	tactgcccaa	ggtaatttgt	15120
	agattcattg	ccatcccatc	aagcaaccaa	tgactttctt	cacagaattg	gaaaaaaact	15180
15	actttaaagt	tcatatggaa	ccaaaaaaga	gccacattg	ccaagtcaat	cctaagccaa	15240
	aagaacaaag	ctggaggcat	catgctacct	gatttcaaac	tatactacaa	tgctacagta	15300
	acccaaacag	catggtagtg	gtatcaaaac	agagatatag	acaaatggaa	cagaacagag	15360
	ccctcagaaa	taatgccaca	catctacaac	tatctgatct	ttgacaaacc	tgacaaaaac	15420
	aagcaatggg	gaaatgattc	cctatttaac	aatgggtgct	gggaaaactg	gctagccgta	15480
20	tgtagaaagc	tgaaactgga	tccttctctt	acaccttata	caaaaattaa	ttcaagatgg	15540
	attaaagact	taaacgttat	acctaaaacc	ataaaaacc	tagaagaaaa	cctaggcaat	15600
	acccttcagg	acataggcat	gggcaaggac	ttcatgtcta	aaacaccaa	agcaatggca	15660
	acaaaagcca	aaattgacaa	atgggatctc	attaaactaa	agagcttctg	cacagcaaaa	15720
	gaaactacca	tcagagtgaa	caggcaacct	acagaatggg	agaaaatfff	tgcaatctac	15780
25	tcatctgaca	aagggcta	atccagaatc	tacaagaac	tcaaacaat	ttacaagaaa	15840
	aaaacaacc	cctcaacaag	tgggcgaagg	atatgaatag	acacttctta	aaagaagaca	15900
	tctatgcagc	caacagacac	gtgaaaaaat	gcttatcatc	actggccatc	agagaaatgc	15960
	aatgaaaac	cacaatgaga	tgccatctca	caccagttag	aatggcgatt	attaaaaagt	16020
	caggaacaac	aggtgctaga	gaggatgtga	cgaaatagga	acacttttac	actgttggtg	16080
30	ggactgtaag	ctagttcaac	cattgtggaa	gtcgggtggtg	tgattcctca	gggatctaga	16140
	actagaaata	ccatttgacc	cagccattcc	attactgggt	atatacccaa	aggattataa	16200

ES 2 784 246 T3

	atcatgctgc	tataaagaca	catgcacacg	tgtgttttatt	gtggcactat	tcacaatagc	16260
	aaagacttgg	aaccaacca	aatgtccatc	aatgatagac	tggaataaga	aaatgtggta	16320
	catatacagc	atggaatcct	ctgcagccat	aaaaaaggat	gagttcatgt	cctttgtagg	16380
	gacatggctg	aagctggaaa	ccatcattct	cagcaaacta	tcataaggac	aaaaaaacia	16440
5	acaccgcatg	ttctcactca	cagttgggaa	ttgaacaatg	agtacacttg	gacacaggaa	16500
	ggggaacatc	acacaccggg	gcctgttgtg	gggtgggggc	agggggaggg	atagcattag	16560
	gagatatact	taataactaaa	tgacgagtca	atgggtgcag	cacaccaaca	tggcacatgt	16620
	atacatatgt	aacaaacctg	cacattgtgc	acatgtacc	tagaacttaa	agtatatatta	16680
	aaaaaatgct	gggtgcggtg	gctcgcgcct	gtaatcccag	cactttggga	ggccaagggg	16740
10	ggcggatcac	gaggtcaaga	gatgagacca	tcctggctaa	catggtgaaa	caccgtctct	16800
	actaaaaata	caaaaaatta	gctgggcaag	gtggcagggg	cctgtagtcc	cagctactcc	16860
	tgaggctgag	gcaggagaat	ggcatgaacc	ccggtggggg	agcctgcagt	gagctgtgat	16920
	cctgccactg	cactccagcc	tgggcgagag	tctgactcca	tctcaaaaaa	acaaacaaac	16980
	aaacaaaaaa	caagaacaaa	acaaaacaaa	acaaaagagc	acctacctcg	tagactgctg	17040
15	tgaatcttaa	aggtgccaat	gcacactaaa	actttgcata	tttccaggca	catagcaaac	17100
	ccttagcatt	acctatctca	atatttttct	tggttttgtt	ttgaataaaa	gcatttggac	17160
	ctaattttaa	ttgttaatta	taataaataa	tttatttgtg	aaaaaaagat	agaaatctat	17220
	tgtgtcaaat	gctacaaaaga	gtcaattaag	taagttcagg	tgtgggaact	gaccagtгаа	17280
	ttaactccct	tgacaaatgc	gtgttagggg	aatgatgagg	ataaaggcat	gactcgatgg	17340
20	aattcaagag	agattaaagg	gtgagagagt	gaaaacagtg	taagcaacac	ttgctgtaac	17400
	ttttgtcaaa	acgaggaagg	aaatgttaat	ggtatctggt	gaaggaaata	aaaaaaattt	17460
	tcctattggg	tatttattga	gcacaatttt	tatttgggtg	aatgatcca	atagggaaag	17520
	aatagttgat	ggcatgcaaa	gagatgggaa	aaattgtagg	agcaaagcac	tttagggaca	17580
	agaataaata	ggaccaggt	cacaaataaa	gggatttgct	tagatagggg	gtctgagtcc	17640
25	attcactgaa	tgagaagaat	ggtagagtaa	aagggtgcag	atgggggttaa	tagatttggg	17700
	gtatggctga	agaccttctc	tgattaaatc	tatttttttc	agaaaatgag	aagcagggtca	17760
	ccagctgaaa	atgagggggg	tggagtgatg	atttagtatt	ttaaaagcga	agaaaaagtg	17820
	agaaatagtt	gttttgggtg	gtaagagagt	gaattggatg	agcaaatata	atagatttcc	17880
	tggacagagt	ttggatcata	catttgaagt	taagcacagt	tagcatgtac	tgtgatttct	17940
30	ccagcttgaa	tcactcttga	aggatgatag	agacaaaagc	aaaagtcgaa	tttaagccaa	18000
	aattcggatt	tcgtagatga	ttatgatgaa	ggaaacaggc	aagaaaaaga	atgacataga	18060

ES 2 784 246 T3

	caagtaatga	gatgataaca	atagatgaat	catacagact	ttcgactgaa	tacaaaggta	18120
	gtgacaaaact	gatggaaggt	ggagaagaaa	aggggaaaat	gttaatggaa	tcacagacct	18180
	atctgatgag	ttgttgaggt	gttgaggtga	gagatctaga	gaaagtagaa	atggaaaaat	18240
	gagtgttgct	acacagaaga	ctagatgctg	aggtgaaata	tttaattatg	tttgagttat	18300
5	tggttaaggac	agtctaagaa	atggcctggg	aagtggggac	agttagacaa	aggaaggtgg	18360
	aaatgtaaga	tgggggtgttt	ggaagataag	aagacaagct	attgagaagc	ttgagtagta	18420
	gatggttttg	agtgatcaag	gatgatgcta	agagtagtaa	gcagtggaga	aaccgagcta	18480
	aattaggtgc	taaaaatctt	gcaaaaatta	ggaggattgc	tcagaaggat	agcaatgtga	18540
	caaaggaaaa	tagtggctgg	tataactttg	cagtgtatct	gtcaaagaag	ctggaagggt	18600
10	tagggaggat	gaaggagcaa	tattctggaa	ctgacaatgg	agatcaaaga	ggataacttat	18660
	cctaagccca	gtgaaataag	aaagatatca	cgccatggga	gggctgtagg	gaaggataac	18720
	ctctggggag	agccaggttt	gtagaatgga	aggtaaaata	tttagagaag	tggttgaata	18780
	tataatatgg	agattttact	tttcttagag	tttaattctt	ggagaaagta	ttttgaggag	18840
	tctggaaagg	attacagctt	gagtcccatg	agggaaactta	cagaacagtg	gatggaagaa	18900
15	caaattttga	cttattgtag	taatagagac	aaaaagggca	tcatgctagt	gttctcttat	18960
	ggagaggggg	aaactaccag	agtatacaca	aagactaaag	aacagagtat	gaatatcttg	19020
	attaagaaaag	gtcacttgag	caattcctag	tgatgtagca	gacagtgttg	gatggagaga	19080
	aagtggagtt	ctataagcct	ccaggaaatc	caactgtggg	tattgttgat	acaaaaactg	19140
	aagctaagac	agcaagctaa	agtcatggga	agaagattgg	acttagtctt	taggcattag	19200
20	gatgctgtat	taggttgaat	aatgacactc	tctgatatgg	ttaggcttgg	tgtccccacc	19260
	caaatcttga	attgtaatct	ccataatccc	catagtcctt	tcatatcaag	ggagagacca	19320
	gggtggaagta	atggaatcat	gggtgcagtt	tccccatgc	tgttctgggtg	atagcgagtg	19380
	aatctcacia	gatctgatgg	tattataagt	gtctggcatt	tccccttctg	gcacttctcc	19440
	ttctgatgac	cttatgaaga	aggtgccttg	cttcgtcttc	accttcacc	ttacaccatg	19500
25	attgtaagtt	ttctgaggcc	ttcccagtca	tgcagactgt	gagtcaatca	aacctctttc	19560
	ctttataaat	tgccccatct	caggcagttc	tttatagcag	tatgaaaaca	gactaacaca	19620
	ctccctcccc	aataatatgt	tcataaccac	caaacctgta	aatctaacct	tatttggaat	19680
	aagtgacttt	gcttttgtaa	tgaagttaag	gatcttgaga	tataatcatc	atggatgagt	19740
	ataagcctta	aatctaata	catctttata	agagaagaga	agataaaaga	agataaaaga	19800
30	agagaagaga	agagaacaaa	gacacagaca	cagagaagaa	tgcgacatga	agacagaggc	19860
	agagattgga	gtgaggcaac	aagccaaagg	gcaccaagga	ttgccagcag	ccatcaggag	19920

ES 2 784 246 T3

	ccaggataga	ggcatagaac	agagtctacc	tcagcgtcca	gaaggaacca	accaaatacc	19980
	ttggcttcat	actctagcgt	ctagatctgt	gagtaaattg	gcttctgtgg	ttttaagcca	20040
	ttaaatttgt	ggtaatttgt	tatgacagtc	ctagaacact	aatccatag	cctaagtaag	20100
	aataacttag	tcacatatat	gaacacatat	gcatgacttc	tcgcactttt	gaagcagcta	20160
5	attttcagag	acctgtggcc	agcatggtct	gagatgtcct	cagcccagag	tgcttattga	20220
	attgatagaa	acacatagta	attgcattac	tgaatgctat	tctaattattg	tgttagaaat	20280
	aactttatgt	taacagaatg	tgcaaagaga	ttggaataaa	ttaggtgcat	gagaaaaaaaa	20340
	tattgtgtgt	aatgaaagc	aggtcaaata	tttcagtaga	tgagttaacc	caaagacagt	20400
	tttctgaagc	tggcaggact	ccttcttcat	aagatcagca	agaactgatt	gaccaacatg	20460
10	ccttggggta	tgaagggaca	agaagtgtca	tctgacctga	ctttgtgcct	tgacttagga	20520
	ctggcccca	aaatacacca	cagaaaacaa	aataacacat	ctctgcagaa	atttcttgg	20580
	actctttctg	tttgttcttt	agtcttcatg	gattctctgg	tagtttctac	tgtcttcccc	20640
	catgatgtgg	agaagtttcc	tccagtctgc	ttcacctgt	aaagtagatt	gtccgtgatc	20700
	atggctatgc	catgaggaat	cgctgtagtt	tcccaatgac	atcctggtat	tggtcacct	20760
15	ggtagatgct	tcctctggct	tctctgtgat	aggtgataga	cttttgtggt	attcatttgt	20820
	acatcaattt	gaccaatatt	ttacctctta	ctctttgcca	agcattgttt	tagatatagg	20880
	agataaaaac	atctcataag	gcatatattt	tagtgaatga	gcaagaaaat	taccatgtga	20940
	aaacataaat	gccacttcag	aaaagaaaca	aaataaggaa	atatacaaag	aggaatgtta	21000
	ttttggaaag	agtaatgaag	acaaactcta	aggggtgaca	gtagagcaca	gatatacatt	21060
20	atcatgcatg	tggggaagaa	tatttttaggt	agagagaaga	gcaagtgaaa	agcccttaga	21120
	acttgctata	tgtgagtaac	agcaggatgc	tgtggactga	gttgggggaa	gagatgaggc	21180
	tagagagact	ggattttaag	tgtcattggt	ttaaattgatg	gtggaggagt	aaagggagcc	21240
	acataaaactg	atztatattt	ccaaaatatic	acaatggctt	caggggtgaag	gagatagtgt	21300
	agaagccaag	agtggacttg	gagaaccatt	tgagagatgt	ccccagtagt	tgagatgaga	21360
25	gatgatagtg	actgggatga	tggtgacaat	ggagaaagtg	ccaaaaagca	aactgattcc	21420
	aggaatattt	aagggtagag	tcaacagaat	gtgccggtgg	acttaaaaat	ggatgtgaaa	21480
	gaaagggaga	aatcaagact	cctgggcttt	ggactaacia	ttggatgaat	attgattata	21540
	tttattgaga	tgaggaaggc	tagtgaagtg	tcatgttgag	ataggagatg	ggaaacaaaa	21600
	gaggtctggt	tttagatatg	taagtctgca	atgtatttct	gatgtttaga	tgagacattg	21660
30	tataggcaga	tagaaatatg	agttgatgct	caggacagaa	attgaagcta	gagttacaat	21720
	tatgggtgtgc	aaagccatga	ataaggatga	gctcatccag	ggagtgagcg	gaggacgaaa	21780

# ES 2 784 246 T3

	tttccatgct	ggcatggaga	gataacaaaag	aggcctggaa	agtcttcaaa	tctgcaaaaac	21840
	agtattgctg	ccacccaaaac	tatcctcttg	tgtaagagag	atggacacag	cactgatgga	21900
	atgggtgcaa	aggcatcatc	acagacttca	gtattaaatt	gaagttgtca	tttgcttgtc	21960
	ttccaattat	atcgggacac	tggttaaagt	tactaatctt	tggtgatttg	gtgtgtgtgt	22020
5	gtgtgtgtgg	ctgggtgtgc	tctgtgtgta	tttatgtgaa	tacatggact	tttaaaatat	22080
	ggatgattat	gaaatatatt	aaaaatgggt	aaccatatac	cacttgcttt	gcattataaa	22140
	gctttcttcc	tgagaagcta	tgctacgaaa	cattggggac	aacttttttt	tttttaaaga	22200
	gaaattgaga	ctattgtgtc	ctggcatcag	gccaccatca	aaatgagttt	gagtttggtg	22260
	ttacagagga	tgagaaattt	aatggaaaaa	tttaagagga	actttgagat	gtggaattaa	22320
10	atcttaataa	tgtgatcaag	gctggagata	tgaatttagg	tgtcttccat	ttataagtga	22380
	gttttgaaac	catagaaatg	gacatgtttt	ccaagagaaa	agcatgccca	gagacgagag	22440
	ggcagggagt	aaagctgtgt	ccttgtgtaa	gggcatggat	tcttatttga	cagctaaact	22500
	tatacaacac	agagaaatgt	cattccaaga	agcttaaagc	ttagcatgtg	gaagcgtcac	22560
	attaaatatt	tttccagttc	atgaaaaaag	ggagtaaagt	aagacgtagt	tgaaaggaaa	22620
15	agaactttgc	acagaaatct	gagaagaaat	agttggagat	atagcagcag	aaccaagtta	22680
	gaatgttgtc	aaaaaaggca	acatggtaga	aaactaagaa	ttctgaagtt	gtttaaaata	22740
	ttaaaagaga	ggaattcagt	tagcaatgag	tcaatactca	tagtttattg	ttgaccttga	22800
	tgacagcagt	tttaacatga	tgtagtagaa	tgctaggaaa	tgacagaagag	tcataaatcc	22860
	aaggaacaaa	gtgaggggtg	gtctctgaag	gctttctgga	agaagtgtta	ctaggctaga	22920
20	gtcttaaatg	gctaggagga	gtttcccaga	aaaagtcgga	aggatgaaaa	atattaatta	22980
	atattttcca	atcactgtgt	gtcctgttcc	ttttgaatta	accctgaca	gctctatgga	23040
	atgtgattct	tattcacaaa	tcctatttta	tactaactga	aaagaatctc	acatcaatca	23100
	agttctaata	atgactatat	aattttttga	gtaccttcta	tgtacctgaa	tctgtgcaaa	23160
	gtactatggt	agatccaaag	gtgccagagc	actgttctgt	tctcaaagtg	caaatgctac	23220
25	atgtgcagat	caaaaaaaaaat	taaggtccat	ttataaagca	caggttacat	gtctggtcct	23280
	atgctctgga	ttgcgggcat	taagataaaa	acataaggca	tgtttttggg	gaattcacag	23340
	tctagtaata	tttgatatac	atgcaaacag	acacagtttc	tcatgatcta	tgatatgaca	23400
	gggtactgtg	agaacaaaga	ggagggatgc	ctaacctagg	tcacatgagg	ggatcatgga	23460
	agtatagaat	gggtaaacct	tgagtgcagt	cttgacaggg	actctatcta	ggaagttatc	23520
30	taggtgaagt	tatctaggag	aagcagaata	tcttgcaagg	gttaatgcag	agatctgaga	23580
	gagtaagttg	catttgagca	ttcagaataa	acacctgaaa	agtaaaatat	gaaggtgagg	23640



ES 2 784 246 T3

	gtgatagaga	aaagacttga	aagcatgaat	tttggctaca	aaatgataac	ctcagattat	23700
	ccagaaaagt	gtgactttct	aaccttttaa	caattccata	cttcttagta	aaccttccaa	23760
	taacatcatc	tttattaaca	gcttctacaa	accactagc	atgatggagt	tctgcttcag	23820
	cacatctgga	tcccaaatgg	ttgtcattag	tcatttcaaa	ggcttagctt	atthttattta	23880
5	tgacttgctt	caataaacac	actattccta	catggaattt	aatgtgaact	tttgacagtg	23940
	attactattc	aacatttggc	ctctaactc	ttctgtgcct	cgaagtagtt	aacgagcact	24000
	cattcaacca	gaatttattg	agcacttgct	acatgtctgg	aaccaggaca	gggtgccttac	24060
	agtggtgctt	ctcaacttta	ctcttactaa	acattaaata	tcactcttta	aaaaatatca	24120
	attgcaattt	caaaattagc	ttcaatttag	aacaacagat	atthacagaa	gacaatttcg	24180
10	atatggagat	gcttaaaggc	ttttcttggc	tcatacgacg	acaatagaaa	gacaaagggtg	24240
	cacttgattg	cttgttaaaa	acttctctat	cctaaattta	taatgttcat	ttaaccaata	24300
	tttattgaaa	atcagctctg	cactgagcac	tgatcatttt	tggtgatactt	caatgaatac	24360
	aacaaattaa	aaaaaaacaa	aacctgaaat	ggagcttatg	ttctaggaag	tccagacagt	24420
	aatatacaca	aacaaaatga	ataagctaaa	caaagtttac	ctttccgttc	aagtctaagg	24480
15	tgctgctgct	gctgctgctg	aaattcatca	tcagtgcaaa	taatggcttc	aaaaccacg	24540
	tgaaagattg	caggacaag	gaataaaaaa	acttcccttg	gaatctttca	gtcaaagact	24600
	aagcattggt	tacttaagct	cacaggcaga	tatagagggtg	gccgtagagg	tccctggaat	24660
	cagactagct	tggttcaagt	cttgggtccc	ccacttccag	gccagggtgac	ttcagcaagt	24720
	tacctggcct	gtctttgtct	catctctca	catgaaaaaa	gtggcattaa	tcttcccatc	24780
20	atagcattct	gtgagaatta	agtgagataa	tacacataag	atactcagag	gtgttgagga	24840
	tcaagaccgc	tgatggcag	taccctgtgc	tgacatagac	taaattctca	gtagatatca	24900
	cttattatta	ttgctgagaa	gacagtttca	ttcatgtgtt	taacagaaac	tttcagctcc	24960
	aatgtgaaga	aaatatcttc	tgcacacaga	gtagatgaga	tttgatactt	tccctcaaat	25020
	cgctttcaag	atctttgtcc	ttgagagtct	catcaatctg	agaacacgaa	gagatgtttt	25080
25	agtaccaatt	cacagtgttc	atagatatat	tttggctata	aatggtgaag	tatgtcataa	25140
	taagtaaagc	tattggtatt	tgtccctaag	ctttttgtgt	catgtattca	aagcttcaaa	25200
	atgtatgttt	ttatatgctg	aacagaactg	taaagcataa	ttgtgggaag	tttgagcaa	25260
	atgattgttt	taatggcttt	cccaaagcag	cttatttccc	cttgaccact	aacaaccata	25320
	caattgaaga	actttgtgat	tggtcttcag	atthgcacag	agacaggcag	tgcccatggt	25380
30	tttatcttta	ctgtgcttgt	cttgaatgtc	atcagctgac	aggaagcata	gcaagactga	25440
	aggcctcttg	tgagttaatg	ggcaatttta	gttgtcaaag	ccaggtagag	aataatggaa	25500

ES 2 784 246 T3

	ggagttctta	aaattaaagt	gcgtctgtga	gtgtgtgttt	aatgaattg	tatttgtttt	25560
	gtttttcttg	tctttatctc	ttttttcttt	ttttctaaca	gaagaaatcc	tgacactcct	25620
	gcagaaagct	tggctgactc	acagtcagaa	caggccctct	ttattaatct	caaattcacc	25680
	tcattcactc	caggacatag	ctttaaagaa	aaaaaaaaatt	agcatttttt	tttggaata	25740
5	tcctaggtta	cagaaagcat	caattcttct	gcacatagtt	aaacacaatt	cctcttatca	25800
	ctgaaggctt	taaaactaaa	agctaaagag	agtgacaacc	atatatttga	aaaatgttgt	25860
	tgatctcctt	tgttacatta	ccaatttggc	acttaactga	aatttctttt	aaaatgtata	25920
	atccaagcaa	tgttttccaa	agtagctatt	ctatacattt	ttataagtgt	ttctatgttt	25980
	tttaaaatct	tctatttcat	aaaatgtttt	cttaagctgt	gaattcctgg	tactctttag	26040
10	tccaatattg	cctagcttca	tgagtaggaa	gagccaaatt	aatcaaccaa	tcacagaaac	26100
	aaacaagcaa	acaaataata	aaaaacattt	gtttaaatca	tgtacaatat	aaatattttt	26160
	tacttaacta	atthttaagt	caagagagct	ctgctcaggt	ttaaaacata	aaactcacag	26220
	acaaatttct	acactcttct	ttacaatgta	tacaaaaaac	accgactagg	aatgcactgg	26280
	aggttggcat	tggccttgat	atthgaccaa	aatctgatat	ttggcttcta	tattagtatt	26340
15	caaagggtctg	agtgcttact	tcagtataat	tttaattttg	tgatcagata	gattaccatc	26400
	gatctagtca	caataaaggc	atgagtacca	ggagcacaga	caattttgat	tctttaatgc	26460
	ctaaatatta	tttttcagat	ataaaaaat	ttacctgtaa	cttgaagtga	acatttctcg	26520
	ccctactttt	atacatgaaa	aaattgtcta	cttggttgaa	gagtaaatct	atatttacta	26580
	ttacaagtag	aaaatgctgc	aaaaataaat	aatgttgatt	atgaaaaatg	ttaattttat	26640
20	tttaaaaacc	aataaagaat	tcaccagtaa	agccatctgg	tcttgagtgt	ttctttctga	26700
	gaagtthttg	gttggtgatt	caatctcctt	attctctatt	ggctctgtca	aacattctat	26760
	ttattcataa	tacaggtatg	gtaggttgta	agtttctaaa	aatgtatctt	atthtcttcta	26820
	gattatgcaa	tatgttgga	aataattgat	cagaataatc	acatgatttt	tttatttctg	26880
	tggaaatcagt	tgtaatatgt	tcttttacag	ttttgttttt	atthccatct	tctggthttt	26940
25	ttttgtttgt	tttctgaaag	ctaaaagttt	aacagthttg	tttatctttg	caaaaagcca	27000
	actthtagtt	ctgthgattt	tttctattg	tttctctatt	ctatatttag	cttatttctg	27060
	ctttaaatt	tattatttcc	tacatcttac	taactthtagg	cttgctthgt	cctcctthtt	27120
	ccagctcatt	gatttgtaaa	gttaagthgt	ttatttgaaa	tttttcttct	ttaatataga	27180
	tttttatcac	tataagcttt	tctcttagaa	ctgctthttg	tgcacctcat	aagthtttgg	27240
30	atgthtttcta	aattthttata	tattatctaa	atcccccttac	aatatattcc	ttggccatt	27300
	ggtthgtccaa	attccacata	tttthgtatt	tttcttctct	ttthgtcatt	ttagthttgg	27360

ES 2 784 246 T3

	atTTTTtagtt	cttagtattt	tttagtaatt	tttttagtat	tttttagtttt	ttttctgtta	27420
	ttcattttta	gtttcattca	tctctgttgg	aaaagatact	tggtataatt	tcgatcttct	27480
	taaatttatt	aagacttctg	ttgtgacctt	atTTgtgatc	tgCcttgGag	aatgTTtcat	27540
	gtacatttga	aaagaatgta	ttctgctcct	gtaggcagaa	tgTTctgttt	atgtatgttg	27600
5	atccatatgg	tgtatagtgt	tgTTctaggg	agaattaaca	ataatccttc	aaaaactcct	27660
	ccaaaaaat	taagaagtat	aatttccaaa	ctaattttat	gaggtcagca	ttatcctgat	27720
	accaaagcaa	gacaaagaca	ctataagaaa	agagaactat	aggccaatat	ccttgataaa	27780
	catagatgca	gaaatcttta	aaatattagc	aaactgggga	aaactggcta	actatatgca	27840
	gaagaatgaa	gctggactcc	tacctctcaa	tatatccaaa	aattaactca	agatggatta	27900
10	aagattttag	tgTTaagacc	ttgaactata	aacctcctag	aagaaaacct	aggaaatatt	27960
	cttctgtaca	ttggcctaag	cagggaaatt	atgaccaagt	ccttaaaagc	aaatgcaata	28020
	aaaacaaaa	ttgacaagtg	ggacatagtt	aaattaaaa	tcttcttcat	aacaaaagaa	28080
	agtatcaaca	gacaacctac	agaatcagag	aaaatatttg	ccatctgtgt	atctgagaag	28140
	ggactaatat	ccagaatcta	taaggacttt	aatcaagac	aaaacaaatt	acttactaa	28200
15	aaagtggTca	gagaacatga	atacacactt	tctaaagaag	atatacaagc	aaccaatgaa	28260
	catatgaaaa	attccctgca	tcactattgg	agacatgcaa	atcgaaacca	caatgagata	28320
	ccatctcaca	ccagtcagaa	tggtctaatac	aataaagtaa	aaaataacgt	gttggtgagg	28380
	ttgtggcaaa	aagagaacac	ttatacactg	ttggtgggaa	tgtaaactga	ttcagccctt	28440
	aggaaagcag	tttgaagatt	tatcaaagaa	ctaaaaatac	aactgccatt	caaccagca	28500
20	gtcccattac	tgggTatata	cccaaaagaa	aatgaattgc	tctaccaaaa	agacacatgc	28560
	acttatatgt	tcattgcagc	actatttaca	acagcaaaga	cataaaatca	aactaagtac	28620
	ccatcaatgg	tggtatggat	aaaagaaatg	tagtacagac	accatggaat	attatgcagg	28680
	cataaaaaag	aatgaaatta	tttgctttgc	agtaacatgg	atgcatctgg	tgGCCattat	28740
	cctaagtgaa	ttaatgcaga	aactgaatac	aaaatactgc	atattctcac	ttataagtga	28800
25	gggctaaca	ttaggcacac	atacacataa	aaatgggaaa	aatagacact	agagaccca	28860
	aaaagtaaga	gaaagaggga	caaggggcaa	gggttgaaaa	actacctatt	agtactatgt	28920
	tctctatatg	ggtgacggaa	tcaatataaa	cccaaacctc	agcatcatgc	aatataccta	28980
	tgtaatgaac	ctgcacgtat	accctgaatc	taaaataaaa	aatatatatt	ttaaaaactg	29040
	gcaagataaa	tttgataaca	catttttttag	ttcttcttca	aatatttgTg	agaattcacc	29100
30	agtgaagcca	tctagtccag	ggcttttctt	tgTTgggaag	tttttgattt	ctgattaaat	29160
	cctgcttgTt	ataggtatat	ttagattttc	tcattttctt	gcattagTtt	tggtagTttg	29220

ES 2 784 246 T3

	tgtctttcta	ggaatttggt	aatttgatct	gcagagtatt	ctttcataat	cctttcaatt	29280
	tctgtaaagt	ttgtagtgat	gtttctactt	tcacatctga	ctaagtatth	ttgcttctgt	29340
	attaatthth	tgtagtcaa	ttacttaat	gattgactaa	thttattgat	cttatcaaag	29400
	atccaactth	tggttgact	gattctctct	attgtththc	tatgaactat	ttgaaatgtg	29460
5	gctthctaag	attaactgta	ttcagtgctt	ttggatgttg	taathctcta	cagaaactct	29520
	thcccagctt	tgctthccag	gctthtaggga	gtctthtgta	catcacaact	acaatctthh	29580
	gccccagata	actgggctth	tgattcatca	tcaaatgtth	ttgagcaatg	ccttctcctt	29640
	thtctccttg	agttctgagt	tagtgaaag	agagataagc	atctthccga	gtccttcatg	29700
	tagcctctag	actagttaga	acagacaaac	acacgaathh	tcaaataaag	tctgctcagc	29760
10	thcattaaga	accagggaca	aggactgcac	tggaaatgca	gggtgtcact	thcaagtctg	29820
	cagcagaact	aggaagggta	gccaagggca	actgaaaatg	ccacaaacth	thtctactat	29880
	ththtatgtg	ctththtctt	gattcaacat	tcacttactt	cctgtatgct	thtgaccatt	29940
	thtctgggct	gtgacaaaagc	ggthtcttat	aathctgctt	gctththtgat	gtththtgtyg	30000
	aggaacaggt	gtthctgagcc	acttgctcca	tcagthtgct	tacctcaact	atccaaathh	30060
15	aththtgatc	ccagaathth	athctatgat	agtgattatc	agththtgcc	tcaactthca	30120
	gccactthat	aaaattgggc	ctthtgacat	thggccaaaa	tgtgtattca	thtcaactta	30180
	thattgaaat	gggaggaath	thcccttatc	cccctagcat	ggccagcgc	agggacgggg	30240
	gtgtggctga	gttcttcagt	gccccacagc	tcgaaacct	agggggacca	ggcagacggg	30300
	caggccatgg	ggagcathth	tgggcttoga	ctctatggcg	atgtctaggg	thgagagthh	30360
20	acagctcca	aagccccagt	gggtgtgtat	tacagtgtgc	tctthcagth	thgccgtcca	30420
	caggthgctt	gtgttaaaca	gctcagttag	accctcgcct	tatcgcaagg	acagagggat	30480
	thtctgatct	tgggtgcttg	ccttagtgta	ccgaaaaaat	cagatcacgc	thgggcttgg	30540
	aggatggtyg	caagththth	thgagtgtctg	gaagtagctc	tcagcagatg	gatggggagc	30600
	cagaaggggg	atggcgtggg	aagatggthc	thccgtggag	tctggcctct	cagcagccag	30660
25	gctctthctc	aaccgcctgc	ccttggccga	athccccctc	gcathcgcgt	cgthctgccc	30720
	thcatggcct	gcgagcgtct	gttggtygggt	gtgtthctct	ggaaatccag	ccactthgtac	30780
	gtgcccgtca	gggcctcggg	gtththtatag	gcacaggatg	agggggtgtg	gcaggccaaa	30840
	gtggtcttgg	caaatgcaac	aththggaaac	gaaaacagga	gtgcctgtcc	tcacttaggt	30900
	ctgtgggcac	aggcccaag	atggatccc	tggcagggac	cccattcttg	tctccccagc	30960
30	actthctctc	agccctcca	tatctthtag	aactthggaa	aatgtthcag	cttthtcacaa	31020
	tctthgatth	thcctthctc	thccaaaaca	taaatatgag	gagtathth	gaggtthgtct	31080

ES 2 784 246 T3

	aatttacgtt	ttggagaaat	taatggattc	ttggccttggc	tatctgcagt	atttactcat	31140
	gtctgaacct	taagcaaacc	tgctttcaca	tttatgtctt	gatctgtagt	ctaacacttg	31200
	actcaattta	ataatgcca	aaagaagatt	aaaatgctct	ttatttgata	aaatagtaat	31260
	ttctagcata	atgatttcaa	gacaaaat	ttaaaaatgg	aagtggtaac	aaaaataacc	31320
5	ttgttgagtt	caaaccgat	atagtttcta	agaccaacaa	acaaaaata	gtttttaaac	31380
	ttcttcattt	ttaaaaatag	aaagcttatt	tacatttata	atataagaaa	cattcttgaa	31440
	ctgaagtgta	atgcaaatag	gaacagtgg	tatgttttag	aggatgctgt	cacttgagta	31500
	gtttcaccca	tcagacaaag	aaacaaggat	ggcagaaaac	acagcacct	tttcatgtgt	31560
	aaaatgtgac	ttgtcacctg	tcaaactctg	aatgataatc	tggaactcaa	ctagttggca	31620
10	atttgaaaag	tacacacaaa	tatttatcca	atatggcaca	caaaacaact	accattttgg	31680
	agagccttga	ggcagtatct	cattaatttt	aagatgtgca	tacattacta	tctagaaatg	31740
	cccacagtta	ggtagctacc	ttagaaaaat	tttcaaatac	ttgtcacaag	gacacatgta	31800
	acacaatggt	cttttcagaa	ttctataaca	caaaataatc	atagaaaatc	aaaattatta	31860
	caattagaga	aaaaaaatta	aatggttgct	cttctttcca	tccatgagtt	taaaataata	31920
15	tatcaaatta	ataagcatag	ataaatgaat	gagatctaca	tgtattaaca	ttgatataaa	31980
	cattacactg	agtgaaaagt	tgtagaaaga	tacatttcat	cagttacata	tatttgagaa	32040
	acacaggaaa	tactatatat	tccctcaaat	gtttttgagc	aatgccttct	cctttttctc	32100
	cttgattgag	ttctgagtta	ggtgaaacag	agataagcca	tcacttcttt	tttcatccta	32160
	gggtgaaatt	tgatatacacc	ctatgatatt	tgttatttga	acaataagaa	tattttttca	32220
20	taagtatttt	ctttagtgtg	ccccaaataa	gttaatatta	caaatataga	ataggcttgt	32280
	ttacattaaa	aacacccttc	tccatcaaag	aaattgtgat	ggttgtactg	ccctttcacc	32340
	ccttaggtgg	ttgcactgcc	ctttcacccc	tccttctctac	tcccaccctg	gataagccac	32400
	agctccgggg	cacgtgagag	taatttctta	taagatttct	ctgtgataga	cttcagaaga	32460
	caagttatat	actcatgaga	ttctgaaatt	gtaaaatatt	agtgcacaaa	atccctcaag	32520
25	aactgaatta	tcttttacia	cacctcaatg	aaaagactaa	gaactgaagg	ttagtgggggt	32580
	gtattcacct	ttctaggggtc	acataatgaa	gcagggcatg	taatacacag	caataaagga	32640
	gaagaaaggg	attaaatgct	gaagtaagtg	gtgaggttaa	caattctaaa	aaaggcagaa	32700
	acaaaattga	tttgagttgt	ttaaaggtta	cttaacattt	catgtaaact	ttcatagtac	32760
	agaaaactat	aggaaagcat	tccaaatttg	cggaccacag	tctgataaaa	gaaatgaata	32820
30	gcttatttctt	aaacaagatc	tgtttgcccc	atctaggaag	ttatgctggg	aaagacatga	32880
	aattaacacg	cattaagaga	tagaccctct	atctgtgcaa	tgtttcttct	ctcataatta	32940

ES 2 784 246 T3

	agaaaaatcc	actgaattca	tgccaggaag	tctgtctgac	cctgatgcct	accttactgt	33000
	caccataaaa	cactgtcttc	caggatgttg	gggaatggag	agattgaatg	ggtgtacatt	33060
	ttgggaaaaa	aaacttcaa	ggcaaatatt	ttgtgtgcgg	ctttaatgct	aagaccagca	33120
	attagctatt	gaggataatt	ataccatggg	gctaacttct	atgacattta	aattcgtttt	33180
5	cattgtgaat	catttcagcc	atataaaaa	gaatagcaat	ataaaaaata	atccatgtgt	33240
	ttactaatat	gatttatgaa	atgttgacat	tttgctgtat	ttgtttcatg	ttgtttttgt	33300
	ttatcttaga	agttttagat	aagataaaa	ctcctcctct	ttttgttccc	catctttcag	33360
	tcccagaagt	aacctttcc	tgaagcaact	attttggtgt	gtggcctcct	gaagctactt	33420
	cattctttac	aacatgtcta	ccctatatat	tcttatgtgt	ataaagccta	tataatattt	33480
10	cctgtgtttc	tcaaataat	gtaactgata	aaatataatc	ttttgcaact	tttcaatgta	33540
	atggttatat	caatgttgg	acatgtagct	ctcattcatt	tatctatgct	tattaatttg	33600
	atgtattatt	ttaaactagt	tgattgaagg	aatagcaagc	atthaatttt	tttctcta	33660
	tgtaataatt	ttgtttttct	atgatttttt	tattatagaa	ttctgaaaag	aacattgtgt	33720
	tacatgtgtc	cttgtgacaa	atttttctaa	ggtagctacc	taattgtgga	cattttctaga	33780
15	tagtaatgta	tgaacatctt	aaaattaatg	agatactgcc	tcaaggctct	ccaaaatggt	33840
	agttgttttg	tgtgccatat	tgataaata	tttgtgtgta	cttttcaaat	tgccaactag	33900
	ttgagttcca	gattatcatt	cagagtctga	caggtaacaa	gtcacatttt	acacatgaaa	33960
	agggtgctgt	gttctctgcc	atatttgttt	tttttctttg	tctgatgggt	gaaactactc	34020
	aagtcacagc	atcttctaaa	gtataccac	tgttcctatt	tgctattttt	tgctttttgt	34080
20	gatacaaaaa	gaaggggtag	gaatttgcta	catgaccttg	ttccatgcat	atltgctaca	34140
	tgagtcacat	gtacacctgt	gacctcctgc	aagaatgcaa	tcagtaccag	agaaagaatt	34200
	tgccctcaa	cctcctccat	gagctgataa	agattcctga	gtcctactga	ctgcttgaat	34260
	tgtctaattg	ataagatgta	gagtcttttt	agtggactaa	ttggtatcct	gtcacatggt	34320
	aaagataccc	aaaaatatga	attgtcctaaa	tatactagaa	gtcatttagt	cattgaaggt	34380
25	ttaccacca	gaggccaaaa	tccattcaag	cgtcaaacia	ctgtgtctca	ctccttcaat	34440
	ttaccctga	tggaaaatgg	atcctgctga	tggttatctg	aggcaaactc	tatcatgact	34500
	ggttaataat	aatcatattt	cttcttggtg	tacctttacc	aaccaattaa	gcccttttct	34560
	gtcagcgaag	aaagctgaac	tgtgtctttc	atltgaacca	catagcccag	gaggtgcaaa	34620
	tcttctctc	tgtcactaga	ctctgagatc	tctaagtgat	atggacaatg	aagacctatg	34680
30	catgtgatct	ttccagtcaa	tctcaagagc	tagaatcaag	ttctgccata	cctagccact	34740
	ttgtgtcagt	atgaaaaagg	tgtttcttcc	atgtgaaagg	agcgctgttc	agggtgtatt	34800

ES 2 784 246 T3

	agttagaggg	aagagcccag	gctgggattg	ggcccactaa	gccccttatac	agggcagccc	34860
	attgcagtca	acacccgata	tggccataag	ctgcagctgt	ctgctaacag	ttggctccct	34920
	ttgttattgt	gctgttccag	agagggattt	gggaaagggc	agtaagagac	acaaactcag	34980
	atthcatct	tctcacaatc	ctctccaaca	tgtttacatt	gtttatagat	aatthtaatt	35040
5	aaaggggatt	acaatgcaga	taaagtaatt	ttatataccta	ttttgtaggg	ttgtattgta	35100
	ttggttccat	tttctgatgt	cattaaattt	caataaatgc	aatcttgca	tattttattg	35160
	tatgaataga	tattgatcat	aagacttatg	tgactagagc	tctgttttaa	agacttttat	35220
	ttccagtaat	ttttagctta	gtacataatg	ctctgataaa	cttttttatg	catacatttt	35280
	ggtctgcttt	tcagactact	ctctcattct	ttcattttgc	acatatatat	tttgtgtggt	35340
10	ttatgggaca	gaaactgtht	ctagcacttht	tgatacacca	ataatgaaga	attaaaagga	35400
	aatatgggac	tctagaaatc	taaataattt	aatgttcttht	acaaatattg	gcagatttgc	35460
	acctatgatt	ttaaagttag	agatggtctt	caagcactac	acattttgaa	gccttgagat	35520
	taatcactga	ttgttgagg	tgggatccca	agacctgtct	cttctttgct	ctacaataca	35580
	aaatattaga	agttacttht	aaaaaactat	tcgtcaaagg	aaggtagcaa	tatcagcttht	35640
15	attgagatca	aatgactgca	gagcacgatt	tccacctgag	atccacactg	ctggttctag	35700
	tttctcccca	ctgacaagaa	agacctthga	agaagcagct	gaagaagcta	ccagaaggca	35760
	cagatcctgg	taatattcct	gtgctagcca	gaagctcaga	aggcccaagc	ttcactcatc	35820
	cataaaacag	gcaacataac	agaagacgca	gcttgthtct	tacacagaaa	tcctatgcac	35880
	cctcaccagg	ttccaggatt	tatctcgtct	tttccagthca	aattatctat	agctcctthc	35940
20	agcttctctc	attcagagaa	agaataggcg	gcctatctthc	agaaggaatg	tgaggaggag	36000
	tatttaagaa	aagttagtcc	tttgagaaat	attgaaatgaa	agttataggg	agcaaatatgg	36060
	cttcccagaa	ggggtaaggc	aatagggctc	tgattctctgg	acacttacta	tctatctaac	36120
	cttgaaaaaa	ttactcaaat	tatcagaact	tagagagtga	gaaataagac	actcattthca	36180
	tagtgthtga	tgaattaaaa	gagataaatat	tgttgagtaa	ttttacctcc	ctacgaagtt	36240
25	gccaatthcat	tgacagagag	aaaactaaac	acacacacac	acaaaacaac	aacaaaaata	36300
	gthgtthtgat	acgthtacctc	attgaaatgtht	atagccatat	aggtcaatgg	ttaaattaga	36360
	gatgctthtgt	atatattctc	attactaaga	cagthttacta	gatctthtgg	ctcccatagt	36420
	cccaatatac	ataaatcagtht	cacacataat	tgtccacata	tgctccacat	tattacacta	36480
	acatgagcttht	gctthtthtta	tttgtatgtg	atattaacag	atthgtthtct	tacttgatag	36540
	gccttgaaga	tgactthttagtht	gthtgagthtca	gtacctgtgt	ctgtthtctacc	gtgcaactgaa	36600
	tgtthtactgac	ttgtacagaa	atcatgctca	aggtthtggtht	tccacactga	ttgtctctag	36660

ES 2 784 246 T3

	aagattaaaa	tatatataaa	tgacttatct	atatttacta	cttttattta	tggaaaaatt	36720
	aaattcttta	tagagtctta	tggaagcttg	ctctgataaa	atTTTTccat	aactgtcaaa	36780
	gtggaagta	tgacgagttc	aggattagat	tagaatccta	atggtattat	ggccaggaac	36840
	ccaaatattt	ctgaatcctt	cctgggatat	cacctTTTT	aaccatagga	taccagagag	36900
	agttgcaaaa	cagaaaaaaa	ataataatgg	cataagtagg	aatttggat	gtagtttatg	36960
	tgacagattc	tgtcaaaagg	ctaagtggac	gctcatgtct	tagcctaga	gcttcattga	37020
	tgctccaaa	tctcctatcc	caggatccta	aaatctggca	tgctgcaaga	aacaagacac	37080
	tgaaaaaggc	ttggagtcta	cagaaaaacc	ttatgaatcc	acacaactac	ttctgatgga	37140
5	aaataagaca	agacagagat	tcactaagcc	cacctgagtt	gtcaagcatc	acataccaaa	37200
	gaaaggcaga	aactggaagg	cacaaaaaag	actgtaaaaa	gcatttgggt	tctgactgta	37260
	agacattgag	acactcattt	gttaggagca	actcctcagc	tcttggcgag	cagtggggat	37320
	gaaagcccag	aaaggtagaa	gctcgctggt	ttgtggatag	ggttagaagt	gttaaccttt	37380
	ccctatattt	ccctctcctt	aggcaccttt	taagcgatta	gacttaaaaa	aaaaaagttc	37440
10	agtgaaaggg	caagcagaga	ggtgggacc	accttaggat	aggaaagaaa	tagtcaaagc	37500
	tgctctctcc	ctcctgctgt	aagctacttt	ctggggccct	ctttggcatc	ttggaagact	37560
	aagatgggta	agttgtttct	ctaagaatcc	acgaaataga	tcagaacttg	aagttaattc	37620
	caaagaggca	atgcacatta	ggatgaacaa	ctattcctct	tgaatttctc	aactcatggt	37680
	ataccttggt	atgtccttta	ccctagttta	ccagaagggc	acattaggag	tacatatatt	37740
15	ataaaaccat	gatacaatta	aatgacatg	gagtcaaaca	aggaaactgt	ctttcttcca	37800
	gagaaattac	atttcaaatt	gaaatttcag	aggtgacatg	aatggaaata	ttgtaaaagt	37860
	gatattgcta	tcgtcttttg	gccatcagtt	ttctgaatat	gccttcta	atttagatcc	37920
	ctggagtgaa	agaggggaag	tcttgggaac	tcaaactcca	ataaattaga	ggtcaattat	37980
	aaggccatat	aatgtttgg	tgcttaaaga	gcacctcact	aaaaaatgat	aggagcaggc	38040
20	cagatgtagt	gctcacgcct	gtaatcccag	cactttggga	gaccaaggca	ggcggatcac	38100
	ttgaggtcag	gagttcgaga	ccatcctggc	caatatggtg	aaactctgtc	tttactaaaa	38160
	atacaaaaat	tagctgagcc	tgttgatggg	tacctgtaat	cccagctact	tggggggctg	38220
	aggcaggaga	actgcttgaa	tctaggaggc	agaggttaca	gtgagccgag	atcgcatcac	38280
	tacactcctg	cccaacaacg	aagcaagact	ccatctcaaa	aacaaaacaa	aacaaaacaa	38340
25	aacaaaacaa	aacaaaaaat	ctggtgtaaa	atacctccaa	aaagctgctc	ctttataaag	38400
	gcaatgagta	cactggaaaa	gtagtaaata	aactttttca	gaactcaaac	taagcaaaag	38460
	cttgcaaaaca	aaaaaatgaa	gttcttattt	aaaaaatag	actgaatctc	agtaaaaggg	38520



ES 2 784 246 T3

	aactttgtga	tgttttacct	tatactattc	tcagttccct	ccctttcaga	occagaatag	38580
	ctgttacaga	ttgaattaag	tggttttccc	caccacaatt	catatgttaa	accctaattc	38640
	ttaatgat	tgtatttgaa	gatactgcct	ttgaggaggt	gactaaggct	aatgatgtc	38700
	ttaagtatag	ggcaccaatc	caatagaact	agtggctctt	taagaagaga	aagaggtagc	38760
5	agagctctct	cttcctctgt	gtgtacagag	aggaaaggcc	atgcaaggac	atagcaaaaa	38820
	ggcagccatc	tacaagccag	gaagagaggt	cttaccagaa	accatccctg	atgataactt	38880
	gatcttggac	tttttgtctc	cagaaccttg	agaaaataaa	tgcatgttgt	ttaagctatt	38940
	cagcctatgg	tactttttaa	tggaagcctg	aataaatgaa	tacagaagcc	tttaaaacca	39000
	acagacttat	aaggcagagt	tgtaagctgc	ctgcctcagt	attgaagtca	tacccaaca	39060
10	tggacacaaa	cactaccgtc	aaaggcagca	atgcttatta	atcctaaaca	tttaagaaaa	39120
	tctttggctg	gtcagcagtt	gaccactaag	ataactgggc	aaaaactttg	gtgaccatac	39180
	aaagaaaata	aaaaatttac	agaattcttt	cctgacaagc	aaacaataac	agcaacaagc	39240
	agcaacatca	aactcagtgt	ggggaatgga	aactgacttt	cagagtttcc	atattatatt	39300
	atthtaaatg	tccagttttc	aacacaaatt	atgaaatgta	cacattaaca	agaaagtgtg	39360
15	ccttatatga	ggaaaaaaaa	atcagtcaat	agtgtccctg	aagatcccag	acactggact	39420
	tgttagaag	catttaaatc	aactgtttta	aatatgttct	aagaactgaa	taaaaacaat	39480
	catttctaag	aaaatctagg	aaaatatgag	aacaatattg	caccaaataa	agaatatcag	39540
	taaattaata	taaataataa	aaaagaaacc	aatagaaatt	ctgtaatgtg	cagtaattga	39600
	aataaaaaact	tccccagagg	agctcaacac	agattagact	tagcagaaga	acaaataact	39660
20	aaatatgaag	atagatcagt	tgagattgtc	catgtgagga	acagaaagaa	aaacaagcaa	39720
	ataaacataa	acagagctag	acatctgtag	tacgccccca	atcacacaaa	catatgcatac	39780
	atgagagttt	cagaagagaa	aaaagaaaga	ggtagagaga	atatttgaaa	ataactgatg	39840
	tccctaattt	ttccaaacat	taatcttcac	agccaagaag	ctcaacaac	tctaagttgg	39900
	ataagttcaa	agagagactc	ttcaaagcag	caagggaaag	caattgataa	gataaccatta	39960
25	ataatattaa	tagacattct	cagaaacct	agaggcaaga	atagagtaga	atgacatggt	40020
	caaagagcta	aacaaaatta	atctcaatca	gtatttccat	atctcagcaa	aagtatccat	40080
	caaaaatgaa	aaaaaaaaatt	attatcagta	aacaaaaatt	gagataaact	gttgccagaa	40140
	aatgtattct	aaaggaaaca	ttaaagagaa	tccttcaggc	tgaaatgaaa	cactaaacag	40200
	taagttgaat	ccatgtgaca	aaataaataa	caccaatata	aataagtgca	caggtaaatg	40260
30	taaaatacag	tatcaatgta	ttttacattt	acaagtcatt	tttcccttct	atthttattht	40320

ES 2 784 246 T3

	caaaaaattg	tataaaagcaa	taattctaca	ttgtgtttat	aggcatatga	tgaataaaga	40380
	cacaacttgt	atgataatta	cagcacagag	aaggaggaag	aaaatgaagt	tatataagag	40440
	ccaggttttt	gtatatgaat	gaagtcagtg	ttcatctgaa	ctaaattggt	gcaaattaac	40500
	gtgttaattg	taatccccag	ggaaaccact	gaaaaaataa	caaaaataaa	cagtaaaata	40560
5	aattacaatt	tattggttag	agctacagag	aaaaaaaaaga	aatgatagtg	atattaaaat	40620
	actacagaga	caaatatcta	tttaacagaa	aagacagtaa	taaagaaaag	gaagaagaaa	40680
	aaataagaca	tttgacaaat	aaatatcaaa	ttggtatata	aaggagaatt	ttcagtaact	40740
	gtattaaata	aaaatggggt	aaataactcca	acaaaaggg	attgacaaaa	tattaaaca	40800
	aaaacaaacc	atagtccaca	acatgctgca	tacaaaatac	tttagattaa	aagatacaaa	40860
10	taggttaata	gtaaaaaat	ggagaaagat	atactaaacg	aacagtaacc	acagagctgg	40920
	aatggctatg	ttactcacag	acaaaacaga	ttttgggata	aacattacca	aatacaaaaga	40980
	acattatata	ttaaaaaagc	atcaatccat	cagaaatata	taacaattat	aaacatacat	41040
	gcccataaca	aaggggccga	aaatacactt	agcaaagcat	gacagaattg	aaggaataaa	41100
	tagacattca	acaataatac	ttggagagtt	gaattctcac	tttcagtaat	ggctagacag	41160
15	caggttagta	aatcaacaag	ggagaagaag	gtttgaaaaa	cattattaag	caattggacc	41220
	taacatacgt	ctacagaagc	ctccaactaa	caacagcaaa	tgatTTTTTc	tcagttgcac	41280
	attaatattc	tccatgatag	accttatggt	agaacacaaa	acaagtctta	ataaatttta	41340
	aataatttat	actacacaaa	tatattctcc	caccgtagtg	gaatataatt	actaattatt	41400
	aataaatgga	aaattggtaa	attgccaaac	atgcagaaat	ttaaaaatat	atTTTctaaat	41460
20	aaccattgtg	tcaaggaaga	aatcacaagg	ggaattagga	aattattgga	gatgaaaaac	41520
	acaacatata	atTTTatggt	ggcagctaaa	gctgtacata	gagaaacact	tataactaag	41580
	tatctataat	taatagtaac	tgaaatcaat	aacataattg	ttcacctttc	aaaactaaaa	41640
	aactagaaac	aacttaacaa	cccttgctaa	caaccttaag	caagcagaaa	gaagaaaata	41700
	ataagcgtat	gagagaaaaa	ggaatgaaat	agagaataga	aaaacaatgg	aaaaataaaa	41760
25	aaaccagaat	ttagttcttc	aaaaatataa	acaaaattga	taaatgttta	gctggggttag	41820
	attaagaaca	aaaagagatt	aaccatgtag	ctggatcaga	ttaagaacaa	gaagagatta	41880
	aagttaataa	aacttgact	aaaagaagga	atattactgc	tgattaggaa	aacaaaaatg	41940
	ataatatgac	atactataaa	taattatatg	cctactgatt	agataatgtg	tatgactga	42000
	aaagattcct	agaaaaacaa	accactaaaa	ttaaattatg	gaagaaaaac	atctgtatag	42060
30	actTTTaaaca	agaaaaatatg	tagaattagt	atTaaaaaaa	aacTTTcct	cgaagaaaag	42120
	cctggTccac	atgattttac	tgatgaattc	tatcaaattc	ttaaagaata	agcatcaata	42180

ES 2 784 246 T3

	atcttcaaac	tacttcaaaa	tatagaaaat	cttcttattt	tattctatga	ggctagtatt	42240
	atcctgacat	aaaaaccata	caaagtcac	acaataaaat	taaactatac	attagtatcc	42300
	cttttgaata	ctgacacaaa	cattctgaca	gaataacttg	aaactgaatc	cagcaacata	42360
	gaaaaaaagg	attatacaat	attaccaagt	tgggcttatg	ccaggaatgc	agggttggct	42420
5	cattctatga	aatcaatgc	aggtaatata	acatacaacc	aggctaagga	acaaaaacca	42480
	tatgattatt	tcaactgatg	cagaaaaagt	actcaacaaa	atctaact	cttatatgat	42540
	taaaatataa	aaataaaaaa	cactaaacaa	tctagagata	caagtaatgt	ctttaacatg	42600
	ttaaagggct	tttgtgagaa	gcccataatt	aatgtcaggc	ttcttgaaga	ctgagtcctt	42660
	ttcttcctaa	gatcaagaat	cagacaaaaga	tgctgcaat	gtctgctcct	gctatttcca	42720
10	ttaaatgttg	aagtgtatgc	tcaggccatg	acaattaggc	caaaaaata	aaaaagaaa	42780
	aagaaaaaaa	agagaggaga	ggagaggagg	ggggagggga	aaggaggacc	agggagggga	42840
	ggggaggtgg	ggagagggga	ggcagggga	ggagagagg	gaaaggaaga	gaggggaaag	42900
	gaaggaagaa	aggaaggaag	gaaaaggaag	gaagagggga	aggaaggaag	gggaaggaag	42960
	ggaaaaggaa	ggaaggggaa	ggaaggaaga	ggaaggaag	aagaaagaag	gaaagaaaga	43020
15	agaaaaggaa	aggaggaag	aagaaaaagg	aaggaagaaa	gaaggaagaa	aagaacgaag	43080
	aggaaggaag	agaaaggaag	gaaggaagag	gaagttaaag	aaaaagaaag	aaaggaagga	43140
	agaaagaaag	taagagaaag	taaaagtaag	aaagagaaag	gaaggaagaa	agaaagtaag	43200
	agaaagtaaa	agtaagaaag	agaaaggaag	gaagaaagg	aaaggaagaa	agaaaggaag	43260
	gaagaaagga	aggaagaag	aaggaaggaag	agaaagaaag	aaagagaaag	aaagaggaag	43320
20	gaaggaagga	agggagggaa	aggaagaaag	gaaagaaaaa	aagaaagaaa	aaaaggaag	43380
	aagggaagga	gagaaagaaa	ggaatgaaga	aggaacaaag	gaaagaaaga	aagagaaaga	43440
	aagaaagga	aggaagaaag	ggagggaaag	gaagaaagaa	agaaagaaag	aaaagaaaga	43500
	aagaaagga	aaggaagga	tggatggagg	gagggaggg	ggaaggaag	aaggaaagga	43560
	gggagggagg	gaaaggaaga	aaggaaggaag	gaaaggaaga	aagaagaaag	gaaggaagaa	43620
25	aagaaagaga	agaaaagaaa	agaaaaaaga	aaggaagaaa	ggaagagcgt	ccaaattaaa	43680
	aataacattt	aaaataatat	ctattttag	ggtacatgat	ttgcataaag	aaaatccaaa	43740
	ataacttaca	agagagctaa	caaattaatt	cagccagggt	gcaggataca	atatcaacgt	43800
	aaaaaaactt	aattgtgttt	ctacactatc	atgaaacatt	tgagaaatta	aggaaatgat	43860
	tacatttgca	gtagcagcca	aatagatccc	ttagtaaatt	gtgcttaggc	agctggatat	43920
30	tcacttgcaa	aagaattcag	ttggattttc	atctcacatt	atgtacaaaa	ataaacttaa	43980
	aattgactaa	aatatctaaa	cataaaagct	aaaactataa	acatctttaa	aaaacagaac	44040

ES 2 784 246 T3

	cgacccaaat	gtccatcaat	gatagactat	attaagaaaa	tgtggcacat	atacaccatg	44100
	gaatactatg	cagccataaa	aatgatgag	tgcatgtcct	ttgtagggac	atggatgaag	44160
	ctggaaacca	tcattctgag	caaactatca	caaagacaga	aaaccaaaaca	ccacatgttc	44220
	tcactcacag	gtgggaattg	aacaatgaga	acacttggac	gaaggttggg	gaacatcaca	44280
5	caccaggacc	tgtcatgggg	tgggggaagg	gggagggcta	atattaggag	aaatacctaa	44340
	tataaatgac	gagttaatgg	gtgcagcaca	ccaacatggc	acatgtatac	atatgtaaca	44400
	aatctgcatg	ttgtgcacat	gtaccctaga	gcttaaagta	ttaaaaaaag	aaggggggaa	44460
	aaattcatga	ccctgacttt	gacaaagttt	tcatagatat	gataccagaa	atacaaggaa	44520
	caaaagaaaa	aaaatagata	tgttgtgctt	catcaaaatt	taaaactttt	gtaaataaaa	44580
10	agtcattaac	aagagaataa	aaaggcaatt	caaaacatgg	gaaaatatat	ttgcaaatta	44640
	tatatctaata	aatggactag	catccagaat	ctataaagaa	atcttaggac	tcaacaaaaa	44700
	gagataaaca	accaaattaa	aaatggacaa	aggctagaat	gaatgttttt	caaaataaga	44760
	ggtaatgaat	gtcccacaaa	caaattaaat	gatgttcaac	atccttagtc	attagggaaa	44820
	tgcaaatagg	gaccacaata	aaatgccact	tcacacttgc	taggttgctc	agaatcaaaa	44880
15	caatgaaaat	ataatgcata	tgatcaagca	tgttgaaaag	tcaaaaccct	tgttccttgc	44940
	tggtagaat	gtaaaactgt	gcagccactc	tctctggata	acagtttggg	agttcctcaa	45000
	aagttcaaac	ataattttgc	tattaccag	caattccact	tctaggtaca	taccaaaaag	45060
	aatttaaaat	agttacggaa	atgcaattgc	atatattttc	atagcagcat	tattcacaat	45120
	ggataaacga	tgaaaatgcc	caaatgccca	tcaactgatg	aatgaataaa	atgtggtata	45180
20	ttcacacagt	ggaaagttat	ttagccataa	aatgaaggg	agtactgata	acgtgctata	45240
	acataaacaa	gccttgcaaa	aattgtgtta	actgaaagca	gacctacaca	aaatatgatt	45300
	ccacttgtat	gaaatgacca	gaataggcaa	atgtatagag	ataaagagca	agtagctaat	45360
	gtctgtggat	cggcagagtg	gcgagtgatt	gtttaataag	tgtgggtttc	gtttttggag	45420
	tgatgaaaga	gttttgaaac	aatgctgttg	agggtcacaa	aacattttga	atatactaaa	45480
25	aaaccctgaa	ttttacacct	tgaaatgtat	aatatataat	ttttttccca	atgagaagaa	45540
	ataaaaattt	gaaaacatca	acaaaaaatt	cctgactatt	gctaccaaca	atagcaataa	45600
	atthtcagct	ataaatttac	caaaagaaaa	tagaaacact	aaattagtag	aaagaaaaat	45660
	taaaatgagg	aaaacagtca	accaagttct	cttagtgctt	tgggaattacc	taggaaagta	45720
	aaggaaagag	atgcctaaat	tttaaccttg	tatgtggtta	cacttttctg	tcattggagt	45780
30	ttagatggca	ctggtaagta	aatcaattgg	gcatattgat	atgaactcca	aaatatttaa	45840
	agccaacttt	cgataaaagg	gtaaaatcag	agcattaata	cagatatgga	catttttaagg	45900

ES 2 784 246 T3

	gaacatgaat	attgatcaaa	atattaactg	aatatataag	taggggaaat	tgatTTTTgtt	45960
	acactgtgag	gagggTggac	aattgaatct	ccactggaca	aaacattgtc	tgtcagtgac	46020
	ctatgactta	tagcatataa	aggaactcaa	agacaatgaa	agtctagtat	caggtaacct	46080
	gaagtggTgt	cctctagacc	agataaattt	ttctattggg	acttctTTTT	ttctacacta	46140
5	ttctacaaca	tcaaatagaa	agtttagactt	ctttctaaaa	gagggTtcag	ccatttagagt	46200
	gacaaagtgc	ctatcacaaa	catttctagc	cccaggcctg	atcaggggcc	accaatgaca	46260
	ttcctaatac	taggtgtcag	aaagcctact	ccctaaccaa	tgaggggctg	acacatggag	46320
	atacaattgt	taagacagaa	ctggcatatt	gagaagcccg	gggcaactga	aaaatcaaag	46380
	tgggacaatt	ggagcaaaga	ccatattaga	gagaaggagc	catcagagtt	tctagaggag	46440
10	tggaaattaa	atctgcttct	acttcataag	agatgatctg	taagttccta	gtgagccaca	46500
	tggcctgcct	cctgaagaag	aatcattatg	cctagcactt	gagctcccag	gagggTTTTt	46560
	cttgctgcca	atctcaagca	aatgaagcca	ctatcctgga	tttggaaga	atggaagctc	46620
	acaaccctg	cagcaggatg	tgtagacatg	acagtgcaaa	ataatccgaa	gattggctgc	46680
	ctcttgaggg	atataaccat	ttctctgggt	aatgaacttc	tgatccagga	aaagtttctg	46740
15	atctctgggt	cctggagctt	tgggggaggc	ctcacagact	catccagtaa	gtactgtcaa	46800
	agagtttaaa	tatatgggct	tgcttctgac	tcctcacaat	tctagtcttc	tttaattgga	46860
	agtatctatg	agacatctgt	attagtccgt	tctcacactg	ctgtgaaaaa	atacaagaga	46920
	ctgggtaatt	tataaagaaa	agaggtttaa	ttgactcaca	gtttcacatg	tctagggagg	46980
	cctcacaaaa	ctttcaatca	tggTggaagg	cacctcttca	cagagtggca	ggagagagaa	47040
20	ttgcagagca	aagggggaaa	agccccttat	aaaaccatca	gatcttgtaa	gaactcactc	47100
	actttcatga	gaacagcata	agggaaccac	ctccatgatc	taatcacctc	ccacgaggtc	47160
	actcccgcaa	ctcttgggga	ttacaattca	agatgagatt	tgggtgggga	cacagccaaa	47220
	ccaacatcca	agcaaagata	tcccaaagag	atctggaggg	ttagaaggTg	gtggTcctgt	47280
	gaggtgttcg	aatcagtaat	gtcagaaaagg	aacagtttct	tatggTgaca	cttgaggaag	47340
25	tggccttagg	taggaatgtc	tggctgaggt	gtcaggataa	agaagaccac	ctcattggcc	47400
	ctgaggaagc	caaggtcttg	tgaggccagg	atgttggtctg	gaggcctctg	gggtgtgttg	47460
	aatttcctag	agtgatggta	gtaactgagg	tagaactgga	gatcttggtg	gacttgctaa	47520
	caactttatt	tagtatagag	aatatctaca	ggtaagaagg	tgttggcaat	ggggatgagg	47580
	tggagaaggc	agcatcgag	ttggcatgga	cttaaatggg	gcaggggTtt	ttacatgaag	47640
30	attgaagggt	gataagtgaa	acaaaaaaga	aatacataga	aaagaaagaa	aaggaattga	47700
	ttccaaatac	atattataac	atacgtgtta	cggactgaac	tgaactgggt	atactttggt	47760

ES 2 784 246 T3

	atggcaacct	tgctaactca	cacagattct	ggtatcaaaa	gggaggattc	tgctgtaaca	47820
	aataacccaaa	aatctagaag	tggctttgga	actgggtaga	gaaatccatc	tcatttggat	47880
	gtatgttaca	caaagcctaa	attgattgga	agagagtatt	gttaaaaata	tagatgctga	47940
	atgtgattcc	cgtgagtcct	cagaaaatta	gagagctgta	gagaaatcct	ctagcatctc	48000
5	ataaaaaatac	atgtacagtc	attaacaaaa	tgttgctaga	aatatgtatg	ctgaagggtgc	48060
	ttctggtgag	gtctcagagc	ttaggaatat	gtaattgaaa	actggaggaa	aggagattct	48120
	tcttacaagg	tggcaaggac	ttggctgaat	tgtattctag	tgttttgtgg	aaaatagatc	48180
	ttgtaggtga	tgatcttgaa	taattcactg	aggggatttc	taggcaaaaat	gttgaaggca	48240
	taacttgatt	tctcttcgct	tgataggtaa	aatgtaaaag	gagagataga	ttgaagaatt	48300
10	gtcagcaaaa	agataccaga	gcttgaagat	ttgagaaaat	ctcagcctat	caatattgca	48360
	gaaaataaga	aattgtgtcc	tgaaaaatat	caaggatagg	gctggataat	gatttgccaa	48420
	aaaaataatt	ataggtgtgt	gacttatgat	tccaatcagc	tgtctcagct	gaaaccatga	48480
	atggagatgg	ggatttatac	cagtagaagc	actgtcaggt	tgactgaagg	agagaaagat	48540
	gaaatgaaat	gaagcaaggc	tgttggactc	ctgggatttt	atagcatggg	ctaatacaga	48600
15	cacgtggttg	tgaacatatg	ctatctttca	tgaaaaagga	atggctgtga	aggcagttca	48660
	gaggttggtg	gggctgccac	tgtcaacgtg	gatcctcagc	tctgagagtt	ttggggtagt	48720
	gccaccacac	tgggtggccc	aaaaggcagc	gttaggacta	ggatgggctc	tgaggacaca	48780
	gcatggagtc	aaagaggatt	attctcaagc	ttcaaaaatcc	tatggaattt	tccttgctag	48840
	gtttcagact	tgcttgcaac	ctgttaccoc	tttattcttc	ccaattgctc	ccttttgcaa	48900
20	tgggaatggt	tacctcatgc	ctattgctct	aagatgaatt	ttgtctcccc	aaaatccata	48960
	catcaaaaacc	ctaaccacca	ggatctcgga	atgtgactgt	atgtggagat	aggactttta	49020
	aagaggttat	taagttaaaa	agacagttaa	gatgagccct	catccaatct	tactagtgtc	49080
	cctgtaagaa	caagaagcga	gccaggtgca	gtggctcatg	catgtaatcc	cagcactttg	49140
	ggaggccgag	gcaggcggat	cacaaggtca	ggagattgag	accaccctgg	ccaacagggt	49200
25	gaaaccccat	ctctaccgaa	aatgcaaaaa	ttagctgggt	gtgggtggtgc	gtgcctgtaa	49260
	tcccagctaa	tcaggaggct	aaggcaggag	aattgcttga	accagggagt	cagaggttgc	49320
	agtgagccga	gatggtgcca	ctgcactcta	gcctggtaac	acagcaagac	tctggcaaaa	49380
	aagaaaagaa	caagaagctt	ggagacacag	gaaggtacca	gagatgtgca	agctcagaga	49440
	aaagaccata	taagaacaca	acaagaaggc	ggccacctgc	aagccaaggc	aagaggcctc	49500
30	agaagaaacc	aaatctgcaa	aaacctcgat	cttggaacttc	tagcctcaag	aactaaaaaa	49560
	gaaaataaat	ttctgttatt	taatgttatt	taagtcacc	agtctgtggt	atthttgttat	49620

ES 2 784 246 T3

	ggtaccccta	gcaaactaat	acacctacca	ttctatttta	gaagtagata	actcatcaat	49680
	ttcacaggat	cacagctgga	gagcaatfff	gccccaggaa	tcatgactca	agtctcattc	49740
	atacctgatt	tagacagtat	ttatatgaga	ttttggactg	agatttgatg	ttgcaatgag	49800
	ttgacttttg	gggctgttgg	gatggtgtga	aagtattttg	tatatgagaa	gacaatgaat	49860
5	ttgcagagtg	gcaggggggtg	aagtattatg	gacagaattg	tgttctcctc	aaattcgtat	49920
	gctaaaattc	taaccccagt	accttagaat	gtgactgaat	ttggaaatag	ggattttaaa	49980
	gaggtaatta	agttaaaatg	gggctgtgtg	gacactaatc	caatattact	tgaatcctca	50040
	taagaagaag	agaatagaaa	cacacagaga	gaagaccatg	tatggagacc	agaaaaagat	50100
	ggctatctcc	aagccaagga	gagaggcctc	aggagaaaca	accctgctga	caccttcttc	50160
10	ttagactacc	agcctcctaa	atggtgagaa	aacaaatttc	tgttgtttag	gtcatccagt	50220
	cttcagtact	ctgttggtgc	agtttaagca	aatgagtaca	atgggtgaat	cttgaaaaca	50280
	ttatgctaaa	taaaagaagt	catatgcaa	agaccacata	ctatatgatt	ctgtttatat	50340
	aaaatgtcca	gaaaaggcaa	atccatagac	ttataaggca	aatcagtggg	tgtcagaggc	50400
	aagggagtga	gcacttagga	gtgagtgcta	atgggtatgg	ggttcctttc	caggatatga	50460
15	aaatactctg	gaattatata	ggggtgatgg	ttgcacaact	ctgtgaatgt	actaaacact	50520
	actgaattac	acacttacag	aaacaaattt	tatgatacaa	tgtatctcac	ataaaaaaat	50580
	gaaatcacag	aatttatagc	ttcaaagttc	acagagctta	aatacttctc	ctgacgactg	50640
	ctgcttggtt	aagcaagaag	cgttgcacc	ggtggcttga	tggggctga	gccattcccc	50700
	tttgcaataa	gaatagctcc	ttccatatct	ccaaagtaga	tctgaggcct	tgccacacag	50760
20	gtgttccact	tttctaaaat	tctagtgaat	caaaaagata	tataaacata	tcttaaaatt	50820
	ctcagcaagg	aaagtatfff	atccatagca	atatgtttcc	agaatccagt	ttacattact	50880
	tacatccata	ctgctgttac	aaacaaaaat	cagtaacaga	ttcttacaca	tttacataaa	50940
	gaaattagaa	ttgagagaat	tagaatggag	taagcaagtt	gagtctcttc	tgttcagcat	51000
	tttctcccac	aaggatgtct	ggcattccag	acaaattgtc	tggagaaact	gttaccttta	51060
25	actgagttgg	gataattctc	ccatccagtg	tcttttgttt	agctgaagga	ttttcctaac	51120
	cctatcagag	gccaagagc	aacttagccc	cttcctgctg	ctgcagacct	tccctagact	51180
	gggcattgat	ctttgccata	tgattgtccc	ctaaattgtg	aagaagggtg	aggcctttag	51240
	ccttgtgctg	tctctgtttt	tggaacatct	caatctacat	ctttagagga	ccagagagaa	51300
	gctgtgacca	ccctctcctc	catcgttttt	tttcttttgt	taattgttct	tattcctctg	51360
30	gttttatfff	atcttatcta	catcaccaat	gacataaaaa	gattctttca	atctcaaatg	51420
	ttcctgctac	aacaggatff	tgatttgatg	ctcctcagca	ctggctgaga	aaacacaatc	51480

ES 2 784 246 T3

	tg	cagc	ggcc	acatatattc	cccaaagctc	tgcccttttg	agttgaacc	caactttggc	51540
	ctctccatgt	gggactctgt	ctaaggaatg	aaaggttgct	ttggggagttc	aaggtctcca			51600
	aaagcatctc	tcctatcttc	ccccaaatth	tctattcaag	ccaagaccaa	gtcataatth			51660
	gctttgtcta	agattatgaa	cggaccttgt	cttaccaca	ggtcgattgt	ctttgataat			51720
5	aacactagtt	atagccacac	tggataactc	aaactatcaa	cataatatct	gccaaaacaa			51780
	tcatggtact	ttattggtat	ccatagagtt	tctttcctca	tgagatattc	agaaccgct			51840
	ggctagtagc	tgtgcaaaac	ttactctatt	cctgcttcta	cattctatga	acactccaaa			51900
	gtggacattg	ctaatacagat	tggctcctaga	tatggagacg	agataattag	aagagggatc			51960
	ccttcacttg	aggacagaag	ttcgagacta	gcctggccaa	catggtgaaa	ccctgtttct			52020
10	actaaaaata	caaaagttag	ctgggtgtgg	tgggtcacac	ttgtaatccc	gctacttggg			52080
	aggctgaggg	aggagtatca	cttgagctta	ggaacagcga	gccgagatcg	caccaccgca			52140
	ctccaacctg	gatgacagag	tgagacccca	tatcaaaatt	aaaaaaaaaa	aaaaaaaaaa			52200
	aaaaaaaaag	aagaagaggg	atctctgcat	tttaattgca	ttttaactta	ggctccctgg			52260
	ctcataatth	taaacttttc	atggaagact	taacaagttg	aaggtagcct	ttcttgggat			52320
15	tgtcacctaa	ctttctctth	ttctttatga	ttcctgtggc	ttggttgtaa	acggacttga			52380
	catccatatt	ggcactagct	gggcctctct	acagacacac	aggcagagtg	gcaggccctt			52440
	cttaggcgtg	gaatatgagc	cacagcaatt	cagcatttga	ccagagtact	gcatagagtt			52500
	ctgcagaatt	attaattatt	tagtgaacat	tttgctgtta	tttcttctga	taactttttt			52560
	taaaatthtg	gaagaatgta	tggataatca	taggttaaatt	ttgtggaaat	tattggctth			52620
20	cttactataa	catcattgta	atattccaca	aattaaggga	tttctactth	gtagttgcaa			52680
	tattctataa	gctattatta	gcaatthtg	cctggacaat	tttgaaaaac	aaaatgaaac			52740
	aaaaaaaaac	acttgaccaa	caatgagaat	tatagtaata	aagaactatg	tgaatatgta			52800
	tatatatgag	tgtgtctcta	tgaatthtaa	attaatthtg	gctaaagaaa	ccaacctgtg			52860
	caaaacttaa	gctctagcaa	tagcctcagc	cttaatath	aaaagacact	taacggaaat			52920
25	ttagcaaaaa	gctccagcca	ttgaggacaa	ttttatcaga	tgcccaaaat	gtggccttga			52980
	agcttatcta	aaacctgctc	aaaaaaaaatct	gatgaataag	gaatatggag	aactthcaac			53040
	tgggaagata	agacatgaag	ataaacatct	gtgacttaag	aaagacgcaa	tgtcagctac			53100
	tatggaagga	ccaaggaaa	tgacacccat	gtaaagaaaa	ggcaatthga	atgtgaagac			53160
	aatggggttg	tcatcacctc	atgtgaaagt	tagccaccta	ctagcaatga	tctggaagga			53220
30	acaaaaacaaa	tcatagtcaa	taaagtgtga	aagataaata	ttgtgttagt	aactatthgt			53280
	gctthtttct	cttgtcggtt	gtccaaggtg	tcttagcttc	aaattaggat	agcttatgac			53340



ES 2 784 246 T3

	aacatggtgg	cagattggag	taggggagga	tatgcccata	ccaggaggtc	tggagctgag	53400
	gattctgact	ttatcgaagg	gctaggcttc	aagatggaag	atcagtagtt	tttgtttgtt	53460
	tgttttgttt	gttttgtttt	gtttttttgt	tttgtttgt	tttgagacia	agtctcgctc	53520
	tgtaaccag	gttgcagtgc	agtggcacga	tctctgctca	ccgcaacctc	cacctccctg	53580
5	gttcaagtga	ttctcctgcc	tcaaccttct	gagtagctgg	gattaccagc	acacaccact	53640
	ccacctggct	aatttttttt	tttttcattt	ttagtagaga	agagtttcca	tcatgttggc	53700
	caggctggtc	ttggactccc	aacctcaggt	aatctgcctg	cctcagcctc	ccaaaatgct	53760
	aggattacgg	gtgtgagcca	ccacaccag	ccgatggcca	gtgggtttgt	aaacagtatt	53820
	attcaaatgc	agatagtaag	tttagttgtg	atttacaacc	atatgatata	taaggagggt	53880
10	caactctgta	ggatacccaa	aacaagagta	aactgaatgt	aacagtgttt	tgtataagtc	53940
	agggataggg	gtctctagtg	aaaagtacat	tccaagagca	tatagaagca	agtttcactc	54000
	atgtgaaaag	atgctttatt	aaaattaggt	aaagtgatgg	gtttccagtt	ataaagggta	54060
	gggttggcca	aatatccatt	ttcagtaaga	atctgaaacc	agtgggtatg	gagcaacgaa	54120
	aatctaaaag	tcaaaccaag	atacagagat	ttagccaaca	tggcaggggg	taatgaaaag	54180
15	acctacaatt	catggccag	tgtgatggtt	catgcctgta	gtcccagcat	cttgggagac	54240
	caagacgggc	agatcactag	aggctaggaa	ttcgagaaca	gcctgatcaa	catggtgaaa	54300
	cccatctcta	ctaaaaatac	aaaaattggc	tgggagtgg	ggcgcatgcc	cgtggttcca	54360
	gcaactggag	gctgaggtgg	gagaattggc	tgaacctggg	acctgggagg	cagaggttgc	54420
	agcaagctga	tgtggcactg	ctgtactcca	gcctgggctg	cagagagaga	cactgtcaaa	54480
20	aaaaaaaaaa	gacgaaaaag	acgtacaatt	attggatata	tgtgtatcca	gagtttacc	54540
	taactactgc	agatactaag	cctgctccat	agccaccag	caaattacaa	aactaatgag	54600
	tggagcaaga	cttgggagtt	gtagctgatc	ttacacagtg	cctttagtta	agtgcttcat	54660
	gttttctaga	tttctggtt	tccaagtta	cttgtcaaat	aagcttaaaa	atcatttacg	54720
	taatatttcc	atgtggatgg	atttataaag	catattatcc	tatagtaaat	aacaataaaa	54780
25	aaaacacttt	gcttctccca	attctattat	gatctgtttt	tgcccacaaa	acacttctga	54840
	caccaaagt	gtgggttttg	tctacaccaa	caaccagttc	ttcaactaac	tctccagaca	54900
	tcaagtgggt	gttcaacaat	tcagttcaat	tctgatgcta	actttagaac	ccagaggtga	54960
	agggtgcagt	cccacaagac	tgctcccact	tgacatgacc	actgcaggtc	ctggatttct	55020
	catacttctg	actgactggc	tataaattgg	gagttcccac	aaccccctcc	ttgggttcta	55080
30	taatttggtta	caacagttta	cagaactcag	cagaccagtt	tccttactac	tggtagttta	55140
	tttttataaa	ggatataact	cataaaacgc	cggaagagaa	acatagggtg	aggtatgagg	55200

ES 2 784 246 T3

	gttatgtgtg	aagcttccag	gccctctcca	gctgtgccac	ccaccacca	tctccatatg	55260
	gtcaccaaat	tggaagctct	gtgaactctg	ttttgggatt	ttattacagt	ttcattacat	55320
	aggcatgatt	gattaaatca	ttggctgttg	gtgattgatt	caatctctcc	tgcccctttt	55380
	ctgaccccag	aggttagggt	gaggttgaaa	gttccaacc	tctactcatg	tgcttggttc	55440
5	ttttggtcac	cagcccccaa	cttaaagcta	tgtagggccc	atggaaattc	actgccttag	55500
	cataaactca	ggtacagttg	aaagggtga	ctatggatat	caaaagatgt	ttctctcacc	55560
	gccaccactc	aggaggttac	aagaatttta	gaagcctttg	ccaggaacct	gggacaagga	55620
	ctaaatatgt	ttcttattat	attacaatat	cacatactta	atatattata	ccaaagcaat	55680
	gtattaatat	attgcaatgt	caatgcattt	tcattactta	agaaatgaat	ccttggaaaa	55740
10	gtactttgaa	agtcttgctt	taatccaata	catttgtctc	aggaccagag	atccagcaat	55800
	ctgatccaga	atatatccaa	ctctgaacat	ccttttccaa	aaagtattgt	tcactctatt	55860
	ttctgcgttg	ctgtctagtg	tctgtccttg	atccctttag	cctctactct	aagcattttc	55920
	tttcttagag	aaggagctgc	ccagactcac	ttatttctta	ctagcctttg	cacatactat	55980
	tcctcaccac	aagaatgcct	catacttcac	acactctccc	cacttaattt	gtgtgaagtc	56040
15	ctcctcctag	atattcctag	ctctcttttg	tttgtatttg	ttgagcacct	atthttgtgcc	56100
	aggttctagg	tgthttgggtt	acatctgtga	acaaaagttc	tggcgthaac	atctgtctca	56160
	ctagatcctg	atgthatacc	cgtctcatta	gattataaag	tatgcccttt	gcttacctag	56220
	ttctcatgth	taactctagc	tctgtaagaa	aagaatccat	ccaattaggt	gaaagtatta	56280
	ttctggaagc	ccagcatagt	ttttggcatg	tcttaatcat	tcagtaagtg	cttgatggaa	56340
20	tttaaaaaca	atcacattat	ttcttattca	tttttttctt	tgthttgctac	agthtgcath	56400
	atcaaaatcc	tathctgggaa	gctgtgtcta	acataatccaa	ataatttata	gtgcaaacct	56460
	caacagaagc	ttctacagth	ttgccaagth	ccccttggtc	atctctcagth	tttctaccaa	56520
	aaatgthttc	tgthtatctca	gaaatathth	ctagagthtag	gaagagthcca	gactgactca	56580
	ththgaattaa	gtcctccctt	gtccttggtt	ggcttctatg	actthtgagaa	acttactthaa	56640
25	caththttgag	ccttgctctc	ththatttgca	aaacaggaat	gactatggta	acctccagaa	56700
	thtatgctaac	agccaaagaa	ataggagthg	cgcatactc	gcacagthcgt	gtgtctgaca	56760
	tathagtagaa	gctctataaa	tgthtagthth	thccttctcc	caagagaggg	actthgcctth	56820
	tathggaaag	aththgggaaa	gctathatggg	aatgtcaaat	ththggtaaga	aththtaaatg	56880
	aagacathth	aagthgcaaa	thththathct	cccttagctg	agctthtcath	aththcaaagga	56940
30	ctgaaacagga	gthaaactgag	gthaaaggcat	caththaaaa	aathactgac	ththathctaca	57000
	gaggtctctth	cactthgctth	aggtctgthaa	ththaaagactth	tctgaaataag	cactthagthagth	57060

ES 2 784 246 T3

	ttaatcgagg	tataagagga	agaagatgaa	atgcagggaa	gatggagctt	ccagctttct	57120
	tcagaatgaa	agattactca	ctttagagaa	cagagtggagc	cttcaaaaac	tgcttacaat	57180
	gggaaaattt	taacatthtc	ttttaactac	acaagtaaca	tcaatgtgct	aattattcta	57240
	aaatgagctc	agaatthgct	gtatggttac	actthtatgaa	atacttgagc	tccattacac	57300
5	caagaaataa	aacgctgcaa	attcattthct	gttaattcat	gcataattga	agaaagggtt	57360
	ggtgtgaaga	ctctagaaca	tgcatattht	tgthtctthg	ttctcactgc	cattatagtt	57420
	gaaggthtac	aataacaaaa	aggggtaaat	acattggact	cataacttht	atgaactgth	57480
	taaatgcaca	atgaagtgga	ttcataaaaag	tctctaattg	tataagcaca	tcactaaata	57540
	tggattgtaa	aatatctthg	ttactthtth	tataaaccta	ctatagatga	aggaatattg	57600
10	caaacatagc	atgtatthtg	tgcaaatgg	agattggatc	tactthtthag	aaaagtggth	57660
	ccacatcatt	gaggccaatt	thtctthcaat	tcctthtthaa	ccaaaatcag	aaaaatcatt	57720
	ctggtaacat	cttggtaaa	ataaatgagg	gccatgtth	gctgaacttc	ttaattaaag	57780
	ctthtaagcta	aaccacatth	ataataatag	ctaaaagaga	ggtthtthgat	gtctthcatca	57840
	caaagaaaag	ataaatgtth	aaggcaatgg	atatgctgat	taccctgatt	tgagcattat	57900
15	ataatthata	tatgtattga	aacatcactt	tatactccat	aaatacgtac	aatgattaca	57960
	tatcaattat	aaatthtaga	cattthctgct	thgaaaatct	tgthaaaatg	thtthgatcaa	58020
	gccctgctg	cccctaggcc	ccacctthcta	gataaatata	acatactatt	atgattagat	58080
	cattatthgt	cttgctaggg	thtthgtgth	acattaagaa	agtcacaata	gctattatat	58140
	aatgatcagg	tagthtaggc	caaacatatt	tgtaattacc	tgthtctctg	tatgctctc	58200
20	caaccccacc	ccctaccttc	tagacagtga	tccaggaatc	aactthctthca	ggcatatatc	58260
	aggtactgga	ggcactcagg	actgtthcatg	aatgatttht	thtthtagthc	atthgtthgat	58320
	aaatacatgg	tgggagaaa	ttacagthaaa	catctccaat	cccctgcaaa	ctctthgtgg	58380
	cagcattaac	taaaaaagtc	tgagtcactc	agccattgta	acactgagga	gaaataagag	58440
	gaccgagthc	cacaccaggt	ctthcgagatc	taacctgagth	tgthtccagth	gctcaaacctg	58500
25	tgctacaacc	ccactgccc	aaacaggctc	actggctthg	atthgcaggaa	actaaaaaat	58560
	atacagggga	tgaggggthc	catggactthg	caccaacctc	tgaaaggtgg	gthtctgggt	58620
	ccagataaaag	gtaatthtthg	gthtthgctthc	aaatthgtht	thtagcaagth	ctthtggth	58680
	gtggaggtthg	tggthtagtht	ctctthtaatt	ggtgthtthct	ccacctcaat	gcctgatact	58740
	tgggattcta	tagaccaggg	gagactctgg	ggctthatag	ataacatcaa	thtthgagcat	58800
30	cagcctagcc	taatataatt	gggatgggtg	gggtthctthc	caattagcaa	ccacacagat	58860
	gactgaaatt	aaagthgtg	gthtagaaaag	tcatgcctag	agagthaaaa	ggaaagthca	58920

ES 2 784 246 T3

	ttagtTTTTg	tagaggcaaa	gggagaactg	cccattggtc	ctctgaaggt	tactgaaaa	58980
	tcaactgaca	aaaggcagat	tcataggagg	aaaggtatag	aaatgtacta	acacgcacaa	59040
	gggggaaatc	ccacagtgat	tacctcacta	cccaatgagg	tagaggtcct	tatatacct	59100
	cttcctagga	gaaagggaga	tggggaagta	tggatgattt	tgaggggta	gtaaattatc	59160
5	tttaggatta	tcaatggatt	tgaaaaacat	acaatggcct	gggacaaagt	ccggcgggcc	59220
	cacagaatag	tttgtgacaa	aagtctgccc	agctgcgttg	acaagcttca	gtttttcttc	59280
	ctgcgatatg	agattcagtt	aatgaaaact	caggggaagg	accagaagtc	actgtcacca	59340
	ccttttggtg	gtctggacct	taggcagatt	aggacacttt	agagaacgat	tttatcctgt	59400
	gctttggaag	agagaggtg	gagctgggga	gggtcacaga	gaccttgagc	ggcttcttca	59460
10	gttcagcaag	ttgaagcgcc	atattttggg	gtataggttt	ctgatcccca	atgccttctt	59520
	cactaaagct	gaatgctttg	gaggggaaca	tgttccagaa	gaaactgtgt	aagtttgga	59580
	gtcagacaaa	actagatcct	aatcctggta	taccattta	tcgactatat	aactttgaga	59640
	cagttactta	atcctgctca	acctcagttt	ctgttctgta	taatggggac	tcacacctca	59700
	cttgtgaagt	tgggataaag	aatattacac	atataatga	tatatattgaa	gtacctaaac	59760
15	cataagtttt	gtctttaaac	tctggctttt	tgcacatata	ggttgtctga	attcttgggtg	59820
	gaacttacag	aattatcatc	atctgaggtt	acagccatca	gaacttcaca	ataaactaaa	59880
	tatcattttt	ggaggaatta	tacataatta	aaatatttgt	agcctgcatc	atcagtggta	59940
	gttgccaaga	ctgtgagaga	tgaagatata	tatatatata	tcttcatctt	gtggcaccta	60000
	gaaccaacta	ataagcccct	agggagaatg	ctaaatggct	atgatttcct	catgccctgg	60060
20	agttatagct	gaggctaaat	tacagctgta	gaaaccgaaa	agctggaaac	agaagccatc	60120
	agcccagcat	gctcttcca	aggcactcgg	ttctggaagt	ctgaaggccc	tggagtggag	60180
	ctttaagcca	cacttgact	aagaaaagg	atataatttg	tgaatgccct	aaacattgaa	60240
	ggcttttatt	atctgaacgc	tttgattatt	tgaaggcttt	tattaaaatt	taaaaaacac	60300
	aattttcaac	taattaatgg	attagtttat	tttatcattc	agaaagcagt	ataaacctgt	60360
25	gtatataaaa	agtctcctta	aatttatcct	ccatgttttt	attggtttta	agcacataaa	60420
	tacataaaaag	tgcttacacg	gcatctctcc	ccttcaaaaa	tagattgcaa	tacttataca	60480
	atggtaaaaag	ttggatgtat	acctttccag	aaatgtatgt	aatggaatac	acagagagag	60540
	agagagagaa	agagagaaaag	acagagagag	agagagagag	agagagagag	agatcattct	60600
	acatatattg	ttctgtcatg	agttttgttt	cataatacat	gtggacaaat	taatacataa	60660
30	tggccttttc	attctgttta	ttgcttatat	aatattcttt	gcacagatgc	attatgaata	60720
	atntaaacat	tcttttctctg	atatacacgc	agacttgaca	tcgtttgta	ttttggctaa	60780

ES 2 784 246 T3

	gtccaactct	cctgcagtg	atattctttt	atgcctttgc	atgcattctg	gggaaagact	60840
	gtttgaagta	gttactaaa	gggtgtgtaca	aattgccgtc	caaaaatgca	tttttatcca	60900
	caatacatgt	cttctcattc	ttaccagctc	tagatgtttt	gttttgtttt	tgaacttgtc	60960
	agtctgaaaa	ttaaaaatgg	catttaattt	tactaatatt	tgtgtttttc	taattactag	61020
5	tgagcttgag	tatattta	atctttatgt	cgtggaaatg	aatttactgt	cgagtgagct	61080
	ttcctctgat	ccatgcccac	aatatgaaaa	ccagtttctc	tgattacaag	aaaacagagg	61140
	agtatgtgtg	tggcctgggtg	tgtgtgagtg	tgtgtgtgtg	tgtgcgtgtg	tgtaacacct	61200
	actgcagata	agcaaggcct	cgttggcatt	ttcattgtgt	ttgctctggg	tattcatttc	61260
	tgcaaaagca	cacctttttc	taaataaaac	taaattcatc	ataggtcttt	tatttcta	61320
10	ttggaaatat	tttagaattt	ctcaaagtat	cataaaataa	tttagaatt	attttagaat	61380
	ttctcataaa	taccattcaa	actcctaaag	aatatggaga	aagatatatt	ataaaacaag	61440
	aacttagaag	ctctacttta	gaggaatttt	taagcatgaa	atcatgtcta	gttccaatt	61500
	ctaaaaaata	gcccttgact	cagtcagccc	acagacatta	agcatttggt	acatgccaca	61560
	agtaggctgg	tatggagatt	cagaaacgaa	ggggatattc	tctaccttcc	tggagccctc	61620
15	caggggagga	ggaagtgaaa	agtagagata	agcataatac	agtgcctgaa	tgctataaat	61680
	attgagtgta	gtggcaacc	gaggaagggg	agtgtttggg	acctgctgcc	tgctttattg	61740
	tctcttgta	caggaggaaa	aataattttc	tctgtgaca	agagaataaa	acctcaggac	61800
	cttccaaatt	tactatgcca	agggggaaag	ttaaaccttg	aaaacgggct	tgcataacac	61860
	aactgttttt	cttctctgg	tcttgactac	tgcttactga	cctttgcggt	gagactttat	61920
20	accttgacca	gactccctgt	tcttcattca	aacctagact	agatgacatg	aagatagaga	61980
	cccttgtagc	tattaccctt	tatgacagaa	tgtaagcaa	gccttttaga	gtgtaatcaa	62040
	tagtagccaa	tcaaacttta	tatctgtatg	ttagcctttg	tacggaaaat	gttatagttc	62100
	agcccctcca	tttttgctta	tagaaacaat	cctcattttt	ccccacact	aggagcactg	62160
	atcactattc	ttggtgtaa	ttctgctccc	ttgtcagctg	ccctaccttt	gtgcttgagt	62220
25	aaactctttt	aaccggatgc	tgagcctttt	gactgtttta	tgttggcatt	cgctaccctt	62280
	catagttctt	agctgggaca	aatccctgta	acaaaagaaa	gattcacaag	agaaaaacia	62340
	acagaagttt	aataacatgt	atacttcatg	tgtacataga	agatatccag	ggaaaatgag	62400
	taaactctcaa	agaagtggct	taaatttagg	cttaaatgcc	atcttcagct	gaaatgataa	62460
	gagtatttgg	gtaaggagca	gttaatggga	agatgaccac	agaagcacag	gaagcaggat	62520
30	aagttttggt	atgcaggttg	gtccatgtct	tctctataga	tgagcgtttc	tagtgactga	62580
	gagtcacoc	tccttctctg	ctacggagaa	gaagacattc	ttacaaatgg	atgtttcctt	62640

ES 2 784 246 T3

	tatagatata	aattgctctt	gtgaaaggac	aacttctact	gttttcagag	cttcttttat	62700
	ctttgctggt	gcccaaatta	atcagttcaa	aataatcctt	atgctaaaga	ggcatatttt	62760
	ggggtggcat	attctggtct	cctacagtca	tattttgttg	tggtacatac	taaacaccac	62820
	tactccgtaa	cagctcatat	gctgaacacc	actatgcagc	aacagctcat	atattaaata	62880
5	ccactactcc	ataacagctg	taaaattctg	tctaaaaaga	aatctgcttt	ttgtgggtgc	62940
	atgtgtgcat	gcttgtatgt	gtgtgtttgc	atgtactaaa	catttattga	attcgcgtgat	63000
	ctacaaaatg	tatgaccaac	ttccatccag	aaattttaat	aagattgcac	cataccaaaa	63060
	gccagagaat	caggagatag	attacagact	atgctgtaat	tcaactacag	aatacagaag	63120
	tagaggggat	taataaaggc	taaagttgga	tgggtgtggt	ggctcatgac	tgtaatccca	63180
	gcactttggg	aggccaaggc	tgggtgatca	cctgagggtca	ggagttcaag	accagcctgg	63240
	ccaacatggc	gaaaatccat	ctctactaaa	aatacaaaaa	aattagccgg	gcctgggtgg	63300
10	gggtgcctgt	aatcccagct	acttgggagg	ctgaggcagg	agaatagctt	gaacctggga	63360
	ggcggagggt	gcagtgagcc	gagatcatgc	cattgcactc	cagcctggat	gacaagagat	63420
	aaacttcatc	tcaaaaaata	aataaataaa	taaataaagg	ctaaagtcc	acatttgcaa	63480
	tgagttgcta	caaccagcaa	aaaaattaag	gtttttttca	gatgctagca	gtcacagagg	63540
	tgaaggtgca	ggaatcagaa	tggagagatc	attaggagca	aagaaagcag	gcattaagat	63600
15	agaatgaatc	accaaagctg	ataacacttg	aagcccctga	tttcaatfff	aatgattcct	63660
	ggcatggttg	aaaatagttg	acatactggt	cctctattat	atftgtgttt	tcoctgctgcc	63720
	ttcactcttt	cagacagagg	gagtagagct	acaaatatta	aaagaaaaaa	atftttttgc	63780
	agtatfttaa	aaaaagctaa	gttaaaagtg	ctgaacattt	tgcaaaaact	tgtccttgtc	63840
	agttctggaa	actcaagggt	tccatgtaat	tcgagtaaac	aaagaacacc	tttactgac	63900
20	actftctftt	ftftftftft	ftftftftcct	gtctcactca	ttccagtaac	atfttggftcc	63960
	ttgcattcct	gaacatcttc	ctgggaacc	accgfttctt	cttattactg	gtctattgct	64020
	gtgctfttata	aaccctftaa	agaagctftt	aacactctga	agaactgaat	aatatatctc	64080
	agaggaaaag	tatagactaa	attgactact	gcaaatagtt	tgcacagaaa	agtaatgftt	64140
	ggaaaaatag	attggggtct	cagtattggg	gcatggaatg	fttggfttg	gagftttagag	64200
25	cttattgfaat	aggcctcagg	gatacacact	taaaaagtaa	tgctfttggftg	agattaatca	64260
	gatgtaaacc	tagagaatga	ctgtaggatg	gggataggag	aagatgctga	agacagacta	64320
	ttacaacaat	atgtgttata	gaaatattat	ataaactact	agaaatattg	cagaaactact	64380
	attgcagaaa	tatagaaatg	tgagfttgcaa	atftcatatft	gaaatattgt	cgaaagggaa	64440
	gattaagaac	acatgtagag	tcataattca	atcattaagc	ftftftatftg	acatttgftg	64500

ES 2 784 246 T3

	tgcatgattt	gagaagattc	aaagatgtat	caagcctggt	ttaccctgta	acagcttcta	64560
	taactaattg	aaacttttgt	ataaaattta	ttcaagcaca	acctgctgaa	gaaagctttc	64620
	tctgatacca	tgcaacattg	agagtgatgc	tcagcttgat	gctttcagaa	tcttggtggt	64680
	ttctatcatc	aagtgctctt	cacactgtaa	tcattgatctc	tttatatgta	tactatccac	64740
5	tttacacggt	gaggcccttg	aaggaaggaa	ctatgtctca	tttatgtagg	tacctcagag	64800
	aaagtagtgc	agtgccctgca	acagaggacg	aatcagcatt	agccaaagga	atgatggctg	64860
	caagtatggg	aagaaacaca	attctggtac	aaagtgttgt	caataccggt	gggtaaaaaa	64920
	agtattattg	cttgataaag	agctgggcaa	gtgttgghaa	accagaagaa	tggttaatttt	64980
	tctgtgaaga	aattgagttc	atttaattac	atgttgcatg	tgaagagata	tttgctgtct	65040
	ggcaaaaatg	taaagaagtc	aagtcaaaaag	cacagcacta	tcaaggacgg	aaagctctac	65100
	acagatttgg	agaaggaaaa	ttaagtgtta	gatttaaaga	aagaagaaag	ggcctaagga	65160
10	atgaggaat	aaaggagcag	cattaanaat	caaagagatt	aaaaatatgt	aggaagttga	65220
	atacaagata	aattggactg	taaaggtcag	tttgagaca	gagcaatcag	aggattctgg	65280
	agaccaattt	cttttctttt	cttttttttt	tttttgcgat	ggagtttcac	tcttgtcacc	65340
	cacactggag	tgcagtggtg	caatctcagc	tcactgcaac	ctccgcctcc	aggttcaagc	65400
	gtttctcctg	cctcagcctc	ctgagtagct	gggactacag	gtgcccgcca	ccaagccag	65460
15	ctaatgtttg	tgtttttagt	agaaatgggg	ttttaccctg	ttggcaagcc	tggtcttgaa	65520
	ctcctgacct	caggagatct	acctatctcg	gcttatcaaa	gtacagggat	tacaggcatg	65580
	agtcaactgcc	cccagcccca	gaggccaatt	tttacgcagt	gttgatctta	tggcattggg	65640
	cacacctgct	gctcaaaaag	atatagcaac	cagggcatgg	agcgtcaatg	tagcagtcta	65700
	gagagcagct	agggtttag	aagttgcttt	tcaaaggaca	gtcccagatg	gatttataga	65760
20	tgccattcag	ttattcatta	ttgcaacatt	ttttaatggt	tattggctaa	caccgtttga	65820
	gaaactgaat	tggttttaac	acatttttgc	taaataaatg	ctagatgctt	tgaacattac	65880
	acaagtaaga	tacatgctct	ataactctaa	ttctaagtaa	aacatgaaga	ttttaagggga	65940
	cagagaggac	cagttagaac	accatgaaaa	ggcatcagtt	gatttgatgc	tgaaagataa	66000
	ataacatcct	agcaaataga	atttggghaa	aggaattgtg	aaagagaaat	ctagacatca	66060
25	ggaaatgcag	gaatagacat	tttataccag	aaaatagtac	atgtgtctaa	gaaaatggta	66120
	ggagtctctg	ttagtaaaat	aataggacat	gtgcgtaacc	tccattaaaa	tgaagattct	66180
	attggtgaga	tactcacttc	ataccaagtg	aaaggccgat	gcagttcaag	gttgataaat	66240
	gtacataata	agtaagcagt	cattctgcac	acatttatga	aaatgccctt	agagaattta	66300
	tcctctccc	atagctcgtc	ctgtgctttt	cacactgagc	ctcaatttta	ttcacaaga	66360

ES 2 784 246 T3

	tcgtgataaa	aagcaactag	tggaactgaa	agtcattaaa	tctgaaaaca	gccttggacc	66420
	aggtagagaa	accaggagcc	agccaggctt	tccttctgct	taacaatgtg	actttggaga	66480
	tacttgataa	gagaattctg	agtatcaatt	tccccatag	ttaaaacagt	attgagctaa	66540
	atgatagctt	caattccttc	tggccctgaa	tagttgtaag	tttatttctg	ttttttgttc	66600
5	acatttgttt	aaagacacag	aaagaaagtg	catgatctgg	acaaagcagt	accttctgat	66660
	gatgttttct	ttccccaga	tgattcatat	aactacataa	tgggatattt	aaaaacaaat	66720
	agaccgggca	cggtggtca	cacctgtaat	tcctgaactt	tgggaggcca	aggtgtgtgg	66780
	atcacttgag	gtcaggagtt	tgagaccagc	ctggccaaca	tggtgaaacc	cctctcttac	66840
	taaaaaataca	aaaaaattgg	ccaagtgtga	tggcaggcac	ctgtaatctc	agctacttgg	66900
10	gagggtgaag	caggggaatc	tcttgaacc	aggaggcgga	ggttgacagt	agctgagatc	66960
	acaccactgc	actccagcct	gggtgacaga	gtgagactgc	gtctcaaac	aaaacaaaac	67020
	aaaataaaac	aaataaacca	tgataaaaac	aagtgacact	agcatcctat	aattctatag	67080
	attgagtaat	gacatagtaa	caaattcact	attgcagaac	tggggtggga	gttcactcc	67140
	ctgggcaaat	taaatccacc	caagtcatca	gaccttaaat	tttcatttta	aagtgagaaa	67200
15	atacacaaga	aatcatctaa	aaatataatt	acagggtgaa	ataaataagg	cagagtatgt	67260
	gtgtgtatgt	gtgtatttta	agttactctt	ttcagaataa	atggctttag	gaaattattt	67320
	ttgtggaatg	agtttctcta	ctatcaagga	gacttcctc	tactgtattc	aaatttaggt	67380
	aaaataatag	gtaaaagtgc	atattccagt	actaaactaa	taagcaatca	gaaggaaaaa	67440
	tagatttcag	ccgttatgcc	catagaatga	atgtgattgc	tgaagggtgt	atcttcagga	67500
20	tcctgttatt	gttacttttg	ctgaaataat	aggccagatt	ttattttata	aaagaaaact	67560
	atagattttt	cttctaagtt	cagacttgcc	agctagttct	actgttatta	ttctgaagtg	67620
	cataaagtcc	tcattaactg	atgccagctg	accggaagc	acgttgatag	atgccttctt	67680
	actgggtggg	aagttcactt	aacatctgta	cttgacagt	caggcgggtg	cttggcaggt	67740
	gacagcctgc	aatgggtgct	gtcatgctat	aagcaagcag	gctgcagagc	cagagtttag	67800
25	cttctgttta	gctctctttc	ccagcataat	gtgtgcaaaa	cacaagtgat	gaaattgatg	67860
	cacagcgctg	tgtgttccta	caccactgca	ttatatgaat	aaggaacatg	gaacaaaatg	67920
	gcaacattaa	gggtatgtca	gattatttct	cagaaatctg	ttcctttttc	ccctgcagtc	67980
	aaaccacacag	cattctatct	cagaaatgaa	tatagaggat	tctgttagat	tttgccttga	68040
	ggtttgatt	tgtcccaaag	agaaaaggag	acttatttag	aggactggtt	gtgcagagtt	68100
30	gaggacatta	gcctttctct	caggcattat	gagatgtcag	catgattctg	caactcggac	68160
	ttcacaatat	caagtgttcg	catatttctg	gaaaatgtga	aagtaggcag	ccagaaagtt	68220



ES 2 784 246 T3

	atttaaaata	tgaagaat	acgtgaaaat	ttttcttggg	tccaaatcca	ccaattgggt	68280
	aaaaggttta	cccaaactgt	gtgcatccag	atattccact	gacaaatatac	cattcattca	68340
	ctcatttata	cattcactgc	acaaatatct	attaaatacc	tggtacaaca	gaaaaattaa	68400
	gagaaagtcc	tgcttttatg	aagtttatat	tctagaagat	ccttgtgatt	ttagcatttt	68460
5	tataatttaa	acatttttca	tagatttgct	gatatgtttg	gctttgtggt	cccacccaaa	68520
	tctcatcttg	aattgtactc	ccatcattcc	catgtgttgt	ggaagggatc	tggtgggaga	68580
	taattgaatc	gtgggggtag	ttcccccat	actgttcatg	tgctagttaa	taagtctcag	68640
	gagatctgat	ggttttaaca	gggggttctg	cttttgcatac	ttcctcttct	ttctcttgc	68700
	gttgccatga	ttctgagaat	tcccagcca	tgtagaactg	taagttcaat	tgaacttctt	68760
10	tttctcccca	gtcttgagta	tgtctttatac	agcaatgtga	aaacagacta	atacagttgt	68820
	atacctacac	acacacatgc	acacacatgc	acacacgcaa	aggcacacct	acacgtagtg	68880
	tttcatcag	ctaggttctt	aataggaaga	aataacagaa	ataggaagca	ataaaaaaac	68940
	tgactgcagt	ttgtttaaac	taaaaaacaaa	ttgttgaaag	ggatttgagt	agttcataga	69000
	attgtagaga	atgctaggt	accaggttta	gatatgaggc	aggaatatag	aaccacagcc	69060
15	agtaaatact	acagagccag	caaggaaga	ctctgccatc	actgctgatg	aacaacaat	69120
	attgtagctt	caaccctgga	gactggatgt	tgccactgaa	aaccataagc	tcttgcatac	69180
	gggctttcaa	agttattgct	tccaatctgc	ctgtttctta	ggatcacaga	ctatgatgca	69240
	agtctcaggg	aggcaagttt	gattggttgg	gcctggctctg	agtgaaccaa	aagttgagtc	69300
	ttagtgaaat	acacactgca	tttgggtcaa	tgtcagcggg	tgtgaaaaag	gtagctacct	69360
20	gcaccctcat	cccatttta	ttgtatcttc	atgagacagg	acatgtttga	ttttacctct	69420
	gtcatctcag	tttctagcat	aacacaggcc	acatggaaca	tatttattaa	atgtaggaat	69480
	ggaatcattt	attaggtgtg	gtggtgaagg	tagctttata	ctcatgccac	acatttgc	69540
	tttttttatt	ttctctgagg	tttgagttag	ctcctaatac	tttacctagg	tttctaaagg	69600
	cttagactag	gatgagtctt	tgggtctcttc	cagatcatat	caggattcag	gggcctttga	69660
25	gctcctttga	gagataactg	agtgttgagt	ggactctgaa	aggaattttt	catccaggg	69720
	aagaagtcca	cagaggaaac	aaggcagaga	cagcagagct	gctgctgccg	gaggcctgaa	69780
	aactatcaac	tctttctgac	tctcctctga	gactgggcaa	caagtgtggg	tccacacat	69840
	tcttgtaact	gtttaggatg	ggttatgctg	ccctgaaaaa	ttcaccttga	gattcaggg	69900
	ggtctgcatg	ggaagaaaag	aatggtgcaa	tattagtgtc	ccatattcaa	ggaggcttag	69960
30	ttcttgaaag	gctcattatt	cagagcagac	atttaatacag	agggagttga	gtgttaagg	70020
	caaactcctt	gagatgagcc	actgtgagga	gactcttcta	cttttcaagc	taatttcatg	70080

ES 2 784 246 T3

	tgtgccataa	atcttgaaaa	gttaaaaaaga	gggcgggatt	tgctaggtag	tcaathtagc	70140
	aacatthttct	tacaacttta	agacatthttt	ttctthtacta	ttagagaact	atthtagaacc	70200
	thtaggactc	taattatcat	gcacacagct	tggaagaaat	taaccaacaa	agthtcagaaa	70260
	gcaaaaaagtt	tataagacat	aatthtaatgc	actthtatata	thtaaacagc	aacaatgaaa	70320
5	tgctatcctc	ctgtgatgta	aagthtctctc	ththccacctt	ctaaatataa	aaaaacgtgg	70380
	ctctcatata	caaatacaaa	cacacacatg	tgcacacgtg	aacacacatg	catacacatg	70440
	gacacacatg	tacctcacia	actatattaa	gaagaacaag	agaaaaaata	atccaatthta	70500
	tgthgthgctt	acaatgccag	actaaggagg	thgctththtact	thgcctthctaa	ththattaatc	70560
	acatagcaaa	gthtgacggta	atgtactaaa	atthactgthtt	ththththththgt	agaaatathagc	70620
10	thtagaatcaa	agagthtgca	tatgctthttc	aagccaatgc	agctaaataa	thgacagaatc	70680
	aatatthtgat	aatgaagggg	thggagcaaga	gagthtgaaata	aaagthctthta	ccaatthgtcc	70740
	ctthctgcagg	tacaccaaath	thtaacaacta	tctacattaa	aaaaaaathcc	acctthctcaa	70800
	gaccaaaaaat	cagatcagtg	thcacagthac	ctgathththaa	ctthcatatca	ctgaaagagg	70860
	cattgaagag	actaggaaaa	gcagthctthga	actgccaatg	thcatccctgc	cccathccctt	70920
15	ggcagaagth	gtataacatc	aaaaactaat	aatatththgtg	ctthgggagag	ggagagthgta	70980
	gthgaththgta	aactctgcat	thgacctcagth	gththgcctgth	catagthgaaa	agcaaaaththg	71040
	ggctgaathc	gccaathgcct	gthgtacagag	ggagcaththta	gathcagccat	aacgagathga	71100
	aaaththgcca	thctagaggt	cagaathththga	gththctggaaa	gcctcacath	aggagthgctaa	71160
	agthgctctgg	gthccctaaath	aaactthgaaa	ggcagthgthtag	gccacaagaa	ctgcaactca	71220
20	taggcaagth	ctagthcctga	gctgthgctct	aggccagthgg	gctthggggga	ctcgtgthcct	71280
	actgagathgc	caactggggc	agctaaagga	gtactthgthtc	catccctccc	ccagcctcag	71340
	gcagcacagc	thcacagctcc	aaaaagacc	ctthcctthcag	gagagthgagag	ggaagagthaa	71400
	agagaactthc	atctthgcatg	thggathgcca	gctthtagthcac	agthaggathag	gacathagggga	71460
	agagthtaata	ggcctccath	ccagthcccta	actcctthaat	gacaththctta	gacacaccct	71520
25	gggccaagaag	ggaaactgct	acctthaaag	gaagthgacca	gtactagaaa	gathccathcac	71580
	thtgathgathg	aagagccctth	gthgcccctgaa	thaacagcaa	caacacccag	thtagthgthgct	71640
	athgggcccctg	ggthaaagactc	thgagacathgc	thggctthcaga	thgagacathag	cataththctca	71700
	thctgthgathga	ctathgthgag	aaactcctthg	thcctthaaagaa	aagcagaggg	aaaagthaaag	71760
	agthgactthth	ctthgacccctth	agthgataagc	thcagccacag	thggggthaatg	caacaaathgg	71820
30	gctcctaggg	ththccaactc	cagaththththga	ctthththgthaca	gcatthactgg	acctggctgg	71880
	gthgagagggg	agcccactthc	ccthaaagggth	gagththccag	gctggcagca	thcactacia	71940

ES 2 784 246 T3

	tctgacggaa	gagcattaa	gccttaagtg	aacgtcagcg	atagcctggc	aatactctgc	72000
	atgggcctgt	ggtggtggtg	gccatgggat	gagccccctc	tgctgtgga	aagataaagg	72060
	aatagtgaaa	agagctgtgt	ctcatggttt	cagtgcagct	cagttgcagt	agaatagaac	72120
	accaggtagg	tttctaaagt	tcttaactct	agtctctggc	tgccagatga	aatctctgga	72180
5	tctcactcag	tgctggggg	aacttgtcag	cccaaagga	aagacagaac	cctggctggc	72240
	tttgtcacct	gctgactata	gagccctagg	gcatgagtg	aacattggca	atagcgaggt	72300
	agtggtaaca	gtgggctttg	ggcaagacc	agttctgtgc	tgccctctgg	tctgaccag	72360
	cacagtccca	ctggtggtag	ccacaggggt	gcttctgtca	ctttatcctc	agctccaggc	72420
	agcccagcag	agagaaggag	attccatttg	tttgggaaa	agtaagagaa	ccagtgtctc	72480
10	tgccaggtaa	tctagagaat	ttttccagat	tttatccaag	accaccaagg	tcttgggcaa	72540
	gaaccacagc	attactgggc	ttggagtgct	ccctaataca	gaaataactt	agatcacaac	72600
	atccaagact	ttttttttt	ttttttttt	ctatctggaa	agccttcca	agaagaacag	72660
	gtataataaa	gccagacat	tgaagactac	aatacctaac	tcttcagtga	tgagacacca	72720
	ataaacatac	ataagcataa	agaccatcta	ggaaaacaag	accttaccaa	atgaactaaa	72780
15	tgaggcatca	gcaaccaata	atggagaaag	acagatatgt	gacctttcag	atagaggatt	72840
	caaaatagtg	ttgacaaaac	taaaaataa	tcaggttaac	tcagagaaaa	aaattcagaa	72900
	ttccatcaga	tatatctagc	aaagagatta	aagttaatta	agaagaatta	agcagaaatt	72960
	ctggagctga	aaaattccaa	ttggcatact	gaagaatgca	tcagaatctc	ttaccagcag	73020
	aactaatcaa	gaaagaaaga	aagagagaaa	tggcgagcct	gaatgcaggt	aatttaaaca	73080
20	tacatacagg	agacaaaaga	aaaaagaata	aaacatgcta	caggatctag	aaaatagcct	73140
	caaattggca	aatctaagag	ttattggcct	tatagagaag	gtagagaaag	agagagaggt	73200
	agaaaattta	ttcaaagata	atatcagaca	atctccaaa	cctaaagacg	atatcaatat	73260
	ctaagtataa	gaaggttaca	gaacaccaag	cagacttact	ccaaagaaga	ctatctcaag	73320
	tcatttaata	atcaaaactcc	caaaggtcaa	gggtaaagaa	ataatcctaa	aagcatcaag	73380
25	aaaaaagaaa	caaataacat	acaatggagc	accaataaat	ctggcactag	acttttcagt	73440
	ttacacttta	caggccagaa	gagtgatgtg	acatatttaa	agtgctgaag	gaaaaaaaaac	73500
	tacacaaaac	ttttatccta	gagtagtata	tctggtaaaa	atattcttca	gatgtaaagg	73560
	agaaataaag	actttcccag	acaacaaaa	gctgagggat	ttcatcagca	ctagacatgt	73620
	cctacaagaa	atgctgaagg	gagtacttca	atcagaaaaa	aaaggacatt	attgagcaat	73680
30	aagaaacat	ctgaaggtac	aaaaaaacac	acaaaactt	gacttgtact	agtaagtgca	73740
	aagaagaaca	gaatgttata	actgttaact	atggtgtgta	aactaaattt	tottaagtaa	73800

ES 2 784 246 T3

	aaagactaaa	agatgaacga	gtcaagaata	acaacctttc	aagacacaga	cagtacaata	73860
	ggatataaat	cgaagcaaga	aaaagttaat	aagccaagca	acacagttaa	agtgtagagt	73920
	ttcaatattt	ttgtttgtgc	ttgttagttt	gtttatataa	tcagggttaa	gttgtcagct	73980
	taaaatgatt	agttatagaa	taatatttgc	aagccttttg	ttaacttcaa	atcaaataac	74040
5	atacaacaaa	tacacaaaaa	taaaaaccaa	taaatgaaat	cataccacca	gagaaaatta	74100
	tctttactaa	aaggaaggca	ggaaagaagg	aaaaagaag	gagaagacca	caaaacaacc	74160
	agaaaacaaa	taacaaaatg	gcaggaataa	gcccttactt	ttcagtaata	actttgaatg	74220
	taaatggact	aaactatcca	ttcaaaagtt	atagagtccc	tgaatggatt	aaaacaaaca	74280
	aacaacaaca	aaaaataaga	aaaaacaaga	ctgtatgatc	tgttgcttac	aagaacaca	74340
10	ttcacctga	agacatacat	agattacata	taaaagaata	gcgaaagata	ttccatgcca	74400
	atagaagcaa	aaaaaaaaaa	gtggaagtat	ctatactgat	atcagacaaa	atagatttca	74460
	agataaaaaac	tgtaagaaga	gataaagaag	tgttcattgt	tagtatatgg	aaatacaagt	74520
	agattttgtg	tgatgttttt	ataccctgaa	attttgctga	gttcatttat	tcattctaac	74580
	acatgtatgt	gtttgtgtgt	gtatgtgtgt	gtgcctgtgt	atgtgtgtct	gtacatgtaa	74640
15	ttttaggatt	gactgcgtat	aagatcatgt	catctctgaa	cacagggatga	atttttcttc	74700
	cctttttttc	tatttgaatg	cctttatttc	attttcttgc	ctaattttgc	aacaaggatt	74760
	cccagtactg	tgttgaatag	aagtagcaaa	aacaggcatc	cttgtcttgt	tcttgatctt	74820
	agaggaaagg	ctttcagtca	ttaattatat	tagctatgga	tgtttcatat	atggccttta	74880
	ttatgtggaa	atatattttt	ctattcctag	ctttttgaat	ttttattcat	gtaagaacat	74940
20	ttaattttgt	aaattttttt	ctgcatctat	tcagttgttc	acatagtatt	ttttcttcat	75000
	tctgttaatg	tgtataaatat	taattgatth	gcatatattg	aaacatcctt	gcatccaata	75060
	aataattccc	cttgattttg	agtgatthtt	aattttaata	tattgttgaa	attagtttgg	75120
	tagtatthttg	ttgagaatth	tacatccata	tttatacagc	atatgagtct	gtagctthttt	75180
	tatgttacag	tggtthttatt	tgthttgtth	ttgaatcagg	ctgatactgg	accagaata	75240
25	agttaggagg	tgthcctgct	tcaatathtt	ggaggathtt	cagaagaatt	gatgttaact	75300
	ctaatgatt	ggtagaatth	atcagtaaag	tcathcttgc	caagatgtht	ctthattaag	75360
	aggtattgat	tactgactaa	atctgcttac	tagctatagg	thtathhaga	thttctathh	75420
	ctthataatt	cagccttggaa	aggttgatta	thtathhggaa	atthcctggg	tcathctagg	75480
	tatccaatth	gtthgtgtgt	taccathcat	agcathhctt	tacaathcct	thtathhgtta	75540
30	taaaatcagt	ataatgthtt	cactthctgta	tctgathhth	gthtathhth	tctthhctcat	75600
	agthcaatth	gataactthta	ttaathhthgt	tgathhthth	gaagaathcag	thtathhthth	75660

# ES 2 784 246 T3

	tgtaacttt	ttaattgttt	ttctattttg	ttacctctg	ttctaactctt	tattatttcc	75720
	tttcttctgc	taattttaca	tttagatttg	tcttcttctt	aaagtgcaaa	gttaagttgc	75780
	tgatttgata	tctttctctt	tcaattaaag	tgttttagg	tatgatttgt	tatattagca	75840
	ttactttcac	tgcaactcgg	aagttttagt	aaattgcgtt	gtaattttta	tgaagatatt	75900
5	ttctaatttt	tctgtaattt	ttttatttta	ttgcatgtct	aaggggtgtga	tgcttaattt	75960
	cctcattggt	gtgaattttc	cagttttcct	tttgatattg	attttgagtt	tcactccatt	76020
	gtgattgaaa	aatatacttt	atatgatttt	aatcttttaa	aatttattga	cttgtttttt	76080
	tgctaacaat	gatctactct	ggcaaatggt	gcatgtgccc	taaagaaaa	tatgtattcc	76140
	attggtgttg	ggttgaaaat	tcagtgtgtg	tcttttgggt	ataattggtc	tatacttatt	76200
10	gttcaataga	aatttcttat	tgatcttctg	ttaggttgc	atatccgtta	ttgatagtga	76260
	ggtattgcaa	tctctatttt	tgtagtgcta	ttccctctt	caattctgtc	agtgttgttt	76320
	tatatatttt	ggagctctga	tatttgggtc	atatatgttt	ataattatta	tatctccttg	76380
	gtgaattgac	catttatcat	tatatgatgt	tttctttaac	tcttgccaca	gtttttgact	76440
	taaaatctat	tttttatatt	attagtgtag	tcactctgcc	cttttttgggt	tactgtttgc	76500
15	aagtaatatc	tttttccatt	ctttcacctt	caaattttgt	atgtccttcc	atgtaaagtt	76560
	attctatagt	tggatcatgt	tttattatac	attttctcaa	actatgtttt	ttgatcagag	76620
	aagttaatct	atgtaaaact	aaaatgacat	ttatagggaa	ggagttactc	ttccattttg	76680
	ttttttgttt	tctccttgtc	ttgaatgggt	tataagaatc	cattgtcttc	ttcttaatca	76740
	tcttctattg	tagttaatta	attttttagt	ggactgtttt	gattcccttt	tcatttctct	76800
20	ttacaaatat	tctacagatt	ttattttttg	ttacatgga	gattacttat	aacattagga	76860
	agttataaca	atctaaggtg	ataccaagtt	aaatttagtt	acatacaaaa	actccccacc	76920
	cttacagccc	cccctatttg	aggttattga	tgtcacaat	tacatcatta	gttattatgt	76980
	actcaattaa	tatagattta	taataatatt	tattcattag	ccttaaaaat	gctgtaagaa	77040
	ataaaacctg	aagttaccaa	ccaaaatgaa	aaaaataaac	cttgttttta	tatttgccca	77100
25	tatctttatc	aaagatttat	atgtcatcat	acatttttga	gttactgcct	atcatctttt	77160
	cattttgacc	taatttat	catttaacat	ttcacatagg	gttggcttag	tgataattaa	77220
	ctctctcaga	tcttatctgg	gaatgtctaa	tttctcccac	aaacctgtct	gaaggacagt	77280
	tttgttgcat	acaagtcttt	cttgacaatt	ttaatacaag	atccctctgc	cttctgacct	77340
	gcatgatttc	tgctgagaaa	tctgcttatt	atctcattat	ggatttcttg	tatataatga	77400
30	cacttcattt	ttattttctt	tttgtgtgcc	tgtgtgtgtg	tggacttttt	ttttgtctgt	77460
	tgacaaaatt	ctctttgtct	tcagattttt	aactgtttga	ttataatttt	tttaatgtga	77520

ES 2 784 246 T3

	gtcttcttac	at ttatttcta	tatgatgtct	gttgagcctc	ttaaatttgt	agattcatgt	77580
	attccatcaa	at tttgtaag	ctttccataa	ttatttcttt	agataatctg	tcttctcttt	77640
	ctctctccct	tcttctgtga	ttttcataat	acagacatgt	ttgtcccaca	agttccttaa	77700
	gttcctctgt	tcaacttttct	tcacttgtcc	cataacactt	gatgggtgcc	cattagttcc	77760
5	ttaggatctg	ttcaacttttc	ttcattcctt	tttttttctg	tttgctcctt	aaatttgatt	77820
	at t tcaaatg	tcttttcttc	aagtttgctg	attctttttt	atgcctgttc	aagtatgctg	77880
	ttggactcct	ttagtgagtt	tttcaattgt	cattctat tt	ttcagctcca	gaattttcag	77940
	tcagttcctt	tttacaatat	tatctttgtt	gatacaatca	ttttgttcat	gtatcatttt	78000
	tctatcttcc	tttat ttatt	tttctgtgtt	ttcttttagc	ttttagaaca	tatgtaaaca	78060
10	gttgctttaa	aatat ttttc	tagtacacct	gatgcctatg	tttcttcagg	aaatacttgt	78120
	actagttttt	ttcatttgaa	taggccatga	ttttat ttt	ttctttgtat	tccttcttcc	78180
	tttttttgaa	aattcatcat	ttgaataaaa	agttacttct	tctggctctg	gcagagtgat	78240
	attgtgtgga	aaatacctcg	ctaattagta	gggcatgcc	aaacaattca	ttttgcctgg	78300
	actatatgtg	tgcttttttc	aattccttta	tatacatggc	tat ttttaaa	tgtctttatt	78360
15	tgacagagag	tttcatctca	gcctatccat	ggggatttag	gtgatctatt	atgtgtcttc	78420
	atctgtat tt	tcttatgcca	gagctctgcag	gtcagtagtc	cctggctgtt	ttcatgcgca	78480
	atgcctgtta	ctgttttcca	tagcttttcc	caggctgaga	tctgagctat	gtcacttttc	78540
	ccatacagc	cttttctcca	aacaagtata	tatatagaaa	aacttctggg	ctttat tttct	78600
	tttcttataa	ggacaacaat	tctgttgaat	taggggtccac	tcttatgact	caattaactt	78660
20	caattacctc	cttacaatgctc	ctat tttccaa	atacagtcac	acagggtttt	agggcttcaa	78720
	catatgaatt	tgggtgaggg	ggttccaatt	cagtccatag	cagacaaaac	aattgcatgt	78780
	tgggtgattaa	tatttgtttg	ctttttat tt	at t tttttt	at t tttttgtg	gttgctgggt	78840
	ttactttttc	ttaatatgctc	attat tttcc	tttca t tctt	gaaaggctat	tttaccaggc	78900
	ataccattct	aagttggcaa	ttat tttctc	ctctccctct	gataatattt	gttccactct	78960
25	ctcctgaccc	ttttgggtgct	attgataagt	ttactgtttc	tctaaataat	gcttcttata	79020
	ttcttactta	aaaaaatcaa	tttgcttttg	gtgttctgta	ttttcaccga	aatgtgtcag	79080
	gataat tttt	tgtctattca	tagtatttag	agtatgctat	gctttctgaa	tcataagagt	79140
	tctttccttt	ataat tttctg	gaaaattctc	agtgatcatt	ttattagttt	ggttccattc	79200
	tctctaagtt	cctatgttct	ctttctcttt	atgttctgca	tcaggaaacc	tgagtcaatg	79260
30	cacgttagac	cttctgaatt	tat ttttccat	ttatctcatt	tttactttta	ctcctctttc	79320
	tctgagttct	gcattttcatt	aact tttttcc	tatat ttttta	gtttactaat	tctccgttca	79380

# ES 2 784 246 T3

	actatgttta	atccgttctt	taatataattt	attggggtttt	tgatataaaag	ggagatatttt	79440
	ttaatgtctg	taaactctgt	ttgattctttt	aaaaaataaaa	catgggtcatt	gtatagctgc	79500
	tttcccttct	tatgctttca	attctctgtt	ttgttccttt	acccttttcc	catatgcccc	79560
	aagaataactt	tctagcagta	cttgccggctg	cagcatttac	cctgagataa	ctttgccaca	79620
5	aaatatcttg	cttttattat	taatttttgc	accactctag	tatacccact	ttggaaacaa	79680
	atgatatcat	tctatttata	gcattctatt	tttagtagtg	gttacttgta	tttatgaaat	79740
	atagtaattc	tccatcgctg	aattaataaa	tccattttct	tctaaatata	tgattgacga	79800
	ttcagatgat	tctgatgtta	gttctgttta	gaaataactc	aaacaatagc	tttatatttt	79860
	attttcacat	taaaaatcag	atgtgcttca	gcctcaaaga	gtgtgtttat	ataaaattaa	79920
10	atgagcattg	acagtgagct	gccttttttt	ttctaaataa	gaaaagggtt	aaacacataa	79980
	agtgtatttt	ctgtgtgtgc	tattttcaat	acctgaagtc	tttggagtc	taattctgtt	80040
	gttttttaat	ttctgctgac	tctccctaata	aatggcttat	tttcatgcaa	attttgaaag	80100
	atgggggaaa	accaattaa	tgtgaagctc	tgtttaaaaa	atgtgaagga	ctgaggttat	80160
	ggattttttg	aggagaatat	tttttcctct	ctaccacttt	gggtgctgta	atctactctc	80220
15	tcatatctgt	tctaacttac	ctcccacctt	ggagatgcct	gatgccttct	ctcctgtact	80280
	gttaaatctc	aatactctgg	atcacctgga	atcattgggt	ctcagtgcac	ctgctagctc	80340
	cagagtgtac	tgttcaacct	tcaggcttct	gctagtgaac	tgaattcttt	atttaaaaaa	80400
	tcatatttta	tctttttttt	tttttttttt	tttttgagaa	ggggtcttgc	tctgtcaccc	80460
	aggctggagt	gtagtgggtg	gctctcggct	cactgcaacc	tctgcctcct	gggttaaagc	80520
20	aattcccctg	cctcagcctc	ccgagtagct	gggattacag	gcgtgcgcca	accatgcctg	80580
	gctaattttt	ttgtattttt	agtagcggca	gggttttacc	gtgttagcca	ggatgggtgc	80640
	gatctcctga	ccttgtgatc	caccgcatt	ggcctcccaa	agtgctggga	ttacaggegt	80700
	gaaccaccgc	gcccggccat	cacatattat	cttgtatttt	gtagtttttag	ctactttttt	80760
	ttttcttttt	tcaagcttcc	tgtttcttta	tgagaaagga	aatggtaaat	aatcacttaa	80820
25	ttttgaagct	ctttatgtga	gtacgtgact	gtgtgggaaa	ataaaagaga	cattaagcca	80880
	agtgaattca	ggaaaagctt	caaaccaat	agaagggaaa	atatatggga	gaaaaatata	80940
	tatttttttc	tttttttttt	tttttttttt	tttttgaga	cggagtctcg	ctctgtcgcc	81000
	caggctggag	tgcaagtggc	ggatctcggc	tactgcaag	ctccgcctcc	cgggttcacg	81060
	ccattctcct	gcctcagcct	ccaagtagc	tgggactaca	ggcgcctgcc	actacgcccg	81120
30	gctaattttt	tgtattttta	gtagagacgg	ggtttcacca	ttttagccgg	gatgggtctg	81180
	atctcctgac	ctcgtgatcc	gcccgcctcg	gcctcccaaa	gtgctgggat	tacagggctg	81240

ES 2 784 246 T3

	agccaccg	cctggcctat	atTTTTcaat	ccaacagata	acagaaaaga	aataaaaaga	81300
	agaagtctgg	caactaggaa	aaaaaatgat	atggTTTTcat	caaactact	atatcagtac	81360
	tctaattcag	aaggTTTTaaa	gtaatctatt	aaacgatttt	tcaaaaatgg	attacatatt	81420
	TTTgaaatcc	aactTTtattc	tccttataag	acatgagtat	tgaccctatg	TTTTacaata	81480
5	tctaaaactg	tatagtaagt	accgTTtctct	accttagcat	atatcaactc	tcattgaaac	81540
	TTTaccatgt	caccattatg	catagtctct	ttagtgtaa	actTTTTtag	tctagaaaa	81600
	ttatTTTTaa	aaatagatta	tctctatctt	ctttcttacc	aacctcct	ctgggTtaa	81660
	TTTgcttctt	tctaattTTTT	ttcatactc	atactTTtag	ttataaagtc	tgtaagttca	81720
	acttagtgg	ttatatctaa	agTTTTtatt	ttggctttac	aattgcatga	ttgTTTgcct	81780
10	tgatgtataa	ttccagattg	acaattatct	tcctaagca	ctttcattct	attattccat	81840
	TTTTgtctgg	catttattat	tggtgatgaa	acatctgctt	gtcttgataa	taagacattc	81900
	taattgccat	ttgctagtaa	gtaacctgtt	TTTTtgcttt	agaacgttac	atTTTTtatg	81960
	ttcttcagtt	ttattactat	atgTTtactg	tagatttatt	tgatttatc	ctTTTTaata	82020
	TTtaatatct	tttcaatctg	aaaacctg	ttcttataaa	ttatagaaag	ttcgcatcaa	82080
15	aaacctTTtc	gaatgTTTT	TTTTTTTT	tttattctct	tctttatcta	ctttgggaat	82140
	tcttatgaag	tgaataccaa	agcctcttaa	tctatctttc	atgTTTTaaa	atTTctttca	82200
	cattttcctc	atcctTTtag	ctttctgtat	agtggtcagc	agtgtattct	aaaactgtat	82260
	taatatactg	tagatgttac	atTTTTgaag	actTTtgTTT	caatggcat	gTTTccctac	82320
	tccagatTTT	tattggaatg	gctctctttc	tatattctgg	ttacttctca	tgagcaaaa	82380
20	agctatcttt	tcttaccacc	TTTTctgata	aatatgTTT	acttatctct	catttctttt	82440
	ttatTTTTtg	cttcatttct	tctcataact	catattactt	cctgaaatgt	ttgttcttaa	82500
	tttctttctt	tccccactcc	ttctccctct	ctttttcttc	ccttcaactct	tgattttctc	82560
	cctcaactaca	agtcagtagt	gacttctgtg	TTTTgttcat	gTTTctttct	agcacctata	82620
	atagcgctg	ctacatagta	atgttcaata	aatacttgac	gaatggatga	ttctctttaa	82680
25	TTTTctttct	cttgatacaa	atctatTTTT	gTTTTtaa	tcgTTtggt	aaaatattgt	82740
	taatttcttt	aactTTtgag	agtctTTaaa	catgcagtta	ttcctttctg	attctTTtg	82800
	tagttaaatt	aatTTTTga	ctgTTtacet	tagTTtgctc	TTTTacttag	cctactttaa	82860
	tctaggggat	ttgggatTTc	agcctgcatg	ttcccttga	ggaccgta	tcttttctcc	82920
	catgttccct	ttgtgttctg	ctcccttTgt	gcgtattgg	ttaatgattg	catctacca	82980
30	gacacattcc	aaaatcaggt	ttccaagtgg	cacagaatgg	acagaatagc	TTTTgtcctc	83040
	agtgctatca	gagcttactc	actgatcctg	ggggTgcttt	ggcaaggtcc	tgattatcag	83100



ES 2 784 246 T3

gctgtctctg gtcactccca ccacacctag cgtataggct gacataaagc aaaaccctga 83160  
 cagtggtcac tattttcttg accactttta catagggtgag aaatctattc tagcccctct 83220  
 ttaggcctgg ttgtattctc ctattctcct ttattcatgg gaagactttt tttctttttt 83280  
 cttttctttc tttctttttt tttctttttt tcttttgcct ccgttgtact aagataaact 83340  
 5 cccagttacc tctacctatt ttgggacctg gaatgcagaa ttgtcagttt gtgtcttcag 83400  
 cacacttact gatttgcatt ttaaaagtag ctaagtctta caattcaaaa aaaatgatta 83460  
 tcaaagtcgt gcttagaaca gaagggttgg gaggaaattt aatgcaagaa cttgactaag 83520  
 tttttaaaat gttaaata atacaaatat agaagagtgc ataaaataag tacacaaatt 83580  
 agcaagttgt tataatgtaa acaccatggt aaaaataatc caaatcaaga gatttaccag 83640  
 10 cacccaaagt tcctctcatg ctcttctgt ttttataact acggtttgtc tctattgctg 83700  
 tgtaatagtc cattctacca gagatcagca aaccatggcc tgggagtcaa gttcagctca 83760  
 ccacatgttt ttgaaaacaa agtcttgta ggacacagac ataatttttt atttaaaaat 83820  
 tatttatagc tttttttttt ttttgctaaa atgaccaagt tgagtacttg tgacagaaaa 83880  
 catacggctc agaaagccaa aagtatttat tatctagtcc tttcagaaaa aaaattgtca 83940  
 ctctcctctt tatatgatta tatggtaata ttttatccat tctaagtgtg ttaaagatgc 84000  
 agattattat taacttctga tagttcatta aatgctacta aaataattca tcttcacttc 84060  
 tcttgatca catatctgtg tctctgtagc ggtatattta ggaaaggaat gactggggtt 84120  
 ttggtacact taccatcaat attatgagac aacgcaaaca gttttccaaa gtcacatata 84180  
 15 catatataca tatatatatg tattgcattt ccactatgag tgtgttagag tgaactttat 84240  
 tctacatcct tggtaacact tgatattatt gaatctttta attttagcca ttttgatgag 84300  
 tgtgtagttt taatttcatt ttccggttg ctaatgagat tggttatttt tttatatggt 84360  
 tattggccat ttagacattc tgttttgtaa gtccatattc aaattgtgtg tttgcttttc 84420  
 atctaggttc cccttttact tctaaatttt gagagtacaa attacctgat agtgtgtcaa 84480  
 20 atttttcccc actgctatat aacgtcatat ttgtaaacaa acaaacaaac acctcaacaa 84540  
 atacaaattc atgggtccat ttctagggtc ctgtagcttg tttcaatagt attctgtcct 84600  
 aagtcctgat acccagagaa gcaagtcctc ctgatttgtt cttcaaaaat atcttgatg 84660  
 ttcttgaacc tttatctttc catattaatt ttacaattag cttttcagtt tacacatgca 84720  
 tacacacaca tgcacacacc ctgttatgat ttttaatgtg gattaacttt ataggtcaat 84780  
 25 ttgaaagttt tcaaaaaata tttttgcttt ggcttccagg aaactctgaa aaagattttg 84840  
 attaactctgc atatttgttg gaactttcta tgtccttgac cttttattcc actgtttcat 84900  
 gtttcctaag aattgcctga aattatgtgt ggaggggaagc aaggcatatt aacaatttac 84960

ES 2 784 246 T3

aattggagca ggagcaggag gatgtggtgt aactcagtac catcaatgtc tatctgatta 85020  
 ggactatagt cttaaaacct gtgttacttt aaaaatacag atataatfff tagatccaaa 85080  
 gcatgaagat attaatgctg gcaggcctga aatttgactg acttatcaat atfftttaaaa 85140  
 atcttagcag gtgtttctaa tagataagtc taggttgagc attgctgggt taggatgttg 85200  
**5** tatagagagc agggcctcct gaaatgctga tagcagcatc ctctctggcc ttgaacaata 85260  
 catcaagact tgtgtttgga gtcaaagtta cttaatfftc aaataaatga attatgagta 85320  
 tatacgccta aatctttgtg tactatcata aaattctgcc accctatgaa gatggattga 85380  
 tgtgaacatg gcagttggga cttgtctcct cttatffftta tffftttgtg catgaatata 85440  
 gtcctaacia ataaatccca tccttggtga acaatfftaat ggttatgfff ctgttctcac 85500  
**10** tgaaciaaaca cagaagaaat atgccagact aaattaatga agtgaaaacg atatatfcag 85560  
 taatcccata cattffftctaa tatagactaa aaacctatff tcttccatct tatcttcaga 85620  
 cataatggta tgaggaaaa aacaattcaa agaggaagtc tffaaggcaa tffctacatg 85680  
 aagtaacatt tgttgggttc atgtgtcaca taacaggcat tccacctfff acaattcaat 85740  
 ccctffaagc ggcttatgaa ttaggcagct atffctattg aaaaaatgaa gataataaaa 85800  
**15** tcagaaaact taaataaata aaaagttaca ttcagtgaat gaataggagt agagtctgga 85860  
 tffgaatcft gctffttggct tffgtgtgtg accacatgtc acattcfttc caccaccac 85920  
 agagaciaaag cgacattcac attgaagggtg taagagatgg caatgaatcc atgacctcag 85980  
 agaatcactt cactgctgca tgaaatggat aataattatt tcttctcctt tcgctggatg 86040  
 tftgtggctta atfcacatff gtaagatgtt atggataaaa tcactgcaat cgctaacagg 86100  
**20** catttatgtc ccacagtctc tffgggcttc tfgcftffta tcttccagca tgccatagcg 86160  
 atggtgctcg ctggatffat gaacaccgtg actgtctgtt tggaacactg agatgtgaaa 86220  
 tfgcctccac attgaaciaag atffggctct tgggtgtagg agggftgtga ataaagtgag 86280  
 cactgggtgg acagaggagg acatgctgca acattatffft cagtaataat cctfftagtta 86340  
 ccaggaatga tcattfffttc tgattcattg tfftagfttga aaaciaattaa caactaaaa 86400  
**25** tatcacatcat ttaaagataa tatttaagta aaatattfgc atgtagaata aaggftfffta 86460  
 cttaccaaat aaaaataacta caccttgaag tfftgatffct gctffftactgt tffacatffft 86520  
 agacagaaat taacatfftga agtggtcaca aagaatgata gaatgaaagt cactcatatt 86580  
 ctgfttftgffc tctffftacag ttaagacatt atctggftta tffftgactgc tgtfftagaca 86640  
 tgagaataat gtggctctac aggctctgaa gacatgaaft ataatgcaft gtcctctaag 86700  
**30** tgagctcaaa tgattctaac tccttaccaa ctgaccctcc aaaciaaacac ctgtagctga 86760  
 gtctgtatff gtcaggggccc aacagtatga ctgggagffc ttaaagtaat tfgcatgtgg 86820

ES 2 784 246 T3

aacataatgt ttattatagg ataggtcata aaaatgtgct catttgacac agagaaatgt 86880  
 aatatcagat ctcaatagca gttaaaacac tccctagaag ctagaccaa aaaagatfff 86940  
 ttgaggagaa atatfffct ttgacattgt ttataattgg tgaagcacag caatgacaag 87000  
 tagctgaatt tcagttcagt gtttcctfff ttaattatct acagacaatg aacatccttg 87060  
 5 ctgtctgcat gtgggatgga tcacttcacc ctgtagccta acagcactff ttctgtgact 87120  
 gttatcacia tccaagagac cttggagaaa agctgctff ttaataaaa cactffcaaa 87180  
 gaaactgagc aaagatgcta agtgtgcatg gcacatggca aggggtgagca caaatggatt 87240  
 caggcttct tggaaaatca agaggataga gtgtgttgac caaaatatct gtgaatggat 87300  
 atagggctag aggagtctgg tggggcatg tgttgcaaaa gaaggggagg tgcccattct 87360  
 10 gaaatgaaaa aagttaagtg aaaagtctac ttatatgtga ttcagggaca gagggataa 87420  
 ctgaaaacc tccctctcca cggaggctct gggctaagtc agctgagtgt tgtgagtcatt 87480  
 gaaagccgag atttgagag tccagtgtaa gaaagcacag ggcattgat ccacaagcac 87540  
 attcagtggg ggaagccagg tagacactga agtcagggca ttcaggggga tgccagcaga 87600  
 gagacgtgga ttaggaaaat gatcataaga taaagtctta agcagagctt gaattcaagc 87660  
 tctgccattt attagctata tctfffggc cagtttactt aacctctctg accattaaca 87720  
 tcttcagttg caaaatggag taatgacatc tagtgtffct gggattgttg caaataaaa 87780  
 agaataatat atgcaaacct cttgccatgt tgaaggtatc taggaaatgt tccctatcta 87840  
 gctgtggcag taataaaaat aagcatgcaa agccacagcc agacctacag gaggagcca 87900  
 15 gagctatgat ggcagacttg ggagaagctg gaagccaata gagaggggccc cctgaatgac 87960  
 tcttgttgtt gaaaacctag gaccaaagtc aggagaatag atttcagctc tffcttgcc 88020  
 actggctggc tgtgtgacag atggfffct agttgtctff cctgggcctc cfffagfff 88080  
 ttctagagca aggttattgt tattgggtca cfffgtacca gtcattffat caccaggaat 88140  
 atfftggtcc cgataatatg aatgataatt gtcccatgt ttaagctatg atgttaaaaa 88200  
 20 catgctacct cfffffgtc tgtffgccta cctccatgcc caatccttac cacacctgac 88260  
 cctatgctgt cctcactccc actgcacccc agagccttg cttacccttc acccaggtaa 88320  
 ggtgcaaaga tccatggaa ctgtgtffct gggccagtag ttagtaaaa gggaaagaaa 88380  
 atgtatcaaa gattcattcc ctagatggtt gtgttgttga ggtgggagaa tccgacttcc 88440  
 tctgggtaga tagccgtcag ggataaagaa agctcagggga catgtfftagg atgctcactg 88500  
 25 caaaaattat ctaataataa aaaaattcac acataaaaat aatggffff agagtcccaa 88560  
 aatgggtggag tfffatttc cctggffff tffaaaagg cacatffta tffctatct 88620  
 gtccatttag tcattcatgt atttaaaaa tatttattta gttcttctta tgcccttgg 88680

ES 2 784 246 T3

gctgttttag gtgttgggga taaaacaaga aatcaacagt ggatacaaca ataaacaaag 88740  
 agataactac ctatagcata tcacaggtat tccaaaagca ataaacaaac caggataaat 88800  
 agttattgac gtgatggtaa agctgcgtat ctccaaatth cagtggctca tagcagcaaa 88860  
 cattgttttc tcttgacacag tggcttgtgc ttggctggag tgagtgacct caggctgctt 88920  
 5 tcacactgag ttctgctcca ctgtgcttat cctccttata ttagcagcca ccggtgctgc 88980  
 tagtaaagt tctcttcttg tagcatgata ggaacacaag ggggtgaagg gaaagtcata 89040  
 tggcttctta ggcttcaaca agaaattgca aaattctatc tgaggccac agtctagtag 89100  
 acaattcatg ccacgtggat aagcccaaga tcaattggga tgtgaggggt acagtcagtt 89160  
 catagtgggt ggtactgcaa tgtcatatgg caaaggcata aatgcgttat tctattaagg 89220  
 10 gaaggagtaa agaactgaag acaacagtgc aatctaccac acagggaaag gatgatgagg 89280  
 aatgtcaggg taaggggggg tggcattttg tatacagtgg tcagagaaag ccttcacat 89340  
 agatgacata tgaccagaga ccttgaggag gtgagctggg taagtaattg gaaggagagt 89400  
 attacaaacag agaaaagagc tagtgcaggg gtttgcttga gaggtcaatg gggccgaagc 89460  
 agtatctgag ctggaaagat ggaggaggta aagtccaagg tatattaggg gaggagcatg 89520  
 15 tgtgataggg ggctgaagca ggtaataataa gcccttataa aggtttcagt ctttactctg 89580  
 aataaggatga gaagatattg ggggactttg atcagaagaa agatgtgaat tgataagtgg 89640  
 taacaatata actgatggat gtattgagag tgcattgcaga gagaccaagg tggaaggaag 89700  
 cagtacactt acaagtttat tgcattgatc cctatatgga ctgatgatag cttggtctac 89760  
 ggtggtgaga aatgataagg ctctggatat attttgaggg tggatgatgat aagatttcaa 89820  
 20 ggtgtatcag atgtaggata tgagagacag aaaggagtca aaggatgattt ccaaatgttt 89880  
 ggtttgagac tggaaaggat cattgccaaa aaataaggatc aggaatattg tcagccacga 89940  
 tatttagaaa atctgattct cattggtgag gataggaatc tttcttcccc tgctctgcaa 90000  
 tgctgagaag tctttatgaa aacaacgcaa gtaccacaat aaaatactat tcagggttttt 90060  
 atatgttcca cttaaacc aaaccactgtat catataagct agaattatgt ccacattaat 90120  
 25 ttttgttgta ctttgatttt aaaagtcatg ggaaatggat cctagaaata aataattcat 90180  
 ggaaactaca ttattaagtt aattctaacc aatagcatgt cattaagata caaatgtgaa 90240  
 aatagttcaa ttttattttt taattaactc ttcagaagta atagccgaca attgtccttg 90300  
 atcaggtaa atgctgtttt taaatgcctg acagttttta agtctttaat ggaaatcaat 90360  
 ggcccaactt cctgaaatgt attaattaca tttatctttc taggcagttt ttagtaagga 90420  
 30 ccaggactta aaaataactt ccaaacattc tctggctaaa gtctatthttt ttcttaataa 90480  
 attcacagtg ggcatthtact attctggat cttccccaca atatccaaac tttgttctact 90540

ES 2 784 246 T3

	aattcctttt	ccttttctct	ctacatccat	ataccacttt	atctttcaag	catcagcgta	90600
	aatcccat	cctacattca	gtgaccctgc	ctccaactca	cactgatctc	atatacttca	90660
	atgtgatatt	ttatatggaa	gtcattgttt	tttgcataag	attgcaaagt	gatttggaaa	90720
	aaaaaaccaa	aaaccttgg	aagcaacccat	tcaacaaata	ctgcattttt	gtttttcatt	90780
5	tctcattttg	tatccctttt	tatactgatt	ctcggcagga	gtatccaaga	gtggaaacat	90840
	gcaaggtttc	agaatctttt	gcaacttaat	taggctctcc	gtggaatatt	ctgaatccct	90900
	ggaccattgg	agcagctgaa	cctggagttt	ggaggaaaga	tgggactggg	aggcagcgag	90960
	tggggatgaa	ggagcagcct	gtgtcccctt	catttgatgt	ggtcctggca	tgctatataa	91020
	aaggagtggg	gattgaggcg	tcagctgttt	tgctggtgtc	catggcatca	tttactggat	91080
10	gaaacttgca	ggacgctgag	gtttggacag	ggaatggctg	agccaaaact	gaatcttctt	91140
	tgctaatacgc	tgtgcacaga	gaggataaat	acaaatggat	gcacccaag	aggcagtcac	91200
	tgtcatgaa	caaagggaaa	ttagttaatt	attgctatag	tccatgaagg	agggatctgt	91260
	ctgtcctctt	tccaatctc	tcctcacaac	agtggtagta	gtaggaggag	gtgagatgtg	91320
	gaaaagcaga	ccccacctcc	cctccatgcc	aggctgcatg	agctgcaagg	ctagtcatat	91380
15	ctggaagttt	taaattgaaa	ataaaattaa	agttagtaag	tgaacaacag	tgagccagca	91440
	ctttgggagg	ccgaggcggg	tggatcacga	ggtcaagaga	tcaagacat	tctggccaac	91500
	ttggtgaaac	cccatctcta	ctaaaaaaaa	caaaaattac	cctggtgttg	tggcgggcac	91560
	ctgtaatccc	agctactcag	gaggctgagg	caggagaatc	gctggaacc	aggaggcggg	91620
	ggttacagtg	agccgagatt	gtgccactgc	actccagcct	ggcgatagag	ccagaatccg	91680
20	tcccccgac	aaacaaataa	aataaaataa	aataaaataa	aaaagaagca	ataactcttc	91740
	cagtaatcaa	aaaagtctta	attttatgaa	ctcaggatga	gattgtgtta	aggaaccca	91800
	ccaccagtg	agaaatgatt	tgaccaaagg	cagatagtgg	tatctgtcag	gacaaataaa	91860
	agcatctcat	gcttatagcc	caataagtta	aattttctca	ttaaattggt	gattttctga	91920
	agctagtttc	cttctttaga	aaaaaaagca	ataataacaa	tctgttatta	ttactatgat	91980
25	ccactggctg	gtaatcatga	gccggacgtg	ctgactctct	atacctagca	gtctcaaggg	92040
	cacctgtgag	cggtaaaatg	gctttcatcc	atctcacaac	acttgaactg	tgcatatggt	92100
	tagcgaacaa	atgtttactt	ctcacacttt	gtttttatct	gtagtattcc	tgtaagctgt	92160
	gaacaggaat	tcctgtaggt	gtgaacactc	caaggtgcca	tacacttagt	ttgacatcaa	92220
	aggaaaacta	ctcttatctt	tccccttgtg	gtctttgttc	tgactgttt	gtctcaacac	92280
30	cacatacttc	cctcttatac	cgccaatgct	ccaactttc	tcaatcatta	ttcatcctta	92340
	aatttcaggc	cttggtgttc	ctttccgctt	gacacagatt	tcctgcataa	aaccttggct	92400

ES 2 784 246 T3

	tctcttcaat	caccatacag	gttttctggt	agtcttacac	tgctgtaggt	aaatattatt	92460
	cagttctatc	caacaaagta	caccaccag	ttctgttcag	gtttgttaga	agtcaattgg	92520
	ttatgagtga	tttttctata	cagtcatatg	taccaaattc	tctcttatgc	attgctgaga	92580
	agtattatag	tctcaatact	cacactgaaa	aagttgcttg	ctacttctca	tctgcctgtg	92640
5	attacatgaa	aaagctttgc	atgtaggtca	gaaacagggg	aacataagga	gccaacactc	92700
	atttctaaca	ttaatggaat	ggagaataag	gacattcagt	ttagttgtaa	ataaattaa	92760
	agaaaataat	ttaaaaagct	attgtcttca	gcatttaaag	ttttctcaac	acttgctcag	92820
	caatgctatt	atttctcaga	ttctgaaatg	gctaccctct	tatcatttta	atgtaagtga	92880
	ctttctgtat	ttctttctct	ctttttaagt	agttattctt	caggaatgaa	catcaggatg	92940
10	caaagaacaa	ttcaccacct	aatcagtcac	ttatggcaga	aactgaatca	aatgattag	93000
	acttagtgac	tctgagtgta	tactttgatt	attgcttttt	caatttgacc	tactgaagag	93060
	aacattatth	tatgcctgaa	tttactttgc	tctacttttt	tagttaaagt	cttataaatt	93120
	aaaaaaggca	ttaaatagaa	ataaaatata	gttatattgg	catgagggag	atthttccata	93180
	taaatcgatg	gaaagaaatt	gaatcaacac	ttacaaacaa	cattgttttg	gttatthtagg	93240
15	attacgtthta	cccactgggc	tagcaagtag	atgacattht	gcctcatatt	tgatattcga	93300
	ctaattctth	tttcagtggt	gaatgaggca	ggtaaaatgt	gcttaagatg	ttctaagaag	93360
	tcacaaggta	ggtaaaaaat	tgtgatctth	gaaattggcc	aaatctgtat	ttgggttcac	93420
	atthcatcac	tcaattgttg	agtgtctthc	ttgaccatct	tgthtgacca	ctctgagtht	93480
	cactcttgct	gthgaactga	ggctaataaa	cccttctcct	caatagacat	tgtctacaag	93540
20	gtgagcagtc	aaaggcattt	atatgctatg	caatgatttg	aagcacactt	tcaaatatat	93600
	ggttcaaaac	aaactcacga	tgtatatatt	ataththgtc	atcactctth	tgagctgatt	93660
	tgatgagagg	cattthaatg	tagccaaaat	aaacaagcca	ttgaacatta	accttgatgg	93720
	acgatgcaac	tcaaaactaa	agthccttga	gaagtaactg	atctgctcaa	ggtcacacac	93780
	taatcaggac	agaggcaagg	cctgactctt	ggtctcatga	gctaataatt	atthtatgthg	93840
25	accatgcaag	ctatatccaa	aaatagtaca	gaaththtaga	gaaththtaa	ctctgtcata	93900
	gatggatgth	tgattaatcg	agcggactgt	ththgtthta	tggaaacaat	taaaattatc	93960
	thtctaaaat	aatatattga	aactgactca	caataactag	ttatatgagt	agaatgacat	94020
	ctgthtatagc	cacattctat	thattatctt	taatatatta	ththaatata	cttgacattt	94080
	taththactct	ttaagtaata	aatatcaaat	aagagcaata	aataaagctg	atthtataaat	94140
30	tactgthctt	ctatatgagt	taagatgcag	tagaatatac	cctcttgaga	thtactagact	94200
	gggththtagt	ataaaacatg	agthgcaattt	gcccacatag	ataggthtatg	ggaagatagth	94260

ES 2 784 246 T3

	tttгааactc	aggaagagtc	actctgaaga	attgagactg	gagttctgcc	aagagatgtg	94320
	caagtcaaat	ggaattctgc	aactccagag	agggagagag	agagtagagg	cttggaagga	94380
	ggaagagaca	aagttttcag	ttctcactag	gcacagttga	aatttctact	ctgtgttttc	94440
	ttgaaattta	agtgactcct	tccaatcgac	tcttatgtaa	gtcagtctga	atcacttttg	94500
5	gtctttgcaa	ccaaaggatg	tattaaaacc	atcttttgct	tgtcagttaa	acatatggct	94560
	gttgtttaaa	tgtaagaatg	gagagaaaag	gtgccacgta	attcaggagt	ctcttcatct	94620
	ttgtcacaga	gccttgaact	atcttcccaa	taaataattg	atttgaatct	tcagcactga	94680
	ggggaagtgt	cttctgaaat	aatacaggct	aaattgttat	gtagcagcca	tctatacaaa	94740
	gcaaattttt	gtaatataca	aaagagggga	ttttgctatt	atatcagttg	gcaagaatca	94800
10	ttatcgtgat	tggaaataaa	tagatacaga	gagaaaagaa	tgagatttaa	aaaaaaaaatt	94860
	cagcttcaag	gaaattggat	tttctgttga	gtatggaatc	gagactttgg	aaactaaaag	94920
	gctagaaaaa	gattgcttta	ttaagaaaag	taaaaataca	tttttttcat	ttgaaaaatg	94980
	cctactagac	aataaaaacat	ctggctaaaa	aatgaaatct	tcagtgcacac	atctggatat	95040
	ttgctccata	agatatcaaa	catgaggata	attgaaaata	tagagctaaa	ttactttaat	95100
15	gttaagctcc	catccagatg	tttgatgcta	tgttagatga	aaaaactcct	tacatgccag	95160
	acattaaagc	aatcagggat	atctaaatgc	caccataaat	aaaatagcat	tgcaaatatg	95220
	gttcaactgga	aagaatgtat	taactgataa	ttacagacta	cacaagaaat	ttgcttctta	95280
	gttaaaagtt	tttttaattt	ttttatttta	ttttattttt	ttccttctga	tcagtagtaa	95340
	ctaataaaaac	atggaaaacac	gaaatagaca	tccgtagacg	acaactggtc	aggcttattg	95400
20	acaaacaagt	ggatttcatt	tccaaactat	ttttttacta	tatatagaaa	tatcaatgag	95460
	ttagaggttt	tggctcctaa	ttagagaata	taaaacttga	tttttgghaa	tgcaattggag	95520
	aaataggaca	aaattttgaa	tttcaattct	ttggcaatat	ttataaggaa	taaaatccaa	95580
	aatagatgaa	actgatataa	tttagcttca	agaagtacca	gatgacaact	gaagttggct	95640
	cacaaattat	aatctatggg	agaatgggaa	gcagtgcagag	ttaaacagtc	aaggacagca	95700
25	tcagtcgttt	ggctgacact	gcagattttat	acagacacag	ttttaaatcc	aggcagatct	95760
	gttagtgcag	agaagaaagc	actgtatctc	ttatgtggtt	caggcaggaa	gcaagggtta	95820
	taatctaggg	agtcagaaaa	gttaaagagt	gccaccaagt	tatgtgagtg	gacagagttg	95880
	aatgttgccct	caaggacaaa	aaaacaatat	cttctctgtt	ctacttttta	aaatggactt	95940
	ttaacattta	ggccacatta	aaatttttgc	aatcaagaca	gattcatcag	gatgttggtg	96000
30	acaaatttcta	atacatctat	tgtaagtgtc	tactcaaaat	gaagataaat	attttaaat	96060
	ccatttatgt	aagaggaaaa	caggggctca	gagaattacc	atgacacatc	caagagtaac	96120

ES 2 784 246 T3

	actctgtcat	gaggaagcag	agtatgacta	caaatccagc	cctggctaata	tcaaaagacc	96180
	acacttttttc	acttgtcatg	ctgactctta	aaacatcaaa	acctgatcag	ttgcttttgg	96240
	ctgaactaag	gtaaaaattg	ctacagatga	actgtttcct	agattattgc	tacacataac	96300
	tctttcctag	attaatgcag	atgtgtagat	gacacaaagt	gacttgagca	acaaatctga	96360
5	ttactgaaaa	gatttaacat	attgtacaga	ctactgtgtg	cctgaacaac	agaaagtgct	96420
	gaataacaaa	aaaaaattgt	aggttttaaa	catttaaaac	aatcaaattc	tttaaaacat	96480
	gcatgtaact	ccgtgatact	gactcagtgt	ttggcacaca	gaaccctgtg	aatataaaat	96540
	gaatgcccg	ctgaggaaac	taattttata	tctatatcta	catctttatc	tatagataca	96600
	tgtatatata	tttttatcaa	tatcaatatt	tttcttgatg	tcaaggtcag	gatcgtggct	96660
10	ggtgtgtcag	ggtccacaaa	tgtcatctca	ttcaggaaag	tatttcaggc	ttagggtcaa	96720
	ttgtcagaag	catttgaacc	aaagcaactc	catcttaaag	aggagcttgg	taaaatgaga	96780
	ctgaaaccta	ccgggctgca	taccagatg	gttaaggcat	tctaagtcac	aggatgagac	96840
	aggaggtcag	cacaaaatac	aggtcataaa	tacctggctg	ataaaacagg	ctgcagtaaa	96900
	ggaaccagcc	aaaaccacc	aaaactgaaa	tggggatgag	actcttctcc	gatcgtcctc	96960
15	actgctacac	ttcaccagc	gcatgacag	tttacaatg	caatggcagt	gtcaggaagt	97020
	taccctatat	ggtctaaaat	ggggaagcat	gaataatcca	ccccttgttt	agcatatcat	97080
	caagaaatag	ccataaaaat	gggcaatcag	cagccccag	ggctgctctg	tctatggagt	97140
	agccattctt	ttattccttt	acttccttaa	taaacttgct	ttcacgttgc	accgcaggct	97200
	cgcctgaat	tctttcctgc	ctgagatcca	agaaccctct	ctgggggtct	ggatcaggac	97260
20	cactttcctg	taacaaaatc	aagcatcttt	ccagacaaag	cgtgggtttta	cccattctag	97320
	aatccccttc	ttaatttata	aggccgagac	aagtgtccag	gtaggcctta	gctgcctgg	97380
	gaatagtaga	gaaacagttg	gaattatata	tgcttggtta	aaatccaaga	aagcataagc	97440
	caggagtcaa	ttggaacctc	tcagctctta	aaagtaatat	tggaatattt	tgttccagta	97500
	tttatctatt	tcactttgca	ctgcaggctc	tcctgaagt	ctttcttgcc	tgagatctaa	97560
25	gaccctctc	tgggggtctg	gatcaggacc	cctttcctgt	aacaaaatca	agcatctttc	97620
	cagacaaaagc	atggttttac	ccattctaga	atctccttct	taatttataa	ggctaagaga	97680
	agtgtacaga	aataaacttc	tttgatagtt	tttagctgca	acagaagtgt	gggatggggc	97740
	agtggagtga	agaggaatt	gtgttttagt	ggtgaacttt	ggatcagaat	ctggcttctg	97800
	ccgatttggt	taattgctta	actgattttt	ttcttttttt	tttttttgag	acggagtctg	97860
30	ggtctgtcgc	ccaggctgga	gtgcagtggc	gcgatcttgg	ctcactgaaa	actccgcctc	97920
	ctgggttcat	gccatttctc	tgctcagcc	tcctgagtag	ctgggactac	aggtgcccg	97980



ES 2 784 246 T3

	caccacgcct	ggctaacttt	tttgtatttt	tagtagagac	ggtgtttcac	cgtgtagcc	98040
	aggatggtct	cgatctcctg	acctcgtgat	ccgcccgcct	tggctctcca	aagtgctggg	98100
	attacaggcg	tgagccactg	cacctggcca	gttgattttt	tttatccttt	tgtgatgcct	98160
	gaatthttggg	cttgaaaacc	cagatgtcaa	atacaccctt	ttctttaata	tttgagaaa	98220
5	gtcctcattc	atagacatth	gtagthttgcc	gctthttatga	gagatacagt	aagaggaggg	98280
	ggtggaagag	gggtactca	catctaaggt	aaccatcca	ctggcccact	tttggccacc	98340
	cattgtgaga	actthttcca	tgccatctca	tccttagcct	tgaacctgct	cccgtccac	98400
	thttctccctt	thcccttcac	cagthctcct	ctthtttcta	tatcttctc	tcattthcat	98460
	atgcagtacc	acttattcat	ctthttgttg	ctgctggctg	ttgthttgaa	ggtthtaagt	98520
10	tctattgcaa	ggtgcttatg	aatagthttc	ttaaattaaa	aaaaacttc	taaagtaact	98580
	ttatggtgca	actattatth	tatcttatth	tataaaaatg	atathtttgg	ggactaggca	98640
	cagtggctta	cgctgtaat	ccaacactt	tgggaggcca	aggthcttgg	atcacttgag	98700
	gccaggactt	ccagaccagc	ctacgcaaca	tggcaaaacc	ccgtccctac	taaacataca	98760
	aaaatcagct	gggcctcgtg	gcacacgcct	gtaatcccag	ctacttggga	ggctgaggca	98820
15	ggagaattac	ttgaacccat	aaggcaaatg	ttgcaatgag	ctgagattgt	gccagtgcac	98880
	tccaccctga	gcaacagagc	gagactctgt	ctcaaaaaac	aacaacaaca	acaacaacag	98940
	atctthtttgg	tattcaatca	ggtatthttta	aaccatatth	aatacatcta	actagtaact	99000
	thtagatthtt	atctcattaa	thtaagtgtt	thgatgtctg	aatatthaac	atctggacaa	99060
	aatggcttca	gtaaaggcag	gtgtatacag	tathttgtgt	aattccatta	taattctatt	99120
20	thttccagtg	caaattcttc	aatgttctca	tcaaaaaagt	tatctatgga	aaggaacacg	99180
	gcttcccttg	cattctcatt	tgaagcagga	agtgtgaaag	accgcttag	actcagtaat	99240
	tggctgtcat	acactatthta	gaacgctgct	ttgaagaaga	cctgcttctc	cctthactct	99300
	tctctgthttg	caccacaaaa	tattcaaatg	gaaagatcaa	agtggaatgt	tcathtttat	99360
	tgctcttatt	tcatgtgtga	tacttattct	aatccttctt	ggagtaaggg	tcaaagattg	99420
25	ggggatthtga	aacataaaac	agaatthtga	gggggatgga	thgagtctgg	tagctgacca	99480
	ggagactgac	ttaaattaga	agaagctgaa	ctgtagtatt	caaaatacag	gtaaaacttg	99540
	taatgttgtc	thtatataca	tgaagcagg	aattcatcat	gtgagataat	aaaatgcaag	99600
	gtctggaagg	aaaaaaaaaa	catgagagaa	agatctctc	atgaatthgt	thactgactg	99660
	cttggthgaag	thtatgatta	catgcctgca	gtccaaaatg	gaattctgcc	tctgagagct	99720
30	tgctthttgcc	tgactthctaa	acacaattgc	ctggaagaag	atggtgatgc	gtctgtaagg	99780
	agactggtth	tacaggaagt	gthactthccc	gtcacactaa	thctctctgga	gctaacatth	99840

ES 2 784 246 T3

	caaacacttg	cacttatagg	ttatctctct	ttgtagaaca	gaaatgagcc	ttcatttttg	99900
	ctaccagtac	tttagaatac	ttggtgaaaa	gtttctttct	ctccctctct	ctctgtctct	99960
	ctttctcttc	tccacccttg	cccatcttct	ctcttaatac	atthttatthtt	atthttatthtt	100020
	atthttagaat	cttacctgga	ttctccttaa	aatgggtgca	acataaatat	atactcaatt	100080
5	ttgtttttct	ttgctgcata	aaacagtttt	ttttaattaa	agagaaatag	ctataagtgg	100140
	tctaccatca	acaaaaacac	aacaaacagc	tcctttgtac	cactgtcatg	ttgccttcca	100200
	tcttacagtc	ctcagtttct	tactgctcac	ccccagtggc	catagatgaa	actaaaatct	100260
	ctggatttcc	ctggtttggtg	actctcaact	ggctcagcta	gcagggattg	ggcactggga	100320
	taaagcctcc	cattttctgc	tttctttgct	attcttctct	gagttggctt	ctcagctgtc	100380
10	tggtaggagt	cagcatgggc	acattgggta	ggctctcagga	aggcatatct	cacaagaagt	100440
	ctcaggacac	ttctctaatag	aggcatccgg	cagagttatg	aatggagcca	gaaacgactg	100500
	actgggctgg	agaggggcac	ctggcgattg	gcagagcagt	caaaggttgt	caaaatgcac	100560
	aggctggaat	cagattgcac	ttgatatctt	aggaccgaat	gtttcatgag	ttgagatact	100620
	gtgaagaaaa	ataggtggag	aatatthttctg	agcaattgggt	tggtttacag	gattatthttcc	100680
15	cacgtctthtt	ttataacccc	tctthttccacc	tgaaaaactc	ctagttaacc	ttcaagattc	100740
	tgcttgcct	gatacaagaa	ttactttgggt	tgctccattc	aggthcccttc	aaggaaacgt	100800
	catattgcat	aagtgcoccca	attgatcctt	ttaatcatga	cctggthcacc	taggtgtcca	100860
	catctthccct	tgacctcagt	ctthttccctg	tgthttccagt	gcaatcacag	thctctgatat	100920
	gaggattctt	aataaatagc	tgctgcatga	atgaaaaaca	agacatagag	aggaagcact	100980
20	tattagattc	cagactccct	gctatgcatt	ggggattcaa	caacaaatgt	cacaaacttg	101040
	thccaaaata	thattttgtac	agtgaggcct	gtthattggc	tggtatgggt	actgttggca	101100
	gatacggggc	thctgggtgt	ttaggaaaag	tcaggtacct	thcttctgag	agthtttagaa	101160
	agactgtgtg	gtctatthtt	taataggaag	ccttaagagt	ggagtccagc	ggcacatggg	101220
	aaaatataac	attgaaacta	ttggaaagca	tgatcatcaat	gtggaaaaac	ggggtcctac	101280
25	attgcaatth	aagttgttgt	agatgaaaac	agthaaactct	gaagagtggg	gccaacatta	101340
	acctgctgggt	aggggttccct	ctcaaggtca	ggtagccctg	agatthtatgc	thaaaggacaa	101400
	ggccagtgtc	taccacatth	agcaactthct	ctctcgggtga	gtcctagtth	agcacgatat	101460
	tgccacactc	aacgactcga	ccccacgatt	tcaaatggca	accccgthga	agthggatatg	101520
	gagthtttgct	thctgtatgtc	cattgaaaggt	catgtatgaa	gatgtthacca	atgtthaaagct	101580
30	atthctgaata	tccccagtat	ctctthcaagt	gcaaaactta	cagcattata	aaataagggg	101640
	aagatatacc	tgaaaaaaca	tgaagatthtg	gthaatthaaa	aaaaagthtt	aaaaacaaaa	101700

ES 2 784 246 T3

	attgcttaat	taaagtccta	tatgaattta	ggcaaaatac	acaaactagc	tgatctccag	101760
	attccccata	tagatgacag	gcaaagaatg	tctacaatta	ttgataagat	taaatgagat	101820
	aatgtgtata	tttcttgac	attgcataaa	acttcaataa	acatttgcct	acctaaattt	101880
	ccatthttctt	tcattatata	cctctgtata	aggcccagtc	agaatgcctt	tccagatata	101940
5	aagcatggca	ataactagga	aatttggat	actggtaaaa	atthttcttga	ttthttctttc	102000
	tttctcttta	tggggttcca	tcaaattttg	ctggaccatg	tcacttggat	atthtttagat	102060
	gagaccttaa	aaaagtcata	tatgggcccg	gtgtgggtgt	tcatgcctgt	aattccagcg	102120
	ctttgggagg	ccgaggtggg	tggatcacct	gaggtcagga	gttcgagacc	agcctgggca	102180
	acatggtgaa	acaccatctc	tactaaaaat	atgaaaatta	gccaggtgtg	gtggcgggtg	102240
10	cctgtaatcc	cagctacttg	ggaggctgag	gcaggagaat	tgcttgaacc	cgggaggtgg	102300
	aggttgcagt	gaactgagat	cacaccgttg	cacaccagcc	tgggtgacaa	gagtgaaact	102360
	ccatcacaaa	aaaaacaaaa	aaacaaaaaa	aaacaaaaaa	agtcatatat	gttacgccaa	102420
	atatggctga	taaaactgaa	gaggttgaac	atgtaagtag	tagttgtgct	cagacattag	102480
	agtcctgtg	aagaactaca	aagcttgcta	tcgthttata	catttgttat	ggtctgaaga	102540
15	attgtatthc	ctcaagattc	acatggtgaa	acctaaccct	caaggtcacg	gtattaccag	102600
	gcgaggctth	tggctgatta	ggtcaagagg	gctctgccct	taaaaatgaa	attagtgcc	102660
	ttgtgaaaaa	cgcttgaggg	agcttgttca	cccctthtgc	catgtgaaaa	tgcagcaaaa	102720
	tgtgttatct	acaaggaatg	ggcccttgcc	gcatggtgaa	tctgttggca	tcttgatctt	102780
	ggactthcca	gccttcagga	ctgtgaacaa	tgaattctgt	tgcttataaa	ttactctgct	102840
20	tataaattac	tctgcttata	aattctgttg	cttataaatt	tgttacagct	gcctgaatag	102900
	atgaaggcac	cattcgagtc	tctggattht	actthcccaa	aattcagtga	gttccagtat	102960
	cattctthtga	gaaatccaat	aattgtthtt	aaccttaaga	ttaacaggta	ggaaagtgac	103020
	acacacctga	aacctgttac	tctagtggta	gaatctcatg	gtthtgcaac	gtactgctga	103080
	aaatattthc	tgcatatgaa	aggtactctg	aagcccctca	gaagacacca	caccaccag	103140
25	actgctacta	gataacatag	actccaagaa	tggcattthc	taatgtgtgt	ataaaatggc	103200
	atthttagaat	tgcttaaata	tccttattaa	cactthctaa	agaattgctg	ttaactctth	103260
	taaaaatcaat	tagattgccg	aaggaagagg	gaggggatag	gtthtaagtga	ggtactacat	103320
	cacatagtgt	tggatacatt	ttccaaaaag	ataaatgtaa	gtctthtttga	acacataatt	103380
	thttgtggcca	tattgtctct	gaataaaaag	acaattgggt	tgtcttcaat	ctggagagtt	103440
30	ctagttgtht	tcattthttt	tgctthtatt	ctccccagtt	tcttcatgat	gatgcatttg	103500
	thttatagcct	gcacaccaca	tctgatacat	thttaatctt	tagtgagcca	tgacaaaactc	103560

ES 2 784 246 T3

	agaaatgatt	agaaattcca	aaagaacatg	ttttttaact	tcactgagta	cttttttttt	103620
	ttattttact	ctttgttttc	tttgaaaaac	aaataaaatg	tctgcttcct	cttagccata	103680
	tctctctaaa	gtgttctggt	gtgtgtcatt	agccaacagg	cagctgggta	aatgctggcc	103740
	cacatccaaa	atgatgattg	cttttcataa	gcactgtcct	tgctgttggc	tttctgacta	103800
5	atggcttctg	cttgtaatgg	atacaatgta	gtatgattaa	ctctcagggtg	attaatagat	103860
	gggttttctg	agaactaaat	aatgaagaag	caattaaaca	aatctgatat	gctgtcttta	103920
	ccacaaatca	aataacactt	tttcttctca	ttccttggac	agtggtttgg	aggtcataaa	103980
	gctgttctga	ctcacaaatg	ggagactttg	gcaattgttt	taggataaat	aaagacagga	104040
	aacatagtac	accctcttca	ccatcatact	cacctgtggt	tgagattttg	tagtgtgtga	104100
10	tatgaaaaat	agggtgcatt	taatccgtga	gccccatttt	cttcatctct	aaaacagtga	104160
	ttataataga	taatttgtag	ctttaaatga	agattaatga	agattaaaca	acacaatgta	104220
	cacaaagcat	cccacaaaaa	tgccaaatac	atagtattca	gttaatatat	gttggtttca	104280
	aatacctccc	tttcttctag	ccttagcact	catttttctg	gaagcaaaga	atattaggag	104340
	ataggatgag	gattgtcaga	aactttcttt	tcttctctga	ccttcagtaa	ttcagaaaag	104400
15	aaaaagattc	atccctctac	taacatgaaa	ataattgcc	tttgcagccg	tgataatcat	104460
	tttaagttat	tagtattaaa	aaaggcatat	catagattat	cgtatttcta	gcctccaata	104520
	tcaatttcta	tactccctgt	tacttggcct	tggctgtgta	gaattttacc	atctcactag	104580
	aaataataaa	cagcaaacat	caaaacaagc	aaaaacaagt	aagcaaaca	attataggta	104640
	attaatatat	tttatacttt	aaacatttga	agatggtgag	tttttttttt	tatttttatt	104700
	ttttgagacc	gagtcttgct	ctgtcgccca	ggctggagtg	cagcggctcg	atcttggctc	104760
	actgcaagct	ccgcctcccg	ggttcacgcc	attctcctgc	ctcagcctcc	ctagtagctg	104820
	gaactacagg	tgcccggcac	cagccccggc	taattttttg	tatttttttag	tagagacggg	104880
	gtttcaccgt	gtttagccagg	atgggtctcga	tttctgacc	tcatgatccg	ccgccttggg	104940
	cctcgagatt	tattttttaa	cggcagaaat	agggtggctaa	tttgtcttgg	aacaagtaac	105000
	accttttgct	tggttatgtc	tcatgaaca	acaatcccac	aatctcagtg	gcttatagca	105060
20	acaagggcta	acttcttgct	cacgtcatac	catagctgaa	atcatttccc	aattttatct	105120
	tttaccggtt	ggagatgaga	aataattaca	cttattgaac	ttgctaataa	atgtttagt	105180
	ctttatctgc	agctcccctt	gttttctcaa	ctttatgttg	aagtataatt	tacgtatcat	105240
	aaaataaata	gttaagtatt	tctattaatc	agtttttgta	atagcatgca	ttcatgttac	105300
	caccacctaa	acaacagagt	tttttccatc	accacaaaac	atattctttg	cttctttcca	105360
25	ttcagtctct	gctgaggcaa	cttctactgt	ctggttagttt	tacctacttc	agaagttgat	105420

ES 2 784 246 T3

	ttaaatagaa	ttctacaata	tgtgcttgta	tatgtctgac	tctgtctagt	cagaataatc	105480
	tgtgtttttt	acattcatga	tttgtatgta	tcagtagatg	acatcttctt	tttgctaagt	105540
	agttttccac	taaatgaata	tatataacat	catattttat	tttcttattc	ttttttgatg	105600
	accattagaa	ttgtttacag	gtttggacta	ttatgaataa	gtcttctggt	aatttttag	105660
5	aagtcttttt	tacacgtttt	tattcctctt	gagaaattac	ctaggagtag	aagtggtgaa	105720
	tgatagagta	gggtgatatt	tgactctata	aacaactgcc	aaactgtttt	ccaatgtggt	105780
	tgtgtcattt	tacattgtta	ccagcagtat	aatagagttc	tggttagtcc	acttttcatc	105840
	atctttaagt	tgtctttcat	tatctcaaca	gtgtctttta	aagtgcatag	gcttttaatt	105900
	ttgacaaatt	taaatttacc	agtggtggtt	tttttttttt	tttaataaat	tgggcttttg	105960
10	gtgttagttc	ttagaaatct	tttcttaatt	cctgctttct	tccagcagat	tttttagttt	106020
	tattatttca	tttgaccta	cgatataatt	tgagttaatt	tttgtatgtg	gcacaagaaa	106080
	tgaatcaggg	ttttacttgt	gttttcgttt	tttgggtttt	tttgtttggt	tttgcttttg	106140
	cttttgtttg	cttttgcaag	tgatagctct	attgttctag	caccatttgt	caaaagatca	106200
	ttctgtcttc	actgaatagc	ctttacatct	ttgctgaaaa	tcagttaacc	tatatgtgtg	106260
15	agtttctttc	tgcaatctgt	attctgtttc	attaatctgt	ctatatatat	aacaaaacac	106320
	gctgtctttc	ttactataag	gcttgaaatc	agatagtttt	caaacttggg	tcttttttct	106380
	ttttttaaag	ttgttttggc	tagtctagtt	tctttgcttg	tccaaataaa	tgttataatt	106440
	aacttgtaa	tatcaacaat	acaatcttat	gtggttttta	ttaagatagt	attgaattgg	106500
	gattgtataa	agatgaattt	gaaaagaatt	aacatcttaa	caatattgca	tcttccaatc	106560
20	cataaaaatg	gcatagctct	tcacttactt	tactctcttt	acttttcttc	cagcaatggt	106620
	ttgcacagtt	ctttcaaatt	tttaaactcac	atctatccct	aaatatgtca	tgtgttttaa	106680
	atggtacata	taattttcgg	aaaaaaacca	tttttttaaa	gtcatttaat	gaaagtatat	106740
	ataagtaaaa	tttattttta	taacttttta	atgtgtcttg	tatgtcttga	aactttgatg	106800
	aacatattta	ttaattccag	tgcttttggt	tgtagatttc	actccatggt	ctacaaagat	106860
25	gattaatgcc	attagtgatt	aaagaaaatt	ttagttcttc	ctttctgatt	gtggtatctt	106920
	tttctcgtgc	cttaatgtac	tgatagggac	cttcagtaaa	gtggttgagta	gaaatagtga	106980
	gagcagaaat	ctgtgatctg	ttcttgatct	tattaaaaaa	ttcaatcttt	taccataaag	107040
	cttgatatta	actgtggagt	tttccctaga	tgtctttttt	cagggtgaaa	atgctccctt	107100
	ctatttcgca	tttgttaaaa	gtttatatca	ggaatgaata	ctagaattgt	caaatgcttt	107160
30	ctctctgtta	agcggctttt	ttctttgggtg	gttttagtaag	atgggtgaatt	ttctttcttg	107220
	gctgtcaagt	gttaaagaat	taatgtttgc	agtcccaaga	aaaatccatt	tggttatcat	107280

ES 2 784 246 T3

gtactattat ttttatatat tgttgaataa atagcacttt ctaaaatfff tttcagaacg 107340  
 ctgacatfff attcataagg tatgttagtc tatagttctc ttttcttgaa atatctatfff 107400  
 ctggttttgg tttctggatg atgctggctc atagaatgat ttggcagata ataccactt 107460  
 ttcagttttc tgaaggtttt ttgtagatff gattttatfff cttccttgaa tgctggtggt 107520  
 5 ggcacttatt agtggtcac tgggcctgga atgttctttg tatgagtaca atttcttttag 107580  
 taaatataag actatactaa ttatffgtff ctttttgagt gtactttggg ggtttttgtc 107640  
 tttcagggaa tttgttcatt tcatctaagt tgtcaaagat attggcaaaa ggtgttcatt 107700  
 ctactttctg attattctff tagtgttfff aaaatctgtg gtaatgtcac tacaccattc 107760  
 tcttccttct gattttgata agttctgtct tctctcttcc tttcctaafc aatctgacca 107820  
 10 aaactttaac agttttaaaa taagcttaat gatattctta aataactaac catcatttg 107880  
 tttcctttca acaatttgta taaatttaag gggtagaac gcaattttgt tatatgagca 107940  
 cattaactcc taatgaagta ttgactttca gtgtatccat cactgaata atgtacatcg 108000  
 tactcattaa gaagtttctc aagccttcc ccactttcac ctcacccta cttccaaafc 108060  
 tccagtgtct atcattcaca ctctgttggt tttctgttff gtatttcatt gctttttggt 108120  
 15 ttgatattta ctatffttaa aacttactff gggtttaatt ggctcttctt tttctggttt 108180  
 cttgtgggtg aactgagga cattgttctg agaccattct tcttttctaa tactgagact 108240  
 gagactcaat gctctaaatt tttccctgag cactgtttat cagaatcca taacttttga 108300  
 catttcattt ttattcagtt caaactactt tctatffttcc atgttgatgt tttaaagctt 108360  
 tgttatttat ttaatttgaa gctatffgga gattttccag tgacttctat ttttcattcc 108420  
 20 aatttagtta tttcagaca aaaaatfff tcacaatttg aatctttaag tttattgaga 108480  
 attgttttat ggaaaaacat atggcctaac ttgaaaaatg ttccatgtac acatgaaafc 108540  
 aatgtgtatt ctgctgtcgt tggtagagt gttccacca ttttaatfff gtaagttgg 108600  
 ttgatggttt tcatactff aatagcctff ttaattctgg ctacttattc tatcagttac 108660  
 tgaaagaggt gtattaaafc ttctacaafc aattatctgt ttctccatac aattctatta 108720  
 25 ggttttgctt catatattff gttattaggt acgtaaagt cgtaaactag catgggtgtct 108780  
 taatgtattc agtctttcat cttataaaag tgacttttac cttttgctc taaaaatctcc 108840  
 ttttctgat gtaaatattg ccactccagt tcttttctct tggctagtg ttatcattac 108900  
 atatctatat ttttaaacfa ttctttacct tttgtattta tatgtgtatt tgtaactaaa 108960  
 gtggatfff tttttttttt ggtggggagc tgtatttatt tcccagggt gtcagaacaa 109020  
 30 atatccataa attgggtgga ttagaacaac aaaaatffat tctctctaga gaagaacgtt 109080  
 tcttgccac tcctggctg ctggctattg ctggcagttc ttgtccttcc ctgactagta 109140

ES 2 784 246 T3

	gctacatcat	tctcatttct	gcctctgtct	tcatatggct	gtcattttcac	tgtgtgcttg	109200
	tctctgggtc	ttcaagtggc	ctttttataa	ggacactggt	cattggatgt	agggcctacc	109260
	ccaatccaat	gtaacttcat	cttaaataat	cacatctgca	aagaccctgt	ttccaaataa	109320
	ggccacattc	acatgtactg	gagttaagga	catcaacata	tcttttggtg	ggggcagaag	109380
5	gggcaattca	acccataata	gtctgcctct	aggctctcaa	aatttatatc	cttcctatgt	109440
	gcaaaactca	tccacccccg	tcctaaccta	cacaaaatct	tagccctttt	cagtatcaac	109500
	tctaagttca	aaacctcata	taatgtcatc	agtttttaaa	agctccactt	ctcattttct	109560
	aatcatctca	aatcaagtct	ggatgagagt	ctgggtatgg	cctactctgc	agtaaaattc	109620
	ttcatgtgtg	gagctgtgaa	attagaggat	aaattatatg	ctttcaaaat	gcaagggtag	109680
10	taatagccat	aggattgaca	cttcattttt	aaaggagaga	aattggaagg	aataaaaggg	109740
	tcacagacc	caagatattt	ggaaataaag	cagaataaat	cccattagtt	ttcaaggcct	109800
	gcaaataacc	cactgtagct	tgctactctg	ccctctgggt	ctacagaagc	ctaattcagc	109860
	ttcagaatct	gcaaccctag	aggccccatc	agcctctttg	gtctcaaggc	aaacttggag	109920
	ttattcttcc	cttttcttga	agaatcacac	atgttcacaa	ctcattagct	ctatttgcct	109980
15	ttttgctgcc	tgtagatctc	agaagtctga	gagactctcc	ttcattttctt	ctcatctctg	110040
	ttccatcagt	caaagctggc	aatgtctttt	gtgctatcac	attaagtagt	gaattcaaca	110100
	gttaagccat	ctggtcctgg	actttcctta	gttgggagat	tttatattac	taattcaatg	110160
	tttttggttg	ttataagttt	gttgagagtc	tctacttgag	tcagtttagt	tatttcatg	110220
	tttctaggaa	tttttttatt	tcactctggt	gtctaatttg	ttgacatata	atttttcata	110280
20	gtgttttatt	gtaatccttt	ttcttccagt	ggggtaggaa	gtaatgtttc	tactttcatt	110340
	tctgatttta	gttatttgtg	tctcctctct	ttttatcttt	tttgtaagtc	cagctagaga	110400
	tttgtcaatt	ttcttgttcc	tttcaaagac	caatttttga	tctcgttgat	taaaaaaaaa	110460
	ttataagcaa	caaaacaaat	aaaaacaaaa	taaaatgaaa	gccagagtga	tagtgagagt	110520
	gagggcaagg	tgggtggggg	tacagggaaa	ataaccactt	ctcctggtct	ttgcagattg	110580
25	gttctgtgtc	aggaccctcc	tcaacactta	gacaggtttg	cactggctag	acaacagccc	110640
	acgatgaaaa	ctcaaggctc	tctgaggcct	ttgctgagca	tgtgtctttt	gggtacacat	110700
	gtagctttct	gaattttctca	gcatacttgt	ctccttttgt	taattttctaa	agaaacgctc	110760
	cctagctttc	agttttgact	ttaggtagtc	tattgtatgc	tttgacagtc	agcttttgtc	110820
	ataagcatct	gagggtcctt	actttggctt	gcaatgttcc	tggcaatact	agctgccttt	110880
30	ccagcctgag	tttccagttt	ggcaaaacag	agataaagaa	cttatgtcac	tcctacaggt	110940
	agccctacac	agggcagaac	tgataaacac	aatattttct	aataagatct	tattcttttc	111000

ES 2 784 246 T3

	actccagacc	aatgggaaaag	ggtcccacac	tgggaatgca	agctatagac	acttgaagac	111060
	caagactggt	caaagaggggt	aaggtggcag	gtcggggagga	agggagagta	caaaggtttc	111120
	ctagcatttt	aaagtacat	tttcttgatt	ctgtattttt	ttgattacta	taatgtttta	111180
	ctgtattcct	gaattctgac	aaagttgggt	ctgacaattt	ctgcttgttt	ccaatgtttc	111240
5	tgttgggaga	cgaaaggttg	gagcttcctc	atccatcatt	tcgcacatgt	ctaggtcaga	111300
	agtttctga	ttactgtctc	ttcaagtatt	tcctctgcct	catcctgtcc	ctgccaccct	111360
	ctgaagctct	cattacactt	ctgttagaca	tttcatgttt	tatctcagat	atctgatggt	111420
	ctgtttattt	cattcttttt	tgtctttgta	tttcattttc	aacagttttt	atagatgtgt	111480
	tctcaagttc	attgaacttt	cctctgcttt	gtagagtcag	ttgttaagag	cagctaataa	111540
10	attcttcatt	tataatattt	tccacttcta	atattttcat	ctgtcctttt	tatttctatc	111600
	tctctgctga	agtttgcaat	ttcttcaccc	atgttgctca	cacatccact	agatccttca	111660
	gcattttaat	tacagtattt	cattatcctg	atttttaaca	ggatgtgttc	cctctacaat	111720
	tattctttgt	atttaatgac	tgaagttggt	tttctgatt	gtgacctctg	gtgttttaag	111780
	gactttgggt	ttaatttggt	gtccaactct	tggcttcaat	ttgctctcca	gggctgacag	111840
15	gtgttcccaa	gctctggcct	gggactcatg	cttagtcagt	gagattcttt	ttatacagca	111900
	tgtaatggag	cacagcaaac	cttctctgat	ctatatcccc	atccctctct	ccgacaccct	111960
	tttgagactg	gtataggccc	cttcatgtag	taggacactt	agttatgatg	tcgctacatt	112020
	gaaacacagt	gaataatagt	ataagcctta	gaatagatgc	acctgcactt	aaatcccatc	112080
	ttcatccttt	ataagctctt	tgatttgggg	aaaactcact	tcactttttc	aagccttgggt	112140
20	tccttaaatt	gtaggttaga	cagaaaataa	tacaccttgt	agaatcattg	taaagattaa	112200
	ataaagaaca	ggggaacaca	gtgcctgaca	ttcattaagc	agtcactaaa	ctgtaattgt	112260
	tattatttgc	tttatgactc	taacctcact	gagctttaat	ttctttatct	gaaaaatgat	112320
	ggttatgttg	tataatagta	acacagtatc	atgtgccttt	ccctataaaa	taacatgata	112380
	attttaatga	ctaaaattca	gaacacaatt	tacaaattaa	aaagtgttct	tacacagatc	112440
25	acatttcccc	agaaactcaa	aaggcaggtg	ttgtgttccc	ttcctgtaga	tgaggaagct	112500
	gattctagga	gactgctacc	aggggtgggtc	ataagccagt	gtctgtgtct	ctttaatcct	112560
	ggttctgtgc	tttttacatt	gcatgagtct	aaactctgca	gggggaactc	aaccgttcct	112620
	attctttagg	ccaatataca	catatggtct	catgatttcc	tttcatttcc	cttaatgcat	112680
	tctaaaacgct	gctgatttgc	tgttttatgg	acttcttggc	tgtgtttctg	agtatttttc	112740
30	catgctgcat	ttcatttcat	catcttctgt	ctctatttcc	aaatgtagct	atgtgttcag	112800
	cctgggtttg	ctctgtgagg	tgttatttac	aatacttact	aatttaatct	ttgttcgggg	112860



ES 2 784 246 T3

	aaatccaagg	agcaattgca	tacttctgtg	aatcattgat	aattcaagcc	tggaaaaatt	112920
	cacctagcac	taggatcctg	ctcttttttt	gttcagtgcc	atatgtatat	atagtgccat	112980
	acgcatacat	atgtacagcc	ttattccatt	ctatactgta	attgatgta	ttttgattgt	113040
	tttgtagccc	tttgaagcag	atcccattgc	ctacaaaatg	aaaatgggta	aatatcattc	113100
5	acaaaatggt	gattgattgc	aagcacggtt	taccatacat	ctaatatgaa	cagtaatgta	113160
	ttccctaadc	acaaattctg	gatacaaaact	cagaagccaa	aaatgtgtga	cacttaaaac	113220
	ttgagaaaagc	caaaactaaa	aggggaattca	cccagccatt	ttcctgttcc	cagcagatga	113280
	aacatacaca	gcaacctgca	gtaagtcaca	tatgatgcac	ggcacatgtg	ggcagtcaga	113340
	gcctaccacc	acactgcctg	tccccagacc	tttctggaaa	gcatccttgt	attaactctg	113400
10	gatttcattc	tagcattatt	tatctgactg	tttcttcatg	tacatggagt	tggaggcttt	113460
	gttaaaaaat	ccacttaaaa	tactaatttt	aactactttc	ccgggtgtgta	atgcatttct	113520
	aggatgcatt	acttaatgca	gtacatcaat	tagattatag	aatttaacac	cggattcaaa	113580
	tatatattta	tttggttaga	atagcaagca	attataggaa	gaactcagcc	tgaagaagga	113640
	gttttagttt	cccatttctg	tggttggtca	ctactaataa	tattatagtt	gctatgattt	113700
15	tagagtttga	ctaaatatca	ggcactctgc	tatataaata	cttgcttttt	tttttttttt	113760
	gagacaggac	tttgetccat	tactcaagtt	agtgtgcagt	agcgtgatct	caactcactg	113820
	caaccttcac	ctcctgggct	caagtgttcc	tctgcctca	gcctcctgag	tagctggaac	113880
	tacaggcatg	tgccatcatg	cctggctgat	ttttgtattt	ttgatagaga	tggggtttcg	113940
	ctatgtcacc	caggctgggtg	ttgaaactct	agactcaagg	gatcctcctt	cttcagcctc	114000
20	ccgaagtact	gggattacaa	gcttgagcca	ctgctcccgg	ccaatacctg	cttttcttta	114060
	atgggtgctg	gtgaggttaa	aatgaaatta	tttctgtaca	aggcaactga	atggctcttg	114120
	agtaatcata	aagaacattg	tcatggttta	gatgcgtgtc	tccccagcc	tcatgttgaa	114180
	atgtgatccc	caatgttggg	ggtgggatct	actgggaagc	attaagttca	caggggcggg	114240
	tcctttatga	agggcttggg	gccatcctca	caataatgag	tgagtttctca	ctctattagt	114300
25	tcccatgaga	gctgattggt	aaaaatatcc	tggcatctcc	tggtcacaca	caggttcccc	114360
	ttcaccttcc	aacatgagtg	gaagcctgag	gctttcacct	gacacccaat	cttcagcca	114420
	gcagaactgt	gagccaaata	aacatttttc	cataaattac	ccaacctcag	gtattcattt	114480
	atagcaaaaag	aaagagatga	aaacagacat	taaatgttat	atatattttt	taaatttttg	114540
	tttaagattt	tttttttacc	agtaactgac	aagctaattt	agtatacact	gttcacttaa	114600
30	tatgtttttc	agtcttcata	acttagatct	tgttggattt	tcggcctcaa	atattcttac	114660
	tccttttccat	caagatgtct	gtaaactctat	ttaatccttc	aaagtataat	ccaaatcctt	114720

## ES 2 784 246 T3

	ctatccttga	agattttcag	atttttccaa	acaaggtaat	ttctttttcc	tctgaatatt	114780
	catagctttt	aaatctctgc	catagcaatt	gttttctact	ttaaattgcc	actggctgcg	114840
	tgctctcttt	atgtgctctt	gtgaactatg	agcccctcaa	agccagaact	tatgctatat	114900
	aaatattttt	tctctctctc	tgaattaaaa	aaacagtacc	atatgactct	cagtaaatag	114960
5	ttgataggca	ttgctgaatg	attttcaatt	ttatctaata	tgggcaaggg	ttgcaggact	115020
	gcaaaaatatt	ttttcactac	tggttttgag	aaaaggtaca	acggatgaag	tgttcaatgg	115080
	cacttcctca	aaaacctggt	gaagttctat	catttggcag	ttggctagga	atcatacagg	115140
	gcatttatct	ttgaaatcag	tgttctcttt	gtcttgaaaa	gggtaggcct	gtcatgctgg	115200
	ctcacgcctc	taatccccgc	actttgggag	gccaaggggg	gcaaatcacg	aggtcaggag	115260
10	attgagacca	gcctggccaa	catggtgaaa	ccctgtctct	actaaaaata	caaaagttag	115320
	ctgggcatag	aggcacacac	ctgtagtccc	agctacttgg	gaggctgagg	caggggaatc	115380
	gcttgaacta	ggagacggag	cttgcaagtga	gccgagatcg	caccctgca	ctccagcctg	115440
	ccatctcaaa	aaaaaaaaag	ggggtcacat	taggaatttt	tttttttttt	gtaatgctta	115500
	tgtataagaa	accagcttgg	aactgagagg	gaagtgtttt	attagtcatg	caaattgagt	115560
15	ttattagcaa	gatggtgccc	ctgtagagtc	aggtaaattt	agtgtgtggt	tgtttatgtg	115620
	tgtttggtat	ggcttttgtg	ttttctctca	catttggatt	tatagtgcag	tctctaaaaa	115680
	gtattgcttc	ttttgggaaa	tgtgtctctg	aaactgcctt	tgaagaatta	taggtaatga	115740
	gataaatcta	atatgaatga	ctccaccttg	cttctaacct	cacagactat	ttttattttc	115800
	ttaatctagc	atggaggcca	agataactat	gagagaaatt	tagtttttagt	taaactttga	115860
20	ggctagggaa	attgccctc	ctccttgctg	gaagattgaa	gccagattca	tagggcaatg	115920
	ttagaattat	ggcacagggt	gtacttttct	aaagaatagg	cattgttaaa	ccataacctg	115980
	ccatggctta	gcttgttttc	ctgtaagttg	tttgctgccc	caaagtcatg	taactgggct	116040
	tgggtaggtg	gggggtgtta	cttcccacct	acatcatcac	catagacaac	atcaccactg	116100
	agatattttt	cagattttagc	atttcagcag	accaagagct	gccaccaagt	tctgagactc	116160
	cctcccaaaa	actgactcag	ctgcatgaag	gctgttttag	acacctctgt	gatttcatca	116220
	gttgtttcag	tttcccagcc	ccctgcttgc	caaagtaccc	taaaaaacc	acaccttcaa	116280
	attctcatgg	aaggggtgggt	ttaagaagtt	tctccctggt	ctcttcaact	ggctggcatt	116340
	gtgatattaa	actcatttct	ttgctgtaat	acctgttctt	ctcagtacat	ttgactttct	116400
	cggcagcagg	ctagatgaac	ctgttgcact	attaccactc	ctctatccaa	aatccaccag	116460
	ggcagttatg	ggtcagaact	ttagaagatg	acagaaggcg	aaggtcatct	ttactttgga	116520
	tcccagagga	caacaactaa	ccagttagca	gtgccattgc	cacgctgggt	tgttctatac	116580

ES 2 784 246 T3

	taaccataa	ggaatgcttt	tcagtgaaaa	acctaggctc	taagaaaaca	gtgatcaaat	116640
	actttgtttg	cctccactag	gtcagagagt	aaggtgagggc	acacttggggg	cctgggggtga	116700
	gagattggct	atcgccagct	gtgcattata	gagaagcact	ttgcctgcag	aaggaagggga	116760
	ggcttctgtg	ttgaggaaaag	tgctatcaag	aaaattaact	tagagtgttt	tctgagaata	116820
5	agcaagaggg	aaagccaaat	catttatag	ggaaaatatg	gaaaaagttg	aggggattta	116880
	gaaattttct	agggatggat	aatccctctt	ccaaatgtga	aatggcctt	tggcaactta	116940
	gaaaagcaac	agaatagaat	gatttttcaa	ttcagagtca	aggattgtgg	ctaaggttct	117000
	ctctcttgg	tttgggagga	tgatgtctgc	aggacagagg	gaaaaagtca	gaaagcggac	117060
	ataccagaac	tgtgtggctt	caagcttatg	ggtagaacca	ttgctgccag	tgcatctagg	117120
10	tatctgcttt	ttcaactgtg	accatatatt	ttggtgttat	aattattttc	ttaagaaact	117180
	atacgttttt	attggggctt	actatgacc	cagtatttta	tctaggtagg	ttataacatt	117240
	aaatatagta	ttaggctcac	tttattttat	tttttattat	tttttaaatt	tgggggggtat	117300
	ataatagctg	ttaaaatttg	ttttaagtag	tgttcctcaa	cagagcctaa	aacgcaagac	117360
	aaagtaagt	aaatcttaaa	tctaattgct	tcagatatgt	aaacatttta	tagaaaataa	117420
15	aaacaacaat	aaaacaaata	aacaacatca	ctaccacccc	caacaaaaca	accaaaccag	117480
	ccaaaaggat	caagatcttg	taagataaat	ggacagtttt	ttatattcat	acctagagtg	117540
	tctgtgatat	ttagtattaa	tattattatc	ttccattcag	cttcgtttta	atatctttca	117600
	acatagtcta	atatttcaat	aatgaatta	tttttctggg	aaaataccat	gaaacattgc	117660
	attctgaggg	tcatccaatt	acattctgag	caagtatcat	cttacggaaa	agaaacaagt	117720
20	tctattatgc	cattgagttg	agcacttcat	atccattttt	taattcagtc	tccttaacaa	117780
	ccctgcaagg	ttgttgttgt	tagcttcatt	ttatagttgg	ggcaagtgaa	gcttgatgac	117840
	atltggtaac	ttgtgcgaag	agaactagag	ttcataaatg	gccaaactta	ttctaaagcc	117900
	aagtctatag	gcttccacag	tgcatttcct	gaaccgccat	gctagacacc	ccctgggtaa	117960
	gagcgcttct	aactccaaac	ttctgtgatc	tgagagaagt	tggaaaagca	acagaataga	118020
25	atgattattc	aattcagaga	caaggattgt	ggctctcttg	gttttggaag	gatgatgtct	118080
	acaggacaga	ggaaaaaagt	cagagaaaaa	agtcctgata	atgagaattg	acaagcact	118140
	aaaagatfff	tcacctttta	ccaaatfff	ttctatgtcc	ctggatcttt	ctttaattaa	118200
	ttatgaaact	tttgattgct	taagtatcat	gtatagtttt	gactttatft	gagaaatgtg	118260
	cattttgggt	aaactcatct	tgagtataat	gattgttatg	tttactagat	ctaagaaatt	118320
30	aaaatatcta	agtctttgta	cactaaagaa	gtacaggatt	atfttttaaga	aagcaactca	118380
	tatgtttggg	aacatctgta	tacatcatta	atfttttctt	ttgtttgtag	atattcatta	118440

ES 2 784 246 T3

	ttatgtagac	accactctgc	tttaaactctt	tgaagatcaa	ttttgagaaa	tttgatagtg	118500
	tttggaaaca	acagtattct	gctcaactgg	catgagatcaa	aggtccacat	tacccttagg	118560
	aaaaaaaaaa	aaattattgc	tttctgtgag	gggtttttaa	gatgtgacat	ttttcaatat	118620
	ctgctttata	acttttgatg	ataaaaaaca	aataataaaa	aattacagca	gaaaacattc	118680
5	tttgaaggct	tataatgtgt	caagttctat	taaaaatggt	ttatatgcat	atttaaattc	118740
	atcctcatag	catccccaag	agatagaggc	tattagaacc	attttacagt	tgggccaaat	118800
	tcagtcagct	cagaagtgc	agttctggga	attttcttct	ccagagccca	agatttttaa	118860
	cattgagcat	atttccttct	aaagcatatt	gccaaatact	atagaaggac	cgtgaattat	118920
	accttgatg	tcaggctacc	atcttgaaac	taaattatga	gtgaaaacat	tttgtttggg	118980
10	tacatTTTTT	atatttAAAA	tacatTTGAA	aagaattTGG	aatgtgtTAA	agtcagagtc	119040
	atatattgag	acctcgtatc	tgaattgaat	tacttttaaac	aaagtggaaa	gaactTTTTc	119100
	catcaatttg	aaaagtaaag	taaaagacag	aaagaaacag	agagattaaa	tgtTTTTccc	119160
	ttatTTTTgta	tattgtgggc	agtgccattt	atottagcta	tgtaataaaa	cactggattt	119220
	tcagaagggt	tatgcttcat	ccttgcttta	tgctgtaatg	tagccacaca	gaatgtctct	119280
15	ttatgTTgac	tgaagttaat	atatgcatct	tacTTTTtaa	tattgcatca	actatagtca	119340
	tagtggtgga	aaataataat	gctctgtggt	ctgcactatg	gtggatgttt	tataaacagt	119400
	atctgcaatt	attacaaact	cctattagag	agctatgtct	aaccttattt	tacatgtaag	119460
	acatagaaat	tcgaagttcc	cagaatcagt	gagtagtaga	tttgaactga	gttttaacac	119520
	aactctaaag	cccaagcctg	gcctccttcc	gctgcgcaat	tctcctccag	agggaaaggc	119580
20	tagcaccatc	cctaagaggg	gccgaaagtc	ttctaagggc	acctgaacca	ttgtgaagaa	119640
	ttgtgttaat	aaccagtaa	ttcacacttg	ttcaaatttt	cagacatttc	ctgggatgca	119700
	gtcaaaaactt	ttaggagtct	gaagcctgag	gctgcctgct	ctctgctgct	gattatagag	119760
	ctctctagtt	gatgagtggg	gtcctggagc	tccctggcca	tacatacaca	gtgctcatgg	119820
	gtcgactgta	tggcaccagc	ctctgctgct	ctaccctttt	cagccttttt	ttctggaatg	119880
25	catgctgagg	tctccttgt	gcctttgaaa	tttttatgaa	gaggggtgatt	atTTTTggta	119940
	cagcaaaata	tgtagaattt	gcacttctta	ggaattaaac	atctcaattt	ttttccccca	120000
	gagaaaataa	ctcttgagca	agggaacact	catctcaccg	ctcagacttt	gaggtggccc	120060
	tacatgtata	caagtttggg	ggaacatgag	aattccaatt	aaattctggg	aaatccagac	120120
	atatattcaa	caagtattta	ttatgtgcca	ggcgttattt	tgagtgctag	aaatataatg	120180
30	gcaaataaaa	cgaaaagaac	cctgatcctg	atggagtgtg	cgtctaataga	gaaaaatata	120240
	caataaggac	ataagcaaat	aaattcataa	tatagcatca	gagggcagataa	acagtagaag	120300

ES 2 784 246 T3

gaaaagtacg tcagtgtaag gcacagagag ctcccggggg cagagtgttt tcattaggtg 120360  
 gtcagagaat atcttggttt tttgtgagca gcttcagcca aagtaagtaa tcaagaatta 120420  
 tacttgaaac gattgggttc cagatgttaa gtataacaaa tattaaaatt cctcgggtcta 120480  
 acaccctact catcttccag ctgctttaat tagagtagtt tctatgtgtt ctacaaatag 120540  
 5 ggcttccttg taaaattttc tttggagatg ggtttcatat ctgagagcac tgcctcagac 120600  
 caaataaata ttaacacagg aggaagctga gcgtcaaagg gaagcagtaa cttggccaag 120660  
 gatgccagtg ctcccagtg ccaagggaaa cccaggctgc ggtcctctct gtccaagctc 120720  
 tgtcctcggc cctcaggtcc tggcctccag cactgagagc aacacagagt gcctgtgagg 120780  
 cggctctaact tctgctgact ggtgaaggtg gatccccag cccaggaaa agtcaaccag 120840  
 10 cagcttgaac agcgttccc tcgcgaggc tcagcactca gctcatcccc cgccatcggg 120900  
 ctgtaattca ggtgccagcg ttgctcctcc agcaggaaca taagcccaa cttacaaat 120960  
 tcctaaagca gaacaaagaa agtgtcagag gggaatgggc acggagcctg tggaccgcac 121020  
 tagaatcttc taattcttag gaatgcagat cgccctgtgt aaggggcccgc tcagagcggc 121080  
 cgaggagcgc cgggtggcctc ccttggatgc ttcgctatcc atcccacctt ctggaagagg 121140  
 15 ctattctttt gtggctgtct tgggtgttgg ctgagttgtt attgaattcc tccctgactt 121200  
 cttttttttt tccttcggaa gacagaagaa aagaagccgg cagtggaggt cttctctggg 121260  
 aagcctcctc ctctgcatc tggctgctcc ctttggggca gcttgggtccg cctctctggg 121320  
 cgccaggtgc gtctgcagcg ctctcctgga ggccggctgc aggttcatta gtgctcacia 121380  
 taggcacgca gcgcagggga atatgtaaag aaagtggagg acatcggagt ggcattcaaa 121440  
 20 gcggcaggcg ggagtaggag tttccctagc ttttcttctt ttgtttctaa tcaccttttc 121500  
 tgtttcttca gagaggatgc taatagagtg aatacctggg cgttocagga gaagagttag 121560  
 tggaggtttc agaaaaggaa atgcaatctg ggacgaaaaa tagcttttct tccccttggg 121620  
 gtgtgtgtgt gtagtgtctg aatgctttgc caccgatgag gccgaggact aaaagcagga 121680  
 taaaggctgt gattggcaca gaagaccctt ggtgaaattt ctggctcagg tacttagcttt 121740  
 25 ctgtgagtcc tgtgcaattc ggcacagccc ttggggcttt gagtcccttt tttttttttt 121800  
 tttttaataa aataagagac ttggctaata ggatttctag cctaccactc ctttacagtt 121860  
 ttaagatata attttaaaaa gttacatttc aagactgtag taaggaggtg acattatata 121920  
 cttaaacata aaaatgtgga gtgatttgaa gagcactgaa attattccac tcttcaaagt 121980  
 atatgcattt atgtatacat acatgtacat acacgtgtac ataaacaaac atatacatat 122040  
 30 agtcattttc agatgcctga aattctgtcc ttaaagacag ttgtgaatcc cagttctatt 122100  
 agtatttgac tgtgaccctc ttagttttgc ctactgtctg caagactcaa tttttctttt 122160

ES 2 784 246 T3

tttcctcata atgggaataa atattgtctg tcttctaact gtgttatgat atttaaataa 122220  
 ggaaatgtgt tgaatggtag ttcttcttgt ctgaaagata agaatacatg ggtgccatca 122280  
 tccaatctca aagtcattgg gttttgacag aaatggtatg atgggtaatt atcccatttc 122340  
 tccaaagtca ttaggaacct gaagtaatth ttttaaactt gtttttcatg cacctgtggt 122400  
 5 ggctagatca cagagcctgg gcccatcctc ttgaggaaat attatctgcg tcaaccttcc 122460  
 tcaatgcctc ctggatgact ttaccacat cttgcaaatg tctattattt gttagctcta 122520  
 gaagactcag agcaatgatt gcaccaatct gaaggttatt tcttccatgc tggctctctg 122580  
 ccattggtga tattacagat gtttgtccag aacattactg atgacagcta cacacctgga 122640  
 aaataaagt tcttgtttgt tccttccaaa ttaatthtct gaatgaacac cagcaactca 122700  
 10 aaatgcattc agtttcagaa ttcaaagaac agaagagcaa atttgagggg cactctggca 122760  
 cagtagaggg tatgtacaat cattgaatgc aaagtcttht acattthtacc ttacacgtca 122820  
 atctcagcta atcaggcttht atthttcagg aaagtgtctc agagcagaga agcaattctc 122880  
 aacaagacaa agctactata atagcgactt gtggagtcac gttagaaga aaataggcag 122940  
 agaagtggac tcttgacggg agtctcatcc atcattthct ctctgtgcaa cctcaggcag 123000  
 15 ggtacataat cgatctaact tttagthttc tcttatgtaa tctggagata ataacatata 123060  
 ttttatataa ttattgtgag tattaataac caaaacctt ttatgtcaca tgtttagcat 123120  
 agtgtctata tcacagtatg tgcgtcatat gaaactcagt gctthgtacc cgctgattcc 123180  
 tggatgaatga aatacggatca cacatcacia tgactgtctg ctgaaatgcc aaaatctctc 123240  
 ctgtagttca ggaaccagag taaaggaaaa tgaacctgt agtgthttta cthtttctct 123300  
 20 cthtttagag aaagatcatt tgcattgtgc tccacctta taattgcatt tgtaatgctt 123360  
 tcatgttctc acatggtcta acccccagga tcttatctta ataaaaattc agttaaacad 123420  
 gtgttcaaat tggccagatc agccaaatct ggaacagggg aagthgttht cctcctaatg 123480  
 aactgtccc tggacacggg cagtgcaca gaagthcagg aatathatt gtccatggca 123540  
 tttccaggag ttacactctt tgttgaacct ttccatctg ccagggggag gctggtgatt 123600  
 25 cattaattca ctgtgatgat ttgtcctaatt tattctaatt actgccttgt ctctcagac 123660  
 cagctggtgc ctaaagcaga gggaaagtca ccagctatga ggactgcggt ggtggctgca 123720  
 gaatcccggg cactggatct gtaggattca ctgtcaccac atcaaaaaag cthtgctgct 123780  
 gctgctgctg ctgctgctgc tgctgctgth gctgctgctg ctgctgthgc tgctgctgct 123840  
 gctgctgctg ctgagcccaa cttatcttgg gtgctgctct ggctgagtc cgggttcccg 123900  
 30 gggccctgcc atgcatgcat tctctctct gctctcttgg tacctthtca gggagagaag 123960  
 agccctgata caggttgctt ttctgtcttc ccagcttct gcccaccaa ttccagacag 124020

ES 2 784 246 T3

	catctgctgt	gtgttctttg	tgaccccatc	cctgtctgaa	cgtatcttaa	accagtctg	124080
	gtttctaaca	actgtcgata	ataaaaatat	ctatctctta	ctgcacacta	tcaagtgcc	124140
	agatggatgt	tcattgccat	atgtgcactg	tctctaagtg	ctacagtttg	cagtcttagt	124200
	tcatatatta	aggctctgca	tgacctagag	actagtttac	attgccagc	aagggagtaa	124260
5	cacatggaac	tgaatcccag	attgctgcat	cccaaagtc	ggggggccct	ttatgogtct	124320
	ctcttttccc	ctcccacaag	ccttcctggg	catctacagg	actcctgctg	aaaccttct	124380
	tcgggtcttt	atccctgagc	tcctttgctg	tgataacata	gactgttctg	tctggcagcc	124440
	ctgggcagtc	atcagtgttg	gctttgcagg	tcagcttggg	gtccccaacc	aggattcctg	124500
	aggccacaga	atcttgctgc	aaacacagct	agtcttggag	aactcatatc	tgtgcctttc	124560
10	tgatgtgctg	tatcacccca	gcctgccttg	tgtttctttg	ggatattttc	acagctcata	124620
	cttcagtggt	atctgcctct	taagtcactt	acccttatt	actctgaaca	aaactggaat	124680
	ccgaaaaaaaa	caaaaacaaa	aacaaacaaa	caaaaaacac	tggaactgtg	gctcatctct	124740
	cagggaatga	gctgacactt	agtagaatct	atgacatgag	ggctatgtta	gagacctga	124800
	aatgaagctg	ggtgaaaaat	atcaaggtgt	tgtgagtgac	aaagatgata	ttccaaagat	124860
15	tcaactgaga	aagagtcagt	gtatcttatt	attaaaattg	cttctgtaag	agtcatcata	124920
	agcttgactt	gtatctcttg	accaactctt	atctctattc	atatctcagc	ttaactgtca	124980
	tttcttcaaa	gaggcagaca	tcccactctt	acaaactgta	ggccaccagc	ttctgtcatt	125040
	ttataagaac	aggatgaatca	cttcacactt	gaacttattt	acttattttc	tttttctttt	125100
	ttttcttttc	tttttttttt	ttttttgaga	caggggtctgg	gtctgtcacc	caggetaaag	125160
20	tgcaatggca	tgatcaggcc	tactgcagc	ctcgatctct	ccggctcaag	ttatcttccc	125220
	acctcagtc	cccaagtagc	tgggattgag	ggcatgtgac	aacatgcctg	gcttatttat	125280
	ttatttatgg	aggcaagatc	ttgctatatt	gccagggcta	gtctggaatt	cctgagctta	125340
	agtggctctc	ctgcctcagc	ttcccaaat	gctgggatta	caggagtgaa	ctactgtgcc	125400
	tggccttgaa	cttattttct	taatgcttgc	tttcccaagt	aggctgaaag	ctttgggagg	125460
25	ctaagaggca	acatcttgta	attacctgat	attcttagtg	ccaagagaag	gctggctctg	125520
	ggcaggccgt	ctgcccattg	gctcgacaag	gcctgtattt	atgtatctgc	aggcaggccc	125580
	ctcatttgta	ggcgactagg	tcttcttagg	gattcctggc	catactagga	ggatcatctgc	125640
	agggacgcct	gactgatgg	ggagtccttg	agagccagct	gactacagct	ctgggatgat	125700
	gaggggtggga	aaattgtcca	gttagaagaa	atactgaaaa	cctcaatgga	caactggaa	125760
30	cttcaggaag	aatgggtggg	gacagaaaaa	aggaaaaaaa	aaagagaaga	gtgaatgaac	125820
	caaagtgaat	gagcctcatt	tctagatcta	cagacttttg	ataacacctg	gcctgtttat	125880

ES 2 784 246 T3

	atcacaaaagc	tgctaggcct	tacaaaaacaa	attcaaaaaca	aaaacaacaa	aaagccatga	125940
	agagctatct	acgtgcaaga	ggttttatat	ttagttgtgc	tttattttac	taaccaaact	126000
	gaagactagc	ttgctggggt	ccatttcaca	ctgccagctc	ttcactgtgt	gcattcatga	126060
	gcctgatgct	aatgagacct	agagtgatct	cataggcaac	ttgcaacgtt	caggctggac	126120
5	aggtaagtgt	gatgtgttgt	gttcaaaagg	aacagatggg	ttaaatttaa	attcaaattt	126180
	tgaaggaaac	acaagacaa	agtgaaactc	tttgaatggt	agataaaaat	gttgatattt	126240
	attaatgatg	atatcagatt	taatggaatt	tggttgaact	attaaactgt	ccactaagta	126300
	gaaattaatg	ccagttcttt	gatcttttta	tataattaca	gtaataattt	agacttttct	126360
	tgactgcaac	tctggggaga	tgtaatgata	gaaaaaacia	accaaacttc	agggcatatt	126420
10	cagcatgatg	tctgataaat	taatgctctt	gatcgtaatt	tgaaaaggag	ctcttgccct	126480
	gcaggaagct	gaccgggaaa	cagaagcttt	attagtgcag	agatggcatt	gactacacct	126540
	acggtttatc	tccactctgc	tctgaagcag	caaaagtagt	gagacacgga	ctgaaacagg	126600
	atgtagtgg	tctgaaggag	cagatacatt	taagcccagc	ttcatgcagt	ggaaagggca	126660
	caggactggg	gctaaggaaa	tgtgtgttct	acttagagtg	accaaggaat	cagtcaaatt	126720
15	cttttttgag	agttaagggg	aatcatttaa	taattatggt	gaggtaatac	gtgtgaacta	126780
	gaacgatcct	tggaacaatca	ggacccta	ttggctcaag	actagtcact	taataattct	126840
	ctcatctcat	gtgattctct	tagctttctc	ggatctcagt	ttccttattt	gttgcaattc	126900
	ttgcctgtaa	acccttaaga	gtgctaagag	aataaggtaa	gagaacatat	gataatgaaa	126960
	ggttggaaat	aggaaggtga	aaatagtc	ttggtagcat	tgttctgatg	aagagggtaa	127020
20	agctaattct	cccataaatt	atgtgtgttt	cccctgttga	ccagaagaat	gaagaataac	127080
	tgagacaaaa	attctattta	tttcatagca	tgatgtggcc	acacattcta	aatgttaaag	127140
	ccttagtttt	gggttaggag	cttacatttt	agcaccaagt	ttccctgtta	ttatttttcc	127200
	tataggactg	tcaagattta	ggcaatatgg	cgcctttaa	acataaaaat	taactttact	127260
	catcaaaaagc	acagatgact	accaatctca	agcttttagt	ccaaatgaaa	attcagtgta	127320
25	aataccttta	gtacacagaa	ttccagctga	atgggaaaaa	aaactgatta	actcatattg	127380
	tattatttgg	tgagaaatta	ttctttcttt	ggggctattg	ctgagtacta	agaaaagaaa	127440
	atgaatatcc	aggatctgct	gctactcccc	aaaaaatata	ttattgtctt	ctttcttctt	127500
	gaattttcta	agggccccag	tgagggctgg	gcccttcac	atgccgtggg	agctaagctt	127560
	cagagccagt	tgccagggat	cggaggctca	gcaaggctca	ggagagtatc	caaggtcaaa	127620
30	cagctaacia	ggaaaggagc	aaagactgaa	gcaggtgaca	aatcctctat	gctctctctt	127680
	aatccagtca	ctaaccctac	ctttggtagg	aatctggaaa	taagaggaga	gattaagtac	127740



ES 2 784 246 T3

ttttcaaagt ggtacaaaag ggaagttttc tgggatttta ggatgggtgtg catatatgct 127800  
 gaagtgtgct tgaaaacaaa ataaaatgca ggtgtggaag aatttttaa aaccattgta 127860  
 accaaggggt tgattgacta atataatggt agcaataata cttgccatct gcaattttgc 127920  
 cattctcata agaattgggt tagcttaaaa acattgaata gctaagcatg tgtttaaaaa 127980  
 5 actctacttt aaaataaaat agatttaata tgttatttga cttcagacag gtcttatgtg 128040  
 atgatttgat atagatcatc aatactgaaa tgaacctatg tttcatttga gaatatctgg 128100  
 aaaagagaag tgtgaatgtc agatttcaaa tcaaatatt tctattttta aatataatca 128160  
 tcacaatact tttaaagctc aatgagctta ttttatccta catatgcaaa ccagagtaag 128220  
 gttaagtatg caacttcatc ttgccaacag ctgtaaggggt gaccatcacc tgggaactcc 128280  
 10 caaaaaccct aaaagcacct ggctgggctc gcttgctga agcaaagatg cccagtggga 128340  
 ggatctcgct ccatgaagag gcaactgagag ggccagtgat gctagcagac agagaaaaag 128400  
 gcattctgct gcaggaaaag ggcactagcc aaaccgggtg tcccacagat cactagcaca 128460  
 ctatcaagtt ggtgggactg taaactagtt cactagttca accattgtgg aagtcagtgc 128520  
 ggcgattcct cagggatcta gaactagaaa taccatttga cctagccatc ccattactgg 128580  
 15 gtatataccc aaaggactat aaatcatgct gctataaaga cacatgcaca catatgttta 128640  
 ctgcagcttt attcacaata gcaaagactt ggaaccaagc caaatgtcca acaatgatag 128700  
 actggattaa gaaaatgtgg cacatataca ccatggaata ctatgcagcc ataaaaaatg 128760  
 atgagttcat gtcctttgta gggacatgga tgaaattgga aatcatcatt ctgagtaaac 128820  
 tattgcaaga acaaaaaacc aaacaccgca tattctcact cataggtggg aattgaacaa 128880  
 20 tgagatcaca tggacacagg aaggggaata tcacactctg gggactgtgg tggggtgggg 128940  
 ggaggtggga gggatagcat tgggagatat acctaagtct agatgacgag ttagtggggc 129000  
 agcgcaccag catggcacat gtatacatat gtaacaaacc tgcacattgt gcacatgtac 129060  
 cctaaaactt aaagtataat aattaataaaa aaaaaaaaaa aaaaaggaga gcctcgtcaa 129120  
 caagatggag tgaaggtaga cgggtgcttc agtccctgta agacaaggca gggaccggca 129180  
 25 gggctcactg agcacttgca ataagttatg cacagagacc ttccctatat tttttcatat 129240  
 atgttttact gtaacccgat ttagtagata cccttttata aatgatgagt tcctggaatt 129300  
 cttggaataa agagcgatta gattgcttgc ccaagatgac agttataagt gatgaagaca 129360  
 agatttgacc ttctgtagta ggatttctct ttctgaattt ttaaccactc acaaaaataa 129420  
 gtgctttaa acctagagga tttgaggatt ctaatagtta ctagaggaaa gagatgaaga 129480  
 30 agaggaaata gggcaaattt ttttagtatt atattctagg ccgattaataa aaatctatta 129540  
 gtggacttga tcatttgtta caaaatttcc tgactttttt ctaatgaaaa cacagagact 129600

ES 2 784 246 T3

cagaaacatt aaacaagatt tcaacatcac tcagctaaaa caaagatgaa aggaatTTTTg 129660  
 catctgtgat tgcagtcagt attctctcca ctattatatg ctgtggagat atgactctct 129720  
 gagaaatagt gaaacagaaa atattggcct catatctctt cttgagtggg actggctggg 129780  
 gcacccactt tcttccattc tgcattTTTTg aatattgaaa ggcactgtgt ttcaacattt 129840  
 5 ctctaactct gccctcctaa aataaaagcc tttgagtctg ctctcacct gacggtcaaa 129900  
 atatatctgt gtcatgccat agtccctcgg acttttacta ggggacttat tgcctaattg 129960  
 tacagacaca ttttatatgt gtttagtatg gtttaataa acgtgctcca tcgggggaat 130020  
 tggTTTTaaa ttgtgtcttt atgagaggaa atgatttatt tattcaacac tattggttga 130080  
 ggtgtctctc tggaccaggc actgggtacc ttacatgttg gcatgtctga caccgtggca 130140  
 10 tatttagtgt ggcacttagg ggtcatattt tctattttgg tttttttttt ttttttgaga 130200  
 cagagtctcg ctctgtcacc caggctggag tgcaatgggt agatctcggc tcaactgcaac 130260  
 ctccacctcc caggttcaag cgattctctt gcctcagcct cccaagtggc tgagactaca 130320  
 ggcacgtgcc accatgtctg gctaattttt tgtattttag tagagatggg gtttcacogt 130380  
 gttaaccagg atgggtctcaa tgttctgacc tcatgatctg cccgccttgg cctcccaaag 130440  
 15 tgctgggatt acaggcgtga gccaccgctc ctggccatat tttccatttt aatattaggg 130500  
 agtatattag agacatagct gtttctcaca tagaattatc tgtccctact gcataagtta 130560  
 acataccagt taggtttccc caaagctccc atccttgttt ctcatctctg ctttttagaga 130620  
 tactggggac aggagaagtc tggtcacctc tctaccacca aggagccaaa tgtcaattac 130680  
 acaagtctc cgatttatag tttctccatt aatagagtat ggctaagtgt ttatatTTct 130740  
 20 gatttcttag gtttttcatg aagatcatcc aggattgtag atgaaaaagt actataaata 130800  
 ctgaaatgta cttatcctat gtaacatcat tattttatgt aataaatcaa ggccctctgtt 130860  
 atggtttgat tgtggtttgt tcttgccaaa atttatgttg aaacttgatc cccagtgtgg 130920  
 tagtgttaag aggtggggcc tggctctggg catgcaacc tcatgaatag cttaatgccc 130980  
 tctcaagggg tgagtgcatt gttgctctca tgagaatgat tagttctcct gtgagcaggt 131040  
 25 tgctaaaatg agtctgcctt cctaggTTTTc tctctcttga catatgatct cttttcatac 131100  
 atccccctac ttttgTTTTt cccatttagt gaagcagcct gagacccttg ccagatgcag 131160  
 ctgcccattc ttagactttt aagtcaccag acttatgagc caaatcaatc tcttttcttt 131220  
 aaaaattacc cagcctcagg tagtgtgtta tagcaacaca tagactaaga cattctctaa 131280  
 gccacatccc tgaaaactgt tttagaacct gcatctatat aagggtTTTT taatatactt 131340  
 30 ggtgtcagaa acccaccctt tcctctagaa aatatatgaa gagaatagat accttgtgga 131400  
 tgacttctct cccacttaaa cttcaaactg atcatagtaa tcaactcctt gccattcct 131460

ES 2 784 246 T3

ctttcttaca tctggattht cagtaatcaa taataacaat ccagtaatgg tgcagctgggt 131520  
 atggcagaaa aattattgca gcaaaacatt cacaatgagg ctaatgagat catgtgagag 131580  
 agggaagagg gttgaatcga tgttgaaact aatthttattht cattagcact agatgtaaat 131640  
 tgcagtataa tggaattaat cattthaaaat ggattgttca cttagaagtt acaaaaatac 131700  
 5 caacattcca thtgggtgcta tctthtttct ctgatgaatc aatthggtht taaaggattht 131760  
 gthttgtattht aaagtaaagg gaaccaagggt gthttatacag caatthcttgg gaacaggaat 131820  
 gagataagaa aaacagctag agcagaagga catcaacaaa caacaaaaac aacaacaaac 131880  
 tgagcagatt atgaaagggc aggagataat thctacctgg agtatgtgaa catggcaaaa 131940  
 tcaactthaa aaataagtct tctaaagact taatccattc tgagccaacc tgaaaacagt 132000  
 10 gattctthaat cthtcatata catcataatc thttgggaaa cthttattag atagcaatgc 132060  
 ctaggcctca thctaathta athaaatcag aatthgttaag agctagtact gcagaacata 132120  
 tataatgcca actthctatt thtathththt atthatttht thattgagac ggagtcttgc 132180  
 tctgttgccc aggtctggagt gcagtggtc catctcggct cactgcaagc thcggtccc 132240  
 gggthcacac cattctctg cctcagctc ccaagtagct gggactacag gcgcccacca 132300  
 15 cccggcctgg ctaathththt tgtaththta gtagagatgg ggtthcacca thttagccag 132360  
 gatggtctcg atctctgac cthgtgatcc gccacctcg gctthccaaa gtgctgggat 132420  
 tacaggcgtg agccattgcg cccagccaac ththtaacaa thaaaatcac gtgggatttg 132480  
 aacaaaaagt atactaatca aaggaataaa ththtatata thctctgagc tgcataagga 132540  
 athtatgggat thaaagtggta caagattctc thaaacaggg caathactag cagattaggg 132600  
 20 atataaaaat atatgcatta atthgtccgtt ggtggtgcaa atgthtatata ccagagatat 132660  
 thagaagaag gagaaatgac thtggaacca ggagaactag ggaaatctta gagtthaatag 132720  
 gagatgaagc agaaththaa ggaccatgta tcagcaaact atthgtcacac agaaactcat 132780  
 cthtagctta aagactthct aaacaaacat gctthaaaga gthttgcagcc acctcaaagt 132840  
 tggthctcagc thgggttgag thgtcaatga tcataaatht thgtgatgaa caatctattht 132900  
 25 cagaaagatg thcacaatht thgttgacaa thgtgactca agthcatht cacaathctta 132960  
 ctacaaagag atctaaacat thththctct ggccaggcac agtagctctt gcataaathc 133020  
 catctthttg gaggccgagg cgggcgaatc actthaggcc aggaathcaa gaccagcctg 133080  
 gccaatgtgg tgaaaccccc atctctacta aaaatacaaa agthtagccgg gcgtgggtgac 133140  
 acgtgccag ctattgagaa gctgagacat gagaatcgct tgagcctggg aggtgaagggt 133200  
 30 tgcagtgagc caaathtgca cactgcact ccagcctggg taacagaagc thactctgtc 133260  
 tcaataaat aaataaataa aaacaaththt thatcagcag ccttgacgac aggatcatta 133320

ES 2 784 246 T3

atgaaataat tctgaggaac agactcgcta catgcataat tttatagaaa atgaagctga 133380  
 tttaaagtgt ataaatgatg caggggtgtga tcaatttaag acttgaaccc aacattcatg 133440  
 gctccaaatg cagtgtcat tttcctgtgc aattacacat ggttttggac aaaggtcttc 133500  
 gtgttctatt ttattcatac aataatttca atttaattaa cctcaatfff aataagcagt 133560  
 5 tattcccaag acagaagcat taagagaacc aacatttttt aagagctcac taggtctcag 133620  
 acaattacaa gtcattatff aatcttagat gttgtgcctt aagtgccctg cttgcttcac 133680  
 cactgccatg gccctaccag caacaagaac ttatccaagg ttttgtagac atttgtaccc 133740  
 aaagagggac aaactggaag gcagtacttg atgtatgttt tcatctatca ctgtcaaaaa 133800  
 cacgcgcctg aaacttccat ttacatacct gtccccacat ctctccttcc cagtccccac 133860  
 10 tgtgcttctg gctcctatff tgatgatatt caatctgtta cgttctctcc accccagtcc 133920  
 catgatttct tcactffttac ctcattagcg tccagactff acatgtgtcg tggataaaat 133980  
 aactffttc taagtctgtt gagaaaatga taaaagtggg atctcaaaca gccaaggag 134040  
 acagcccaat gggcgctcga gccctggaca ggcattgttc aaacaacgtc catcagtaat 134100  
 caggactgag agagcataaa gcctcagagg tcagaggtca atgggaggtt ccagttgggt 134160  
 15 cagaaatgaa aactgcagag aatgcagcag atacatggca ctggtgaaag agaggcctag 134220  
 aagcagaaga caggtgagtt atatfftagct ggggacctgt gggaggttgc aggtgatgct 134280  
 cagtggagat atatgaatca tcctacctgt tacataggcc agctgggatc aaaggaaaga 134340  
 ttagagtgtg acaaatggct ttgtatccat aggagtfftg gttgataaga cattaagagg 134400  
 atttaactff aatagcctaa actagffttta taaacagtgt ttccagataa gacacagaat 134460  
 20 gccattffaa tgctgaatff gaaattaaca atgaatatff ttaatacaaa tatgccctaa 134520  
 atatagcatg agacatacta tactaaaaaa aaactgtatc tgaaatffaa atctaatffg 134580  
 acatgctata atffatffgt taaataccca accctgtgta tagagffgga aatcacctc 134640  
 tffactgatt ataggactgg atatffctgt ctaaatgcta atagtgaggg tagagagaaa 134700  
 gaaaactffg ccacatactc tgacaatact ggtataatff taaataatgt taaactccgt 134760  
 25 ttgctagcaa gaattaaggg agctatgtct gaaatggcac tgffttgtca gtgaattctg 134820  
 tffacctff tctffctgtct ggagtgtatt tgtgaagagt cccttattat cagttatgff 134880  
 ttatgaaaat cagcacacta ccacaatgac atttaagcac agaatcatta gtccatgff 134940  
 ttaataaaca catcgattaa gaaaaaaaaa actffggccac ataaaagffa tffgaacttc 135000  
 agffttfftc tccgcaaaat gggcataatc taccaacgcc tcccgtagff gcaaggggat 135060  
 30 gtgcatgaga taacgtffaa agtactgaac acaggcctgg aaaggtagca agtattcaat 135120  
 tgctffcaac cactgctcaa gtcaacfftt tatgaaggcg gggaggctg agtgaatggg 135180

ES 2 784 246 T3

	taaataaatg	ttcttggtaa	agcagcacac	catcagaatt	tcactaatat	tcatcacaat	135240
	ttatTTTTcta	cccgaagctc	aggatccacc	ccattccgta	tgggaaacaa	tcgaaacaaa	135300
	gtggcatagt	aagcagtccc	atgacagttg	tgtggaaatg	ccaccctttc	tttttaaggt	135360
	gaagcagtaa	agcttagcaa	gtagcatttg	tgcttttgac	aatggtagg	ctgacaacac	135420
5	ttggacgtgg	ttgacaagta	caaaatagca	ttcagtaggc	aggtgccagg	gaggggaaaa	135480
	caactcttac	gtattgctat	ctgtattgag	ccagacttta	aagaactgga	aaactctcta	135540
	catgggaatt	aagaacatga	agatatttca	gtaaaatctg	ttattatTTT	taagatacat	135600
	tgTTTTcaaa	agctcgTTTT	ttggccatat	gggattgtat	tggaaaaata	ttcctagaaa	135660
	atataattca	gcatatTTTTg	atggaaatca	tttcccttca	tttataagta	tccaaataat	135720
10	ccattgtgaa	catcagaaat	tattgaaatc	tctaatacag	ctttaataaa	ttccttctctg	135780
	tggaatatgg	gcgtgTTTTc	tgaagcttta	ttgaaaaatg	aaagtctcac	ataaaatgta	135840
	tttcagatca	tttaactTTT	ctatcttatt	ttatgatcca	gtgaatTTTa	ttcattctag	135900
	caagtcgtgc	tgaatctaaa	cacttttagga	ttaagattaa	aatactgagt	atataaatta	135960
	gggttaataa	aaaaatccaa	tatatgTTTTg	gaaatgtagc	tactgtcact	taaaggaaat	136020
15	ggtgcagctc	ggaagtagag	tgtagataaa	ttaaccaatt	ttttgaaaaa	aattgatgtc	136080
	cacagaaata	agactcagat	ggtctcattg	ttaaaaatta	aggctgatca	aagtgactca	136140
	actccctagc	gaatatTTTTc	tctagacact	aatcaagtg	cctgtaattg	catttctata	136200
	gttttattcc	atgggtgtaat	cagggtgaaa	aattaagaca	agtctctgga	caatagaaaa	136260
	tatctttcag	atagattttca	atcttcagttg	gttggattag	ctataggaag	cttgtccaac	136320
20	ccacagcttg	tatgtggctc	aggacagctt	tgaatgtggc	ccgatacaaa	tttgtaaact	136380
	ttctgaaaaac	attatgagtc	tttttgtgtg	atTTTTTTTc	ttagctcatc	agctattggt	136440
	agtgttaatc	tatTTTTatgt	gtggcccaag	accattcttc	ttccagtgtg	gcccagggaa	136500
	gccc aaagat	tggatgcccc	tgagctagag	aatataagta	caaaagagaa	aagctatgaa	136560
	atgagtaata	agcacctgaa	ctttataacct	gaactctaata	gaaattccac	aagtaggggc	136620
25	cgggcatggg	ggctcatgcc	tgtaatccta	gcactttggg	aggccaaggc	aggcggatca	136680
	cgatgtcagg	agttcgagac	catcctgacc	aacatagtga	aaccctgtct	ctacccaaat	136740
	tagccaggca	tgatggcaca	tgcttgtagt	ccagctact	caggaggctg	gggtgggaga	136800
	atcgcttaaa	cctgggaggc	ggaagttaca	gtgagccaag	accacacat	tgactccag	136860
	cctgggtgac	agagtgagac	tctatctcaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	136920
30	aaaaagaaat	tccacaagta	gggtaggtac	tgggcaaaag	ggaattaaga	ctatTTTgtca	136980
	gacttagtac	gtgacctgag	ttaagacact	gtatatatgc	aggtacatat	ataaacctgt	137040

ES 2 784 246 T3

	atgtatcttg	ggagatctcc	tctgtttgtc	ttcactggac	aacaaaatca	tagagaaaaa	137100
	atgcttgtga	cacacacaac	aacctctccc	agccttgcac	aaacaggcac	accctagaga	137160
	aacaacatgg	ttagaaaggc	agccttgacg	tcaaggtgac	gaaaggataa	gtataagacc	137220
	agaggtaaga	tactgcttg	agaagttggt	aaaataatct	gtcaagaaag	aatcaatacc	137280
5	tggactatga	tagtgacaac	tcaagtggag	agaagtcaag	aaagttgaga	aaccaaagtc	137340
	agtggaataa	caggacgcag	aagaaagagg	gtggaattca	agagcagtca	gggaccaggt	137400
	gtttcatgat	gctactcaac	aagataaaaa	agatataaaa	aggaaagggg	gatggggaag	137460
	acaatgactc	agttttgcat	aagttcaatg	taagatactt	gtgggacaca	ctaataatca	137520
	ctcttagcaa	tgcttttgat	agtttttagac	attcagattg	tccaaggtca	ctgaaacaat	137580
10	ggaagtcaat	gagacaggct	ggaggactaa	ataaattgga	tgcaggggtg	gagacacggg	137640
	atgcacaaaa	gagaacttat	ttgtcatttt	aagtggatcc	actgaagttc	tgatgtttac	137700
	gatgatgctg	aaaaatacac	agagcaatag	agaagtgtaa	gtaccatggc	gtggtggagc	137760
	caatagataa	cttcttggtg	attttgtaag	ctgggtgtta	gaaacaacta	ttattogata	137820
	ttaaattgta	taaatttaga	atacataaat	ttatattaag	cataaagata	atacaactt	137880
15	acaacttacc	atctcttatt	ttattttaat	ttataattta	caactatcta	tgtttgtgaa	137940
	gctatttaca	tctattttgt	ctatattgtg	gaaaaacat	aatgggtgtg	tgttgtgtaa	138000
	ttctttccag	ctctgctttc	agtagcatca	ccttgacaac	ttgaaatcac	actaaagtaa	138060
	tcagcaagca	ctacaaatca	gaacttccca	tcccagggag	ctacctgtga	atcatctacc	138120
	agcacaagac	tagttaagta	ggaccatcca	tatccaagga	aggaatagta	gaatacaaat	138180
20	gtgttccact	tactattgct	gaattagaaa	ttcactccat	aatttattag	tagcttaaaa	138240
	taacaattat	ttcataatta	aagctcagct	tctgtttctg	gaaagatgtg	actggatagt	138300
	cctggattgg	ggtgtcatgc	agttgtaggg	ctagagctgg	agggtcaggg	ctgatcaagc	138360
	atctctctct	tcatgtagcc	ttctccacac	ggtctctctg	catgaactat	tttggacttt	138420
	ttataacaca	atggcctcat	ggtagttgtc	cttcttacat	ggtgtcccag	ggctocaaag	138480
25	gcaagtgtct	taaagaagaa	ggtaaaagct	acattacttt	tcatttcctt	gcctcagaag	138540
	tcacagaatc	atctccatca	cctcttattg	gttaaagtca	caagcctgcc	cagactcaaa	138600
	aagagggaaa	ggagactcca	attctcaaaa	acggagtggc	aaggtttaag	aagaacatat	138660
	gggattggag	atattttggg	gccatctttc	aaaatacaat	ctgctgcaga	tcccaaatca	138720
	caaaagaggg	agacaactat	atgtagctac	cagtaggagg	gctactctag	aggatgcttg	138780
30	agaattattg	ctttcatcaa	tctgagacaa	aattcacaca	catgagctag	aatatcattt	138840
	ccaaatagata	ggttggttagg	atctgggggga	atcttatgga	gtagagaaaa	ccaaacttag	138900

ES 2 784 246 T3

	atgataatta	acaataaata	ttgtctgtat	ctttatggct	taggaaagtt	tcatgtctgt	138960
	aaccaggaac	tcactacttt	ttatTTTTgt	tttgaacatt	tcttctcaat	tcattccttg	139020
	catgagattt	tgtccccatt	ttgaccatca	tacttgtttg	cattctcctg	cttttgtcct	139080
	taatgcttta	atTTggggat	atatatccat	atgtctatgg	atacatgtat	atggatatgt	139140
5	atgatttggg	gatatatatc	catatgtata	tacatatgta	tgtgtataga	gatagacaga	139200
	tgatagatag	atagatagat	agatagtaga	ttcttctcta	cttgcaatgg	ggatgatgtcc	139260
	tgataaacc	accaaagct	gaaaacatta	tcaactgaaa	aattatgggt	atTTagcctt	139320
	gtgccccatg	gctaaagaaa	aactgtggct	catccagaat	cataagagct	tatcctaacc	139380
	tggaaaagat	caaaattcga	aattcaaagt	acagtttcta	ctgaatgtgt	attgcttgca	139440
10	ccatcgtgaa	aacaataaat	cacatggcaa	accctcataa	gttgagagacg	ttctgtgtgt	139500
	acacgtgctg	gtgtgtagtt	tgttcgtttg	cttttttttt	tttttctggt	ttcctgataa	139560
	ctttagtttc	tatggacagc	atatttagtt	ctcacctgct	catgctgcct	caggttttct	139620
	gatgataggg	tgaagaagaa	aatgcctctg	tggcctaagt	tctgaccctt	ctattaagtc	139680
	caaaagccca	aaaccgtatt	tctggacttc	caaaagtcca	gaaataaaga	tacaaagaag	139740
15	aaattctgag	cgggcaaaat	gggtactgca	ttgttgaata	aataaagggg	aagttctaag	139800
	cagagtttaa	attaactaac	aatTTTTttg	agacaagacc	acattttgga	aatTTtagaa	139860
	aattgTTTTa	agaaagaaca	tgttatggta	tttattttgt	attgaaaata	gaataacaga	139920
	aaagcttaga	ggcagagggt	agaatctata	gaaaattcct	tagggccggg	cgcggtggct	139980
	cacgtctgta	atcccagcac	tttgggaggc	cgaggcgggc	ggatcacgag	gtcaggaaat	140040
20	cgagaccatc	ctggctaaca	cggtgaaatc	ccgtctctgc	taaaaatgaa	aaaaaattag	140100
	ccaggcgtgg	tgccggggcac	ctgtagtccc	agctactcgg	gaggctgagg	caggagaatg	140160
	gcatgaacc	ccgggggacg	gagcctgcag	taagccgaaa	tcgcgcact	gcactccagc	140220
	ctgggcgaca	gcaagactcc	gtctcaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaatt	140280
	ctttagctgt	tctctaaatt	tgataaaaaat	tattgagagt	ctgccaggtg	ccaggttcca	140340
25	tgctaggttc	ttgagacaga	gcgagaagta	agatagaaac	aagcatctgg	taggacttta	140400
	aaatatatgt	tgaaaattac	atgatgcagt	agagcctgcc	aattagaggc	tcctcctcta	140460
	atTTtgaga	tgtgacagct	ttttatggga	attaaaaggc	caaagaaagc	tgaaggtcag	140520
	gtctagacac	agtccaaagg	tgaaatataa	ttaaaaatgc	tcgcttgttc	aacaatatcc	140580
	aggttgcctg	tttgctcata	gttattagat	gattaagtat	ctgtaattca	gttaagcatt	140640
30	ctaagctgca	gaaaatgcta	taaaccagtg	ggTTTTTTTT	tcattttcat	tttctatTTT	140700
	tgaaatagcg	tcttactctg	tcaccatggc	tatagtgcag	tggcgtcatc	acggctcact	140760

ES 2 784 246 T3

	gcagtcttga	actccttaaa	ccagtgggtgc	ttcaaacctc	gctttttctc	agaaaaacta	140820
	ggcagcttaa	aagtgatact	gaccaatggg	taccaaacta	aatcactcaa	atcagaatag	140880
	ctattgggat	ggccagaatg	gatttttgtc	aaagcttctt	gttatttcta	gtgtgcaacc	140940
	agcactgcaa	actcctgacc	taaccaactt	gtgttttctc	tttcccctta	tgtgctatcc	141000
5	catctgccac	cagatagctc	ttggtaagat	gttacctggg	gtgttagtcc	gttttcatgc	141060
	tgctgataaa	gacatactgg	agactagcaa	gaaaatgagg	cttaactgga	cttacagttt	141120
	cacatggctg	gggaggtctc	agaatcaggg	caggaggtga	aatgcacttc	ttatatgggtg	141180
	gtggcaagag	aaaaatgagg	aagatgcaag	agcagaaacc	cttgataaaa	ccatcagatc	141240
	ttgtgagact	tattcactac	catgagaaca	gtatggggga	aactgcccc	atgattcaaa	141300
10	ttatctccca	cagggtcctt	cccacaacat	gtgggaatta	tgggagtaca	attcaagggtg	141360
	agatttgggt	ggggacacag	ccaaaccata	tcacctgggt	atctgaattc	tgatcaaggg	141420
	cacttcagga	atltgggaaa	ttttcaggtc	ctgttgttct	caaacgtagc	tacatattga	141480
	aataacctag	agaattaaaa	aacagaaact	cacttatgcc	tgagtgctat	accctcctct	141540
	gcttacaagt	atgttcagtt	catatggggg	atggcctgag	cataacaatg	tctgaagctt	141600
15	cataaatgac	tggtgtgtgg	tcaagttgca	gaaccactgt	gctagaacat	cctgatgata	141660
	aagatctgac	tgtcagttca	gatacaatct	aaatatagag	aaattcttaa	cagaggatgc	141720
	agagtaaatg	acttcaggtg	gaaagcacgt	aaagtaaag	tgagaagaag	gtcaggtggg	141780
	gagtgtgggg	agctggggaa	agcatgctcc	tgggctccct	ccaacagaag	ccacctgtag	141840
	cctgggacca	gtgtgctaga	ggaacctggt	ttcaaagaaa	gccagaagta	tggatgcatt	141900
20	tttatttgca	gcctgatgat	ttttatattt	tggcaactaa	ttcactttat	taaaaatac	141960
	tgaataagct	caagaaatct	gtgagctgga	ttcagccaaa	gcgaatgcca	gtttatgact	142020
	ttcctcttgg	aaagaaaagt	ctttcatggt	gatgtatcac	atlttgcgca	gcttttctgg	142080
	ggttatgttc	tcagaagttt	cgtttagttt	gctctcatga	aaggtgacgg	taatgttcct	142140
	cagctactta	taaacatttg	aagaaacttt	tcctctgtat	tcttagtttt	atactcagtg	142200
25	aaaatataag	tcaagtattc	ataggtattt	cactgttaga	tcacatatt	gaggaatgag	142260
	tgttagttca	ttaatgccgt	acacaaacac	ccaaacccaa	atgtgcagtg	cttgtggaat	142320
	cacgatgaga	taattagcaa	tttcttcact	tcccactgag	caggatgagt	tgaggattag	142380
	cttctctcag	tagattacac	attagagaga	aaaatgtcaa	acagcaaagt	aaaatgggac	142440
	tctacgtctt	cccacacaag	catctccagt	gcactaatga	gctagcttcc	ttgtcacatt	142500
30	cacaactagc	agcagatgac	ctaagaataa	gtcagagaag	ctttctatta	gaggaacttt	142560
	atcttgcttc	taaatatata	gtaaaaaagt	gggtcaattg	gtacttacag	aagatatttt	142620



ES 2 784 246 T3

	agttcaactg	gagaaactta	actatTTTTag	aaataaagaa	cccctggaaa	agttagtctc	142680
	ccttattatg	catggaaata	aaagcacttt	cttaatTTTga	aataagtгаа	TTTTTactg	142740
	aagaaattcc	tttatgctgt	cctcagtcca	catattaacc	ccatgtatca	aggcctctga	142800
	tctgccatct	caaccacctt	gtcactgtcc	actaacctct	tgctgcttcc	cttctctcct	142860
5	tgttccacct	agggttcaca	gtctctgctt	tgaatcagac	attcacagga	tcagacatgt	142920
	gattcagggg	cttagcaaga	gggagtgatc	agtgcattgg	cctctgTTTT	atgacaaaacc	142980
	accaaaggac	atgtgtcctc	acacaacagg	tacacttgct	ttggcataca	gaacctcccc	143040
	agatggctgt	gctggagggt	agtagatggc	gtgaaggaat	gcctctgcac	atatttgtca	143100
	tttctgTTTT	cccattgatc	aaaatctctc	caaagagcac	actgtctctc	cttctttata	143160
10	cttatggact	atgacacttg	gccacactga	gaactgcaag	ggtaatcaga	tcccatacac	143220
	tgcagtatgt	atTTTcattg	aagtgtacaa	atgacagagg	agttaacct	tttggactgc	143280
	cccagtcctc	tggcagaagt	actaatccct	ctgagaaata	catttctggt	ctttatcaac	143340
	tgcccagtct	caagtatTTT	gttacagaag	tacacaacag	attaagacat	atgtcttctt	143400
	tttaagaaat	gcctaatacag	gtcctttatc	catttcagta	TTTTatTTTg	TTTTgttgtg	143460
15	ctactgagtt	gcatcagttt	cttatatat	ttgggtatta	acccttatc	agatatatgg	143520
	tttgcaaata	TTTTtgctca	ttatgtagat	tgctttacag	tctgttgatt	gtttctTTTg	143580
	ctgtgcagaa	tatTTTtagt	ttgatgcaat	ctcagtttat	TTTTgcttgt	gttgctctgtg	143640
	ctTTTggtgt	cataaacaaa	atatTTTttg	ccaagaccaa	tatcaagaag	ctTTTtcaga	143700
	tatatTTTct	tctagtagtt	gtacagtttc	attgtcttat	atTTTgTTTT	aatatgatgt	143760
20	gagagaaagg	tcaaattTTa	TTTTTTTg	attggattgc	cagTTTTgcc	agcatcattt	143820
	attgaagaga	ttatctTTTc	actgTTTgtg	gttcttggta	TTTTTgtcaa	aaatcagttg	143880
	actatcagcg	tgtgaatatt	tctaagctct	ctattctggt	ccattgggtcc	atatgactgg	143940
	ttctatgtta	gtaccatagt	gtTTTtatta	ctatcgcttt	acaatacatt	ttgaaaatgt	144000
	gatgccttca	gctttatcct	tcttgctcaa	tattgctatg	ggtatTTTgtg	gtctTTTgtg	144060
25	gttccaaatg	aatTTTaatt	TTTTTTatct	ctgtaatгаа	tatcactgag	atTTTggaag	144120
	gaattgcatt	gaatctgtag	atcactTTTg	gtagtatggg	cattataaca	acattaattc	144180
	TTTTgatcca	tgagtggaga	atgtctTTTt	atctgtgtct	tatgcaaaac	aatatggaac	144240
	ttctTTTaaaa	aatTTTaaat	agaagtacca	tatgactcag	aaatccaatt	tctgggtata	144300
	tatctgtatt	agtccgTTTT	catgcctctg	ataaagacat	acctgagact	gggaagaaaa	144360
30	agaggcttaa	ttggacttac	agttccacat	ggctggggag	gcctcagaat	catggcagga	144420
	ggcgaaaagc	acttcttaca	tggcggcgagc	aagagaaaaa	tgaagatgca	aaagtggaaa	144480

ES 2 784 246 T3

cccctgataa aactatcaga tcttgtgaga cttattacct accatgagaa cagtgtgggg 144540  
 gaaactgcct ccatgattca attatctccc actgggtccc tcccacaaca tgtggcgatt 144600  
 atgggagtac aattaaagat gagatttggg tgggaacaca gccaaacct attgctctgc 144660  
 ccctggcccc tccaaatctc aagtcttcac tttgcaaaac taatcatgca ttcccaacag 144720  
 5 ttccccaag ttttaactca tttcagcatt aocccaaaag tccacagtcc aaagtctcat 144780  
 ctgagacaag gcaagtccct tctgcctatg agcctgtaaa ataaaaaaca agctagttac 144840  
 ttcttagata caatgagggt acaggtattg gtaaatacag ccattccaaa tgggagaaac 144900  
 tggccaaaac aaaggggtta cagggcctac gcaagtccaa aatccatcag ggcagtcaaa 144960  
 ttctaaagct ccaaaatggt cttctttgat tccctatctt acatccaggt caggccactg 145020  
 10 caagaggtag gttcctatag tcatatacag ctgtgccac gtgaccttgc aggggataac 145080  
 cccctggct gctttcatag gctggccttg agtttctgcg gcttttccag gtgcacggtg 145140  
 caagctctcg gtggatcaat cattctgggg tctggaagat ggcgccctc ttctcacagc 145200  
 ttcactaggc ggtgccccag tagggaatct gtatgggggc tccaaactca catttccctt 145260  
 ctgcactgcc ttagcagagg ttctccatga cagccccacc cctgtagcaa acttttgctt 145320  
 15 gggcatccaa gtggttccac acatctgaaa tctaggcaga ggttccaaa tctcaattct 145380  
 tgacttctgt gcaccgtag gctgaatacc acatggaagg tttggggctt ggaccctctg 145440  
 aaaccatgga gcgagctgta ccttgacccc ttttggaat ggctggagtg gctgggacac 145500  
 agggcaccaa gtccctagac tgcacatagc acggggaccc tgggccaac ccacaaacca 145560  
 tttttccctc ataggtttct gggctctgtga tgagaggggc tgccaagaag atatatgaca 145620  
 20 tgccttgag acatattccc cattgtcttg gggattaaca tttggcttct tgttacttat 145680  
 gcaaatgtct gcagccagct tgaatTTTTG ctcaaaaaat gagTTTTTct ttttacttgc 145740  
 atcttcaggc tgcacgtttt ctgaatTTTT atgctgtttc ccttttaaaa cggatgcttt 145800  
 taacagcaac caagttacct tttgaatgct ttgctgctta gaaatttctt ctgccaggta 145860  
 ccctaaatca tctctctcca gttcaaagtt gaatctctag ggcaggggca aaatgccacc 145920  
 25 agtctctttg ctaaaacatg acaagtcacc tttactccat ttccctacaa attcttcatc 145980  
 tccatctgag accacctcag cctggaccat attgtccatt ttgctatcag gcttttggtc 146040  
 aaagccattc aaccaatctc taggaagttc caaactttcc tacatTTTcc tgtcttcttc 146100  
 tgggccctcc aaactgttgc aacctctgcc tgatactcaa tttcaaagtc actccatat 146160  
 tttagggtat cttttctgca tcacccact ctactggtat ttattttaca atttacaaca 146220  
 30 atctatgctc ttgaagctat ttacatctat tttgtctata ttgtggaaaa accataatgg 146280  
 tgtgatgctg tgtaattctt tccaaatcta ctttcagcga tgtcaccttc atactaatgc 146340

ES 2 784 246 T3

ccagggtctca ctgtattagt tcattttcac gctgctgata aagacatacc agagactggg 146400  
 aagaaaaagt gatttaattg tacttacagt tccccatgcc tggggaggcc tcagaatcat 146460  
 ggtggaaggt gaaaggcact tcttatatgg tgggtggctag agaaaatgag aaagatgcaa 146520  
 aagcagaaac ccctgataaa cccatcagat cttgtgagac ttattcacta ccatgagaat 146580  
 5 agtatggagg aaacttatcc caagattcaa attatctccc accagatccc tcccacaaca 146640  
 cgtgggaatt atgggagtag aattcaagat gagatttggg tgggggtgca gaatgaaacc 146700  
 atatcaatat ccaagaaaat aaaacttggg tctttaagta gtatctgcac tcctatgttc 146760  
 attgtagcat acatatatat atacacacac acatatatat agatatgatg ggatatttct 146820  
 ctgctttatt tttagcctta gaaaaagaag gaaactctat aattggcaac aatatgtacg 146880  
 10 aaccggaagg aacttatgct aagtggaata tgccagacac agaaaacaaa tactgcatga 146940  
 ttagatgtga aactgaaata gtcaaactca cagaaggaca aagtggcaac ctggtgattg 147000  
 ccagggtcag agtggggagg ggaaaattgg gagatgtttg tcaaagaata cagttttagt 147060  
 tatgcagaat gacattccgg tgatctaata taaagcatgg tgactacagt ttacaataat 147120  
 gtattatatg cttgaaatth actaagatgg aagattgaag gtgttctcac cattccaaaa 147180  
 15 aaaaatggta attatgactt cactatatat atataatata tatataaaca ttacattgta 147240  
 tactttataa gatttctata tgtcaattat ccctaaataa agctgaaaaa atttaaaaat 147300  
 aatccccga aatatatgta atatgaacaa taaatataag ccacacatgt tttttaaaaa 147360  
 tttgtcatgt ttttaccctg acagcaaadc tccaattgga tagcctcatt tcaagtgctc 147420  
 cacaggcaca acgaacaacc gactaccatg tgggccactg cagccctagg aaatacgaat 147480  
 20 gatgggctct gaaccaatct aagtggaatg actttaaaca gaaataatga ctcaagttct 147540  
 cgaacttaag tatgcttcag tatcatgtgc agagcttggt aaaacataaa tcgctggact 147600  
 ccacaccag agactgattc aatagttctg aagtggggat cccaaatttc cttttctaat 147660  
 aattttccag gtgatgctaa tactgccctt caagagccac gggatgatgag gctttgggaa 147720  
 atcagctttg taacttttaa gtggaaaaag ggacatatag ttcoctaaaca tgatataaat 147780  
 25 ctctcctcca ttacagtaac aattagtgct atagtagaaa agacaggtgg tcaaattgta 147840  
 cttagatta caatttggct actaaatgga ataacacatg tttttttttt tttttttttt 147900  
 ttttttttta gtcttgtaa ccaattgcag ttgaagatgc aggtatttga atattatata 147960  
 cacacatatg gcacatttaa cttagtataa tttgtgcatt aaagtaaaaa tcgagtcatc 148020  
 tacatttcca ttcactgaag gaaacatcta ggcataatth cagtaaaaa actggggagt 148080  
 30 ggaacgttat aacatgtgca taattcaatt tatttgaaat tgactgtaag tcctcattag 148140  
 gccttaagtc ctttttcagg tgaactatgt ctcacattta ctgttgcatc tctagttttt 148200

ES 2 784 246 T3

	aatatcttgt	atactgtagg	tctctaataa	atagatgcat	gagtagtttt	atthgtttca	148260
	tatatthttg	ggaattcagc	cttcagttat	cctgaaatth	taatacagtg	ttgaagtccc	148320
	attgtgaggt	caggagagtc	tgatgtatg	taaagataga	catctctcta	aatctthttgt	148380
	tcctthctgt	aataagtatt	aggaatataa	tgcaactcag	agtaaaagtc	cagatgctga	148440
5	caagctactt	ttaaccttgt	gattctggat	ggtctgatta	tagagtccat	ttccaaactt	148500
	cctthcacta	cacaggagcc	tgagatgaa	ttaaaaatta	cctgatgctc	tgaattgaca	148560
	thtcacagtg	cagtatcata	acatattgta	agaagagatg	ctacacacga	atthtttaaac	148620
	gattaaaaat	atatctctac	tgatgcaaga	aaggaactth	atgaatgtaa	cattthctca	148680
	aaattggtct	cataaatgaa	gatcaaaaac	ctthagtcaa	gtggaagcca	atthtagagtt	148740
10	gthactgtca	agcatctata	actthttcaa	taaccaaatg	ctattgctaa	catcaggctg	148800
	tagagthtaa	atthtcataa	atthcgactat	ggagcctact	tcattgccgg	actagaatga	148860
	caaatacatg	ataacctaca	tgggataatt	ctthaatatt	gthgtthggg	gthgacaatg	148920
	agaatccacc	cattgactga	gthccaactc	thttccaggc	acttaattht	tactcactga	148980
	aaactthgtc	acagccacct	tataaagtaa	aaattattat	thtatgccat	thttctataga	149040
15	gtatactgaa	gctcagggag	cttaagtagt	thttctcagtg	acatggatgg	taattggtca	149100
	aatctgthtt	gaaaagthtc	tcagactctg	cagcctgcat	tcctatgact	gagctatgct	149160
	aattagcaag	agacagaggc	ctthggtaca	cactthttta	tcagggaaaa	gactthcttgt	149220
	gaataaataa	acactaagtc	gtatcagtat	acaactaaat	cggccctaac	gcaaggaaat	149280
	ccttaaatgat	agcatcatta	tgactctctt	aaactatthc	actggaaagg	gaatthttta	149340
20	ctctggggct	ttgagagctg	gactcagtct	gaaggagctg	ataacatcaa	ggatthgtgc	149400
	tggaagggc	aagtgcagtt	gctccactat	ggagatcata	ggttgccct	acagctctth	149460
	ccttacaaaa	aatcttatag	aaggtgattt	thtatggcatt	atctctcttg	caatagacag	149520
	tgaggaaatc	ctcaattgth	ctatthctac	agthtctgtg	atcagagtac	aattcttgc	149580
	tccttctgtg	thaggctccg	gaaagggatt	tatcatgaga	gcaaacaat	aaaaagaggt	149640
25	agthcagata	agacaaaaga	caaaagaaat	agaagtatgc	cccagaggag	tagatthtact	149700
	atthattctt	tcctgcttht	gacatgagat	ctataccatg	atctthggcc	ctgactacat	149760
	tctggacaca	cattthtatat	agtgthttgtg	ccttagggga	acagtggtca	ctatgcctcc	149820
	tacctgttat	cattaattht	tctthttcaa	aaaaagtca	atgaaccata	thttcttaaaa	149880
	acattcacca	agctcctcag	agaaaatggt	thtactctgct	agaagthtatg	tctcaagatc	149940
30	tcccctctac	cccagacaaa	ctaatctcca	tcattatgac	aattctccca	tacttacact	150000
	tgatgacagg	tcacaaatth	atgaagthga	ctgagthtatg	gctcaacaat	thagtctthta	150060

ES 2 784 246 T3

	ttttctttgg	ggagaaaaat	gatatgaaat	catataagat	aaaaattttg	gagcaataaa	150120
	tcactcaatt	tгааатаааc	atcagtacag	gacataaaga	tgtcatgaaa	catttccacc	150180
	caattgttta	atccaccctc	ttagtcaagt	ccagagtatg	acattatctt	tcttttctgc	150240
	tttgtgaagc	caagctcatg	ttgaaatga	gtttaaaaac	aatgaattt	cagacttaca	150300
5	gaatgttcat	cttttagtgt	tgttattaag	aaagttaatg	aaaacagtat	tcttaccctg	150360
	atgctccagg	aaaggcatta	gatccaaatg	agtacataac	attccatcat	tctaatttcg	150420
	aggttgatat	ggatagccaa	tгааатccta	caattgcaaa	ttgcttcaa	gtatttcacc	150480
	ataatgacta	gactgcaatt	ttgatggggt	actgataaac	accaaaaatt	aataataagg	150540
	aaatagatga	aatcacttgc	attattgtat	tcaatacaat	cttagtaatt	aatataattt	150600
10	ggtcataata	tattcatttg	tgaacttacc	atatgcctat	tatgcataga	gcactgtgta	150660
	aagcactgga	aatttgtatt	tgttcaacaa	ataattactg	agtacttctc	tгаатagaat	150720
	attactgcag	aactggggat	ataacagtaa	aaagtcacac	atgaaaaagg	cctcccttca	150780
	tгааacacat	tctaattggag	aataggcaaa	gcacatgata	aataaattag	agtatattgg	150840
	aaagtgttaa	gtattgaaga	ggaaaaatat	aaacaggcaa	ggacagagac	cattttaaag	150900
15	agatggtggt	ggtgacactt	tagactgtct	gtaggtagg	cctctcatga	aaagaagtga	150960
	catttgaata	aagattggga	agaagccagg	aaattatcca	tgaggggtgtg	tatggaaagg	151020
	gcacacaagt	agatggaaag	aagggaaacg	agctgagcat	tttgtggaag	agtaaggagg	151080
	ccggggtcct	ttactggatg	ctgtgagggg	gcgagaggta	gaagattaag	ccagagagat	151140
	aaagggaatg	gctgatatgg	aaggtcatat	gaggattctt	gagagtcact	ggaggatttt	151200
20	aggcagagta	gagagctgat	ctgatttggg	aggacgactc	tgactattgt	gataagacta	151260
	gaatgcaaaa	ataaataatt	tatggtccta	atgaactcac	acttcatttg	aaaagttgaa	151320
	aaggatatgg	attcagcgta	gtgagataag	ttctattaga	gtacagaggg	ttgatagtaa	151380
	cgggtaagac	tcttctcac	tctcagcct	actccaatct	ggcttctagc	cctgtcatta	151440
	cactgagaca	attcttgaaa	ggattctgat	gacttttagg	ttgccaagct	ccatgtcctt	151500
25	cctctagcct	catcttactt	gacttttctg	cagcaattgt	aacattttat	atcgccctac	151560
	ttcttgaaat	actttcttcc	cttgttgacc	atggctctac	cttgtccata	tttttttctt	151620
	gtttctctgg	gtaggcactc	acttttcagg	ctcactttcc	tctccctagt	aattgggtct	151680
	tacaatttct	gtccatagca	gccacattaa	caactccaaa	gggctcactc	acaacatagt	151740
	tcaagggact	ggtggttttt	tгааagttgta	tattgctgtc	ttgagctgcc	taaaatgaat	151800
30	aactcatttc	tgtcttattt	tttgtctcct	tgttttgatt	ttctttacat	aaacaatttt	151860
	aaccatgcat	gaggcttcaa	ataggactta	attgcaagtt	tatgtttcca	tccaggattc	151920

ES 2 784 246 T3

	tttgttggtg	aacataactca	tattcagttg	actgcttgac	atctctgggt	aagtgtcctg	151980
	aatacgcctc	aagtttataa	tgtcccaagg	tgaactcaag	ggcctccttt	tgtacagggg	152040
	tcttctccag	tgttctctgg	cttgatggat	aacactacca	cccatgcatc	ctgctatgca	152100
	agacagaaac	ttaagtattc	ttctggatgc	ccctcacttg	cgtaccctcc	aaatccaact	152160
5	cattatztat	tatccaatct	attgatatth	ttcctcaagc	catcaccata	gtccatgtga	152220
	ccatcgtctc	ctgccctttc	ttcctccagg	agttttttct	ccttactaca	gtcacagaga	152280
	ttttctaaac	tgtaattga	gtcatgtcac	caatcaccta	cctgttttaga	acactttaat	152340
	ggatttcctt	ttttatctta	gagaaacatg	atcatagtct	ttcagtttcc	aaatctcta	152400
	accattgcct	acttcccaa	gctcctcttt	ctcttaggct	ttcttctct	ttccacttta	152460
10	cattcaaact	gctactagcc	ttttaaagt	ttttgaaaca	gggctgttac	gcatatgagt	152520
	tgctctacca	aagacgtgg	gcttctttct	tctatthctc	atgcaaacat	attagcttct	152580
	actttattct	agattttagc	atagttatta	catcttctc	taaccctgcc	ttcaattccc	152640
	aggtgaaata	aattaccctt	tataagctct	catagtatat	atacctctcc	tgagagaaac	152700
	ttttcattga	gacctagact	gctgccaagc	acagtgcagg	tcctcaaaaa	taattgctca	152760
15	atataaggca	agaggattht	ttggcagggt	gtgccatgct	cttatttaac	caggatatca	152820
	gatgataaccg	tcatttatth	acataththt	ctgaagcaaa	taatcactga	actacatcaa	152880
	gtatcgatga	ctatctggac	cttgaaatth	taggcaaaaa	tattacttat	agggtttatt	152940
	tgggatatht	aataththta	ttagatttga	aaatattatg	gagacaagtt	aaaacataat	153000
	gtgcttagga	gcttgthctg	aaggttacac	aggtgttgct	tgtactctaa	tctcagaact	153060
20	ctcaagthct	ththththth	gagatggagt	cttgctctgt	caccaggct	ggagtgcagt	153120
	ggtgtgatct	cggctcactg	aaacctccac	ctcccgtgtt	caagcgattc	tcctgtctca	153180
	gcctcctgag	tagctgggat	tacaggcacg	tgctaccatg	cccagctctt	ththgtatth	153240
	gtagtagaga	cagggtthca	tcactctgg	caggctggtc	tcgaactccc	gactthgtga	153300
	tccactcacc	gtgacctccc	aaagtgtctg	gattataggc	atgagacacc	actcccggct	153360
25	agaactacca	agthctaaact	gtgattctag	acaaaaatth	ccatgcttca	ctthctcctt	153420
	ctacaaagtt	tcagtgaatg	thaaaaagt	aaaatacaca	aataaaacat	agthaacata	153480
	caccgcacta	gctctthcaa	aacattagtt	ctgththctt	gcactthcca	catgttgata	153540
	gaaththctc	thctcaagtg	thcttaccag	thaaaggcagt	gctthctthgg	ctthcggatac	153600
	agcataacgt	ththgtctgt	aaagatcttc	tctccctgaa	tctgataaac	thaaaththaa	153660
30	tagcatgtac	acaaagtgac	atagatcaag	caggagaagc	tagacaggat	tctccacacc	153720

ES 2 784 246 T3

	actgttgagg	aaaggaaggc	ataatgccat	cacctgcaat	tagaaaagtt	gtctgagcca	153780
	ttacaaggca	ttttcaagtc	tcccataaca	ttttagcacc	tgtaggaaag	cttctctttg	153840
	taagcaaaag	gttaatagct	gtgcttctcc	agctgtttca	cgtgggccag	atgtctgagt	153900
	agcccaaact	acttaactgc	atattagtgg	cacataaact	gcaggctgcc	gcttgtcaga	153960
5	gagttgtaa	tttccataga	atgttgcact	gaaagtcatt	actatgtgaa	ttacaacaaa	154020
	tttgtaag	aggttatgg	aagcattgg	acaaggatta	gtgctgttga	aaaaaaaaata	154080
	gaaggttcat	cctctacgtg	atctgagcga	ctctctaagg	tcttagtcac	acacacacat	154140
	gccccatgct	ttattttgtg	tctgagtttt	agcttccaca	ggttgccagt	atccatgtat	154200
	tgtgtgtggc	caagacatcc	tatcaaaact	gaattgtata	aaatgtcaaa	aatcttatga	154260
10	aacttgtag	atgtttatgc	ttattgagga	tattttgtta	tgatagtcaa	ccataatatg	154320
	gagttctata	acttaaaaat	aacgatcagt	gcatgtactg	aattcaaaact	aagcttcaga	154380
	ttcagtactc	agttttctaa	gtgtttatct	cttgtaggat	agggtctgca	aggtgaatct	154440
	atgggtcaca	tctcacatat	ggcccattct	cacacacacc	atctcatgta	atcctggtaa	154500
	tgtttgcaaa	aggccattgt	cgctgctgct	gtcttcttct	tcttcttctt	cttcttcttc	154560
15	ttcttcttct	tcttcttctt	cttcttcttt	cttcttcttc	ttcttgttct	tcttcttctt	154620
	cttcttctgc	tttcttcttc	ttcttctctt	tccttcttct	cttcttcttc	ttctatcttc	154680
	ttcttctctt	tttttttctt	gaaggtggaa	cagacctaga	agctggagtt	cagtgtttgt	154740
	tggtgacaca	ggattttaac	ttcacattta	tgacttcaca	gtcgtgata	ttagtgttga	154800
	tttttttgtg	gattagtata	gagtattttt	ctacaactac	tgatatcaga	caattgccag	154860
20	aatgaggatt	ttgttggcag	ggctagcaag	gaggaagggg	agcatttcaa	agctgtgtcc	154920
	agctgaatga	gactgcctag	ggcttaaggg	ggcagcctca	ctcagggagg	ttctaatagat	154980
	cagtcccttc	tccttgacca	atgtgtgtgt	gcatttgccc	caataaacag	tcctgggtcat	155040
	tttgaccgaa	gatatttttg	aattagtctt	atatgctatc	tacataaatt	gatgctatgt	155100
	aaccactaca	tacaatggag	tactattcag	ccataaaaaa	agaatgagat	cttgtcattt	155160
25	gaaacaagat	aatgaaaact	agaggtcatt	atgttaagtg	aaaaacctat	aattttaaaa	155220
	cagaattggt	cttttaata	gacttaagga	atattaattt	tatttttaaa	atctcacagg	155280
	gagaggagag	ctaaagtaag	tgtgtgtgtg	tgtgtgtgtg	tatgcataca	aacataggtg	155340
	gaagatttgc	taatggcaga	taattatttt	tccttaatta	cctcacttag	ttattttatt	155400
	taaacattga	aacaattttg	ctaagtctgt	attatctaca	ttttatagaa	acatttagaa	155460
30	aatgtgaata	ccatgcctgg	ggttgaaaat	agagcatttt	gttttgcttt	ctttcacctt	155520
	cttcaacttg	cttcttaaag	gatataatct	tctttttaat	caattgtggg	ataacatata	155580

ES 2 784 246 T3

	tat	ttt	taatt	ataatagaaa	tg	ttt	at	tttc	atatgttg	tg	atcataaaaa	ctt	gg	aaaaat	155640
	aaaaatagaa	acaaattcaa	attacgattt	gtagtttctt	ttttttaaca	tgt	catatag								155700
	cttattgctt	at	ttctgaaa	aaaaaattgt	ctt	ggaacct	tccaagttgc	tg	cccactct						155760
	gaaatg	tttt	actctataca	gc	ctttg	ttt	ggggcatgta	act	tttctttc	tt	ttttttatt				155820
5	attatacttt	aag	ttccagg	gtacatgtgc	acaatgtgca	gg	tttgttac	gt	gtgtgatac						155880
	atgtgccatg	tt	ggtgtgct	gc	accatta	act	cgtcatt	tac	attaggt	at	atctccta				155940
	atgctacccc	tccc	gcctcc	cccaacccca	caacaggccc	cg	gtgatga	tg	ttcctctt						156000
	cctgtgtcca	agt	gttctta	tt	gttcaatt	ccc	acctatg	agt	gagaaca	tg	cagtgtct				156060
	gctttttttg	tc	cttgccat	ag	tttgctga	gaat	gatggt	tt	cagcttc	at	ccatgtcc				156120
10	ctacaaagg	ct	aaactca	tc	at	ttttta	tgg	ctgcata	gt	attccatg	gt	gtacatgc			156180
	gccacat	tttt	cttaatccag	tct	atcattg	tt	ggacattt	gg	gttggttc	ca	agtctttg				156240
	ctattgtgaa	tag	tgtctgca	ataaacatac	gt	gtgcatgt	gt	ctttatag	cag	catgatt					156300
	tataatcctt	tgg	gtatata	cccagtaatg	ggat	ggctgg	gt	caaacgg	at	ttctaatt					156360
	ctagatcttt	gag	gaatcgc	cacactgtct	tcc	ataatgg	tt	gaactagt	tc	acagtccc					156420
15	accaacagtg	taaa	agtgtt	cct	at	ttctc	cacatcctct	cc	agcacctg	tt	tttttct				156480
	gacttg	ttaa	tgatcgccat	tct	aactgt	gt	gagatgat	at	ctcattgt	gg	ttttgatt				156540
	tgtat	ttctc	tgtggtataa	tata	cttaa	gag	tctgtg	tct	gtcatta	ca	acttaa	at			156600
	aaacttatta	ga	attgtaaa	ctta	agcatt	tac	atgtatt	tt	acctagat	att	gaagtat				156660
	tcagtcttta	gaaaaaatga	t	aaagagggg	gaaaacatta	gt	acaaaata	ag	atatacta						156720
20	acaaaag	ttt	gaaacgatac	aat	gaggca	at	ttaccagt	tac	ctaagaa	tg	cacaaatg				156780
	cattaaacta	ac	gggatgt	gt	ttta	aatag	ctgtgatatt	tt	aagaagt	cc	gatacagc				156840
	tattccattt	ct	tattcaag	tat	ctctaag	gc	acttctag	gt	acacataa	ct	gggagaaa				156900
	at	tttaaaaa	ccaaccaa	ac	aaaagaaa	ac	tttctatc	tg	ttccaac	ac	acatgaca				156960
	gacagattaa	aat	ctat	tttt	at	gttaaaaa	tataattgcc	tt	taaaaagg	ag	agaggaaa				157020
25	tatctgctaa	tac	caaagac	aa	gggtaaa	t	aaat	tt	aat	gc	ctatgagg	gg	ggggaagaa		157080
	ggcagat	tttt	ccacaaagta	ac	agcgatta	ct	ttgacaat	ag	at	ttt	tatc	act	aaaaata		157140
	aataaggtca	ata	aactatt	at	ccttaa	ag	tattcag	ttt	agaatc	cttt	atgatag	tt			157200
	taccattata	ct	atgtggtg	gg	tgtcagag	tga	aggcatt	ta	agaa	at	aaagactata				157260
	aaagcttatt	at	ccacccat	ct	gaaagga	cc	actaaggt	tg	tagctgag	gaa	acaatac				157320
30	tgtag	tttaa	aaaagtaagg	tt	caaaataa	aat	cttaaca	g	caaagtg	tt	gaaacatgct				157380



ES 2 784 246 T3

	ttattagttt	ttcaatactg	tggaataca	aactaccaca	catgtagtaa	cttaaaatta	157440
	accagat	tttatcttat	agttgtggag	gtctaaagtc	caaaatcctt	ctcactgggc	157500
	caaagtccag	gtggtggcag	gactggcatt	ttgggaataa	ccttggatag	aattcttttt	157560
	cttgctggt	tcagcctctc	aattctactt	gtaattctta	ggtttttgct	cctatctcca	157620
5	tcttcaaagc	cagcagtggg	gcatctttta	acctccgtga	cttctgcttt	catggccaca	157680
	tctccttgtc	tcactctttt	gcctccttct	tttctgtata	agagcctttg	ggcccatgca	157740
	cataattcag	gacagtctct	ccattgaaat	atccttaatt	taatcacatt	ttcaaagtct	157800
	ttttgccatg	taaggtaaca	cgtttacagt	ttccacagat	tagggggact	aatccaactt	157860
	tgggggacta	cttattctgc	ctaccacaca	tattgataga	gctaaaaaaaa	agtactatac	157920
10	aaaaaaaaag	aacagtgatc	ctgttttttt	ttaaacaga	gcaagagaga	ggaactacat	157980
	tagtaatggt	agtaaataaa	catcaaaacta	actgtaaaga	aaataaaagt	taaaataaaa	158040
	gttaaaaaag	ttattcaaag	tcaaagtatt	aatacactat	tgagaaaatc	aatagagcaa	158100
	agagttggtc	ttttgagaaa	acaatatgt	ttgataaact	gctagaaaga	ataaccaaga	158160
	caaagcatgt	ataatgcaca	aatcatccat	atcacaatac	gcatacataa	aaagttaata	158220
15	agagattatg	aattgttata	tatgaatcaa	tttgaaact	tagatgagat	ggataaaatt	158280
	tcccaaaaac	tgcaacttag	tagaaaatac	accagaagaa	atataagttc	taaatagtcc	158340
	tatatctatt	taaaaaatga	atacctaatt	aatgaagaaa	acttttgtga	gattagaaca	158400
	aacttgaagc	ccaaccagt	taagacatta	taagaaagga	gaattgctga	cctgtctttc	158460
	tcataagcgt	agatacaaag	aattctggat	ggactagcta	tttatttatt	tccagggata	158520
20	tattaatag	atgatacacc	aaaaataaat	tggttttatt	ccaggaacac	aaggttggct	158580
	caacatttaa	aaattgaaca	atttaactta	tcatagtcgc	aaaacaaatg	agagaataca	158640
	tctgattatt	tcaacatttg	caaaaagttc	acttgttgta	atttagtacc	cactcatgac	158700
	ttgaatgtgt	acttagaagg	tataaataaa	tgtatagata	aattatgaga	actactgagt	158760
	gaatttagta	agatcattgt	actcaagatc	gataaagaaa	aataattttt	gtatgtatat	158820
25	tgccacaaag	aactataaaa	tttgaaaatc	ggatgccatt	tataatacca	taatataact	158880
	ctagaaaaaa	aactaaaaaa	cccttaaaaag	gtattaacaa	ggagaactac	aaaatattac	158940
	tgacagaatg	tacaaaagac	ttaaataat	aaagttatat	tctatgtaa	gcagtaaaaa	159000
	actcagcgaa	attaagttgt	gtttttccct	aaattgatcc	attggtttac	tacaatcata	159060
	atttaaatct	aagctgcatt	tttggctgaa	aaatttcaaa	ctgaatctaa	actatactgg	159120
30	gaaatgcaaa	agacctagga	aaggcaaaac	actcttgaag	aagaaggtgg	acaatttata	159180
	cttgtgaagg	tgttgcattt	attatgatac	tctagtaagg	aagacagtgt	agaattagtg	159240

ES 2 784 246 T3

	taaaaataca	caaatagaac	aataaaaagaa	aaaaaataga	ctttccaaca	aattatgctg	159300
	tgcaattaa	atattcctat	agaaaaaatg	aatcttctat	tttacacat	atgtcgaaat	159360
	caatthtagg	tgaattgtaa	atctaataatg	aatggcagaa	caataaagtc	ataaaagata	159420
	atatgtgadc	atagthttat	aatcttgagg	taagcaaatg	tgthtttttc	aaaactggac	159480
5	ataaacaatt	ctaaccgtaa	agaaaattat	tgatatattg	aattatgcta	aaaagacatt	159540
	ctgctcataa	aaatatatga	ttaagcctgt	gagagtcaaa	ccacaggaga	gagaagattt	159600
	ctgaatthct	agcaatacca	agacaaaagg	atacaagaca	atthtaaaac	tgggcaaatg	159660
	cactthtaca	taaatctatc	aaaactgcta	gtaaatgtga	caatgtgctt	ggcatcatta	159720
	attattctag	aactatgacc	tgatgctaata	gcctgcatat	taagagtga	tacaattaaa	159780
10	aacagaagaa	aaaaactctt	tattatcaaaa	atthctcata	tcttactggg	gggagtgtaa	159840
	attggtacag	tccctcaaaa	atctctthta	cagatccact	aaagctaaac	atthgcttac	159900
	tgtataacc	agcagttcca	ctgtcaggta	tatgccccac	agaatgttat	gcatatgttc	159960
	acaaaaatgt	atacacagga	atcttcatag	gtgcaatgtt	catgtgactg	taagtgtaaa	160020
	caattcaagt	gthtataaac	actagaacag	ataaaaaatt	ttggtatgtt	catataatgc	160080
15	aatactataa	agcaatgaaa	atagacaaag	aattgccata	tccaacagaa	taagcagaaa	160140
	tgaatacaga	caacatgatt	ccatthtat	caatthtatt	tatthattht	tacttatht	160200
	thctthtatt	tatthattht	thtgagatgg	agtctcactc	tatcaccag	gctggagcgc	160260
	agtagtgcaa	tcttggtcca	ctgcaacctc	tgccacccaa	gttcaagcga	thctcgggcc	160320
	tcaacctccc	gagtagctgg	gattacaggc	acatgccacc	acaccggct	aatthttgta	160380
20	thtttagtag	agatgggggt	tcacatatt	ggccaggctg	gtctcagact	cttgacctca	160440
	ggtgatccac	ccaactggc	ctcctaaagt	gctgggatta	cagggtgtgag	ccaccacacc	160500
	cagcctcatt	tatgtccatt	thaaatgaaa	thataatthaa	tctatagttc	tagtaactta	160560
	tatgtthctt	thattthctt	thcttatatt	gacattaata	atacccttga	thttthattag	160620
	aacatgccta	ctthtcttht	ththaaaata	accttattta	caactgacct	atthaatthta	160680
25	ggcagcatat	aactaattht	thttggthtg	gthttatthg	atataatctg	ataatcttht	160740
	thactcattg	agthgagtht	aactcaththt	tatthtaatt	ataattatag	gtataththg	160800
	ggtcagaagt	tagaaagtat	thctctcttg	tgataattag	aatthgagca	gaacttccat	160860
	gthgatataa	tatthcttga	tcagagtggt	aataaaattht	atcgagatgc	acatthtaata	160920
	thtatgcacgt	thtgaaacat	acataatag	tatgccaata	aaatattcaa	caththctata	160980
30	aatthaatgc	ctthaatgaga	thaaataatcc	aagaactgaa	gaaaccactc	thaacatacat	161040
	agataatgtg	thggatgtga	tatthataatt	cthaataaaa	thaatatctc	cccacattat	161100

ES 2 784 246 T3

	aagcaaaaaa	aaaaaaagata	aattttaaag	gaaaatatga	aagaggtcac	atcaaaagta	161160
	ttagaagaaa	taaagaagaa	tgcatatgtg	gcatcaaggt	aaataatata	ttatntagga	161220
	agacagcaaa	agaaaaatca	ctaaccagcc	gagtgtggtg	gctcacgcct	gtaatcccag	161280
	cactttggga	ggccgaggtg	ggtggatcac	ctgaggctctg	gagttcgaga	ccagcctggc	161340
5	caacatgggtg	aaaccccatc	tctactaaaa	atacataaag	tagccgggtg	tggtggcggg	161400
	cgctgtaat	cccagctact	tgggaggctg	aggcaggaga	atcacttgaa	cccgggaggc	161460
	agaggttgca	gtgggctgag	attgcgccat	tgactccag	cctgggtgac	atagtgagac	161520
	cctgtcaaaa	aaaaaaaaaa	aagaaaaatc	actaaccata	gaagaagtac	agtgcaatct	161580
	aacttcattg	aatcacaggy	cttttttaac	aacaacaaga	tgccataaac	atacttaaag	161640
10	gaaataggat	caattaggaa	aatatattta	ccatgtatat	aataaggta	gaatTTTTga	161700
	tagaaatgta	aattagtata	aaatttgaag	gacaaatTTT	aaatatctat	taaaatagaa	161760
	aatgaacagc	aaaaaatata	tgtatgcatg	tgcatgtatg	tgtgcatata	tatgtgtgtg	161820
	tgtgtgtttg	tgtttgtgtg	tatatatatt	tatattcttt	aaatatgctg	tacacaggta	161880
	caatggaatg	tttgttgag	caatatttgt	aaacataaaa	atacatatgg	cctaaatagt	161940
15	cttcaaaact	gctaattact	ataatgttga	atacaattta	aattcctata	tatcagggtga	162000
	aaagaagaat	gtgtctcaat	agttacatag	gaatagacat	tacagtacat	tttgaatgtg	162060
	gcgtaaatatg	tctatagtga	tcttatttat	ataaattaaa	aataatcatg	ctcaaaaagt	162120
	tatacagatg	gtccctgact	taagatggtt	ccacctacag	tttttcaact	ttacaacgat	162180
	gcaagaggag	gatctgtatt	tgtaaataag	ttgtactaaa	tttaaacgaa	tgctatacag	162240
20	ccatccctgg	gaatctgcca	ggtattggtt	tcagagcacc	cctaccctat	accaaaatct	162300
	atggatgctc	aagtttctta	tataaaatgg	tgcagtatTT	gcatataacc	tatgcacatc	162360
	ctcctgtata	ctttatTTTT	tgtagagaaa	aggctctgct	atgtcaccca	ggttggtctt	162420
	gaactcctgg	cctcaagtga	ccctcctgct	ttggtttccc	aaagtgataa	gattacaggc	162480
	atgagccacc	attcccacc	ttgtacactt	taaatcatct	ctagattatt	tgtaatacct	162540
25	aatacaatgt	gaatgcaatg	ttgctacact	gtatTTTTaa	aatttgtatt	tttaattggt	162600
	gtaatgctat	TTTTtattat	TTTTtccgaa	actttcaatc	tgctgttggt	tgactttggg	162660
	aatgtggaac	ccattgatac	agaaggccaa	ctgtgtgtat	atagatatat	atacacacac	162720
	acatacatat	atatatatgt	gtttctcaga	aatgactctg	tgtgtgtgtg	tgtgtgtgtg	162780
	tgtgtgtgtg	taaaaagcta	tgaaatgcag	tcataatgca	ggttgcttct	gacagggctg	162840
30	aacagtggga	aaggaacaag	ggagaagaat	gaaacaggaa	tgacacagag	tacgatgcta	162900
	cataaaaact	taaattagct	TTTTTTTTtc	ctaatttgaa	aatatgaagc	aaatatttaa	162960

ES 2 784 246 T3

	gaat	tttg	aa	gc	atgt	ttta	ac	atgt	gata	at	gtag	tttt	ta	163020
	ctta	taatt	aa	ttat	cagag	gatt	tttt	tc	tgaa	ataat	aggg	aaatt	tt	163080
	aggt	agct	gt	gagc	attg	aa	ggag	aga	tatg	aaaaa	tcaact	cctg		163140
	gacct	gggt	aa	actt	gtgct	aa	acaaa	ag	acag	agag	cag	atac	aca	163200
5	cccc	caaga	tttc	agct	ta	atct	tact	ta	tatc	atc	gagt	tg	gg	163260
	aaa	agag	ggg	agg	cctg	ta	caata	attct	ttt	attc	ata	tatt	tact	163320
	ctta	ttg	ag	ta	ga	tacc	ctg	tc	tagg	tatt	ca	attt	actc	163380
	catt	ctg	tct	caag	ga	tgat	gatt	tc	tgta	ata	gcaag	tg	ca	163440
	aatg	atag	aa	gaa	atag	ttt	gtg	gat	attg	aa	accg	ca	att	163500
10	gtt	gaaa	agc	acag	atg	gaa	agag	tg	gaaa	actg	ca	ctac	ccat	163560
	acag	tatta	aa	agg	acag	g	acatt	tg	g	aa	ca	ct	tg	163620
	gacag	t	cctt	gtg	aaa	aca	accag	ca	gaatt	gag	gc	tg	aaa	163680
	gtt	gcca	act	aacc	ctt	ca	actg	ttcca	gttt	tatt	gg	tg	gga	163740
	attt	cca	aac	tg	aa	atg	ac	aca	agga	att	gctg	tttt	cg	163800
15	tg	caa	agg	aa	gtt	ctc	agga	gag	accag	at	atag	aa	ag	163860
	tttt	ct	taa	aaa	agag	act	agaa	gg	taa	agg	ta	ag	tg	163920
	tatg	aa	caaaa	ag	tag	at	gg	tg	gag	aa	ttt	g	g	163980
	gg	aga	ataaaa	caag	tg	ata	ca	ttt	ag	ttt	gg	aaa	ag	164040
	ttc	ag	ggatg	ttc	ag	ttg	gc	ag	atg	g	aa	aaa	ac	164100
20	acatt	tttag	ag	aag	ctg	ca	tga	ag	ctag	t	tctc	ttt	ta	164160
	taata	ag	ctt	cata	acc	act	cact	tca	taacc	act	tc	act	tc	164220
	ggc	ctg	tg	agg	gag	ttt	ac	ta	atg	aa	gt	aaa	gt	164280
	tgt	gata	ca	ttt	ctc	agga	acatt	ctt	ttt	tg	gc	atg	atg	164340
	tg	cg	gc	ag	gag	gaa	tatta	acata	tga	ag	ggg	gag	g	164400
25	ttt	act	g	aat	g	aat	g	aat	ct	ct	at	at	at	164460
	cac	ctt	ct	act	ct	tag	ag	tg	ttc	ct	ta	cag	g	164520
	catt	ttt	taaa	aa	t	g	aaa	act	g	ta	ca	act	g	164580
	ag	tag	ct	g	ag	tt	act	g	ta	g	aa	ca	aa	164640
	ag	ta	atta	tt	ct	cc	att	ttg	ag	ag	tt	g	g	164700
30	ttatt	cat	at	tg	ag	aa	attg	att	ttt	ctt	ttg	c	ta	164760
	ctag	t	ca	gg	at	g	at	g	at	g	at	g	at	164820

ES 2 784 246 T3

	acacattcat	cagtcattgct	cttattcaga	atcagggcac	aaattttaaa	caataaaatc	164880
	catgtgaact	taaaaatatg	ccttcgagtt	attgaacatc	taattaaatt	gcttatttct	164940
	cattatgcct	tctctaacia	taaatgattt	tcattcctga	atcccaatgg	gattttcctg	165000
	gtccacttgt	aagttgttta	tttagataca	caatgtgaat	ctatatggtg	atthattttg	165060
5	taatggttca	caggactggg	ctactttcct	ctgagtgagg	gtaaaattaa	tcagtaggaa	165120
	atgaatattg	tcagtgtcaa	tgattataag	aggaaattat	atgtgggagc	aagagagaat	165180
	gaagcagatt	atthgtggtt	aggagttaat	tcagagggat	ccatgcataa	tctccatctc	165240
	cgccaatttg	gctgttttac	tcctgttgcc	atcatgccag	catgggatgc	tcaatatcag	165300
	aggctggctg	acatcaactg	gatgaaacca	tttgttgatt	gatggtttat	tgtttcttcc	165360
10	atggtgaatg	attgctactg	ggaaataata	tgggatacaa	agatcttcaa	acattatgct	165420
	cacttccata	tatctctctc	cattcagatc	tccttttccc	cagtctctaa	tctttctccc	165480
	tgcaggcacc	tgtcccattg	tccagtccgt	tggatcatggc	tcatgaattc	acacataatt	165540
	ctaatacccag	actatttctc	ttcccacaca	caatagatga	ccagttttac	tgtttgaagc	165600
	tctgcccatt	gggagcaatt	ttctttacca	ctctatttta	aggatcactcc	tgagaaagga	165660
15	ggtaatgcaa	ctacagacta	tttttacctt	gcatccacat	atctaagcaa	attatccatg	165720
	agctaagcta	ggggtatttc	ctcctccttc	atthgttgtg	ggatctctca	tagggccact	165780
	ggagtgatct	caagagagtt	ggcactggtg	cagcagtgag	gagtgtcaca	gggctctgag	165840
	atgcttgctc	atgcagcttg	cttgtgccct	cttgtcttgc	ttatgcttag	ccattgatgt	165900
	gactacatac	attcatctga	caccatgtgc	catataagcg	atgcttaatc	ttaggactca	165960
20	atctggacag	aaccactca	tggcagggct	gcttacatca	tagtctagat	ctctgaagag	166020
	cccttttctg	ttctgggtca	ccctcaaadc	tgccagcctt	ctgcacgatt	aaattatagg	166080
	ccatagcaat	attctcgagt	gtagaaaacg	ctgtttccag	atcctgaaga	agtctaccag	166140
	gtagaatgat	tccttctctg	tggatgtagg	tgagagatgc	aataatttgc	tttttacatt	166200
	ggctaagatg	tcccatcata	tacctaacct	atgtgtccta	aaaattataa	tgagatgaga	166260
25	ggcccttgaa	tcttagcagg	attcatctcc	ttcactcaa	agtgcacaca	tttactaagg	166320
	tttctgacat	gtcattgaaa	ttgcctttca	aaaattgtaa	cagtttagata	aatctaacat	166380
	agctgactct	gtcttgtttc	taacctcgca	agcaactgc	ctttgcccat	ccgtacatgt	166440
	aggacaagct	aactatggga	agaatttagt	ttatagttha	aagcaagaat	gatagtagtc	166500
	tcttcccaaa	actaatctcc	cacttattca	ggatctgaag	tcgctccttg	taaagctaat	166560
30	aaaaggccat	aattttagaa	ttacagtaag	atcctgaatt	ctgctaagtc	taggcatagt	166620
	taaataataa	ctagtcatth	tctcctaata	gatttactgc	tcaggagtca	tgtagccaga	166680

ES 2 784 246 T3

	ggtcacaaaa	tttgtaactt	ccctaattgc	cccgagagac	agcattgcta	ttgcaaaacc	166740
	tgactgggtg	ttgcaatatt	ttttagagtt	tgcattcctt	gggccaacag	atgccaacca	166800
	ggctcatgac	ccatatcaaa	aaactgactc	aactgctcct	gtgacaaccc	agaaactgac	166860
	tcagtgcacg	aaggcaatth	tgatgcccgt	atgatttcat	ccccaaccaa	gcagcaaatic	166920
5	aaattccata	gccccttgcc	caccaaactg	tccttaaaaa	aaacctcacc	tccaagttct	166980
	tagggaggca	gatttgagaa	ttatctccca	ttctcctcac	ttggctggcc	ctgtgattat	167040
	ggaactctgg	gctgcaacac	ctgctatgct	caatgtattg	gctgttttgg	aaacagtggg	167100
	caagaagaac	ctgtcaggct	gttatgttcc	cagacagaac	tggggctccag	ctgcttgctc	167160
	tcatggttca	atcataagat	gcaaacagac	tgggcaagaa	gggagtttct	gcaaccagtt	167220
10	acagggagaa	aaccagaata	actcaacaga	ccaactcaaa	gttacaagtt	tttctccagt	167280
	gcttataata	cattcaaacc	atatgcctac	gtgtgggaaa	gcacctaaa	actgaagtgt	167340
	ttcactctgt	ctaactttta	actagggttc	agatctggaa	attacttcag	agcctaggaa	167400
	caattatgta	atctaaagtg	ggtcttggtg	caaggtgtgc	aagaatgcct	ccttttatta	167460
	attaaactct	aatgtctgag	aaagcccagg	tggggctcta	atggacttgt	ttttacattc	167520
15	taacccttgt	actaaggcac	cagtttctcc	agttctttaa	tgcttaagtt	atacactcat	167580
	cagatttaca	ctaaggtggt	ggtgaaggat	gactgccttg	gttgctaata	gagacctggc	167640
	ctgccacaat	tacactagtt	atttcttact	cattcctcag	ttagcatcat	atcattgatg	167700
	gagtggatca	tgtgatgttg	agtgagatgc	atagataatc	tagatttcct	tggactatat	167760
	tttaacagag	gttgggggca	gttaacataa	ttgtgggaca	aaacttgaaa	catttgctgt	167820
20	cgttcctgcc	ttgtgaatgt	gaattttttc	agaactgctt	tttctgctaa	gaatagaaaa	167880
	gagtgtattc	aataaatcaa	tggccaatta	taggtacctt	agaccaagct	aatgtgcttt	167940
	tgcaaggatt	ccatatttgg	catggtggct	gcaattgtgg	ctactattac	tttgtacttt	168000
	gtagtggcag	cttaatatct	tccgttggga	tctgtttggt	tactgcagga	atcaaactgg	168060
	taaatcatgg	tgtttgttgg	gaccaccagc	ctatgtcctt	tagatcctga	aggtgcttct	168120
25	attaataactt	tctgccatcc	atcccctgag	agtcaccagc	tgcccaatgc	aatattgttt	168180
	tagaaatacc	atctagataa	tgtaactctg	tgtcccatca	tgcaaggctt	ggtaatatat	168240
	ttacttttgt	gtttactttt	ctttctaatic	cattatctat	ttctcagcca	atatgagctt	168300
	tttaaaacac	aatgagatt	atttaatttg	tctgctaaaa	atccctcaat	ggctttctac	168360
	tgcccttcca	ataaaatcag	aatctctgat	taaaaactaa	caattcttat	gatttttgac	168420
30	cctgactaga	tttttggcct	taaaatacat	gatcgtccac	ctctagcaca	agcctccagt	168480
	cataggattt	tttgcattct	aaacacagca	cctttcccat	cagggcattt	ggacttgctc	168540

ES 2 784 246 T3

	ttccctccgc	taagagtgct	tttcccagca	cactgaagga	gggcttgcac	ttcatctttt	168600
	tattttcaac	tcaaataata	catcttcatg	aggtcttacc	tgaccacata	gtccctgaaa	168660
	ggttcaccga	aaagtcaactg	gcatgaggca	cattgattaa	taggagaaga	gacataaaca	168720
	tttattttaac	ttctatacgt	gggagcctta	agaatgaaga	ccagcttccc	aatgagttac	168780
5	agaaatgtat	ataccatctt	gaggccacag	taaagaatac	agactcagaa	catggccaga	168840
	aactggttat	attggtaaata	caggcttagt	gaaaagacag	gttatgagag	agagaaagaa	168900
	gcttgactag	caaatgtgac	cttgttatgt	agatgaagct	tcccttagaa	tagagggtaa	168960
	atgtttctct	tcatacttta	aagggtgcag	actctccagt	ttcttcagga	tctggaaaag	169020
	cacaggaaag	ggaggcagcc	tggctgcatt	gaaggaaatt	ctctacagat	ccaaattttc	169080
10	cccacaaaag	acagctttgc	agggccactt	ttgtttgcta	gccaaagtggc	agccatttca	169140
	aaatatgtca	aaaaatacat	tttgagggta	agatcattaa	atttccttta	ccaccatgat	169200
	taaggtagca	gctccattta	tatttccttc	agctagtttt	tctgcgtatc	cacttgctctg	169260
	tttgtgtgtc	cacactgact	agaatatgag	ggcagcagca	ggaacaacag	caggacctag	169320
	gagtggttgt	gacttctttt	gatctcaagg	aggttcttct	aaatgttgat	tctactggaa	169380
15	tatgacatac	cagtagacag	atggacagac	atctaactctg	catagatggg	atltggagtt	169440
	attgtaatct	caaattagga	agtcagagag	gttctttata	tcctaattggg	tgaagctagg	169500
	tatacaagtt	tcatagatat	ttttgtacgt	atcaactttg	gtttaaaatt	aatctagtac	169560
	ttctattttt	aaataatgat	aaatgtatga	catatagaca	tgcaactggc	accacaaatt	169620
	aatgaatggt	atattttttc	caaacttttt	aatgaagccc	tttattccat	atatatgaat	169680
20	aaagggcttc	attaaaaatat	atataataa	aattttatat	atataatata	tatatattttt	169740
	aaagaaaata	attccaggta	tagttagagc	aaatctccct	catgtcttac	aactaatttt	169800
	ctacttcccc	acgcataatg	gatctcacag	cattttgttg	cattcctata	cacattcaaa	169860
	tttttaaaaa	atataatata	atccataatt	tcttgatttg	ttttgtttta	taatttatat	169920
	aaatgcagtt	acatcaaata	tattatgctc	caacttgctc	atcttaaata	atagctttat	169980
25	attctgagag	aaatccacgc	tgagcatgtg	actctattta	aatcttacct	gttgaaaggg	170040
	cccttatgcg	cagagacaga	ctgtccccct	gtaggtccta	agaggagttc	agtaactgcc	170100
	ctgatctctg	aactcttggc	aggtctccca	gactcccagt	tcttgtcagg	acgccctcct	170160
	cccaattggt	ctgccctgaa	cggattgtgt	tttctccact	atctgccctg	caaccaagca	170220
	agcgttatct	ccccattttt	atcatcacag	aaaggccagc	cttccaggac	atctctaate	170280
30	cttcaattct	aaccacacat	gcattcaata	catcaacgtt	tctcaatatt	taatgtgcat	170340
	attaactact	tatttttttt	ttttttgagt	ctcactctgt	caccaggct	ggagtagcag	170400

ES 2 784 246 T3

	ggtgtgatct	tggctcactg	caacctccgc	ctcccgggtt	caagttattc	tcctgcctca	170460
	acctcccag	tagctgggat	cacaggcgtg	tgccaccatg	cccggctgat	ttttgtatth	170520
	ttagtagaga	cggggtttca	ccatgttggc	caggctggtc	tctaactcct	gagctcaggt	170580
	gatctgcccg	cctcggcctt	ccaaacttct	gggattacag	gcataagcca	ccacacctgg	170640
5	ccttgaacta	ctttttgtca	catgaccttc	tcctcttca	agtccagcaa	cagagaaatgc	170700
	tcctcactth	agtttcctct	tgtgcttaa	gtctctgtca	acaggacaaa	cttgtccata	170760
	ttgacgactc	acctgattgc	gtcagggctg	ctagaggagg	atttcattat	cttaagatta	170820
	acttgggagg	ctgaggcagg	agaatcgctt	gaacccggga	ggtggagggt	gcagtgaact	170880
	gagatcgggc	cactgcactt	tagcctggga	gacagaggga	gactctgtct	caagaaaaaa	170940
10	aaaaaaaaag	aataactcgg	tgagaggtgg	ccaagatggc	ttattagaag	cagctagtgt	171000
	gtgtggctct	cacagagagg	acgggaaaag	gcgagtaa	acagcacttc	aactgaaaca	171060
	tcaatctact	cgcatggga	ataatcaagg	gaacaactca	accacagag	aatggagaag	171120
	agcaaggcag	gacactggac	cacctgggag	tgacacagag	caagaagaac	ctcccctgcc	171180
	caggaagca	gtgagtggat	gtgtgaccct	gggaagccat	gcttttctgg	tgagtctttg	171240
15	cagccctcca	gtcaggagat	ccccttgtga	accactcca	ccagggcctt	cagtgtgaca	171300
	cacagagctg	ccgtggagtc	tcggcaaagc	agccactcag	gcatatgcaa	acagcaggaa	171360
	gccttagatg	ctcaggctth	ctgggcttct	gggcaaaagt	agctgcaact	ctagcaaagc	171420
	aggagggtag	atccctgtac	atatccctag	gaaaggggct	gaatccagaa	ggcctagcag	171480
	tgacagtctg	catgttccac	ttccacggga	ccttgcagga	taagacccat	tggattggaa	171540
20	ttccaaccag	tcaccagtag	cagcgttaca	cctccctgag	acagagcttc	caagaggagg	171600
	ggcaggccac	catttttgct	atgtgggtga	cttagtcatt	ccaggcttca	agctttggag	171660
	agttcaagcc	aactaggggt	ggaaaggatc	ccacagcaca	gcacagctgc	tcttaaaagt	171720
	gtggccacat	tgcttgttta	agcaagtcca	agatcccgtt	actcctcaca	gggtgggacc	171780
	ttgcaactgg	ggtctccagc	caccttctac	aggtgtatth	gggctggcaa	cgggcttgta	171840
25	acttctcggg	aaggagcttc	cagagtgagg	ggcaggccac	catctttgcc	atthtgcagc	171900
	cttcaactgg	ggtaatctcc	aggtaatgga	aaatccaagg	caactaggga	ttggagctga	171960
	cctgcagcat	actacagcaa	ccctataaaa	aagatgtcag	actgttacgt	gggtgccccat	172020
	tcccataatct	tctcaccagg	tgcatcctcc	aggcctgagc	ctccagccac	cctctgccag	172080
	agctatcaac	tccttaggac	agtgccatca	ggagcaagtg	aaatcctctc	tgtcactgcc	172140
30	tctgcagctg	aactgcctth	cctagtctca	gactgatgaa	ggattgaaga	ccataaagtgc	172200
	cttatgcaca	cctccaacaa	ggtgcagtca	acccaaggag	aggaggccag	ttcatcacc	172260



ES 2 784 246 T3

	acgggtcccc	cacatacccc	actgctcatt	accagactgg	gaaccctgg	cttgggcccc	172320
	cagcacaggc	cctccatccg	gggctgattg	cactgagtga	ttgctgacct	taaatctctc	172380
	tggggtggag	ttcccaggag	aaaagcaaaa	gactcgctgc	cataaccagt	actaagttct	172440
	cttcctttac	tgactctaag	ttgggaagga	acataaacac	tgagattgcc	acagagtggc	172500
5	agtggacagc	ccaggcatgc	caagctggta	tctacagcag	cactcaaggg	ggagaggaac	172560
	ccatactttc	aggacattga	gaggcaacat	ggctacaact	gaaggaaaca	gagcaagagt	172620
	ctatcagctg	gcaagtatgc	ctgagtgaca	cctactaaat	cacaccccaa	agcttcaaca	172680
	ccaaaaatac	cttgctaaca	cgccccctc	tgaaccaga	gacaaggagt	cagcttcaaa	172740
	taaagacccc	gcacaaagcc	tttaccagc	gagaatatcc	ggcaaagtct	attgactgta	172800
10	ctcaatctat	actgcagtta	aaggaacaca	cacatgcaga	gatgagaaag	aaccaatgca	172860
	agaactctgg	taacccaaat	ggccagtatt	ctatgtcctc	caaatgacca	caccatttct	172920
	ccaacaagag	ttcttaacta	ggctgaactg	gttgaaatga	cagaaataga	attcagaata	172980
	tggataggaa	caaagctcaa	tgaaattcag	gaggatggca	gaagccaatg	taaggaaact	173040
	aagaatcaca	ataaagtgat	gcaggagcta	aaggatgaaa	tagcgggtgg	aaaaacaaac	173100
15	aaacacaaca	cccaatgggt	ctgtcagagc	tgaataactc	aatacaagaa	tttcacaatg	173160
	caatcaagta	ttaacagcag	aataaaccaa	gctgaggaaa	gaatctcaga	acttgaagac	173220
	ttgctctctg	aaataagaca	gacaaaaata	aagaaaaagt	ttataaatg	tgataaacia	173280
	aacctttcag	aagtatggca	ttatgtaaag	aggccaagtc	tatgagtcac	tggcataact	173340
	aaaagggatg	gggagaaagt	aaacaacttg	gaaaacatat	ttcagggtat	catccacgaa	173400
20	aactttccct	atcttgccag	agtccaacag	tcaaattcag	gaaatacaga	gaatgcctgt	173460
	aagattctac	atgagaaggt	catcccaagg	tacataattg	tcagattttc	caaggtcaaa	173520
	atgaaagaaa	gaatgttaaa	ggaaactaga	gagaaaggtc	agtttaccta	aaaagagaaa	173580
	cccatcagcc	taatagtaga	tctataagct	gaaactttgt	aagccaaaag	agattgggaa	173640
	cctatgttaa	acattctaaa	aaaaaaaaaa	aaaaaaaaat	tcaaccagaa	attttatatc	173700
25	cagctaaatt	aagctttcta	cgtgaaaaag	aaataaggtc	tttttcagat	aagcaaatat	173760
	tgaggaagtt	cattacctcc	agacctgcct	taaaagagat	cttgaaaggc	ggaaaggagc	173820
	actaaatata	gaaaggaaag	accactagca	gctaacacia	aaccactgaa	acacacagat	173880
	cagtgtcact	ataaagcaac	cacacaaaca	aaccaataca	ataaccagct	aacaacataa	173940
	tgacacaatt	aaaccacac	acatcagtac	taaccttgaa	tttaacaag	ctaaattcct	174000
30	tcacttaaaa	ggcacagagt	gacaagctgt	ataaaaaagc	aagaccaat	ggtatactgt	174060
	cttcaagaga	cccgtctcac	atgcaatgac	acccataggc	tcaaaataaa	gggatggaga	174120

ES 2 784 246 T3

	aaaatctacc	aagcaactgg	aaaacagaaa	aaaaagcagc	agtgagaatc	catatctcag	174180
	acagaacaga	tacagatctc	aaacccaaaa	aaagcgggca	ttacataatg	gtaaaggggt	174240
	caaatcaaga	agaaaacct	actatcctaa	atatacatac	acccaacaca	ggaacaccaa	174300
	gattcataat	gaagcaagtt	cttagagatg	tacaaagaga	cataaacctc	catacaacaa	174360
5	tagtgggaga	ctttgacact	cactgacag	tactaaatca	tcaacataga	aaattaacaa	174420
	gatattcagg	gcctaaactt	agcactggat	caaatggatc	tgattgacat	ctacagaact	174480
	gcacctaaa	acaacagaat	attcattctt	ctcattgcca	catggcacat	actctaaaat	174540
	tgaccacaca	aacgaacaca	aaacaatcct	cagcaaatgc	aaaataatca	aatcatacc	174600
	aagcacattc	ttggaccaca	gcacaataaa	aatagaagtc	aataactaaga	aatctctcaa	174660
10	aaccatgcaa	ttacacgcaa	attaaacaac	attctctgta	atgactttgc	gtaaatattg	174720
	aaatcaaggc	agaaatcaag	aaattctttg	aaactaatag	aacaagggta	caacatgcta	174780
	gaatttcggg	gacacagtga	aggtggtggt	aagagggaaa	tttatagcac	taagttccca	174840
	catcaaaaag	ttagaaaaat	ctcagattaa	caacctaaca	ccataactga	aagaattaca	174900
	gaagcaagag	caaatcatgc	tagcagaaga	caagaaataa	ccaaaatcag	aactgaactg	174960
15	aagaaaatca	agacatgaaa	aaccactcaa	aagatcaaca	aattcaggag	ttagtttttg	175020
	gaaaaaatta	ataagataga	taggctgcta	gctagaagaa	aaaaagaaga	aaagagagaa	175080
	gatgcaaaaa	aaaatacaat	tagaaataat	gaagagaata	ttaccactga	tctcacagaa	175140
	ataaaaaata	ccatcagaaa	ctactacgtg	cacttctatg	cacacaaact	agaaaacct	175200
	gaggagatgg	atgaatttct	ggagacacac	catcacaaga	ctgaaccaga	agaaattgat	175260
20	tcagagaaca	gaccaataat	gaactccaaa	aataaatgag	taataaatag	cctaccaacc	175320
	aaaaaaagaa	aagtccagta	tctgatggat	tcatattcat	agccaaattc	taccagatat	175380
	acaaagaaga	gctgtatcat	ttgcacagaa	actattccaa	aaatttgaag	aggagggatt	175440
	cctccctaac	taattctatg	aagccgatat	cattctgata	caaacctgg	cagagacaca	175500
	agaaaaaaag	aaaacttcag	gccaatatgt	tcaatgaaca	ttgatgcaaa	aattctcaac	175560
25	aaaagacctg	caaacccaat	ccagcagcac	atccaatagc	taatccacta	cgatcaagta	175620
	ggcttcatca	ccagaatgca	aagttggttc	aacatacaaa	aatcaattaa	tttgattcat	175680
	catataaaca	gaactaaaga	caaaaaccac	atgatatctc	aatagatgca	aaaaaggctt	175740
	ttgataaaat	tcaaaacttt	ttcatattaa	aaaccctcaa	taaactagga	attgaaggtg	175800
	cattagtcag	ggttctctag	aggtacggaa	ctaataggag	aggagtatat	atgaagggga	175860
30	gtttattaaa	gagcattgac	ttacactatc	acaaggtgaa	ggcctacaat	aggctgtctg	175920
	caagctgcaa	gcaaggaagc	cagtctgagt	accaaagtga	aaaggtaggg	aagtcaacag	175980

ES 2 784 246 T3

	tgctgccttc	agtctgtgac	ttaaggcctg	agagcctctg	gcaaatcact	ggtgtaagtc	176040
	catgggtcca	aaagctgaag	aacttggagt	ttgatgttca	acagcaggaa	gcattccagca	176100
	caggaccaag	atgaaagcca	ggagactcag	caagtctagt	cctttcacat	tctttcacct	176160
	gctttttttt	ctagccatgc	tggcatctca	ttagatgata	cccacccaaa	ttgagggtag	176220
5	gtcttcctct	accagtcccc	tgactcaaaa	tgттаатctc	ctttgacaac	gccttcacag	176280
	acacaccag	gaacaatact	ttgaatcttt	taatccaatc	aagttgacat	tcaatattaa	176340
	ccatcacaga	atgatatacc	tcaaaatgat	aagagccata	tatgacaaac	ccacagtcaa	176400
	cattataata	gattggcaaa	tcttgggaagc	attccatcga	aaaccagcac	aagacaagta	176460
	tgcttctct	cactactcct	attcaacata	ttattgtaaa	ttctagccag	agcaatcagg	176520
10	caagagaaag	aaataaagaa	cattcaaata	ggaagagaag	aagtcaaact	atctgggttc	176580
	agatgacata	attctatatc	tagaaaacca	catagtcttg	gcccaaaagc	tccttcagct	176640
	gataaacaat	ctcagcaaaag	tttcaagaag	caaaatcaat	ggacaaaaaa	tcactagcat	176700
	tcctatacac	caacaacagc	caagccaaga	accaaattag	aaaggcgatc	tcattcacia	176760
	atgccaccga	aagaataaaa	tatctaggaa	tagagctatc	caagaagata	aaatatctct	176820
15	acaataaaaa	ttataaaaca	ctgccc aaat	aatcagaga	agatataaac	aaatagaaac	176880
	acatcccatg	ctcatggata	tgaagtaata	atatcattaa	aatggccata	ctgccc aaag	176940
	caatttacag	attaaatgat	attcctatca	aactactgat	gaaattcttc	acagacttag	177000
	aaaaaactat	tttaaaatcc	acagatccta	aaaagagctc	aaatagccaa	gcaatcccga	177060
	gcaaaaagaa	aaaagctgga	ggcataatgt	tacccaaatt	caatctatgc	tataggggta	177120
20	cagtagccaa	aacagcatga	tactgctggt	acagaaacag	gcacatagac	taaggaaca	177180
	gaatacagag	cccccaaatt	aaggccacac	acctgtgacc	atctgatctt	tgacagagat	177240
	gacaaaaaat	aaggattggg	gaaaagactc	cctatttaat	aaatggtgct	gggataactg	177300
	gctagccata	tacagaagat	tgaagctgaa	ccccttcctt	aaaccatag	caaaaatcga	177360
	ctcaaggtgg	attaaagacc	tcaatgtaaa	actccaaact	gtaaaaatcc	taaaagacia	177420
25	cctagccaac	accatcatgg	acacagaaat	gggcaaagat	ttcatgacia	ggacacccaa	177480
	agcaattgca	acaaaagcag	aaattgacia	atgagatcga	attaagctta	agaacttctg	177540
	cacagcaaaa	gaaactatca	acaatataaa	cagatagtct	acagaatggg	aaaaatattt	177600
	gcaaaactatg	catctgacia	aggcttaata	cccagaatct	ataatgtaca	taaaacaaatt	177660
	tacaaaagaa	aaaaacacat	taaaaagtga	gcaaaggaca	tgaacagaca	cttttcaaaa	177720
30	gaagacatac	atgcagccag	caaacaggaa	aatttcagta	ttactgattg	ttagagaaat	177780
	gcaaatcaaa	accacaatga	gatgccatct	cacaccattc	agaatgggtga	ttattaa aaa	177840

ES 2 784 246 T3

	gtcaaaaaaca	agagattctg	gcgaggttgc	agagaaaaag	gcacactttt	acactgttgg	177900
	tggaagtata	aattagttca	acagttgcgg	aaagcagtgt	ggtaattcct	aaaataccta	177960
	aaaacagaaa	tacttttcga	cccagcaatc	ccattacagg	gtatataccc	aaaggaacat	178020
	aagtttttct	atgttcctac	ccatataatga	ctgtgggttt	gtcatatatg	gctccttatca	178080
5	ttttgaggta	tatcattctg	tgatgggtaa	tattgaatgt	caaattgatt	ggattaaaag	178140
	attcaaagta	ttgttcctgg	gtgtgtctgt	gaaggcgttg	tcaaaggaga	ttaacatttt	178200
	gagtcagggg	actggtagag	gaaacatgca	cacatatgtt	tattgcaaca	ctattcacia	178260
	tagcaaggac	atggaatcaa	cctaaatgcc	catcaatggt	agagtgaatt	ttaaaaaatgc	178320
	ggtgcatgtg	catgatggaa	tactatgcag	acataaaaaa	caataagatt	atgtcctttta	178380
10	cattgttgat	ggaagtgtaa	attagttcga	ttgtggaaaag	cagcatggat	tcctaaaaga	178440
	gctaaagtac	agaacaacca	tttgaccag	caatcccatt	actggaaata	tactcagaag	178500
	catataaatt	attctattgt	aaagaacacg	cgtgcaaatg	ttcattgcag	cactattcag	178560
	gagagcaaag	atatgaaatc	aacctatgcc	catcaatgac	agattggata	aagaaaatgt	178620
	ggtacatata	cactatagaa	cagtagacag	ccataaaaaa	caagatcatg	tcttttgcag	178680
15	gaacatggaa	ggagctgaag	gcctattctt	agcaatctaa	tgcaagaaca	gaaaaccaa	178740
	taccacatta	tcacttacia	gtgggagcta	aattataaaa	tcctatgaac	ccaaaaatga	178800
	aacaacagac	agtaggtctt	tcttgagggt	ggcggctagg	aggctagaga	ggagcagcaa	178860
	aggtaagtat	tgggtactgg	gcttaatacc	tggatgatta	aataatctgt	aaaacaaatg	178920
	cctgtaacat	gagtttacct	ccataacaaa	gcttcacatg	taccccgaac	caaaaaataa	178980
20	agtttttaa	aaagaataac	tcatttggg	tctaattata	tcttcaaaat	cccttcacia	179040
	caacacctag	attagtgttt	gactgaataa	ctgggagaag	gtgtgtgtat	agcaagtgct	179100
	gggaattacg	gggtctatct	tagaattttg	ctagcacacc	ttctgagtca	aagggtgggtt	179160
	cccattagag	tagaaatcag	cactgcttct	gaaatttccc	cgaattgaaa	ctatgggcga	179220
	actatacaag	aaagatcttg	gaggacttac	ttttacccta	tcgttcacta	aatgtttatt	179280
25	gtccacatta	tatttgcctga	gcacgattct	attcatgaaa	gacatgggtc	tgaataaggt	179340
	gatcacattc	aagaaattca	gagagttag	tctttagtga	ataagaggag	tgtaggaata	179400
	tagagtctaa	tagagtacat	gttttaaagt	tacttaciaa	tttatctcaa	ttatatatat	179460
	atgtgtgtat	acataaatt	gagtatatat	atatatatat	atatatatat	atatatatat	179520
	atatactcag	tgataagtgc	tatgaaggga	aacctgcgta	cagaaaatga	tgatgtagtg	179580
30	ggaagtat	taaatgagct	attgacagaa	ggcctctctg	aggaagtaat	atcagagcct	179640
	aaaccttta	gaagtgaagg	agtaaaccag	aaattgcttc	cagtacctct	gtaaaagccc	179700

ES 2 784 246 T3

	aaagctgtaa	taagctcagg	cttcataaaag	ataacaagga	ggctgatgca	gatacaatta	179760
	aaatgagtg	aagatgagta	gtgtaaaaatg	aggtaggaag	aaggagacta	aagccagata	179820
	atgtaaaaac	ctgctactaa	tagacgtcag	tcattgtcca	agcaaaataa	aggtattttc	179880
	aacattcaaa	aataacaaga	gatcatggtc	gctaacaaaag	aggctgatgc	agacagaatt	179940
5	aaattgaatg	aaagatgagt	agcgtaaaat	gaggtaggag	aaggagatca	tggcagatgg	180000
	gaggcaggat	agatcgcagc	tccaactcgg	atggacagag	caatgggcag	aggcctacat	180060
	cgtgaatfff	agctccgaga	ttgattgcaa	gaatgaacca	gaaatccaga	gaggaccac	180120
	agaccctctg	aaggaagggg	acttctcttg	cagcaccag	gagacacca	aatactgtga	180180
	gtgtcccagc	tgcagaagtg	gggaaatgag	atcctcctct	cccaaacaca	cacccccact	180240
	ggggaaactg	aaggtttgct	tggtggagaa	gtttctgacc	ttaactggag	ctgagtcaat	180300
	ctagagagtc	cagtgaaata	caggggaaaa	agaagcagca	ggaaaggccc	tgggagctca	180360
	ctgggttccc	aggcagtcca	ttcctgcctg	gcaccacagg	gatccttggg	aggggtggcca	180420
	gaggggcaga	ggaaaatgcc	acaggaagaa	ggaagtctct	ggctaaatff	tgaaacagtt	180480
	ctagctaggc	aagaggcctc	ttggccagaa	ttccaggag	ggtgtaaate	tgggtgtgcag	180540
	actctatagg	caggggaaga	accaagacct	tttctttcac	agctgggagg	tgggtggcct	180600
	ggggcaagtt	ctcaagccct	gctctccaac	tgctggaaa	cagatttggg	gctgttcaga	180660
	tgtgtatggt	gggagtaaga	ccgtcccttc	aggttgcgtg	ggagctgggt	aaggcctgtg	180720
	actgctggct	ttccccact	tccctgacaa	cctgcatgac	tcagcagaga	cagccataat	180780
	cctcctaggt	acataactct	attaacctgg	gaatatcacc	cccacctcc	acagcagcca	180840
	cagcaagacc	tgcccaagga	gagtctgagc	tcaggcacgc	ctagccacac	cctcagccgc	180900
	acccccgct	gatggctcct	cccccaaccac	cctggtagag	gaggacaaaag	ggcatagtct	180960
	tgggagttct	agggccttgc	ccactgctgg	ttcctctcca	tactaccaca	gctgatgctc	181020
	cctggaaaaga	accacctcct	ggtaggaggt	caaccagcac	aaaaatagag	cattaaatca	181080
	ccaaagctaa	gaaccctcac	agagtccatt	tcacccccct	ggcacctcca	gtggaacagg	181140
10	tgctggtatc	catggctaag	agacccatag	atggttcaca	ttacagggct	ctgtgcagac	181200
	aacccccagt	accagttcgg	agctgggtag	acttgctgaa	tggctagacc	caaaagagag	181260
	ataacaatca	ccggagctca	gctcacagaa	agtgcagta	ataggaaaat	ggggagagta	181320
	caacatcaag	agaacacct	gtgggacaaa	agaatctgaa	caacagcctc	cagccctaga	181380
	ccttccctct	gacacaggct	acccgaatga	gaaggaacca	gaaaactaac	tctagtaata	181440
15	tgacaaaaca	aggcttttta	acacccttca	aaaattatac	tagttcacca	gcaatggatc	181500
	caaaccaaga	agaaatccct	gatttacctg	aaaaagaatt	caggaggata	gtcattaggc	181560

ES 2 784 246 T3

	taatcagggg	ggcaccagag	aaaggctaag	cccaatgcaa	ggaaatccaa	aaactgatac	181620
	aagaagtgaa	gggagaaata	ctgaaggaaa	tagataacat	aaagaaaaaa	aatcaaaaact	181680
	tcaggaaca	ttagacacat	ttatggaatt	gcaaaatgct	ggaaagtctc	aacaatagaa	181740
	ctgaacaagt	agaagaaaga	aattcagagc	ttaaagacaa	gatcttcaaa	ttaacccaat	181800
5	gcaacaaaga	caaagagaaa	agaataagaa	aatatgaaca	aagcctccaa	gaagtctagg	181860
	attatgttaa	atgaccaatc	ttaagaataa	ttgatcttcc	tgaagaagaa	gagaattcct	181920
	aaagcttggg	aaacacattt	aggggaataa	ttgagtaaaa	cttccccagc	cttgctagag	181980
	acctagacat	ccaaacacaa	gaagcacaaa	gaacgtgttg	gaaattcatt	gcaaaaagat	182040
	cattgcctag	gcacattgtc	atcagattat	ctaaaggctt	tacatgcata	tggacaccaa	182100
10	aagcaagcag	gggtagctat	tcttatatca	gacaaaacaa	actttaaagc	aacagcagtt	182160
	aaagagacaa	agagggacat	tatacagtgg	caaaaggcct	tgtccaacag	gaagatatca	182220
	caatcctaaa	cacatatgca	cctaactctg	gagctcccaa	atttataaaa	caattactaa	182280
	cggacaagaa	atgagataga	cagcaacaca	ataatagtgg	ggtacttcaa	tactccactg	182340
	acagcactag	acatgtcatc	aagacagaaa	gtcaacaaaag	aaacaatgga	tttaaactat	182400
15	accttggaat	aatgaactt	aacagataga	tacagaatat	ttcatccaac	aaccacagac	182460
	tacacattct	attcaacagc	acatggaact	ttctttaaga	tagactattg	ataggccata	182520
	aaacaagcct	caatgaattt	aagaaaattg	aaattatttc	aagcactctc	tcagaccaca	182580
	gtggaataaa	actgaaaatc	aactctaaaa	ggaaccttca	aaacatgca	aatatgggga	182640
	aataaataac	ctgctactga	aagaacgttg	ggtcaaaaac	aaagtcacga	tgaaaattaa	182700
20	aaaaattcct	caaaactgac	aaaaatagtg	acacagccaa	tcaaaatctc	tgggatacag	182760
	caagggtggt	gctacgagga	aagttcatag	ccctaaacgc	ctacatcaaa	aagactgaaa	182820
	gagcacaac	tgacattcca	aggtcacacc	tcaaggaatt	agagaaacaa	gaacaaacca	182880
	aatcaaaaact	cagcagaaga	aaggaaataa	acaagatcag	agcagaacta	aatgaaattg	182940
	aatagaaaa	ccactactaa	aaaaaaaaaa	aaaaagaaaa	gaaacaaaaa	gctggttctt	183000
25	ttaaaagatg	aataaaaattg	gaaggacatt	accaagatta	accaagaaaa	gaagagagac	183060
	aacccaaata	acctcattaa	gaaacaaaat	gagagatatt	acaagggagt	gacaccactg	183120
	aaatactatg	aacataaact	agaagagatg	agtaaatcc	tagaaagaca	caaccacact	183180
	agtttaaatc	aggaacaatt	agatattcctg	aacagaccaa	taacaagcat	tgagattaga	183240
	atggttaatta	aaaaattatg	gtaataaaaa	aattaccaac	aaaagaagtc	caggaccaga	183300
30	aggattcaca	gcagaattct	agcagacatt	caaagaaaaa	ttggtaccaa	tatTTTTTgaa	183360
	actattccac	aaggtagaga	aagaaggaac	cctcgctaatt	tcattccatg	aagccaacat	183420

ES 2 784 246 T3

	tacccaata	ccaaaaccag	gaaatgacat	aacccaaaag	gaaaactaca	gaccgatatc	183480
	cttgatgaac	gtagatgtta	aaatccttaa	ccaaatacta	gctaaccaaa	tccaacaaca	183540
	tatcaaaaag	ataataggtt	tcataggtaa	aagccctatt	tatatttagg	gtaaagaggg	183600
	acacggagac	tatgacatcc	cttcccagtg	taagagttgc	agtaacaaag	tgtttctcag	183660
5	tggaggataa	ttcttctcag	cagaacattg	tcagcttctg	gagggccagt	ggcatggcag	183720
	cagggctaag	aagctggagt	gaaagcacta	gatactctac	ttcctgagca	gtggtagact	183780
	attccctcca	gaatttcaga	aaaaacaaaa	aatagggaca	ctttgaggag	aaagctaatt	183840
	tctgataaca	gcatcataga	cttacctga	cgtagttgag	ttacaaatgt	aaaatgattg	183900
	gcaaaatggt	tagcacacag	gatgcaacat	gtggactttt	ccttccctct	cttttacagt	183960
	gaaattttca	tctaaataag	taagtaaata	gattagtggg	ctccactttg	gctcctgtgt	184020
	tcagctacia	tttctattta	gaataggtag	acacttttat	ctgattgggtg	taataacttg	184080
	gctaaagctg	tggtgtgttg	gtcatgcaga	atagattatc	caggatgccg	aaggaatgga	184140
	gctttgtatt	tggggctttg	ctgactgcct	gattattcta	cagaccaatg	aagagtctct	184200
	gcatccacag	ctattacact	gcctcctgaa	gaggaggcca	aatatcttat	aaattacaag	184260
	attcaaaaata	ttattcaaaa	taatcccact	tgtcttcaaa	tacacatttc	ctccaaaaat	184320
	taaaacacac	agaaagaaaa	tgcaaaactc	cacaaaatth	aagaaacact	ccaggccatt	184380
	atthcaactt	cgccgtgaac	aattcagggg	aatgacaacc	caggtgggtat	tttccatttg	184440
	actaacttat	gttttagtac	ttggcacttg	tgtgtctact	cccataacaa	gcaactatgt	184500
	ggtgattaaa	aattaaatgt	tttgccttgt	ttgaagagct	gctgttcaga	gtattgcatt	184560
	ggaaagcact	tacctgaaag	gagagcttat	gttcggttag	tggtggagag	cagagtgatt	184620
	tccatttgct	ctgtgcatgt	cactggagag	gttctaaaact	gtaaatgctc	actgtccatt	184680
	tatggggttt	atgtatgcaa	tttctgcaga	aatcgtcttt	gtaaatggga	atgaaaatta	184740
	tccttgcact	tattccacag	ccttttctca	tctccagcaa	gtgaaaatga	gcctttgggt	184800
	ctcaaaaat	ctcctgtgtg	tttgattttg	ttgggcagat	ttgaaatgat	cctccagctc	184860
	caaagttggg	aaaaacagaa	tggttttctt	cttattaact	gagcaactga	tatccttaaa	184920
	aatgatgtct	gtatatttct	tattatatga	cacaaattcc	agggaaagac	cacgggaatt	184980
	gtagtcaggc	ataacaacct	tttttctctc	tctgctgttt	actggctgga	taatacaggg	185040
	taaattatth	aaatttctctg	aacctaaatt	ttctcatata	taaagtgaaa	ttgaaaatat	185100
	ttttcccaaa	tttctgcttc	cagaaaatgt	ggtccactaa	cctaaaactt	gagagcatgg	185160
	tagtgtatat	aaaacaaaat	tctaagcctg	acaaccaact	gattggacce	tttctctcag	185220
	tcaagagcgt	tccaaaatta	acctgaaaaa	tcagttaatg	tcataatgtg	aagggggaat	185280

ES 2 784 246 T3

cagacacgcc ttataactctc catcctttgg aattcaagca cagctgacca gtatcagcat 185340  
 taaaacagag atcttaagac taacaaaaca gactatttgt agcaataaga tacacaattc 185400  
 caaccgaact ctagtatagc atcatacgac agatagcagg ccctgaaaga aatcaaagta 185460  
 tttcacccca aatatatct tactaagtct tttcaggaaa gtcaggcacc ttttaaggtc 185520  
 5 tgataaaaag acatttacca tttaccatcc attgtctctg aagtcttctc cctagaggct 185580  
 tcacctgtat aacaagagcc ttggtttcca caaccctcct tatcttaacc ctaagcattt 185640  
 ctttctgatg acttcaactc ttcaaacaaa acttaactct ttcaaccaac tgccaattgg 185700  
 gaaaactttg aatccaccta tgacttgaa gccaacctgc ctctttaag atgtgtcacc 185760  
 tttctaaacc aaaccaatgt acacattaca tgtattgatt gatgtctgcc tgtaacttct 185820  
 10 gcccccatc ccttaatgta caaatcaat ctgtgacctt acttccttga gcacatgttc 185880  
 tcaggacctc ctgaggctat ggtgtgggca tttcctcaac tttagcaaaa taaactttca 185940  
 aaattgatgg aacttgccct gagatacatt tttgtttaa gcacaaagag gagatagaaa 186000  
 aagagagatg agagtaatga atgtaaaatc tggaagaaaa tattgtggag acagaaaatg 186060  
 attgagtccc attgagggga aagcatctgt cttgagcaaa aaagatcctg acagatggtc 186120  
 15 agagaatatg ttgggagaca cttttcattg tgactttttt ctccccaaaa ttttccataa 186180  
 taagccattt ctcatccctt gacccaacat ggttggctc tggaacagga gcactgttca 186240  
 catgctgctc aagaatggtg gtggtaacag cagagcagct cttgagactg gttggtgaa 186300  
 aataagtatc aatgagggta tgcaggacag ctcatctcta aaaattactt tgcctgcata 186360  
 aaacataact ccaagagcta gaggattact ctttggttct ggtttttatg gcagcttcat 186420  
 20 tacgtagcca tgattgatta agtgattggc cactggtaat caacttaatt tccagcctct 186480  
 ttctcctttc ctgaggttg aggggtgggc tgaaagtacc aactcactaa tcacacggtt 186540  
 cccctggcca ccagcccctt catccttaga gattttccaa acgtcacctt attaacataa 186600  
 actcaagtgt aatagaattg ggcttgttat gaataataaa agaccctcct ttaaacttta 186660  
 taattttgaa gctatctcag gaatgggaga aaaaacaatt attctttgaa aaaaggtatt 186720  
 25 cctcttattc ctataactca ggaatttgca agagttttac aagttctgtg atgggaacca 186780  
 gggacaaaga ccaaatatct gtttcttata tcacaagttt tcaaaaacca attaatacat 186840  
 tatttattca tttattcatg tatagataga tggttactgt caaaaataaa cactttgtgt 186900  
 ttataggtaa tgcagcaatt acaatatata gggcacgaat gaagcttcac aggtgtcaag 186960  
 actcgaaatc ttatagacta agttctttgg ccagaatgca atacaattgg aatcagtgga 187020  
 30 taaaagagcc acttcaaatt tttattttag acaattaagt aagaaatcaa agagattttg 187080  
 aaaagtatta gaatattatg agctgttata tgatactata tttgaaaact tagctgaaat 187140



# ES 2 784 246 T3

	ggtaaattcc	tatagaaaca	tgaaatttca	aaaatcgttg	ataaagtaaa	gagcataaaa	187200
	cattcagtat	gtgttaaagt	aatggaaatg	gtcatcagaa	gagcaacaaa	taagttctac	187260
	aaactttcac	agaatagcta	tttattaact	tacaaaagtt	gttccaggac	aaaaaaataa	187320
	agctttccca	gctcatttta	tgaagcaagg	gtaatcttta	ttccaatata	cataaggttt	187380
5	ctaaaaagcc	attcttgagg	gtgtgtggcc	aatatgctgc	ttgttcaaga	ttaactgagg	187440
	gattagcaaa	gaaagctcag	aaatataatc	atgtatttgt	agcagatatg	ctaagtgaca	187500
	gaactggaat	gccagttag	tagggaatat	gtaaaggata	aaggccacta	aatggagaaa	187560
	agttacgttc	aatttctttc	attcaatata	taaatgttaa	ctccagagtg	cttaaaaacc	187620
	ttaaacacta	tcaagctaaa	gtaagaaaat	gtagaatatc	attgagccct	ggcgtaagga	187680
10	tgggggaaag	agatagtata	ccagattctc	aaacaaaaga	ctataaaaaa	agagttaatg	187740
	gattgtatta	cggaaatatt	aaatatttca	ttaaagaagg	aaagtatagg	tgatgttagc	187800
	aaacataggg	cagattgaaa	tgagggatth	gcagcaacta	aaaccaatta	aaagccaatc	187860
	tgtaaatat	ggaagaaatt	ctacaaatcc	ataagaagaa	cacaaggaaa	tacagagaac	187920
	aaacctaatt	atctagaatt	atatgaaaag	atactcatcc	tcaccaatag	aaaactgcca	187980
15	tattgcctta	tacatattag	gagatgcatc	ttaggaaaaa	atagagcttt	gaattatacc	188040
	aagcattggt	atggatggag	tggtgtgtgt	ggcagtgacc	agaatggatg	caaaactgata	188100
	aggttgatct	ggagagcagc	tgacagaagt	tacattgcat	atgtgtacac	cctgttacca	188160
	acaagcccat	tcctaggttt	atattcccaa	gaagttaatg	aaaaatcatg	tgtgaagctc	188220
	attcttttta	tcactgtttg	tgatagctac	tggtttagc	tatctctaca	tttatgtatc	188280
20	tctaaaataca	taaaatatga	ttgatgtatt	cagtggtggca	agcacttagg	agcagtcaat	188340
	taggtgtacc	tgtgaccaca	tgaagattac	ttaatgctac	cacgttacac	gcacatacaa	188400
	ataggctcca	tggcacaatg	tcatttacat	atactaaaac	acatacaaaa	accaaacact	188460
	ctttttataa	ggttatatac	aaatccaaag	acatgtaaca	aacacattag	attgggtgtc	188520
	tgtgttgaa	catagaacag	gattgggggt	caggaaaagc	aaaaagaaaa	taaaagagaa	188580
25	tgaggtcttc	catgaaactaa	tgataattat	gtgccataaa	ctggaagtta	tacttaatta	188640
	aactctatag	ctgagaccaa	atagaaagaa	aaaagtgtgc	agcagcaagg	aaatgtttta	188700
	gttaacaatg	ctcaacatat	ttgtgcatct	ctgcagttta	gaaaattgaa	atthttgaagg	188760
	gattgggttaa	taccatattc	atthgtcttt	tgtttgggtta	ctttttatct	cagttcctcc	188820
	ttaaggagaa	gagcttaatc	cttgctgtga	atthcttttg	tattatthtg	gcaaaatctt	188880
30	caagtgtctt	aataaatata	tgatctthct	ttagtaccgg	atgggtggga	ggtthttthtc	188940
	tctthctcat	atthcagctcc	atgthctthtc	cagcagatgc	tgctatcaga	gcgtgatcct	189000

ES 2 784 246 T3

	cagttttcat	aaaaatgcac	acacttacia	caaaaattga	ccacactttg	gcagcttatg	189060
	tattaagtgt	tcctaccaca	ctgcatgta	tcagtgggca	aacactgcat	taaatagagct	189120
	atagcaaagc	aatccagaag	agaactatgt	ggtcattaga	atgatggaaa	taactttaac	189180
	aagacgggtga	ctgcaacaat	atgagtggaa	acaatgccca	aacaacaata	ttccacgtat	189240
5	agtatttata	gtaaaaatac	gtttgaaaga	aaatatgaaa	cacgttggta	atgatttttc	189300
	actgtgggtga	gaagattggg	cctggctgta	acagaaacca	tcagtaccat	catccccaca	189360
	gccctccaac	ccttccctgt	gcttcgcagt	ttccagctgc	cagggctggc	atctttgtgc	189420
	ctgagggctt	tggaaagcct	ctctgctgat	gtgccatac	accaaggaat	tgacacctcc	189480
	tgggggcagc	cctcaacaga	gacctatggg	agttcatgta	taacaccaac	agaaaaacia	189540
10	tgcaacataa	aaaattgtgc	tgtgacaaat	taatgattcc	catcagtgtg	actgacagag	189600
	tttaaaaatg	tttacaatat	gactttctga	cttcctcagg	tggtgtcaat	tcctaagaca	189660
	aacaccttgt	aattcattac	aaatgcaaat	atgtcaaaca	ttgttctttg	aaaataaata	189720
	aataaaaatt	gatatgggat	taaaatactg	ctgtttttcc	tgtctgatac	ataaagaaaa	189780
	tgtaatgtga	atacttatag	ttccaagag	tatgtggaaa	ttgacattca	catatacttt	189840
15	ggtacgtaag	taaatttata	gcaaaataat	ttaaaatatg	aacaactatt	ggtatgttta	189900
	ttgtggcatt	atttgaata	tcaaattaga	aacaaagtaa	atgtccaaca	actaaggttt	189960
	taaaaaatgt	gttacagttg	cacaacaatg	tacttaatgc	cattgagctg	tgactttaa	190020
	aatcgttaaa	atggtaaatt	ttgttaggta	tattttatca	caataaaaca	tgtattatag	190080
	tgcacctaac	aaagaaatga	gttattaaag	atgatatcgc	aaagcatttt	atcaatggag	190140
20	aaatgtattt	ctatgtgtgt	gaatcatgct	ataaaaatgt	gcttaatatt	tacattgtat	190200
	attatttatg	ttatatatat	gtaaatgcat	atccatttat	atttatagac	attgaaaaag	190260
	gttacatttt	aacatacact	tcatgtaatt	atagttcttc	acacattttt	cttttgctta	190320
	tttaattttt	ttcaatattt	ctctaataag	ccaatcttac	ttaagttaaa	tgaaaatgac	190380
	cctgtgatct	caacactttg	ggaggccaag	gtgggtgaat	cacttgagtc	caggagtttg	190440
25	agaccagctt	gggcaacatg	gcgaaacccc	acctctacga	aaaataaaaa	aaattagctg	190500
	agtgtgggtgg	tccaagtctg	agctactgag	gaggctgaag	taggaggatt	gcttgagcct	190560
	aggaggtaga	ggttgaacaa	tgagccaaga	tgatggcact	gcactccagc	ctgagtgaaa	190620
	gagacaggcc	ctggtttatt	gatttttttt	tttttttaag	aaaatgacct	tgatgtggaa	190680
	acatttgtaa	taacttcaca	aatatgttct	tgggtgtcta	atccaaaccc	gagaatcaat	190740
30	aatgcttata	aaatgggaga	aatagggcga	aaatttattt	ttcttaaatt	tttctttctc	190800
	atctctctga	ttcaaacttt	ttgacctact	tttttttatg	aataagaagc	aattgattta	190860

## ES 2 784 246 T3

	aaatacctta	atthtatctc	atthcttaat	tacaaggaaa	acataggctg	atthgtccat	190920
	ththatttaa	agtcattctc	agaaggctth	ctgtgcttca	cattthaagtc	actthttacc	190980
	tgataatatt	atthtatgact	atgthttctt	ctatthgggtt	gtaagthtta	tgaaaactgc	191040
	atthctggcta	atthattthaa	tgtatthtccc	acagtgctca	actaaatgtg	tgtthgtaca	191100
5	taatagattc	ttagtatatt	tgagggataa	caaatggcag	taaattaacc	ththctthttt	191160
	ctaccgthtt	thtccattht	thtaaaaaaa	catatggggc	cttaatgggt	tcctcccttg	191220
	tgtgtthctg	thcctthtcac	tcaagctccc	tcctctctc	tattagaacc	atthttcaggt	191280
	atthtttctc	tcttagggaa	catgtaacat	tcaatggtha	agatthtatgg	aaatgtgccc	191340
	cccaatatgg	ctacatgccc	atthtgatg	gtgtgaagac	cataatthta	taagctagcc	191400
10	atthccattat	tggactgcca	aagctattaa	tatgttctth	ctaacacgtg	agctgcattt	191460
	ththccccca	tgaatctagc	cattgaaatcc	agctctgccc	ctactgaaac	ggggaaaggg	191520
	tatggtctct	catctacatg	gcaactctatg	gttgaagagc	atgacctggg	thcctcagag	191580
	gctcctthtac	tgggctaggt	ggccctgggt	tctcacatag	cccagthttc	tggaccttgc	191640
	actgtgatgg	ctgttcatga	ccacactgtt	ggttagccat	ggtgctccca	agacagggca	191700
15	cagtgtctct	gattthaacta	gccgcaaaca	gaagacaggg	gggctthtgc	atthttagaga	191760
	ttataatcct	atcataatca	tctaagtgtc	ttggctthtat	thcagcaagt	gtggccattg	191820
	ctctgttatg	cagatcttat	gcctctthtgt	cctgtthctt	gatgtccatt	tatattctga	191880
	gtgtgtgttc	tccagccctg	caagcttgtg	ctgctgactt	cataggtaag	aattccatat	191940
	thtgththttt	taaccattt	gthttcaccc	aggthtatgct	thtaaaacat	taattgataa	192000
20	taaaaacttga	aagthtaattt	tctctctcta	cgaatthtccc	ccaccctagc	actcctgaaat	192060
	cattgtggca	tcagaacaga	gctggcatgg	thtctatggc	acagaaaaca	ctgtgggaaa	192120
	agggtctatg	caagacttcg	ggatggacac	tgcagaagtt	agggaaccaa	aagaccacat	192180
	gttaaaaactt	gctcacaaaa	tatcaccact	tggcagtcag	agagaagggc	caatgccagt	192240
	ctgaggcacc	gacttgaggt	atagctthtat	gttagcacia	aattaatgct	gattaactth	192300
25	atattataat	taattcttca	gtacattatc	tactctaatic	thtctcaacca	cttagtaaga	192360
	aaatthttgtt	tatthttccct	atthctacatt	tcaggaaaaat	aagtattgga	aaactacgta	192420
	ctthccccaaa	ggatactctc	aagthtttggc	aaaaagacg	tctthcttct	thgccccatt	192480
	gtcctgtctc	tgtccttagg	gaaagaaaaca	tgaagaaatg	ctccctggcc	ththtaactgt	192540
	tcttgtggtc	acagctccca	aagagagtaa	ggactcctaa	tctgtgtgga	cagagcctaa	192600
30	atthctgggt	gatgtthtcac	taggctgcag	aaaaagcag	tgcccaacct	ccacgttccac	192660
	thcctgcgtg	tgtctctccc	caggcttctt	gcagthtttgg	gctccatgag	aaaagccaga	192720

ES 2 784 246 T3

	atgggggccc	catctgtgca	gagtgcagcc	aaatgggcac	tctctgctcc	agattccaga	192780
	cctgctggga	caaggtctct	gactaacatg	tccactggcc	gtttgtctag	gaaacagttt	192840
	gtgtatctac	taggttggtg	caaaagtaac	tgcaagtttt	gccatttaa	gtaatggcaa	192900
	aaccattatg	tagtaatggc	attacttta	atggcaaaaa	ccgcaatcac	ttttgcacca	192960
5	acttatagct	cttctagatt	caagggtgac	aagtagaatg	ctttacattg	attcctgaac	193020
	cttagccttg	agtactgatg	ggaagagatc	tgctccagat	ggccatggtg	ttgtaatcaa	193080
	ggtctggccc	aagtactaag	agaaagtagg	gttttgtttt	tgtttttgtt	tttgtttttg	193140
	tttgattttt	ccagtttctc	tttggctggt	gtgctcatgt	ccaggcatag	gtaatgtctg	193200
	agcgagtaca	atctcctctc	tgtaaaactg	taaaggagtg	agtagtaggt	ttcttgtccc	193260
10	aaagccactg	ccttatattc	ttaacattaa	ccttatactc	caggtgccag	cctgtcccag	193320
	gtatagaggc	atggggctta	gttgattcat	gcaggaagaa	atcctaggta	gtttcttggga	193380
	aatcttctta	gctttaatta	atccagggaa	aatctccatg	gatactaagg	acttttctta	193440
	tcctctgtct	taggacacac	atgtgtggct	taagttctgt	ctagtttccc	ctactgggga	193500
	tttttttttc	aactatcata	ggcattaagt	cggaaaggac	ccctgataca	catactgatt	193560
15	aataagagaa	taacagacat	tcattagcat	attatttcat	atataatggga	gacaccaga	193620
	gaatgagtag	ttctcaaaga	ggtggccttg	aatgtcagct	tatagagcat	cttcgacaaa	193680
	gtgttctttg	ttggtgagga	gtaaatat	agagaagtga	caagaaaaag	gaaagggacc	193740
	tggagtttcc	agccagggta	acttgtggga	aggcaaataa	ctgatagata	aagtctgggt	193800
	agcaaatggt	gtcaacaaaag	atcctctctc	agatggtaag	aatctaaagc	tgtcttcagt	193860
20	agttaacctt	tgttctcccc	aagggaggtc	aggataacct	ttaccttgt	aaatctgtgt	193920
	cttgttttta	ggcaaacaca	gggagggcag	agagtttctt	gtatctgctt	caacttgcct	193980
	tcagctcaac	ccttcatatt	tcagggaggt	atattcggct	gcccctctgc	catactccag	194040
	cattcctctg	cttttctctc	caatgtactg	cgcttttctt	ttccatccta	tcctcacatt	194100
	ttgatgtagt	gtgtgttgcc	ccaggccag	tagcagaaac	atcccctgtg	caatctctcc	194160
25	ttactctcgt	caagctacac	aagcttcctt	ctgtgaaatg	accctctcct	cctgcatttt	194220
	atctcatggt	gcactttctg	ctgggcagaa	accaattttg	agcctgctcc	tgagagctgg	194280
	gtgaagccct	ccctaacact	atgggtgcat	cccagttcca	tgggtgccc	tgagcttgtg	194340
	atactgtatt	ctgtttattg	gtttacctct	gtctctacag	cattacacta	ggagtttctt	194400
	aattattcca	ccctttattc	attcaatata	tattgtgttg	agcatgcccc	atgtgctaag	194460
30	agccatggca	aggtcccaga	gtaaaaagga	tcaaaacaaa	caaaagaata	aaacatgggt	194520
	actgccctca	agtaattcac	aatgtaatgg	aaaatccaga	ttagtggaca	cacacactgc	194580

ES 2 784 246 T3

	ggcgatggtt	caagagtcag	ctaagtctctg	tgaatccctg	gaagagatgc	ggtttatctg	194640
	gatgagaagt	gaggagactc	agactctagc	agatcacttt	acctgggtgcc	ctgaaagggt	194700
	agcagttact	ctccagaggc	agcaggccag	ggatagaaaag	gggtgggggg	taggaacagg	194760
	aaccacgcac	acactgagga	atgaggctga	aatagcagtg	caatgtcttt	gtggctggtc	194820
5	aaagcacagg	aaattggaag	caattcagtg	tgggtgggaga	agagagtatg	gggggagggg	194880
	ctgggagttg	aggacatgtg	gattggagac	agaggctcaa	ttcagctatt	cgtctttgca	194940
	tctactctat	cactccacaa	ggcataggct	ctcttttctc	agtctctctc	tctctctttt	195000
	tctctttctc	tcagccgtta	ttttctaagt	agcaaatgaa	tgaagaatga	agtagacatt	195060
	ccaaggctgc	ctccaaatgc	ctcttagtaa	cataaatatg	tatggatgat	ggctgttgaa	195120
10	atcaccagga	aaaaatatga	acattactgt	ttaagtctca	ttattcctta	agtgccctgtg	195180
	tgtgtttgct	taattacttt	gaatggaagc	atattttaac	attgctatga	catctcctac	195240
	ggaataaatg	agctaagaaa	gagacttaag	ctgtagacca	caaatggccc	ttatatcatg	195300
	tgaagttatt	aatacctgcc	cttgttcatt	gattatntaa	gtaatttatt	tccatttggg	195360
	acattttacc	tcaggtattc	tagtctgtgc	taaaagctgc	aggaaagtgc	acctgtccgg	195420
15	cctgcttggg	gtgatgcacc	gttcttgcac	atatctgtcc	caagctctgg	ggctactggc	195480
	accattagg	ttctagaaaa	actgtaggaa	ggagcccagt	gagcctggga	ataggccagt	195540
	ggggaagtac	gaagaatgag	aagcacaggg	gagaattagg	gacgcactgg	agagtttctg	195600
	ccactgaatt	ggacaaaata	tttgagttgt	gtcagaaaaat	caaaattgaa	caaaaaattt	195660
	tgagaggcac	ttactctggt	tttaccctg	ggctaaacaa	agacatgttt	agatataaga	195720
20	atatattata	ggtagataga	tagacagtcc	ctggcattgt	ggaacttagg	gtttacttaa	195780
	agataattac	ttcaggcagt	attggaaatc	atagtggcca	atgaagatag	tagatcttta	195840
	ctatgtgttt	tatcaaactg	ctcttattca	ttcatttcat	aacatcgtaa	tagctctcac	195900
	ggaaaacaaa	tttagtggga	ataaaattgt	tagatagtta	ggcagacatg	agcagggcag	195960
	gagaggtgcc	ttccaacca	ggaatgtcaa	gtgaccatca	ggtgatggtc	aggcagttgt	196020
25	taaactgtct	ctctaaaata	aaaattggtc	acagccagtg	ctaaggaaag	tctgtctccc	196080
	aaaagataga	aagtacttga	agttgggtgat	ctgctgcttc	ctgataagat	ctcaggagtt	196140
	gggcaagtgt	gttcagacat	gtgcactaag	aggcaaaatg	gcagtttaac	tggtatatga	196200
	ccttctctta	ggaacacttg	gctggtaaag	gaagaacgcc	tcaagtgagc	atgccacaaa	196260
	catcagtaaa	ccactgggca	tgcgggcccct	cccacatgct	ggcaggccac	tgaacatgag	196320
30	gatagcccct	ccaagggaaa	aatcaaggga	ggagaaatgc	aaactgga	accaagccaa	196380
	tgtgtaaaac	cacaagtcaa	gggcaaaaca	gcacacttag	atctcttaaa	tgtccacttg	196440

ES 2 784 246 T3

	gcccccttcc	aagtatactt	cctttcgttc	ctgtctaaaa	cttgcctcag	tctctctctc	196500
	tgccctatgc	ctctcacctg	aaatctttcc	tccaaggagg	gaagaatcaa	gttgctgcag	196560
	atccgccaga	tttgctgctg	ctaacacaat	gaactttgtg	aagatgaggg	aggaaagaga	196620
	tttgagaact	atgctctgat	tttttttatac	ttgcccaaat	tcctatttaa	gggtcctagg	196680
5	ggggtcatgc	cctacaaatc	ttaagttctc	atcctatggg	ttttatttaa	ctctatatat	196740
	tttgacttac	tttccaacct	gactctggcc	ataaattaca	agacaaggaa	gaaaaataaa	196800
	aatatttttac	catgaaacat	atctctttgc	catattttga	aatggccctg	caaagctggt	196860
	ctttgtggag	gaaaaatgttt	catctgtaaa	gaatctctat	taacatagct	agatcttttt	196920
	ctttcagatg	cttccaatcc	taaagaaacc	tctttaagat	taactaagat	ttgaatagga	196980
10	aacaatttgc	catctattgt	ctctaaaggc	agccacaata	agacttcaaa	aaactttggc	197040
	ctccacagtc	ttttatctta	ccctgaacat	tccctttcta	aggatcccag	gtcttttagac	197100
	aaactcaacc	aattgtcaac	cagaaaatgt	ttgaattcac	ctatagctga	gaagcctccc	197160
	ccaactcccc	taccagttt	tgagttgtcc	tgccctttcta	gaacaaacia	atgtattttt	197220
	taaggatattt	gatttatatc	tcatgccttt	ctaaaatgta	taaaccaagc	tgcgccccga	197280
15	caaccttggg	cacatgttct	caggacctcc	tgagggtgtg	gtcacggacc	atggtcactc	197340
	atattttgct	cagaataaat	ctcttcaaat	attttacaga	gttcgactct	ttttgttgac	197400
	agaataacct	gaagaattgg	accacactta	atgagaagcc	gaatgtttgg	aaagattatc	197460
	gatttgtagt	tgacgtttgt	ttaattctag	ggcagtatcc	cacataaaat	agagagaagg	197520
	ataattttca	tgattatcct	taagcttaat	aagatcacac	atgcaaagtg	ataggaaaat	197580
20	tggtgttggt	atttcaatca	atgtagctat	tatacttatg	tcactcaata	gagagaaact	197640
	gcatgcttat	gaaaggtcat	atagtagctc	atgggaagaa	cttgagctga	aaccagttc	197700
	ctctgactca	tattcaaatt	atctttctag	gaaatcacac	aatatactca	gttctcttta	197760
	aaaacaccag	agtccccatc	ttgtgctcag	aatgttctct	tacactccct	ttgcttcctc	197820
	ttttctacta	ggtgaaataa	cagcatcact	ggacgcaaga	aggaaaccct	tacccaacc	197880
25	ccactgaaat	gatttagatg	tccaggtaaa	gtgtggcctc	cctaaaacgt	gtttccaag	197940
	ggtgactgaa	atagcaccat	tgaaaattca	gcactctggt	ttcagtgttg	actttttcct	198000
	ctcttttcaa	agttgtcttt	tgctgtgaaa	cataaatgct	ggtcacttca	tcaacacttt	198060
	atcataaaga	ttattgaatt	cattcaagtg	actgagccct	taggaatcct	tcctgccttc	198120
	aggaacact	ctgacatttg	gataaatgtc	tcacattaaa	gtaagtaaat	aaaccagaca	198180
30	ccatttcaca	ctagatccta	gtgagaaaaa	gaaagattcc	aatcaaaggg	acaaaatgga	198240
	aatgacctct	cccaactttt	catatgtgta	gattcagctg	gggtaatcga	aacaatgggt	198300

## ES 2 784 246 T3

	ttatcatcat	gttccttctt	tccagttcag	gcctgatagg	aatatctaaa	gacctctgtg	198360
	gaatcatagt	aaaatgggca	gatattggag	catggtagta	attattgatt	gagaaaatat	198420
	caatggcaaa	tattacttta	ataaccaggt	tagtgagtca	atccttgggt	tgagaccata	198480
	aacccaaatt	catctttggt	taaattatag	tatggcatat	ttgtatcatg	ttggaaaagt	198540
5	catttacttt	ggtataatac	acagatatat	ttggtctttg	ttctgaattc	ctggcacca	198600
	gttcctagaa	cgcttggaa	ttcctgagtg	atagaaatat	cttttgttat	tcataaggaa	198660
	gctgtttcca	tcacacctga	gtttatgctg	atatgtgact	tcaggtggag	cctttagata	198720
	gcctcaggat	gggagtggtc	atcagaaaaga	ccaagtattt	aggagactgg	aacttctagc	198780
	cctatatggc	cactgacctc	cagaaaatag	ggtgagacaa	ctggagttta	tgctctataa	198840
10	aaagtcttga	acaatgagat	ttggagacat	tttggggttg	gtgaacatgt	caatttgttc	198900
	agaggtggca	catctagaga	gggcatggga	gctctgtgtc	accactgtg	ttatgccttg	198960
	ccttatgaat	ctattccggt	tggtctgttc	tgagttatat	cctttaaagt	aagccagtac	199020
	atagaactga	agaagcagga	gagaatcata	ggaaccccag	atctatagtc	agttggacag	199080
	aagtattaag	tggcctagga	ctgcaactgg	tgttggaaagt	ggggacagtc	ctatgggata	199140
	gagcccttta	atgtgtggca	tctgatgctc	agtcacagga	gatagcatca	gaattaaatt	199200
	gaatTTTTTg	ttactcagtt	ggtgtcagag	cactggggaa	tttgttggtg	gtgtgagaaa	199260
	acacgtgata	cctttcaggg	tttctcagtt	tatttgtaaa	atggaaatac	taaagtctat	199320
	ttcttagggt	gctatgtgga	tttcattaga	tatcataaat	gaagtgcctt	ctattttgtc	199380
	tttcataggg	tagtTTTTTT	ttttagaaaa	agctaggtat	tcttaaaga	ttttatataa	199440
	aacagTTTTa	gttccatatac	ttatgagaaa	ttttttattg	cctaaataga	gaggctcata	199500
	gctctgcccc	catagttagg	atgtotcaac	ccttgtcaact	gacctaaagt	tctccaagaa	199560
	ttcaaagac	ccagctatac	caggaataac	agaccagcag	cgatcttttg	tttgcacaac	199620
15	atTTTTTTgt	aattgaaatt	atTTAAAAat	gggtctatag	taaggagatt	cacatcgaaa	199680
	gctttgatga	tgtgcatctt	ctgaaaaact	aaaaggtact	gcagagtagt	cttcatagtc	199740
	acgatgcgct	gtgctgaggc	tgctgcttag	aaaggtgggg	cttcttctcc	ctgcttacc	199800
	acgtgtctgg	ctgatctctc	agctcagctg	caggagcttg	ttggtcctga	agagtggctc	199860
	gtctttatTT	gctgatactt	aaactttcct	tcttgaaaac	tgaatcactg	ctattttggtg	199920
20	cacattttca	cccagtctga	gtgccacctt	acatctttca	ttctgcatct	tgagaattct	199980
	gttttacagt	cagaggtgac	aactagatca	gagcattgac	tgctcccaat	ttcgctttta	200040
	caaaagagag	caaaggaagt	ggtgatgtta	ggtttggggg	tgatgataaa	gtcagagagg	200100
	ggaactccca	ctgaagccca	cattatgaaa	agagctgaac	caacttgtag	tcttgatctc	200160

ES 2 784 246 T3

	cccttaaaag	ctggttttgt	acctgaatgg	agagaagtgc	agatattaga	gacctggctg	200220
	atgtctgggtg	cttcattgcc	ctgaatagac	agaaaaatgc	agacccttgg	gaagcaaagt	200280
	gcttgacaga	gctgaaagtg	aacagcagag	gctgggagga	agcaggacca	aacaaatcca	200340
	gaaatcctcc	aaggctgtag	ccctaggccc	agcaggtggt	ggtcaggaca	aagtaggagc	200400
5	atgtacagtg	ttgagatcag	agtcttggga	aagcacctgt	tacaggtcag	agtgaaggat	200460
	gatcccagaa	acaagtcaga	caagaggcag	gtaagtgaac	aaagtgatca	caagtcaagg	200520
	gaaatgggtga	gtccataagt	ttgtcagtag	caatttactt	taactacttc	atcttaggcc	200580
	atattgtgta	catgcgtata	ttggtttctt	tcaattgcat	gtcaaggaga	tctgctcctt	200640
	tttttttttt	tttttttttt	ggtacatgtg	ttgctgaagt	gaacacagat	ctgctagctt	200700
10	ttaatcagaa	aatccacact	ccagggctgg	ctactacaag	ttgttttgct	ttcttgctta	200760
	ctaaatacta	tcagaagcta	tattaattaa	gtataagggt	tgatagatat	tagaaaggtt	200820
	gttgattagc	aataatgagc	attagaaatg	tgcttacatt	tttgtgcatt	tttgatattc	200880
	aatgtgtgtg	gataaggtaa	aacatthttga	aaacactttc	tgctttttaa	ggagcagaca	200940
	ttaaaatcta	gtgtctatth	caccatatac	ccttagcgat	aacatggaag	gttcgatatg	201000
15	taaataatct	tgtgttgtgc	tgthgcttha	gaaggthatt	ggtcacagta	ttccaagagc	201060
	tgatttgctg	aaatacataa	tgagaatatt	gtaacatttg	gthttcaaaga	actthccatg	201120
	caacacattt	tcagaacctc	aaaacagaat	agtgggattt	tattaaggct	gcatgcttac	201180
	ttgtaaattg	tgtacatttg	tagcataatt	cagtcttggg	cttaatttha	taatttcctg	201240
	gaagctaaat	aatgaaagag	tgthtaattct	cacctgtctt	caattactgg	gcagcactgg	201300
20	tgagattctc	aaaagaaatc	tattacctgt	gtgtgactac	agtactcagg	aactgtatgg	201360
	atagagaaga	acaagaatga	cctgtggatt	aaaaagacag	aacagaggtc	caaagggagt	201420
	gagtgagacg	ccagcaacag	ggacaccttc	tggctcagta	aaaacacttg	ttctgtgggtg	201480
	gggaatggtt	agggttgcac	tagctgtacc	ttctgtgggg	aataggcaac	cttgggtatg	201540
	gaaaatcact	gagacaagat	tcaggagacc	cagttcagtg	ctagccctaa	ttggatcatgt	201600
25	gaacttgggt	aagaccctta	tcccctctaa	gtcttggctt	cctgatgggt	tagatgaaga	201660
	gttaaacaaa	atattcttgg	ctggggtagc	acagtgtggt	gaaggcagtg	agatttcggg	201720
	atcttttagtc	tctcttacia	tcttaggctc	actctgaata	tctagggctt	cttgtgcaag	201780
	ttgtthaatc	cattthaagct	ttaattthtt	tatctattaa	atgcaggcga	taaacacctat	201840
	atcaaaaag	ctattthtag	tattaagtaa	aaggtgacat	gtgaagtgtt	taaaaaactg	201900
30	cttaataatg	ttacccatt	cctctcatct	ttccctttac	actcacacat	tctacaattc	201960
	tatgaattaa	ggggaaatga	ttgatggaaa	tttgtggcac	aggcagagat	ggaatgggga	202020



## ES 2 784 246 T3

	tgttatttcc	tcagtattgg	gcttgagtga	tagtaaacga	tgaagataaa	gttcactttt	202080
	gaagtggaat	ggttaaagta	ccattgaggg	aatacatggt	taacctata	aactggagac	202140
	ccattttgta	gttgtattct	accccatggg	aagtgcaaga	gacacagcac	acaaaaact	202200
	aggaaagctc	tacgattact	agtcgggact	ctggatccaa	ctggaaacat	cactgtgtga	202260
5	tggatcagaa	tttgaagcat	gaggagaatc	tgggctaggc	gagcacagaa	atcatgccta	202320
	caccaccagt	gggaagagga	aactctgtct	ctctgtatgt	atatatgttt	gtgtgtatgt	202380
	ttttgtgtat	gtatgtatat	acatgcatat	atattatgtg	tatatataac	atatatttag	202440
	tagatttaaa	aattatgaaa	ttatgataaa	attgtggctt	cagtcatcaa	caattctttg	202500
	ttaagtcaat	aatgaatgac	tttttttttt	ttttttgaga	cagtctcact	ctgttgccca	202560
10	ggctggagtg	cagtggcatg	atctcggctc	actggaatct	ctgcctcccg	ggttcaagtg	202620
	attttcctgt	ctcagcctcc	cagatagctg	agattacagg	agcccactac	tatgctcagc	202680
	taatttttgt	gtttttagta	gagatggggt	ttcacatgt	tagccaggct	ggccttgaac	202740
	tcctgacctc	agatgatgca	tccgcctcag	cctcccaaag	tgctgggatt	acagacgtga	202800
	gccttcgtac	cttgcctgaa	caaattttct	tttataaaaa	attggggtgc	tccattcctt	202860
15	atltgacatt	ttatttttaa	aagtgattta	tttataatta	taaacttaag	caatatagag	202920
	gatgcaagga	aaaaaaactg	aaaaagcaga	aatgaatccc	aatctaata	aggggaatta	202980
	gtcaccgtta	gtatttgata	aacatgtaga	tggacatgtg	gatgcagaga	tagacctgga	203040
	ggcagattgg	cagaaagata	gataattaac	tagagggtgc	tgaagattgg	agttgggagg	203100
	ggtatcatgg	acttgtcctg	gaacaagtct	ctttaggtga	ctcaccagg	ggatcagtgt	203160
20	gtctcacaat	attgttcttt	aagtcaactag	ttctctctgt	taggatctta	tgacatctgc	203220
	tttcttattt	ttcctcttcc	caatttcatt	tccaacagtt	tcttagccag	aaggtaggct	203280
	gataataaga	caatgacaag	tgagagtgtc	tcctccttca	cctccacctg	ttttgaaaag	203340
	gagtcttgta	tgtggacatt	cccctctttt	ccttgggtacc	cctcaccct	ccttggggca	203400
	tcacatggct	atltgagcac	catgaacctc	cctttcaggg	agatctaaat	cctgcctaag	203460
25	gtctgagtta	agactgcctg	tctttcagcc	tcctacctca	cttgtcctca	atataactgt	203520
	atltggcaaa	tattcttcca	agtggtgaaat	ttggagttgg	ggcatattct	tgttagtgat	203580
	gaaggtggaa	ctttcttctt	gatattttct	tgctgctttt	atagatttta	gcaagttttt	203640
	tggaaatgaga	catcaaaaaa	gaatggcttt	attcaatggt	cttgagccag	aaatctccta	203700
	cctgtgaaga	ttctgggtact	cagatttaaat	acaatcaagt	gtctcttgaa	atlttatgtc	203760
30	ttagcatgcc	ttttattttt	atltttgggt	gtgctatacc	ttatttcagc	actactaata	203820
	gaaaaaaaaa	ccaactatat	agacaagaat	aatcaagaaa	aatacctcaa	gggccaatgt	203880

ES 2 784 246 T3

	gaaaagattt	ttagtatttt	ataatttata	acattttata	atttaatttt	tctaagtagt	203940
	aaaatatatt	taaaatctgt	gtatttttaa	gaggaagttc	caaatgaaag	aaatatgaaa	204000
	caaacaaagt	tagacatggg	aaggaaaatg	atcaccccat	tgctatgttc	atcatgtctt	204060
	attctcacta	ttttaggagt	gtcaaggtag	cgtttaggca	ccgtgtgact	cctttaccgt	204120
5	gaatcaccct	ctgcaacccc	caggtgcag	ctgctaatta	ttctcttcaa	atcttctcca	204180
	ggagtccct	gtttctctgt	cttgatata	tatttggtc	tgcatggtag	accaggagca	204240
	ccagaactga	gacattaaaa	tcttttgagt	taaatagtat	taggagatta	ttttcacagg	204300
	cgcttttaa	aatagatgta	tccaattact	gtaattctaa	tttttcaaat	gctagtcctt	204360
	ttgacaagtt	gcagctctgt	ttaccagctc	ttgtaggagt	ctcatgattt	ccccaaaag	204420
10	agcagcatga	agctgaaatt	gtaagtttat	caaagcaa	tgcatgcatt	ttccaaaggc	204480
	aaattgcaga	ccaaagccat	ttgtagatga	atagaaaact	acatgaaaga	gaacactctg	204540
	ctgtgtttgc	ctactcataa	cttcaacca	aattaccttt	taaaacacta	tttggaatc	204600
	tatagaactt	caaaagggcc	cattaatgga	tgtgttgaaa	atagaacca	acttcttcaa	204660
	ctccaaacac	agagtttcac	tattcaacaa	ggaagtttcc	cagaataagg	tttaagctta	204720
15	agttcctgaa	gttcataggc	taaaaatata	caaagtttac	gtttagtatt	ctcatcactg	204780
	taagactcac	cacatattca	aaagaccatt	aggaagtcc	gaatgtatac	tgtgtcctac	204840
	cctgaagagg	gcacagtta	ttaaaactat	tatcatatat	atctaaacaa	actcttttac	204900
	ataaaaaagg	taagtaaaaa	tattatgtgg	attaagggat	agagggttga	aaggactatt	204960
	tcaacggctt	ttaacaaact	cagcagattc	aaaacttgaa	ttcaggtctc	aacttatctt	205020
20	tcaagaggaa	aatgctgaaa	gtgtacagcg	agtgttaact	cggtttctg	tataatattt	205080
	aatgagataa	atgcctccct	ccctgtagtg	tgggttactc	agcatttgcc	ttgcattttt	205140
	attctccagc	ttattctctt	ctgtgtccag	aaggctgatt	tccatagggg	gcatcaactg	205200
	cattccctcc	ccagtttcaa	ttttgctagt	aaaagcatc	agagggat	cagaggatga	205260
	aaagtagaaa	gattagagca	tttattcctc	ccacccacc	ccagcttgag	ttcaggtctg	205320
25	acagtgtctg	cagcactggc	actatggccc	tgagggccac	ctttttccat	gtccagctct	205380
	taactaagct	ccagtaacac	caatgcctcc	atgtgtcca	ccaggcctag	gagtggcaaa	205440
	ggctcttcac	ccttgctagt	ccctaggtgt	ctacatatcc	cttgtagggt	gttacctctt	205500
	accacgcctt	ggtaaacact	cccctcatta	agaagcttct	ttgaaaaatt	ccaactaact	205560
	gagcatgcca	tgtgttttag	gctgggtcc	tgacacatac	aaatttgtgt	atctaatttt	205620
30	aaaagcttat	ttcacctcct	gctcttgcat	gcaattatag	cgcataatct	tgtggttaga	205680
	gataagcaaa	cacgctgaaa	ctaaaatgca	aatgcaccct	ggaatactgt	aacttaaaag	205740

ES 2 784 246 T3

	ctgccaccaa	aataattcta	cagcagacaa	gtccatcctg	cacttaggag	atgagtctac	205800
	gtatgcacac	agggtgctttt	cttagcaaga	acttcttctt	atgtgggtaa	ctctaggcct	205860
	tctctctggt	gtggagtctc	tgtcttgttt	ggtaggtcctg	atcgtttcac	ttatcatacc	205920
	tcttctgtaa	cctttccagc	caaggcagtg	attcaggaaa	gaccgctgac	agtgtagaaa	205980
5	gtacacgggt	ttgtttctgc	tggccagcta	gcggggaatc	ctggtattca	gaaggggaat	206040
	caattctttc	tttttgattt	agggatatgt	ttggcagtta	ttaattaaca	tgtgtgagag	206100
	atcctgagaa	tttcaaacat	ttatttttta	aaggagtcta	agtttaaact	taacttcatt	206160
	atataaaaact	tccttctcct	tcctcaacct	cacttctttg	aattatttta	ccttagaaat	206220
	ggcaagtttt	ctcaaagatt	aatgcaaagc	tcatgtcaaa	atagagctct	ctctctctca	206280
10	attttatttc	tactatttta	actatttcat	ctatttattt	atttttttat	agttttctgt	206340
	gtccattagt	tccatgattt	aatttactat	tttactttaa	aagattttcc	cttgccagtc	206400
	aagtagtatt	ccatagaata	catgagagaa	tacatttttg	aagaaaactg	gtaaacaacc	206460
	aattaaaact	ccttatggat	tttcttccac	atataaatta	ctattctata	catgaaataa	206520
	taaaaataag	ccttggaatg	aaagtatata	aaaatgtcaa	tagaaattct	aagtatgggg	206580
15	taatcagcct	tgaggaatt	gatagttgcc	tatacttaca	tgatttgtaa	tctgtcaatc	206640
	atztatcaa	caaatathtt	ccacagctcc	tatacacaaa	gcattttaag	ggtagtatta	206700
	aaaacaaagt	actttccctt	ccctaaaaat	ccttataatt	tatttcagaa	gaagagaaag	206760
	gtactttttt	tttggcagac	ggggacagag	tctctctgtg	ttgtctaggc	tggagtgcag	206820
	tggtaacaacc	tcagctcact	gcaacctctg	cctcccaggt	tcaagcaatt	ctcctgcctc	206880
20	agcctcctga	gtagctcgca	ctacaggtgc	ccaccactac	gcctggctaa	tttttgtatt	206940
	tttagtagag	acgggggttc	accgtatttg	ccaggctggg	ctcgaactcc	tgacctcagg	207000
	tgatctgcct	gactcagctt	cccaaaatgc	tgggattaca	ggtagtagcc	accttgccca	207060
	gcctcgaaga	aaggtacttt	ttaaggaagt	gcaacgatag	tggcaaataa	gagttccaag	207120
	cagaatgaag	cctcttctctg	gtagtgggaa	ctggggcttc	tggctctcagc	cattgatcaa	207180
25	ttatcactga	caggaacct	gagacctgtg	caaatgaatg	actgtgtaca	gttctagtca	207240
	ttgatctgat	cctcaaaaaa	agatgtgata	aatgtggatt	aattgaataa	gggattgtgt	207300
	gtgtgtatga	gtatgtgtgt	gtggaagga	gtgtaaagta	tgcaactact	ttgctatattg	207360
	aagatagatt	aaaatcacct	ccatctcttc	cttcagcata	gaaagacaaa	acgtgggaga	207420
	agtgtgaatg	caagtctatt	caccagtttc	taggatttgc	tctccgggtt	tggtagggta	207480
30	ggatggggat	caaaatttca	aagaaatatt	gcacagccaa	gaaaataaaa	gtctagtata	207540
	cctattcagt	tgctaggcag	ttactaatag	gttgttgata	attcaactac	tggtagcctt	207600

ES 2 784 246 T3

	aggtaggctg	aaatgcaatt	aatttgaaga	attacgcaga	aaaaatcctg	gatgagagac	207660
	ctagaagtga	ttaaggaaat	aagagtggct	caggcacttc	tctaaccatt	catcaactgt	207720
	gtaatggaac	acaagcaatg	cttttctca	acctttaaca	gagtggactg	ctgggaagat	207780
	gcattatgac	acagatccag	gaaagcatca	tctctgagtc	tttctgcctc	tttgtgttgg	207840
5	ttgggagagg	ctaaaagagg	tttctgaaga	ggaatgacca	gtgttagaag	aagtgtagca	207900
	tgtgtgctac	catttcaggg	cattatagca	gagaactcag	aaaggccaga	atcttgtacc	207960
	aaactgtaac	cacctctttt	ccaggtgaga	cagccagcaa	agaaagacac	atgaagcaaa	208020
	tggagccaca	cgtgatgatc	atactgatct	ctgctaaatc	aagctacagc	acacaggagt	208080
	cccaaagctt	gctgggcctt	ctctcacctg	catgttcact	cttattaaat	tatgatgagc	208140
10	cctctgacaa	actgtcatat	ttgaaggacc	ttttaccaga	gaagaggagg	gggaggaaga	208200
	gagaaatcaa	aaaagataag	caaaagggct	gggcttgctg	tgtgatcaca	gataaaatac	208260
	caaacagtta	aataatgctg	gagggtgacc	tcttatgtga	cccaatcaga	gatttgacat	208320
	ttatctcctg	aatgtgacat	cccattctcat	caaggatttg	ggacagtggg	gatgaggaga	208380
	cacgttctct	ctccctttcc	ttgctcagcc	ttgttctctc	tgtttactct	ttgggcttca	208440
15	gtgcactttt	gtggccaagc	ccagtttgtg	gcctgccctt	tgcatggcca	tctctgcagt	208500
	atcagtgaaa	actcaacagc	ccctctgtgt	ggccacactt	tttttctttt	ctaaaaacaa	208560
	tgagatactt	atatccacc	catgcaaatt	cctccaggat	attgctcttg	agtcacctt	208620
	gagaaatttc	cgtcttgaag	catgtctatc	tccatgttgg	gaaatttaat	tagtactcct	208680
	attgtagggg	ttagggaaaag	cacaactaca	cttttcatca	gcttcaatga	tttcacaaa	208740
20	gggcatttat	ttacttagtt	ataccagctg	tttgttcacc	agataccgtc	tcctttgacc	208800
	ctatgtgcac	acaaccac	gcacagcggg	tgttgactat	gagaactgat	aatatcacac	208860
	ccattttaga	tacatcattg	aggcaaaaag	ggacatttat	gggagatatt	tttctttttg	208920
	ttgtggaaat	tctgacaatc	tcattttatt	ttctcattca	aattattaaa	tgattctctc	208980
	tctctctctc	tctgcttaca	taggggtcat	catttgttct	tttaatccat	ttcaagagca	209040
25	tgtccccttt	tgccgtattc	agggatgatt	gccccctacc	tgaaccccat	cttgctccaa	209100
	caaacaagtc	atataatcag	agatcgact	cttagtcaaa	agtctgacca	gttaaagaat	209160
	taattgcctg	cgccaggag	tatggaaagc	aaaaaagaaa	ctctgttatg	atctctatag	209220
	atggaaggag	aatgcaacta	tttgaatgat	agagttaa	tgtcattatc	tagaaaagat	209280
	acttcattta	aacttctcct	ttacttaaaa	taaacacctc	aatgctcaca	ttcctgcctg	209340
30	gaacattttt	agcaataact	gctggttgtc	aatgacaaca	atcatattta	attgttcatc	209400
	ctgacatgct	ccagcactct	attaagcaca	gattactata	gattgaataa	atgaatagca	209460

ES 2 784 246 T3

	aagatgctgg	ccaagagctc	tgaacgtatc	agtggaaata	atgaattgca	tcatccttcc	209520
	atgaaaatgc	aggaagggcc	aacacaggtc	aagagcttgt	tagagtttca	ggttgtccat	209580
	tttgactgaa	ttaaaaagaa	agcaagttta	ttatggatta	tacatgtaag	cagggagagg	209640
	atgaagggtca	aatttcttga	ttaggtatta	tttagctatt	ttaccatatac	tcaaagttat	209700
5	aattcagaaa	tgaaatgaag	tgtatcttgt	ttcttatatg	aattttttaa	aggtacacag	209760
	tagatagtct	tactgaatth	tagtttaatt	gcactttcat	ctcaatatta	ttattttatc	209820
	aagccagata	agtaaataat	atcctttcat	caggtatcag	agcacagttg	taatataaat	209880
	gggattagca	taatgaatgc	ctttggagaa	aattataaaa	tgtcctttca	tgcacataca	209940
	gttttataaa	catgactttc	ctttgtttta	attcaatctc	tgatggaaat	gcacaaaattt	210000
10	taaaattctg	ggaagaacaa	acttatctga	tcatttttaa	gtaattgata	gatcacagta	210060
	gaattatgth	tttcttttaa	gtgatgagga	tagaaaattt	gagttgttta	attagacatg	210120
	tgactgaacc	cagacgtaag	gggatcactt	tggtgccttg	gaaagtactt	tgtactgaat	210180
	ggggaagtcc	agatatcata	ttctgggtgt	gggctaaata	ctaattacaa	aaccatcaga	210240
	caaaattatt	gttattatta	ttttgcagca	agtgactgth	aacattgaat	gtgtgtttatc	210300
15	aacttaaaag	tctattcttt	cttgaaaata	tgtgtcataa	atattttctc	ctcaaagaat	210360
	aaacacacct	tttataaatg	agttgattta	ttactgaact	atctatttat	gacagcatgc	210420
	ttcttccatt	tatccaataa	ttatttggtt	aacaatcaca	tttcataggc	ttaatgtttt	210480
	ataattgtht	tggtaaacct	cctgaatatac	tctatgtgta	cagaaagcag	ggaatgggca	210540
	ttttaagggg	ctgagatttg	caaactgtcc	tttagaaaat	ttgtaacaat	gtaccagcc	210600
20	caataataaa	caagaatgtc	tttccattga	ctataccaaa	tttctacttt	cctttaaagt	210660
	ttggcaaaat	tataagaaat	attaaattat	tattatttat	ttatcatttg	ttgtactgat	210720
	aaataacca	tccatccaat	aacaaataat	ttatccaaat	tataaaatat	taattattat	210780
	ttatcattta	ttaataaatt	atthattcaa	taataaataa	ctcatccatg	ttatataatca	210840
	tgtgttattt	atthtaataa	tgaataataa	ataatattta	gtatttatta	tttgattatt	210900
25	taatttttaa	ataaatgagt	ttgcattttt	aaatatattt	attgacaatt	tgtcaagttc	210960
	tcttgctaat	ttccttgcct	tcttattcct	agttagactt	gcatgctatt	tgtgttgcaa	211020
	atatttctca	gttggtcaat	tttctttct	ttttattata	gtcaatgcaa	acttactaca	211080
	aaagtagtaa	ttttaagggt	tctctggcac	cagaataaat	gcatgctaac	caataataaa	211140
	tgatacagta	taatttttaa	gtccacacat	tgtgtgggag	ccaaatggaa	caactgtcttc	211200
30	acaatgtggg	gcacagtctt	tgtgaggaca	actcctctat	gccagcttc	aattatgtag	211260
	atthttgaga	gtgtcagaag	tctgaagtag	gatcagtgga	taggattcta	tggtcttatt	211320

ES 2 784 246 T3

	attatntttaa	ttatctggtg	ttccaaaaag	tgtttcctga	aagttaaaca	atgagagttg	211380
	gtttccttcc	actttactaa	gtggtgtttt	atntttttcct	tcttagacta	tatgtatgat	211440
	ctgtaattat	gcatgaggtc	aaattgatga	gggctagcca	aatatgctaa	aatgtcagtc	211500
	tgagaatntt	aagtgtaaact	ctagcagaaa	ataagagcaa	acttgtccta	ctaatactga	211560
5	ctaccctgga	ggacacctgt	actttaatgt	ctaatgaatt	gtnttttcatt	gagtcaatnt	211620
	ttntttacatc	aatgttcatt	gaatattntat	tctgcatcaa	accctgtatt	cagccctggt	211680
	tggttaaaga	ttatctatnt	acttatcttc	tatgtatcta	tctatctatc	tattatctat	211740
	ctgtctgtct	atctatctat	ctatctatct	atctatctat	ctatcatcta	tctattcacc	211800
	tatcatctat	ctatccatnt	atctataacc	atctatctat	ctatatctgt	ctatgtctat	211860
10	ccatctgtca	tctatctatc	tatcatctat	ctattgtctc	tattcattat	tcatctatct	211920
	accctatcta	tctatctatt	agctacatat	ttagctagct	ggcatctatc	tatatgtctc	211980
	tatcatctat	cttgatatag	atatacagat	agagatacag	ttnttttcctc	aggaaagtca	212040
	gtgttaaata	aggctctcaa	ctgagcataa	ggatgaggac	aggtaaacga	taggggaatc	212100
	taattcaaat	gagtagttca	gggaaggctt	cttcaggaag	gggatcatta	acactaaaac	212160
15	ttgaagggca	catgcactta	tgtgttatgt	ggataaatta	ccaggggaag	tactggagag	212220
	aactagagag	aaagaagcaa	gattcaacat	ggttnttttaa	aaaagcgtga	tgnttaaaaa	212280
	aaaaatnttac	aggaaattac	cctaagtcag	tcagtgtttc	ttaaggctga	gcattaagag	212340
	aaataattct	tggggatgnt	aaaagctcag	atgtgtggga	actatcttag	gcctgntgaa	212400
	aagaaactta	atgaggccac	aacaggtctg	aagcagtggc	aatcttgaaa	aaaaacacag	212460
20	aaaaagacag	agactgaaga	ccaatgcaag	caattctaant	tccagacca	aagaaatgag	212520
	ataataatta	taattntctaa	ataaagtcaa	ctnttctacta	atgtacagaa	agagaaacct	212580
	agggcaatat	ttaaagtgaa	gaaatgaaaa	aaagataaca	tatctgtaaa	actgtgcatc	212640
	tataactntaa	ttnttgtaaga	ataaactactg	ctntttactag	taactntaaag	aaaaagnttg	212700
	tgatnttagac	aaataataag	gaagaagtaa	atntgaattca	gnttagtgacc	gattagaaat	212760
25	atcaagnttc	ttgactcaaa	cacctatntt	atnttttctaa	gnttagagtaa	ggctntagaaa	212820
	acagcaagta	tggctnttaa	aattattagc	aaaactcaga	agnttctcct	caaatcagga	212880
	atntcctctct	ctctnttctta	ctcacatgca	tgcacacaca	cgagcagatt	ctaatcacag	212940
	tgaaaaatac	caagatcgat	aaatatgcta	ttcagatata	agaaactntta	atatntttata	213000
	atatnttgccc	tatatntttta	aaggaataat	aggnttatag	ttaaaacctg	ttnttgcatnta	213060
30	ccatctcagnt	cttactntctt	tcactntcttc	cctnttgcaaa	aaatgtcatt	ttactgaaca	213120
	ttaaatattnt	agatctagnt	cattntcctnt	aaatgctgtc	tgaacattnta	cgtatgaatg	213180

ES 2 784 246 T3

	tattacaatt	tatataccca	ttcctcta	aatagaaatt	taatattatt	occagttttc	213240
	gatattacaa	aacattgcaa	taaatatcaa	tatttgatc	tctttgtgga	ggttatcaaa	213300
	gttccccttt	agcgttccta	tttagaaatg	ggagttctaa	gttgcaacag	atactgggtg	213360
	tactaaatct	catccttttc	ctctatTTTT	tagttcatgt	ttctgcccc	acttgtacct	213420
5	aatcacactc	accaaaagg	tggtaggtgt	ggctgggttt	cttgctgtc	actgtgtgat	213480
	ggtttgaagc	agctaactc	ttcaaaagct	aatggaatg	caaagactta	gccctatTTT	213540
	agagataaag	aaggctaagt	tagaacacac	caagtatgtt	tttagatat	catcaagcaa	213600
	atggaatc	cattattgta	actgaaaagt	ctgggctgtt	tcaactgagt	tcaaaagcca	213660
	cagtaaaaca	tcaatttaga	agcaagctgt	tagagaaaat	atgcctgtga	atgtgtatgt	213720
10	ctgtgtgtgt	ttgtgtataa	aaatatatga	tgtagcttat	aacacaaata	agtcagcctc	213780
	ctaccacta	cacatgtgtg	cacgtgtaca	cacagacaca	cagaaaaaca	tgcattgtat	213840
	cagggctatt	tgcaagacc	ctataatatt	ggattataaa	ttactgcctt	taataacata	213900
	gttttgccgg	cagcttggtg	ggaagtcccc	agtaagaatt	aatttgaagg	atatagttgc	213960
	aacgtctttc	tactttcaa	atatttcct	tgtatacttc	aacagtgcct	ggatTTTcaa	214020
15	cattagtgat	ttattcactt	gttttcaggc	actgaaatct	ccaaggtcc	tactttcaaa	214080
	ataaaatTTT	aaaatttata	gaagaaatgt	attatgccac	taagatcaga	atgattgaat	214140
	agatctaaag	catttataac	catttcctt	tcaggggtgt	ccaagggaga	taatagagtc	214200
	atagattcct	agttctgttt	ctggttgggc	cagcgaaata	ccttcctcat	cccttttctg	214260
	ctgtcacta	gagacagaaa	ctaaaagcca	tggctcaggc	tgccaaaagc	ttaaaacaaa	214320
20	acaacaataa	caataaaata	aggcaggttg	gacaagcttg	tgggatgggtg	aggggtgtaac	214380
	aagtctgga	gaaggtatgt	tccaatagac	agcaggcaag	agtagatggg	agagggcttc	214440
	ccacagtggc	tcacctagaa	cacatctcta	aatgtcttct	ttaaacacca	tttctttcc	214500
	ccagcatagc	tgataaactc	tctctatatt	ctcaccatc	gaggcctctt	tttatcacac	214560
	ttcatttct	tccttattct	aactctctgt	gccctcaggt	tctgagctac	tcctgccatg	214620
25	ggcagcccct	ccacaccctc	aacctcaaca	aggctcatgt	gattctctct	tcattccagg	214680
	gcaatatTTT	tcaatcttgg	catgattgcc	agtttgagca	gattaattct	ttgtttaga	214740
	ggcaatcttg	cgcattatag	gatgcttgct	agcatccttg	gcctctagta	attagatgtc	214800
	agtaggatct	cccagttgt	gacaacccaaa	aatgtcccta	gacatggca	aatgtgcct	214860
	gggggacaaa	caattgagaa	ccacttttct	ggatataatc	tctatctcat	tacactggta	214920
30	attgcaatgc	agagtagtgt	caaacataaa	taatgagatt	cagaaactat	gtgaagtata	214980
	gtgtttatct	gagtgcaaag	cttgaagatg	accacctgga	aaacacatac	tctaaaacaa	215040

ES 2 784 246 T3

	tgggtcttcg	ttcctaagtg	gataagtcaa	ggtttcattt	atatagggag	agttgcaaca	215100
	ttttccatac	aaggtcagtg	cataggttat	ggcaacttga	taagttacag	attgccataa	215160
	taaaaggaag	attgccttga	cattccatga	ggaggggtga	tgatctgagt	ggggtcttat	215220
	ctctgctgcc	acaaggcctt	tcttaatcat	ttataggaag	gggaagaagt	tccagctgca	215280
5	cactatgtga	ctcatgccac	atagccagaa	tcctctctgg	gttcaaaatg	ccttaaagtt	215340
	ccaacagttt	caagtttgaa	ttatttaatt	ttacagtaga	aaaagatgtc	aggaagagta	215400
	ctgagaaaagt	atctaaccce	gaataaagag	ttcggagagg	gatccctaaa	ggatgtcaga	215460
	aatgtcaacg	catatggttg	ggaaagagtt	ttctaggttg	agatacatca	catacggaag	215520
	cctgctgata	aatgataatg	aaacatcagg	ggaaatatta	agtaattcag	agtaccagca	215580
10	gggaagtggg	gaaatactgc	tggaggaggt	gggtgaaagg	aacaggatga	agagtgttgt	215640
	gtactaagat	gagtttgacc	ttctcctgag	gtcaagaggg	gaccaccgaa	gcatttttaa	215700
	cacacaaata	gtttcatttt	agtaaagttc	ttctggtagc	ctgtggaaat	caaagtcaac	215760
	aaacatagag	actattagga	gactattata	catcttagat	aacattcgtg	taatgtttag	215820
	ggcaatgtgg	tcattgacta	ggccaactag	gtaaacttta	gtgtcatcct	ctttctacat	215880
15	cataatttca	acaagccat	ggctgttggc	gattcaaaaa	ggaaatatca	ttgtcacata	215940
	gtgagtccgg	aaagaaggta	aaacatgctc	atgagctctt	actcatatth	ttcattgtat	216000
	tttttttaga	tttaattttt	acttattatt	ttctcaatct	ataaaatttg	aaattctcac	216060
	aagccttagc	atgtaaactc	tgttactgtc	ttcacacctt	tgggagatct	catccagtct	216120
	cagggccata	aatataacct	atattttggt	aactttaatt	tacatctcta	gcttgaattc	216180
20	ccccacttaa	ttcccaaaaa	caactcaaca	tatcaactta	gatgcttaat	agggaccctt	216240
	cacaatctat	cagtaaattc	tgaagcact	ataattaata	gacataatcc	tatacctaac	216300
	tctctctctc	tctctctcac	acacacacaa	atggttagtt	tccaacatta	tttcttctta	216360
	ctttttctct	aaaactggtt	acagtgtgag	tttccatttt	ataatcaatc	tttactcagc	216420
	taacactagc	tattgcgctt	tatagttaaa	cattagactg	gccgttatgg	cttactatta	216480
25	tgagaatcaa	tgttttatth	gacactttgt	gcctcaaagc	tgcttattat	taaattgtgg	216540
	cagcactatt	acttcccaaa	tgtgttggcc	tcaacctaath	ccccaaatcc	ttgtaggcac	216600
	atgtccatgg	gcatgttatt	aactgaaagt	acttactcac	acagccttac	caactttaaa	216660
	aaaacaagga	aatctgaaag	gaaaaaaaaag	tcatgtaata	ttaatagcac	atattgtatt	216720
	ataaattatt	ctgtaacaaa	taagcaaatg	taaaaatgat	gctgtattca	cccccaact	216780
30	taatcttgtg	tagtggcata	ctgtgaaata	gcataatctca	tttcccagtc	taatgagtta	216840
	ttgtaaatac	tgtttggtca	aaattacatg	tgtataaaaac	cttaggtctc	gtgtttcttg	216900



ES 2 784 246 T3

	atatttctgt	gtttgaagtc	tgtggtaact	tgtcatggca	gcctgaactg	actaagagag	216960
	gacccattct	gatgctatca	aatattaaca	aataattgag	atcctgctcc	actgaagact	217020
	tctttgtcct	caattgtaga	tggaggaat	gggctgttaa	tagaaatgat	tgtaagaaag	217080
	tccaaagtgg	tttggtatgg	tacatttaat	aatttaaadc	tgattatgct	attttccctt	217140
5	ttggtttaac	atgtatcaaa	caaacaaaa	gtcatgtcct	ggcatatagg	tgccttagat	217200
	ttagggaaaa	aaataaaaat	agaaaataaa	agagaggaaa	agagatacct	caatcctttc	217260
	atcccactgt	gcttaactga	aagaactgca	tttgataact	ttactttgct	atcgtttagg	217320
	agactctcct	taatttgatt	ctgttcaact	tatccagatg	ctattttaaca	catgtcttct	217380
	gtagaagctg	tcttacttcc	cacactccct	cccactttta	tacattagtc	aaaccattac	217440
10	ctcatccctg	aatgacctc	tctccctgaa	tgcctaagtt	tacctactcc	tcaagacctc	217500
	ctcctatttt	atztatatta	tgcttttact	ttttaattca	tgatgttcag	tgtgaaaaag	217560
	ttgtaagatt	aaaaacatta	atltccattt	taaggaattt	atagtattct	aatcggtaaa	217620
	acactttcaa	tacaaactga	tatattatac	aaacaataat	atagccttat	acatgtatac	217680
	tattagtatt	ctaattgggt	aagcacactt	tcaatataaa	ctaattgtatt	aacatagctt	217740
15	atacatgtaa	tatatatata	aaatgtataa	ggctatgtta	taattattaa	tactatatta	217800
	aatgtattaa	gcaaacataa	aatagcctta	tatgagtaaa	aagtagaagc	gtctggaggg	217860
	aataggtgaa	attcagagag	gaatgtttaa	caattttgta	gaatgggaaa	ttaggagatt	217920
	gggaggagaa	gttcaggaag	aattcacata	actgcaatga	tcctcccttc	tgatactctt	217980
	atctgcccta	tcatttgtga	catcttatac	attggaccog	ccattttctc	tgtgtacttt	218040
20	atctttgtaa	tgagattgtg	aattcatgtg	aagagcagac	atgagttacc	tattttctct	218100
	atltgacaga	atgcgctgca	gagttcctat	catttttctt	ttcttttctt	ttttttgaga	218160
	tggagtcttg	ctctgtcacc	caggctgtag	tgaggttccg	cgatctcgga	tactgcaac	218220
	ctcaacctcc	cgggctcaag	agattctcct	gccttagcct	cccaagtacc	tgggattaca	218280
	gacacgtgcc	acaacaacag	gttaattttt	gcacttgag	tagtgggtggg	gtttcaccac	218340
25	attggccagg	ctggtctcga	aatcctgacc	tcaagtgatc	tgcccatctt	ggcctctcaa	218400
	agtactggga	ttacaggtgt	aagccaccac	gcctgggtccc	atlttggttaa	agtlttgaca	218460
	ttttctgaaa	tctgggtctt	tgacactaat	ccattttcag	caattgaaat	aaaaaaatta	218520
	cttgatgaca	gggaaggcaa	taaataattat	taaccaaagt	attcttctaa	tgcactagaa	218580
	aatgatggga	agggcagaga	atagtctcaa	aaacttttat	caactagaac	tgtgtgatgc	218640
30	aaatgctcag	cttcatatlt	gcctcaaatg	aagctgagct	attctctttg	ctttcccatg	218700
	tagggagctg	gacttggact	accacagcc	tttggctcggc	tgatggctgt	ttaatcacia	218760

ES 2 784 246 T3

	acaaagagat	tccaggacaa	gtaacaatag	cttttgttta	aaaaggactt	catatgtcac	218820
	aaaattcatt	atcacctgtg	cattggttag	ctcaggcttc	cataacaaaa	tacttcagac	218880
	tgtgtggatt	aaacaacaga	tcttatttta	tcatcgttct	ggaggctgta	tatccaagat	218940
	tagcctgcca	gagtggtaag	ggctctgtaa	gggccctctt	cctggcttgc	agatggtcaa	219000
5	cttatcactg	tgtcctcaga	tggccttttc	tctgtgtgca	cacagaaaag	agagagagag	219060
	ggtgagatag	acagagagtt	agatctctgg	tttctattct	cataagaaca	cttaattact	219120
	ctcttatggg	ttccatttct	aaatacagcc	acactgggag	ttagggcttc	cctatgtgac	219180
	ttttggggag	acacagacat	tcaatctata	acaaccctgt	accacctgga	atcctcagat	219240
	tagtaaagaa	ggaaggacaa	gaattaatat	aaccatttgc	caatgaagca	ctgaatatca	219300
10	gggagcttac	agattgttcc	aatcataga	agcagcaa	cttagaattt	ttgaaaccag	219360
	aagttgtgtg	caagtgtttc	ttccccatgt	ttctgtccat	tactgatgtt	ggtgccaact	219420
	tggagttaa	tgcagaagtc	ttgtggaata	tgagggtagg	aaagctgggt	tatgtgcatt	219480
	ttagaatgaa	aatgtgaacc	atctagaatt	ttatctttat	cttggctttt	aaaaaaaaaga	219540
	attttccaga	tgcacttaat	gctctaggag	gtaggcagag	gattagaaaa	gaagaataag	219600
15	acaaagtga	atgataatga	gcttcagggc	atcagaataa	gacctctgga	tctgaatgtt	219660
	tgttatagga	tactttttag	aaaaaaaaatg	tgttatttta	aaccatgttg	tttgtcatag	219720
	tgaaaggatt	atztatattc	attacttgtt	aacattggtc	ttttaacggt	tttgtagctt	219780
	cctgtaagca	ttcatgaaca	acaaaaatgt	tttcttttaa	gagagtaaga	aacaaaaagg	219840
	acatgcctat	aattcttatt	ttgaaataag	ataaaattac	ttagatacaa	ggagatattt	219900
20	tgggagaaga	tgtcttttac	tacttaataa	aatttacttt	cttcctcaa	gataagaaaa	219960
	caacagtaat	aggaaccaga	acaaaacaac	cttcttgatt	tctaagaaat	tgaattaatt	220020
	ttcccttcaa	tgataatctt	tttcatcccc	ttcttttttt	tttttctttt	tttttctttt	220080
	tttttaacaa	gacctagcat	cagctttggg	agagcaactg	actaaggagg	tacacacctt	220140
	tctttgaagt	taggaccttc	tggctttccc	taggtcatga	agacatgtca	ttttgccag	220200
25	cacctacttc	acctggctca	gaaggaggcc	aatgcacaca	ctctgagtgc	ttatctcact	220260
	ttccctccat	tctgcatatt	caggcactgt	tcttagcaac	acagcctttt	ccacaaggag	220320
	agttgcaaca	catttttctc	aggaggaggg	agagggaagt	cgactttcct	actacttgct	220380
	taaaatactc	aattgctccc	cagtgetcat	gggatcagat	accactttg	taaacttctc	220440
	caggaggttc	tgtgggggcc	tgcttctct	ccctccccag	cctccatttc	atcgcttccc	220500
30	tattcacatt	atatgcccta	cctcagcaaa	agccaggctg	tttcttgact	ttttgctggc	220560
	tgctttgtgt	ttttgttttt	gttttggttaa	aaacacataa	tgtcaaattt	accatcttag	220620

# ES 2 784 246 T3

	caatttctaa	gtgcacagta	cagtattggt	aactatatgc	acatcgttgt	gcaacaaatc	220680
	tataaaaaatt	ccatcttgca	acactgatat	gatctggctg	ggccctcacc	caaatctcat	220740
	attgaattcc	catgtgttgt	ggggtgaaac	tggtgggagg	taattgaatc	atgggggcag	220800
	gtctttccca	tgctgttctc	atgatagtga	atatgtctca	tgagatctga	tggtttttaa	220860
5	aataggagtc	tccctgcaca	agcgcctctt	tcttgctctg	tgccaatgtg	agatgtgcct	220920
	ttcactttcc	accatcatta	tgaggcctcc	ccagccatgt	ggaactgtaa	gtccaataaa	220980
	cctcttcctt	ttgtaaattg	cccagtctcg	ggtagtctt	tatcagcatc	atgaaaacag	221040
	actaatacaa	acactaaaat	tctatgccca	ttgagcatca	aatttccttt	tcaccctttg	221100
	ctatcccctg	gcaaccatca	ttctattttc	tgtttctaag	agcttgacta	ctttagatac	221160
10	ttaagtatct	catatgagta	ggattatgca	gtatttgtct	tttagtgaat	ggcttatttc	221220
	acttagccta	aggtcttcaa	tatttatcca	cattatagca	tatgacagga	tttccttctt	221280
	tttcaaatgt	aaaaaatatt	taattacatg	tatataacat	ataccacaat	ttgcttatct	221340
	attcatccat	ctatgaacat	ttaggttgct	tccacctctt	ggctagtgtg	aataatgttt	221400
	ccatgaagat	ggtagcaaaa	tatatctttg	agactttggt	gtcaactatc	ttggataaat	221460
15	accagaagt	gggattgctg	aatcatatgg	tagttctatt	ttcaattttt	ggaaaacctc	221520
	catacaatth	ttttatagca	gctgtaccat	tttgcatctc	tacaacagca	tgcaaatggt	221580
	ccagtttctc	cacatccttg	ctaactctct	ttgtcttttg	tttctgaaaa	tagccacca	221640
	gacaagtgtg	aagtggatc	tcatggtttt	agtagcattt	ccctggatgat	taataacatg	221700
	gagcatcttt	ttatgtatth	cttcaccatt	tgcatgtctt	tatggagaaa	tgtctattca	221760
20	aagacaaaaa	acaaaaaaca	aacaaacaaa	aacaaaaaaa	cacactaaat	taattaatta	221820
	attaattaat	taaaaaatta	gccaggtatg	ctggcatgta	ccttgggagg	catgctgatg	221880
	tatacctaath	cttctcgga	ggctgaggta	gaagaatccc	ttgagcctgg	gagtttgatg	221940
	ctccagtgtg	ctatgataat	gccactgcac	tccagtcgtg	ggtgacagag	caagttcctg	222000
	tcacaaaaag	aaaaacaaaa	actttaaaaa	acttatatac	tttgttattt	ttaattttaa	222060
25	aataattcta	tagctttttt	tgtgtatgtg	gttaccttgg	agcttacaca	aatatcttat	222120
	tgtattacag	tctattttaa	gccgatagaa	acttatattc	aattatgtag	taagactaca	222180
	cttcaatth	ctccataca	ctttgttatt	tttatcatga	tttatattta	ttcatattat	222240
	gtacctttca	acatattth	agttatagtt	atthtaatac	atthttcttt	taactthtat	222300
	acaagtatta	gagcaattta	caatgattac	agtaacagta	ttatgtactt	gtctacatat	222360
30	ttacctttgc	caacgagth	tatattttcg	tatactattg	tgttgctatt	ttgcatcctt	222420
	tcatttcaac	cttaaggact	cccttttgcg	tttctthtaa	ggcaggthtt	gtgatgatga	222480

ES 2 784 246 T3

	actccttcag	cttttgTTTT	tctgtgaaaag	tctctatctt	ccctttttgt	tttaaagaag	222540
	agttttcca	gatgtagtat	tcttgattat	cagtttcatt	tttttctttc	agcactttga	222600
	atatattatt	ttactccttc	caacccaaaa	agtttctgct	gaaatgtcta	tttatagtct	222660
	catggaagtt	ccttgatatat	gacaagtcac	tctttttctc	ttgccgcttt	cagaattcct	222720
5	actttgtcct	ttacatttga	caatttgatt	ataatgtggt	tcgatgtgca	tgtattcatc	222780
	ttatttcgtg	tctctgggct	tctgggacct	ggaacttact	tctacagatt	tgataagttt	222840
	tagtcattat	tacattaagt	cacttttctg	gttctttggt	tcttcttttt	ctgggacttc	222900
	agaatgtgtg	tgttgggtcaa	cttgatgggtg	tcccataatt	cctgtaagtt	ttcttcactc	222960
	ttttgcagtc	tttttgcctt	tatgctcctc	taaattatct	ccagtgatct	gtcattggat	223020
10	ttgctaatacc	tttcttttgc	ttgggtctagt	ctgctgtgga	acctctctag	taaatttttc	223080
	agtgtacggt	gttcagccca	tgatttctgt	ttgggtacttt	ttaagatttc	ccatctcggt	223140
	gttgaaattc	tcactatatt	tttgtgtcct	tgatgagcat	cttgtaatta	tttttaatta	223200
	tctattggat	aatcatgta	aggttgggtt	ctgtatgttt	atcttgttcc	tttgtttaga	223260
	acatttttac	ctgattcctc	atTTTTtctt	gaccctctat	gttggtttct	gtatattaac	223320
15	aaagcaagca	cctctcccag	tcttcatgga	ctggttttat	aaaagagaac	actttcacca	223380
	acaaatacag	ccaaaaataa	tggtggccta	taataattct	ttccctcctg	aggaggaatt	223440
	aggcagctgt	gatttttgtc	catttattct	gtgttgagcc	agagagaggg	tagctatggt	223500
	ctacaagccc	aaaacaccat	tttcatactt	ctctgagcag	cttgactgtg	ctgggcctgc	223560
	ttaagtcagc	actgggttaga	aatgctagtt	atTTTTgcat	ccatggagaa	aagttagggt	223620
20	gctggacaca	tggataaatt	ctttcctttc	ctatggagaa	tctttcagct	tgttttttaa	223680
	aacctacttg	ctatgtgctg	agcaaggggt	ataatcactg	gcatctacca	ggctaaactg	223740
	ttgccaacat	tctcccctgg	gtgggttgac	tgtgccagac	ccatcacagc	cccaatattc	223800
	ataggacagc	aaccagtttg	ctgagagccc	ccttgacagaa	gtggagtgtc	gaacacacaa	223860
	accaatctct	tctctccctt	gggtgaagct	agaaggaag	gcatatgttc	ttgatccaat	223920
25	ggcactgtgc	aagggagggga	tttctgggtta	gaaagtatcc	tgaatttccc	tactagcttc	223980
	gacaaatctg	gttaagcttt	cttctgaggt	gcaggagtct	tttaattcgt	ttgtgattac	224040
	tcacagagtg	ggctgatttt	tgaattgttg	cttaatcagt	gtgtttgtgg	gagaaaaatag	224100
	gaagtccagg	tcttcctatt	ctgccactgt	gctgatgtca	ccttttgctt	ttgtcttggt	224160
	aacccaaaag	aaaataccta	tagaacataa	acattataaa	aaaaaaaaaa	aagaaaaaaa	224220
30	agaaaagggtg	acatcagcaa	gatggccgaa	tcagaagtcc	tggaccctat	ctcttttctt	224280
	ctgggacttt	tataatggat	atacttggtt	acttgggtgg	ataatataag	ttttttattc	224340

ES 2 784 246 T3

	tttctgtcct	tattgttttt	ccttctgac	cccttggca	ataagttcaa	ataacttgtc	224400
	tttgagttca	ctgattcctc	taataaatga	agagtgtttt	tgaaactctc	tagtaaagtt	224460
	ttcaattaag	ttgttctatt	cttcagcttc	agaatttcag	tttgaatcct	ttttgtagtt	224520
	tctaactcct	tattgatact	ctcattctgt	tcatgctttg	tttggttgtc	cgtctattta	224580
5	tctttagct	cattaagatt	ctttaagata	ttttgaatta	tttttttaga	aaattcacag	224640
	agctctcatt	ctttaaatat	taatttttag	agatattttt	tcttttgatt	gagccttatt	224700
	tcctgtttc	ttcatatgct	ttttttggcc	aggatttact	tatttgaaa	aaaagatcta	224760
	aaattctcag	gccataagga	ctggcttcat	gcaggggaag	atctttacta	attattctag	224820
	tcagagattc	tttgggcctc	tcaaatcttt	tctaaaaatg	tgtcttctct	gtgcttgttt	224880
10	gtgtaatttc	ctaattacaa	tggtatatag	gattttaaga	aaatctcata	atctcttgct	224940
	ccttccactg	tctgtctgtg	ctgctgctgg	ttctctggtg	ttgcaacaaa	ccactccttt	225000
	gttctcagtg	gctctcaggc	atccaatcta	ttgcagctca	tcatcaatgc	tcttcaccag	225060
	gtgaaacaga	aaccagttcc	atagacagct	tactgaaaa	gtcagaaaat	tttatgtaca	225120
	ctcacactcc	actcttctat	ttccctctca	aggaaaaatt	tgtgagttgg	gcatgttctc	225180
15	ctgattgcac	taattgtgct	ggcttgggtg	gagggctgtt	agtgaaatgc	agcaggtttt	225240
	cttactcatt	tcaatatagc	tattgtttgc	tctgggggat	tgtgacttct	taattatttc	225300
	cagagttctc	ataaagactt	tttgaacata	tattattggt	aaatttgat	ctctgttggga	225360
	taatgactct	ggggttctta	atctactatc	ttgctgatgt	aacccttttc	aaaacttcag	225420
	acttttaaaa	cactttttat	tgtgataaat	tggagacatt	gtatcattta	cagtgcataa	225480
20	aaatttagaa	caaccataa	ttattctctg	ttttagatc	ttccctttca	atatttttcc	225540
	atgcttttta	taatgttgct	attataatga	acaagcttta	tttaacatta	tattctaagc	225600
	actcaccgta	aaattataaa	ctactcatag	aattatttta	gaagttttat	gaattctgct	225660
	ctgagagcat	tcacctacat	atatatata	atatatacaa	ctttttgctg	ttatcaataa	225720
	tagctaatat	tattgcta	gatacgattc	tatacctaaa	aatctctaaa	gacttcacca	225780
25	aaaggctcct	aggcctgatg	aaccatctca	atgaagtttt	gggctaccaa	attaatgtac	225840
	aaaaattag	agcatttgca	tacaccagta	aggttcaagc	tgaaagtcaa	atcgataacg	225900
	caaacacatt	tacaatagcc	agaaaaaat	aaaatatcta	ggagcatatc	tagccaagga	225960
	ggtgagacct	ctcaaagaca	accacaaaac	actgctgaag	gaaatcatag	atgacgat	226020
	cattaaaata	tctacactgc	ccaatctata	ctttcaatgt	tatatgtacc	aaattaccaa	226080
30	tgttattttt	taaaaagaa	ttagaaaaaa	gcattctaaa	atztatatgg	actcccaaaa	226140
	gagcctgaat	aagaaaagca	atccttagca	aaaaaaaaac	aaagctgaag	gcatcacatt	226200

ES 2 784 246 T3

	gcccaacttc	aaaatatact	ataaggccat	agtaatcaaa	acagcatggt	actgttaata	226260
	aactagacac	atagaccaat	gaaacagaat	agagaattca	gaaataaagc	agcacaccta	226320
	gaaccaactg	acctgtgaca	aaatgggcaa	aaataagcaa	tgaggaaatg	actccctatt	226380
	caataaatga	tgctgggaaa	actgggctaac	catttgtgga	agaatgaaac	tagaccactc	226440
5	cctctcacta	tatacaaaaa	ataactcaag	atatattaaa	gacttaaata	taagacctca	226500
	aactataaca	attattgaag	aacacctaca	aaatactctc	tcaagtatca	gcataggcaa	226560
	agagtttatg	actaagtcct	caaaagcaat	agcaacccaa	acaaaaactg	ataattggga	226620
	cctagttaaa	ctaaagagct	tctgaacagc	aaaagaaact	atcaacagag	taaaaaggca	226680
	ccctacagaa	tgggacaaca	tatttgcaaa	ctatgaatgt	ataaaggact	aatatgcaga	226740
10	atctataaag	aacttaaata	aatcaacaag	agaaaaagaa	agtacaccat	taaaaagtgg	226800
	gcaaaaagta	taaaaagtat	tctcaaaaaga	agacataaaa	gtggccaaca	gacatataaa	226860
	aaatgctcaa	catcactaat	tagagaaatg	caaatcaaaa	ccacaatgag	aataatacct	226920
	cacaccaagt	gacacgcaca	atcaggatgg	ctatcattaa	aaagtgaaaa	aataacagat	226980
	gatggcaagg	ttgcagagca	aagggaatgc	ttatacatag	ttggtgggaa	tttaaattgac	227040
15	ttcgytccct	gtagaaaagca	gtttagggat	ttctcaaaaa	actaaaaata	gtactacaat	227100
	ttgaccagc	aatcccttta	ctggttatgt	aagtggaaaa	taaattgtcc	tgtcagaaag	227160
	acacttgctc	ttacatgttt	attgcagcac	tattcagaat	agcaaagaca	aggaatcact	227220
	ggataaagta	aatgtggtac	atatacacca	tggaatacaa	tgcaactatg	aaaaataata	227280
	aatcatgtc	ttttgcagca	acacagctat	aactggaggc	cattatccta	agcaaattaa	227340
20	cacagaaaga	caaaacccaa	tattgcatat	tatcacttat	aattgggagc	taaactttgc	227400
	ctacacatgg	acataaggat	ggcaacaaca	gtcactcggg	acttctaaag	gtaggaggta	227460
	ggtggggaga	agagttgaaa	aacttctctat	tgaatgacaa	gatcagtaga	agtccaaacc	227520
	tcagcatcac	acaatatact	ccataacaaa	cctacacatg	tgccccctga	gtctgaagta	227580
	aaaaaattaa	aaactaatat	ttgtataaca	gtatctctgt	gttaacatct	accaagaatt	227640
25	ctgtctttta	tctcatattc	ctatatgtgg	aagatttcat	ccatccaaga	gtggtaagca	227700
	attgaaatat	gatcatgttt	acatagaaaa	actagcatat	ttaagatatt	tttagcttaa	227760
	aagagcagaa	cgtcctggtc	ttttgaaagc	cctgcaagat	aatttcaaga	agatgtatca	227820
	gcacatttta	aaaagataga	ccatctagga	cagattttga	gatctcaaca	aggtcactaa	227880
	ttctttatta	cacagtatcg	ctaactagta	aggttgccaa	aatggaaata	tcaatacgaa	227940
30	catccataat	cagtaacaaa	aaataattga	gttgattgtg	gagcttttca	ttgaagtcag	228000
	aatactggaa	ttatgataaa	ctaactgact	atagataaaa	attatccatc	tatctatttt	228060

ES 2 784 246 T3

	gtgtacgtag	agttctgatg	cttgtaaatt	cttcaaggga	gcaaaatgga	catattcaca	228120
	agaaatataa	aagaatattt	cctctattaa	agaaaagttt	tgacatttct	ccctgtacta	228180
	tatttcaaaa	gcaaatgcaa	attattaagg	attaaaaaaaa	gtttttaa	agaaactact	228240
	atcatatgag	tgtatattaa	atcctttgct	acaaaagaga	atatgcatat	tctaaaacag	228300
5	attggaagat	taaaatattt	accactgtag	aaagcaaatt	tagatttagg	gaagtagaga	228360
	tcttattgac	cgaaattatt	gtagtaggaa	gaatgtttca	actacaggat	ctgaaaatgt	228420
	ccaaaagtca	cacagaaaaa	aactcttctt	ttatatggag	gggtaaagta	gcctagaaag	228480
	aataaggtat	ggggcagtg	ttgagcatgt	catgatctac	agttattcaa	cgaatgattt	228540
	atctgaagct	cagcctgctc	ttgacagggg	ttgttaagga	gaagttgttt	catattacct	228600
10	tgcccaagag	tggcctcaaag	ttgaggaact	tgaaggaagg	aatgaagctt	aacttaaagg	228660
	gtgataaagt	caaaataaca	atcacatttc	atatcgatca	gtggggcaaa	aatctcagga	228720
	acccttgata	agacaaaaaa	tgggaatttg	atgggtctat	atctggcttt	tttctgtgta	228780
	aacaggggac	tctcattaaa	tttaatgaag	tcccacagga	aaatatgctt	ctttgcagta	228840
	agctgttacc	aaggaaacaa	aggtttgggg	gataaagttc	cttaaacttt	gcaattttcc	228900
15	aggattatac	agttggagta	aatttcaaca	ttgtcactaa	aaaaaatcc	ttgtctagac	228960
	ctatgttttg	aagcattttc	tctatgttat	tctccagtat	ttcatagttt	cagatcctaa	229020
	atttaagtcc	ttaatctatt	tgagttgatt	tttgcattgt	gtgagagaga	gagagagaga	229080
	tctagtttcc	ttctttgtca	cgtggatatac	aagttttccc	agaacaattt	attggggaga	229140
	cagctttttc	tccagtagat	attcttgggt	cttttgttga	caattagttc	atggtaaata	229200
20	tctggattta	tttctggggt	ctttattttg	ctccactggg	ctatgtattc	gtttttatgc	229260
	cagtattatg	ctgtgttagt	tactatagct	ttgtactatg	tttttaagtc	agatagtggt	229320
	attccttttag	ctttgttctt	tttgcctcaag	gctgttgtgg	ctatgtgggt	ttttttcaaa	229380
	ctaaaagctt	ctgtaaagca	aataaaacaa	tcaagagtga	agagacaaca	tatagaatga	229440
	gagaaaatat	aaacaaataa	tatgttttat	aagagatcta	tatccaaaat	atataaggaa	229500
25	cttctataat	gcaacaataa	aaaacaagca	accagttca	aaaaataaaa	ataaaataaa	229560
	gaacttgaat	agacatctat	taagagatac	aaaagatata	caaatagaca	ataagcccat	229620
	gaaaagatgc	tcaacatcat	taatcattag	gaaaatgcat	atcaaaacca	cagttagata	229680
	ccacttcact	accattagaa	tgatgatatg	ggttggctct	gtgtccccac	ctaaatctca	229740
	tgttgaatgt	aatttccagt	gttggaggag	gggcctgggt	agaggtgatt	gaatcatggg	229800
30	agtgaacttc	ccccttgctg	ttctcatgat	agagttctca	caagatgtgt	tttttttttt	229860
	aaatgtgttg	cacctctctc	caccctacc	ctgctggcca	tataaagatg	tactggctgc	229920

ES 2 784 246 T3

	ctctttactt	tccacatga	ttgtaagttt	cctgaggcct	ccccagaagc	agaaacctgt	229980
	tcagcccata	gaactgtaag	ccgattgaat	ctctttcctc	tataaattac	tctgtctcag	230040
	gtagttcttt	ctagcaatgt	aagaatgaac	taatacagat	gactattaca	aaaacaaaag	230100
	caaaaagtaaa	acagaagtaa	taagcgtag	caaggatgcg	gagaaattgg	aattcttgca	230160
5	cattgctggt	gagaatgtaa	aatggcatag	ccactgtgaa	aaacagcatg	gcaattccaa	230220
	aaaacaacaa	aaaaacaaaa	caaaaaaatt	atcgtaacca	tatgatccag	taattccact	230280
	tctgggtggc	aggttctagt	ttcaatcacc	tcttacctaa	gggcaagggc	actatgcatt	230340
	cctgacaaca	tatgtgagca	tcctcttccc	tgtccagcag	cacattctct	tggttatatac	230400
	tttcttagat	ctattctgat	cctaattctc	tccactaagt	cacttcatag	aggagagaaa	230460
10	taacaagtat	tccataggcc	aactccatta	ctacaggaca	gaatthttca	ttctggactt	230520
	caccaggcct	gcctgtcttc	agcacagtgc	tcagcctgaa	atgaaggcct	caacagatat	230580
	tggtataccc	atgttcattg	tttacaatag	ccaaaagttg	gaagcagccc	atatgtctac	230640
	taatggatta	gtgggtaaac	ataacgtggt	acataaatat	agatggacta	ctattcagct	230700
	ttaaaaaggaa	ggaaattcag	acacatacta	caatatggat	aaacattatg	ctaaatgaaa	230760
15	caaaccagtc	acaaaaggac	aaatactgca	tgattcaaac	ccatatgtga	tattcaatgt	230820
	agtcaaattt	atagagagaa	aagtagaatg	gtatttgcca	ggagctgggt	gatagggaga	230880
	aacagagagt	taatgtgagt	agtthaagct	ttgcaagact	aaaatgttct	gtggggtgat	230940
	gatggtaatg	gtttcacagc	aatgtgaaag	tacttaatgc	tggtgaaatg	gctaaaatag	231000
	taaattttat	attatgtata	ttttaccata	agttggacaa	aataaatttt	tttttgaaaa	231060
20	ccaaaactga	caaatttttt	tcatgtttga	ttgggggaaa	aagatacaaa	tagtaccttt	231120
	attatataag	aaaggagata	taaatttaaa	tactgtggaa	tttttaaaac	atgaaagatt	231180
	atcatataaa	atgacattac	aacatttgaa	aatacaggtg	aaacagataa	agaaaaatga	231240
	ttaaaattca	cttaagaatg	tatgaaagct	ctgagtaggc	taatatgctt	tagagaattg	231300
	aatatgtagt	aaacatcact	aagtaaagaa	aaaacctgca	taggtttgtg	agtaaattaa	231360
25	aaattttaaag	caaagaaagc	aaatatattg	acaaaaatgc	tttcagcaca	caaataagtt	231420
	cttattataa	aacattttat	aaacctaaaa	atactttttc	attaacata	ttttctagct	231480
	cagtttacia	gtctcgcatt	tttataaaaa	aatgaacaaa	agtagcacac	aaaatgtaac	231540
	tgtgaggtta	atthgtttta	aagggttata	atgaagaaat	tatatgataa	tatcaagaca	231600
	caccaagct	attattaata	aattctcatt	aaaatataaa	aatcaaaaag	agactgctgg	231660
30	caagatggcc	aaaaaggaac	agctctggca	gctccagcga	gaccaatgca	gatggcaggt	231720
	gattgctgcg	tttccaactg	aggtaaccta	ttcatctcat	tggaacttgt	taggcagtg	231780



ES 2 784 246 T3

	gtgcagcaca	cggaaggcaa	gcagaagcag	ggtggggcat	tgccatcatct	aggaagtgca	231840
	aagagagggga	ggcatccctc	ccccagccaa	gagaagccat	gagggactgt	gctatttcagc	231900
	ccagatacta	tgcttttccc	acagtattta	ccacagacca	ggagattccc	tcatgtgcct	231960
	acaccatcag	ggccctgggt	ttcaagcaca	gaactggaaa	actgtttggg	ctgacactga	232020
5	gctagctgca	ggtttttatt	attattgttg	ttatTTTTTt	ataaccctagt	ggtgcctgga	232080
	acctcagtga	gacagaatca	tttattccc	tggaaagggg	actgaagcta	gggagccaag	232140
	tggctcact	cagggggctc	cactcccaaa	aagcccagca	agctaagaac	cactggcttg	232200
	aaattctcac	aggaagcaca	gcagtctgaa	gttgacctgg	gatgatcgag	cttggttggg	232260
	ggagaggttt	ctgccattat	ggaggcttga	gtaggtggtt	ttcccctgac	aggactaaaa	232320
10	aggcctggaa	gctcagactg	ggcagaattc	aacatggtgt	ggcaaagcgg	ctatggccag	232380
	actgcctctc	tagattcctc	ttcacttggc	aagacatctc	tgaaagaaag	gcagcagctc	232440
	caatcagggg	cctatagata	ccactcccat	ctcactggga	cagagcgcct	gggggaaggg	232500
	gtggctgtag	gcacaacttc	agtggactta	aatgttctctg	cctgctgact	ctgaagagag	232560
	cagcagatcc	tgacaaggag	ggtttttctc	agtacagcgt	ttgagctcta	ctaagggaca	232620
15	gacttccttc	tcaattgggt	ccctgaccgc	caaacctcct	gactggaaga	gacctcccaa	232680
	caggggttgt	cagagacttc	atacaggaga	gctctggctg	gcatcagcct	ttgctcaaaa	232740
	gcttccagag	gaaggagcag	gcagcaatct	ttgctgttct	gcagcctcca	ccactggtga	232800
	tatccaggca	aataggtct	ggagtggacc	tccagcaaac	tgacagcagac	ctgcagaaga	232860
	ggggcctgac	tgttagaagg	aaaacaaaca	aacagaaagc	aataaaatca	acatcaacaa	232920
20	aagaaccccc	aaaaagaaac	cccatccaat	ggtcttcagc	ctcaaatacc	aaaggtagat	232980
	aaatccatga	agatgaggaa	aaatcactgg	aaaaatgctg	aaaatttaaa	gaaccagaat	233040
	acctgttttc	gtccaaatga	ttgcaactcc	tctccagcaa	gggcacaaaa	ctggacaaga	233100
	aatatTTTtga	ttaattgaca	gaagtaggct	tctgagctaa	aggagcatgt	tctaacccaa	233160
	tgcaaggaag	ctaagaacct	tgacaaaagt	tacaggaact	gctaactaga	ataaccagtt	233220
25	tagagaacaa	aataaatgac	ctgatggagc	tgaaaaacac	agcacaagaa	cttctgaag	233280
	catacacaag	tattaatagc	caaatgatc	aagcagaaga	aaagatttca	gggattgaag	233340
	atcaacttaa	taaaataagg	agtgaagaca	agattagaga	aaaaagattg	aaaaggaaca	233400
	aacaaaagcct	ccaagaaata	tgggactatg	taaaaagact	aaacctacga	tagattgggg	233460
	tcctgaaaag	tgagaagaag	aatggaacca	agttggaaaa	cgcacttcag	gatattatcc	233520
30	agaacttccc	caacctagca	agaaaggcca	acatttaa	tcaggaaatt	cagagaacac	233580
	cactaagata	ctcctcgaga	aaagcaacct	caagacacat	aatcatcaga	ttcttcaagg	233640

ES 2 784 246 T3

	ttgaaacaaa	ggaaaaaatg	ttaagggcag	tcagagagaa	aggtcagggtt	acctacaaag	233700
	agaagccagt	cagactaata	gtggatctct	ctgcagaaac	cctacaagac	agaagagagt	233760
	ggaaccaat	attcaatatt	cttaaagaat	tttcaacca	gaatttcata	tcaagccaac	233820
	taagtttctt	aagtgaagga	gaaataaaat	tctttacaga	caagcaaacg	gtgaaggatt	233880
5	ttgtcaccac	caggcctgtc	ttacaagagc	tcttgaagga	gcactaaata	tggaaaggaa	233940
	aaactggtac	cagcaactgc	agaaaaaaca	aaaaacaaac	aaacagaaca	cmetaatata	234000
	aagaccaatg	acactatgaa	gaaactgcat	caactaacag	gmetaataac	aagctagcat	234060
	cataatgaca	ggatcaaatt	cacacataac	aatattaacc	ttaaattgtaa	atgggctaaa	234120
	tgccccaatt	aaaatacaca	gactagcaaa	ttagataaag	aatcaagaac	catcgggtgtg	234180
10	ctgtattcag	gagaccatc	tcacatgcaa	agacatacat	aagctcaaaa	ttaaagggatg	234240
	gaggaatatt	taccaagcaa	atggaaagca	aaaaaaaaaa	aaaaaaaaaag	cagggggttgc	234300
	aatcctagtc	tctgataaaa	cagactttaa	accaacaaag	atcaaaaaac	acaagaagg	234360
	gcattacata	atggtaaag	gatcaatgaa	actagaagtg	ctaactatcc	tmetaatata	234420
	ttcaccatt	acagtaggat	ccagattcat	aaaacaaggt	cttagagacc	tmetaagaga	234480
15	cttagacttc	cacacaataa	aagtgggaga	ctttaacacc	ccactgtcaa	tattagacaa	234540
	atcaacgaga	cagaaaatta	acaaggatat	tcaggaattg	aactcagttc	tggaccaagc	234600
	agacctata	gacttctaca	gaagtcttca	ccccatatca	acataatata	ccttcttctt	234660
	gcaccaaadc	acactattct	aatattgacc	acataattgg	aagtaaaaca	ctcctctgca	234720
	aatgcaaaaa	gaacagaaat	cacatcaagc	agcctctcag	accacagtg	aatcaaatata	234780
20	gaactcagta	ttaagaaaca	cactcaaaac	cacacaacta	catggaaatt	gagcaacttg	234840
	ctcctgaatg	actactgggt	aaataacaaa	attaaggcag	gaataacaaa	ttttttgaaa	234900
	ccaatgagaa	caaagagaca	atgtaccata	atctctggga	cacagctaaa	gcaatattaa	234960
	gagggaaatt	tatagcacta	aacaccaca	tcagaaagtg	agaaagatct	aaaattgaca	235020
	ccctaacatc	acaattaaaa	caactagaga	agcaagagca	aacaaattcg	aaagctagca	235080
25	gaagacacga	aataattaag	atcagagcag	aactgaaaga	gatagagaca	cmetaaaactg	235140
	tmetaaataga	tcagtgaatc	caggagctgg	gtttttgaaa	agattaacaa	aatagataga	235200
	ctgctggcca	gacttataag	gaataaaaaga	gagaagaatc	aaatagacac	aataaaaaat	235260
	gataaaggag	agatcaccaa	tgatcccaca	gaaatacaaa	ctactatcag	agaatactat	235320
	aaacacctct	acacaaataa	actagaaaat	ctaaaagaaa	tcgataaatt	tctggacata	235380
30	cacaccctcc	caagactaaa	ctaggaagag	gtcatattcc	tmetaaagacc	aataacatgt	235440
	tctgaaattg	aggcagtaat	taatagccga	ttataaaaaa	aaagcccagg	accagatgaa	235500

ES 2 784 246 T3

	ttcacagcag	aaatctacct	gaattataaa	gaagagctgg	taccattcct	tctgaaacta	235560
	ttacaaacaa	tagaaaaaga	aggactcatc	cataactcat	tttatgaggc	cagtatcatc	235620
	ctgattccaa	aactgggcag	aaacttcata	caaatatccc	tgatgaacat	cagtgcgaaa	235680
	atcctcaata	aattactggc	aaacagaatc	cagcagcaca	tcaaagagct	tatccaccat	235740
5	gattaagaca	gtttcatccc	tgggatgcaa	ggctggttca	acatatgcaa	attggtaaac	235800
	gtaatccatc	acttaacaca	accaatgaca	aaaaccacat	gattttctca	atatatgcag	235860
	aaaaggcctt	caataaaatt	caacattcct	tcatgctaaa	aactctcgat	aaactaggta	235920
	ttgatggaac	acatctcaaa	ataataagag	ctacttatga	caaaccata	gccaatgcca	235980
	tactgcatgg	acaaaagctg	gaagcatttc	ctttgaaaac	cggcacaaga	taaggatgcc	236040
10	ctctctcacc	actcctattc	aacatagcat	tggaaattct	ggccacagcc	atcaggcaag	236100
	agaaagaaat	aaaggtatt	caaataggaa	gagaggaagt	gaaattgttt	ctgtttgtag	236160
	acaacatgaa	tgtatattta	gaaaattcca	ttgtctcagc	cccaaagttc	cttaagctga	236220
	taaacaattg	cagcaaagtc	tcaggataca	aaaccaatgt	gccaaaatca	caagtaatcc	236280
	tatacaccac	taatagacaa	gcagagagca	aatcatgag	tgaactcctg	ttcataattg	236340
15	cttcaaagaa	aataaaatat	ctaggaatac	aacttacaag	agatgtgaag	gacctcttca	236400
	aggagaacta	tgagccactg	ctcaaggaaa	taagagagga	cacaaacaaa	tggaaaaaaa	236460
	gttccatgct	tatgtgtagg	aagaatcaat	attgtgaaaa	gtataagtaa	tttataggtt	236520
	caatgttatt	cccatcaagc	taccattgat	tttcttgaca	gaactagaaa	aatctacttc	236580
	aaatttcata	tggaaaccaa	taagagccca	tatagccaag	aaaatcctaa	gcaaaaaataa	236640
20	caagctggag	gcatcacgct	acctgatttt	aaactatact	acaaggctac	agtaaccaa	236700
	acagcatgat	actggtacca	aaacagagat	atagaccaat	ggaacagaat	agaggcctca	236760
	gaaataacac	cagacatcta	caaccatctg	atctttgaca	aacctaacaa	aaacaaggaa	236820
	tggggaaagg	attctctatt	taataagtca	ttctagaaa	actggctagc	catatgcaga	236880
	aaccagaaac	tggacccttt	ccttatacct	tatacaaaaa	ttaactcaag	atggattaaa	236940
25	gacttaaatg	taaaacctaa	cactataaaa	accctagaag	aaaacctagg	caataccatt	237000
	caggacatag	gcacggacaa	agacttcatg	aacaaaacac	caaaagcaat	tgcaacaaaa	237060
	tccaaaattg	acaaatgtga	tttaattaaa	ttaaagagct	ttgctcagca	aaagaaacta	237120
	tgatcagagt	gaagaggcaa	cctacagaat	gaaagaaaat	ttttgcaatc	tatccctctg	237180
	acaaaggtct	aatatcctga	atctacaagg	aactaaaaca	aatttacaag	aaaaaaacaa	237240
30	acaagcccat	caaaaagtga	gcaaagtata	tgaacagaca	cttctcaaag	aaagacattt	237300
	atatggccaa	gcaaacatga	aaaaaagctc	accatcactg	gtcgttagag	aatgcagac	237360

ES 2 784 246 T3

	caaatccaca	gtgagatacc	atctcacacc	agttaaaatg	acaatcatta	aaaagtctgg	237420
	aaacaacaga	tgctggcaag	gatgaggaga	aataggaatg	cctttacact	gttgggtggga	237480
	gtgtaaatta	gttcaactat	tgtgagagac	agtgttgcaa	ttcctcaagg	atccagaagc	237540
	agaaatacca	tttgatccaa	caatcacatt	actgggtata	taccaaagga	ttataaatca	237600
5	ttctactata	aagacacgta	cacatgtatg	tttactgaag	cactatttac	aatagcaaag	237660
	acttggacc	aacaaaatgc	ccatcaatga	tagactggat	aaagaaaatg	tggcacacat	237720
	acaccatgga	atactatgca	gccatgaaaa	actgagttca	tgtcctttgc	agggacttgg	237780
	atgaagtggg	aaaccatcat	cctcagcaaa	ctaacacagg	aatagaaaac	caaacaccac	237840
	atgttcttac	tcgtaagtgg	gagttgatca	atgagaacac	acggacacag	ggagggtaat	237900
10	atcacacact	ggggcctgtc	agggggtgaa	gaacaaaggg	atggagagca	ttaggacaaa	237960
	tgctaatagc	atgtggggct	taaaacctag	atgacaggtt	gataggtgca	gcacaccacc	238020
	acgacacatg	tatatgtatg	taacaaactt	gcacattcag	cacatgtatc	ccagaactta	238080
	aagtaaaatt	aaaaaaatta	aaaataagaa	agcaaaaaac	aaaaagatac	tactgtttat	238140
	atTTTTaaat	atgaatgaaa	aatataacat	tctctaattg	caagggttgt	ttatcatgta	238200
15	tcattttaat	gacttaacaa	gattagcatc	ccatttagaa	ttaagaataa	gaaagaatat	238260
	tgaagaagat	aggaaaagtt	atgtgcagat	gatacgaatg	tctattcaaa	caaacttagg	238320
	aggatcttca	tgttattaaa	attaataaatt	tgtttcagca	acgtggccaa	aatataagaa	238380
	taaaaacgta	aaaagcaatg	tatgttttaa	agtctgatca	gaaaccaatt	tgaatttttt	238440
	tcttgaggta	catttgcagt	agaaacagag	atattaaata	tctaggaatt	atTTatagat	238500
20	gagatagctg	tacatataga	tatagacata	tacatacaca	gaataaaagc	TTTTcacttt	238560
	aagacttcaa	tgtcctttta	aagaacaaaa	atatgtctag	tttcagactt	ttctgaaata	238620
	caaaatgtta	taagacagaa	aagcaatttg	taatggtgtt	tacaagatca	gatttttact	238680
	gaaaatttta	atataacact	tacttattat	taaaataatt	taatgacctc	ttcaaaaata	238740
	tacatggcta	ttgcctaagc	catacactct	tctaccttta	aaaaatcact	taaaaacata	238800
	ctccaaccag	ttgaaagttg	aatccagtta	atTTctcaaa	gactgcttag	ttaatttata	238860
	taattatttg	cctttgaaat	tttcttaata	tctttttaga	atgtttatgt	aaacacttac	238920
	aatccaaacg	gaagtagtag	tacacttaaa	acacctgaag	caagttcagt	gatgcaatta	238980
	tacatgagaa	tgcttagaaa	attccattca	aaatcctcag	tgcaagttaa	tcctccggaa	239040
	tttgtacaaa	gataaaatta	gcactatcac	actaatgatg	tacaaaaaat	atTTcctttc	239100
	tttggagtca	tatgactagc	tacattttat	ttgcatttac	tattaataaa	tgacggttct	239160

ES 2 784 246 T3

	tctgctcagc	atggttaatt	gactggatgc	acagtactca	tcccctgtta	tcagtacaga	239220
	agtgaggata	aatgaaaagg	aaggaagggg	gggaattagc	caaagtgatg	aatgacacat	239280
	gaatccaagg	ggaattggaa	cctgatgatg	gctttgatac	ctacctagga	agagggcact	239340
	tgacttttagg	ttccatggct	ttgggtagct	ataactgagt	tatattcgta	aggttagaag	239400
5	tcacaaagtt	ctacctcatc	tctgaaacaa	gttctgagaa	aaaagtctac	caaacagcac	239460
	taggaagtcc	caggaatact	ttccaactcc	caggaacgat	ggctggaaat	tgtatcacac	239520
	acaaaatatic	aggagcccag	gcctacagct	ttcacactta	taaagtaaat	ttatactatt	239580
	ggcatggtga	atgaatatca	agataattaa	tgtccacatt	ttttgctcac	attgcttctt	239640
	aatcttcctc	tttctccta	aaattacatt	aaaattgttc	tgcaactggg	aaaccagaag	239700
10	gctgaatcat	ttttggaaca	acagcaagca	tgcccactac	aggccaggca	catcaaggaa	239760
	cctcactggg	ggaactcaca	ggaataaaat	tataaatcaa	aggaaaacac	aaaacattat	239820
	aacacctttt	aaaaatattc	aataaaaatt	gtaccttata	actgaagata	aaaccactta	239880
	ggcaatttta	aataagtgtg	tttaaagtgc	tcaatgatac	agtggaagga	tatgaaatta	239940
	cgaagaaaag	aacagtgtga	aaaaaaagtc	aaccagaaaa	agaaattttt	ttcaaataaa	240000
15	tgcaaataaa	attatagaca	ttgaaaatat	aatcactcaa	attaaaaaaaa	tctcagtgga	240060
	tggattaata	tctaagaaag	aattagtaga	tttgaagaga	gatctgaggc	aatcaccagg	240120
	aattaacaca	gaggaatatt	tagagatgaa	agatactgat	aagaatttag	gagatgggaa	240180
	agataagtag	aaaataacca	tcatgcataa	agtagggttt	ccaggaacat	actattatca	240240
	ataatgagga	aataacattt	gaaaacaaaa	tgctttcaaa	ttttctaaaa	ttgcagtgtc	240300
20	atataggagg	aagtctctgg	gtcctgataa	gctaattcca	catcttggct	atcaaagat	240360
	ggtacagaac	ttgaaaagca	atgaaagacc	tcttaaaagc	ttcttaaaag	aaaacacccat	240420
	acataaaagg	aagaagaaaa	tgtgattcac	atTTTTcagc	aacaatgtat	aagagaagac	240480
	attgaaacat	cagcctcaaa	gttctgacgg	gaaaaaaaaa	ataccggacc	catgactcta	240540
	tatctaattg	aaactatatt	aaacactgtg	tctacaatag	gaatattttc	agaaatagga	240600
25	atgaaagaaa	atttactaat	cggatgcttt	acaaaatgta	aattgacttg	actcacatgt	240660
	cttaaaccatc	tccaattttt	aataaaaatt	aagtaaactt	aaattcttaa	ttaagttttc	240720
	ataatttatt	gtgtcctaga	tggtctgtta	atttaagttt	aagaaactct	tatttatcaa	240780
	ctatcaaata	tcaaggagtg	tacagcatac	aaagaaggga	ttaaaaaac	atatgagttt	240840
	aatgccctga	aagaagacca	ctacaaataa	cagctaaatt	ttttgttggc	ttaactatgt	240900
30	atgccaggca	cttagagtta	catttacttt	agagttatgc	ataaaacttt	cttgaggtag	240960
	ctattatttt	acagataatg	aaactgaagt	tgaaagtgg	taaaaacttg	tataaagctg	241020

ES 2 784 246 T3

	ttaagaatag	agacagaatt	ctaaaattct	aagtaatfff	ccctcatgct	gttttccatt	241080
	ataattcatt	gttttttcat	gatgctttga	atftataagt	tattttatgaa	agtfttaagcc	241140
	ttcattcata	tgatgaccct	gataatatag	agaaatagaa	gagttctcta	attcattgat	241200
	gtggaaaata	caagaaaaag	caataaggag	ttttaccaa	gtcacagtgg	gcctcctata	241260
5	aagttggaat	aaaaattcat	atftcaagaa	attcccatat	gggagcttat	ttttacagta	241320
	gaccagagtg	gtaccttaga	attaagagca	cccgttgctc	acctgtgtgc	attgcacaac	241380
	tcttagcatc	attgtgcctt	gacttggcca	cttgtagagg	ctcagtttga	aagaatacat	241440
	gaatggacca	gtcatcccgt	caccaacgtt	tctttctttt	tctttttttt	ttctgtactc	241500
	gagttgctta	aatfttcttt	tatatatata	tatatatatt	ttttttatta	tactfttaagt	241560
10	tctaaggtag	atgtgcacaa	tgtgcaggtt	tgftacctat	gtatacatgt	gccatgttgg	241620
	tgtgctgcac	ccattaactc	atcatttaca	ttaggcata	ctcctaatagc	tatccctccc	241680
	tcaaccctcc	tccccacaac	aggccccagt	gtgtgatgft	ccccttctctg	tgtccaagtg	241740
	ttctcattgt	tcaattccca	cctatgagtg	agaacatgctg	gtgtttgctt	ttttgtcctt	241800
	gcatagctt	gctgagaatg	gtggtttcca	gcttcatcca	tgtccttaca	aaggacatga	241860
15	actcatcatt	ttttatggct	gcatagtatt	ccatgggtga	tatgtgccac	atftcttaat	241920
	ccattctatc	attgatggac	atftggattg	gttccaagtt	ttgctattgt	gagtagtgct	241980
	gcaataaaca	tacatgtgca	tgtgtcttta	tagcaacatg	atfttatattc	ctftgggtgt	242040
	acaccaata	atgggatggc	tggatcaaat	ggatatttcta	gttctagatc	cctgaggaat	242100
	tgccacactg	tcttccacaa	tggttgaact	agftttacagt	cccaccaatg	gtgtaaaagt	242160
20	gttctatftt	ctccacatcc	tcttcagcac	ctgttgfttc	ctgactftttt	aatgatttcc	242220
	atftctaactg	gtgtgagatg	atatctcatt	gtggfttttga	tttgcatfttc	tctgatggcc	242280
	agtgatgatg	agcatftttt	catgtgtctg	ttggctgcat	aaatgtcttc	ttttgagaag	242340
	tgtctgttca	tatcctttgc	ccactftttg	atftftftttt	ttcttgtaag	tttgtctggg	242400
	ttctttgtag	atftctggata	ttagcccttt	gtcagataag	tagatfttcaa	aaatfttctc	242460
25	ccattctgta	ggttgcctgt	tcactctgat	ggtagftttct	tttgctgtgc	agaagctctt	242520
	tagftttatftt	agatcccatt	tgtcaatfttt	gtctftttgct	gccattgctt	ttgggtgftttt	242580
	agacatgaag	tccttgccca	tgcctatgcc	ctgaatggta	atgcctaagt	tttcttctag	242640
	ggfttttatg	gtftttaggtc	taacgtttac	atccttaatc	catcttgaat	tgatftttgt	242700
	ataaggtaga	aggaagggat	ccagftttcag	ctfttctatat	taggaaaaga	ggaagtcaaa	242760
	ttgtccctgt	ttgccgacga	catgattgta	tatctagaaa	acccattgt	ctcagcccaa	242820
	aatctcctta	agctaataag	caacttcagc	aacgtctcag	gatacaaaat	caatgtacaa	242880

ES 2 784 246 T3

aaatcacaag cattcttata caccaacaac agacaaacag agagccaaat catgagtgaa 242940  
 ctcccattca caattgcttc aaagagaata aaatacctag gaatccaact tacaagggat 243000  
 gtgaaggacc tcttcaagga gaactacaaa ccaactgctca aggaaataaa agaggatata 243060  
 aacaaatgga agaacattcc atgctcacgg gtaggaagaa tcaatatcgt gaaaatggcc 243120  
 5 atactgccc aaggtaattta cagattcaat gccatcccca tcaagctacc aatgcctttc 243180  
 ttcacagaat tggaaaaaac tactttaaag ttcatatgga accaaaaaag agcccgcctc 243240  
 gccaagtcaa tcctaagcca aaagaacaaa gctggaggca tcacactacc tgacttcaaa 243300  
 ctatactaca aagctacagt aacccaaaaca gcatgggtact ggtacccaaa cagagatata 243360  
 gatcaatgga acagaacaga gccctcagaa ataatgccgc atatctacaa ctatctgatc 243420  
 10 tttgacaaac ctgagaaaaa caagcaatgg ggaaaggatt ccctatttaa taaatgggtgc 243480  
 tgggaaaact ggctagccat atgtagaaaag ctgaaactgc aaagacaaaa gccacatgat 243540  
 tatctcaata gatgcagaaa aagcctttga caaaattcaa caacgcttca tgctaaaaac 243600  
 tctcaataaa ttaggtattg atgggacgta tttcaaaata ataagagcta tctatgacaa 243660  
 acccacagcc aatatcatac tgaatgggca aaaactggaa gcattccctt tgaaaactgg 243720  
 15 cacaggacag ggatgccctc tctcaccact cctattcaac atagtgttgg aagttctggc 243780  
 cagggcaatt tggcaggaga aggaaataaa gggatttcaa ttaggttttt aaaatatttt 243840  
 tgagacttgt tgtgtgtgcc aacgtgtcat cagtcttggga gaacgttctg tgtgctgatg 243900  
 aaaagactgt gtgttcttca gctgttgggt gaaatgttct gtaaagtctt gatgggtcaa 243960  
 tttggtctat ggtgcacttt aaatccaatg tttctttggt gactttttgt ctcgatagat 244020  
 20 gatctgtcca atgctaaaag taagctattt aagcccccaa ctattattgt attggaacct 244080  
 atctctgctt ttatatctag taatatttgc cttatataatc ttgggtgtcct gtatttgggt 244140  
 gcatataaag taatattggt acatttctctt actgaatcaa tctctttatc attatataat 244200  
 gttctttttt gtctcttttt atagttttga acttaaagtc tatttcatct catgtaagtc 244260  
 tagctatttg ggctcacctt tgaattacgt ttgtgtggat tgtctttttc cattccttcc 244320  
 25 gtttttagtct atgtgtgtct ttacagagga aatgagcttc ttgtagacag catttagttg 244380  
 agaaatccaa ggcaatgaga tatcatctcg cttgagttaa aaatgtctat tttcaaaaag 244440  
 aaaaaatag caaatactgg caaatatgtg gaaaaagga actccaattt gctgttggta 244500  
 ggaaggtaaa tgagtacagc tattatggag aacagtatgg gagttcctca aaaaactaca 244560  
 ggtagaacca ctatatgatc cagcaatccc actacagggt acatatctaa aggaaaagaa 244620  
 30 aacagtagat aaaagggtta cttgcaccct cgtgtgtact gcagcattat tcacaagagc 244680  
 aaaaaatagg aatcaccata agtgttcatc aaaagacaaa tgatgcaaaa tgtggtatat 244740

ES 2 784 246 T3

	atacacaatt	gaatattatt	cagccataaa	aagaatgaaa	tcttgaaatt	tgcggaacg	244800
	taaatgagca	tggaagacat	tatattaggt	gaagtaagac	aaacagaaag	acaaatacca	244860
	cattttctca	ctcatatgta	ggaactaaaa	aattaatggt	atagtagagt	gttgaatagt	244920
	ggttaccaga	gggtaagatg	gacaggagag	atggagaaat	aaggagaggt	taggtaatgg	244980
5	gtaaaaatatt	acagttagac	aagagaaata	agttcgagtg	ttctacacca	cagtaggatg	245040
	actatagtta	acagtaatth	actatatatt	ttcaaatagc	tagaagaaag	aattttgaat	245100
	atttgaaca	taaagaaagg	ttaagtatth	aaggatcatag	gtatgataat	agccctgatt	245160
	tgattattaa	atattatatg	tattaaaata	tcacaatata	cccataaata	tgtacaatta	245220
	ttatgcatca	attaagaaaa	gaaggaaaa	tctaaggaa	aacaaaattg	aggtggtaaa	245280
10	taatatatta	aattttttgt	gtatataatt	ttaaaggaaa	atgatttcag	ggtgtgtata	245340
	cataaaatat	cacttggtat	actttaaatg	tgtgcagttt	atgtatgtca	attacacctc	245400
	aataaatctg	tcaaaaatgt	gtgaccataa	taatctaagc	caaaattgta	gatgaagacc	245460
	atgcagcagt	agaattgggt	ggagaagtgc	agaaggagaa	caaattattg	ggaaagagaa	245520
	gacataaata	acatagacat	caatataagt	atgaaagaaa	taataaagca	tgaatttaat	245580
15	taatataacc	aacagttaaa	tgaaaatgaa	agattattht	caaacagta	gaagaaaatt	245640
	tgatatgcac	attggaatat	aagaaaggag	gggaaagaaa	aactataaca	aagcaaaaaa	245700
	gaataaacac	agattaaaat	ggcaaattaa	aataataata	ttagctataa	taaatataaa	245760
	tgacagatag	aaaaagaaaa	caggatcagg	cagaagggtc	ccagaggagg	actaatctcc	245820
	cacagaatc	cagaaacacc	tgctgtcagc	aatgagtctt	tgtaggggtc	tcaggtagcc	245880
20	aatcagacag	ttctttcttt	catataattg	caccacacgg	ctggcacccc	atctctgatc	245940
	acacctgggg	aggtgcatag	tgagctgaca	gtacagactg	aggccagaga	tctggtgcac	246000
	cacactgcca	aatcccagt	ccgtttccca	gacccatcct	ctggagcttg	gtgttgtctt	246060
	ctgctggcat	ctgtgctata	ccacatgtag	gtcattaggg	caataacatg	gctattgctg	246120
	tttctgtctc	tgagattcca	agaaatgtga	atcaatacct	ggttattaca	ctttgtttgc	246180
25	gccatgacat	ctctaataga	aatatgtaaa	gtgaaaagtt	agtataaaga	gattaatatt	246240
	tcagtaatag	gatgaactag	caattctaaa	tgattctcca	ccagtagaaa	aactgtatgt	246300
	actgggtaaa	taattacagc	caaggthtta	aatgaatcat	tggcttcaca	agaaggatag	246360
	ataaatctct	aagatttaga	ggtgaaaagg	aagaataaat	taaggaagag	tgaacataaa	246420
	ttcagaagaa	aatattgcc	tgggaatcta	ttgcagggat	tggaccagat	tgtagagta	246480
30	gctctatcca	cattggacag	atatagtcac	acttccttac	acatctgcca	tctccatgag	246540
	gggaacaggc	cctgactagc	ctgctgttcc	aaagaggatg	agagatgcat	aggacaccct	246600



ES 2 784 246 T3

	tggatatgat	ctggagcttg	gcgtcaagcc	aagcagacca	gcctagatca	gcttctcact	246660
	tgggccat	ttgtcttctc	aggtttatcc	caataaattt	tttgcattga	attgtctgag	246720
	agcctcaata	agtctagatc	agccaacccc	aagacacatg	ctttttgatt	caagccactg	246780
	agttttggag	tggtttgtca	catatcttta	ttgtggcaat	tgctaaccaa	tatgttactt	246840
5	ttaaaaactgt	agctggagtc	tcttggtagc	aactatgttt	acaggatttg	attgagaagt	246900
	aatcatcctt	gcttctcaag	aactagaata	tgagttgtgg	agacatgagg	tgcttctcag	246960
	tttgggatgt	agaaagaaa	aactgtgatc	tggtggaagc	aaagcagaaa	aggcagcaga	247020
	gagggagcct	tcaggagggg	gttaagcctg	tcagtgtgtg	atgggtaata	cttgtgctat	247080
	ggactgagcg	tttgtgtccc	tataattcac	atgtggaagc	ctaaaccccc	agtgtggcta	247140
10	tattttgaga	tgggacctct	aaggaagtaa	ttaaggttaa	atgaggccat	atgagagggg	247200
	ctctgattca	ataggataaa	aagagatata	agagagttca	ttctctctct	cttcatgaac	247260
	atgcactgag	gaaaggccat	gagaggacac	aacaagagcg	gggccatcta	caaaccagga	247320
	agagagcctc	accagaaaat	gaattgtcca	gagcatgggt	cttcaacttc	tagcatccag	247380
	aactgtgaat	ggatctat	ctcttgttta	agccaccac	tctgggtatt	ttcttatggc	247440
15	agcttgaact	gactgagaca	atggggatct	actcagttct	ctgcttcagc	ttcaacttac	247500
	tcacagctac	agagaatagt	gctgctttag	gctcacagcc	tctcccagga	tattaccttc	247560
	tgtcactgat	atggtttggc	tgtatcccca	cccaaattct	atcttgaatt	ataactcca	247620
	catgttatgg	gagaaaccca	gtgggaggtg	atattattatg	ggggcaggtc	tttctgcac	247680
	tgttctgatg	atagggaaatg	agtctcaaat	gatctgatgg	ttttaaaaat	ggaaatttcc	247740
20	ctgcacgagc	tctctttttg	cctgctgcca	tccatgtaag	acatgacttg	cccctccttg	247800
	ccttctgcca	tgattgtgag	gcttccccag	tcattgtgaa	ctgtaagtcc	attaaccct	247860
	gttttgtgaa	ttgccagtc	tctgggtct	ttatcagcag	tgtgaaaatg	cactaataca	247920
	gtgtattgg	accagtagag	tagggtgctg	ctaaaaata	ctctaaaatg	tggaaacgac	247980
	tttggaaactg	ggtaacaggc	agaggttgg	acagtttgg	ggggtcagta	gaagacagga	248040
25	aactccagga	aagtttggaa	tttctacag	actttttaa	tagccttgac	aaaaatgctg	248100
	atagtatat	gaacaagaag	atccaggctg	aggtaatttc	agatggagaa	gagaaacttg	248160
	ttgggaactg	gagcaaaggt	gactctggct	atgttttagc	aaagagactg	gcagtat	248220
	gcccctgccc	tagagatttg	cagaactttg	aacttgagag	agatgattta	gggtacctgg	248280
	aggaagaaat	ttctaagtag	cgaagcattc	aagaggttaag	ttgggtgctg	ttaaaagcat	248340
30	tgcat	aaggaaaact	tagcattaaa	gtttggaaaa	tgtgcagcct	aatgatgtag	248400
	taaaaaagaa	aaaccattt	tcttaggaaa	aatttaaact	ggctgcagaa	ttttgcataa	248460

ES 2 784 246 T3

	gtaacaagga	gtggaatggt	aatccccaag	accgtgggga	aaatgtccac	agggcatgtc	248520
	aagagacctt	tgctgcagcc	cctcccatta	cagacccaaa	agcttaagag	gaaaaaatgg	248580
	tgggccaggc	ccagagtccc	catgctgtgt	gcaggctagg	gacttggtac	cctgcatccc	248640
	agccactcca	gccactgcta	aaaggggcca	aggtaecatct	tggcccatgg	tttcagagag	248700
5	tgcaagcccc	aaaacttggc	agcttccatg	tgggtgtgag	cctgcagatg	cacagaagtt	248760
	aagaactgag	gtttgggaac	ctctgcttag	atttcagagg	atgtatggaa	atgcctggat	248820
	gtccaggaat	aaatttgctg	caggggtggg	gctctcatgg	agaacctctg	ctagggcagt	248880
	gaagaagga	aatgtgagat	cggccccga	cacagagtcc	ctactgggca	ccccctaatg	248940
	aagctgtgag	aagacagcca	ctgtcctcca	gatcccagaa	tggtagatcc	actgatagct	249000
10	tgcgctgtgt	gcctggaaaa	gctgtagacc	ctcaatgcca	gcctgtgaaa	gcagccagaa	249060
	gggaggctgt	accatggtaa	gccacagggg	tggagttgcc	caagaccatg	ggaaccacc	249120
	tcttgcata	gtgtgaactg	aatgtgagac	atggaatcaa	aggagattat	gttgagcctt	249180
	taaggtttga	ctgccctgct	ggattttgga	catgcatttg	gcctagagcc	cctttgttct	249240
	ggccaatttc	tcccatttga	aatggatgta	tttactcaat	gcatttacc	ccattgtatc	249300
15	taggaagtaa	ctaacttgct	tttgatttta	cgggctcata	ggcagaaggg	ccttgcttg	249360
	tctcaggtaa	gaggttghaa	tgtggacttt	tgagttaatg	ctgaaatgag	ttaagacttt	249420
	ggaggactgt	taagaaggca	agattagttt	tgaaatgtga	ggacatgaga	tttgagaggg	249480
	gcctggggtg	gaataatatg	gtttggctgt	gtcctcacc	aaatctctc	ttgaagtgta	249540
	acttctacag	ttcccatgtg	tcatagaagg	aaccagtg	aaagtgatcg	aattatgggg	249600
20	gcgggtgttc	cctacactgt	tcttctgtta	gagaatgagt	ctcacaatat	ctgatggttt	249660
	taaaaatggg	agttttcctg	caaaagctct	ctctctttgt	ctgctgccat	ccatgtaaga	249720
	tgtgactggc	tctctttg	cttccaccat	tattgtgagg	ctacccagc	cacgtggaaa	249780
	tgtaagttca	ttaaactctc	ttttttttt	cataaattac	ccagtctcag	gtatgtcttt	249840
	atcagcagtg	tgaaatggac	taatacagcc	acagaaaatt	atcttataca	agaatgtgtc	249900
25	ttttctcagg	gtgtggctta	tagtcaagaa	tatcaaagac	cccggccttt	cctgcaaatt	249960
	ggaacaagc	taaacagtat	ccaagtgta	gagctcccta	tagaatcagc	agagcttgca	250020
	tttgcaagtg	tattaataga	tcagcttctc	cttctgcca	atcttgctt	cctcactttt	250080
	tattteagaa	ggaeatttae	tagtaeaatt	tetgeateta	ettettagte	teagaatttg	250140
	ttteeagaga	aeeeeateae	aggeagagtt	tttgagtgat	tttetgeatt	geaettteat	250200
30	teeaatagtt	etggtgtaee	eteteattaa	ataatggaag	egtetgaeta	etgtatatte	250260
	aagggeaaag	gateateeeeg	tgttttgett	gaagtggtae	aaagaaaaae	agaaaaeet	250320

# ES 2 784 246 T3

	tgagetttge	aagaettetg	eeteagaaag	aagtaggtag	aeaagtgtaa	getgggatga	250380
	athtaagata	tggaaeeatt	taetaggeaa	eetgggggtg	aetgaggaga	ttaaettgtg	250440
	gteaaaaaea	aggattettt	eagtaaeagt	tgatgageae	ttgggeaatt	gtaatttgae	250500
	aeaaaggaaa	teaagaette	eaaggeeagt	aaattatgae	ateeeaggga	tatettttatt	250560
5	tatateeata	eatttgeaaa	attgagattt	ttetgeatat	aaaaeettat	geattgettt	250620
	athtaette	taaaaatatt	ttaggttata	aaataatttt	eagagtatag	ettttgatga	250680
	ttgeataatt	tteeatgetg	gagatataet	gtaaattatt	taeetaett	etetattttt	250740
	tgatattttat	atggttttat	ttttttetat	tataaataat	aetgagttga	etateattae	250800
	aeataaatet	taatgtgtat	ttetgattae	tttettggga	taaaetate	gaagtggatt	250860
10	taatgaetat	ttteagtaat	aaaaagaaag	attattttga	aagettgtga	taeatattge	250920
	agaaettga	tetgtaagt	tgaaatatge	aeteetteea	geettteaat	eagtatatgt	250980
	ttattgaett	gtaegatgta	ageagaaete	tttttagatg	ttagagaaaa	gaaaeggta	251040
	gagtettggt	eteagggttt	teatgtteaa	taeaaeaea	eaeaaagttt	tgtgtatgtg	251100
	tataeataat	gtgeaattge	etatgtaagt	eeteattatt	ttateaaetg	tageaggeat	251160
15	gatttaaagt	atTTTTTTta	atTTTTetgge	atgetaaeaa	eaaaaagttt	ateaaggaaa	251220
	eateatttte	ttgeaaaagea	aggaeagtat	atTTgatatg	agetTTTTtae	eetgetetga	251280
	taagaaeata	gaagatatgt	tgetattgaa	ettTettete	eaeatatatt	tttagttaet	251340
	ttttatttea	tattetgeag	ttaeettee	tataetteag	eateagttta	tatteaaeta	251400
	eateteaaae	ttgaaateet	taeetteet	teagaatett	ettaeaaatt	eettteetgt	251460
20	etttetaagt	tatatgtaee	eteaggttt	teaeteata	aaagggtaaa	gaaaaaaaaa	251520
	atagaaagea	aeatettttg	tttttaeage	ataaggagtt	eageteetgg	eagttettet	251580
	geeageataa	eagttgatga	aeaetggaea	geetgtttea	agtgagatgt	aaaagaatea	251640
	agaetgtate	ttaaetgttg	tatetgatte	ttttaataat	ttteaeaaa	gtgaagggea	251700
	tgtttgeage	agttatttge	atgageegee	teateageae	eeegaaeatt	ageateetgg	251760
25	geattaetga	agaetettgg	teettteet	gaegaaegat	ggtgeatgge	atgatetaet	251820
	ttttetataa	ageetggaat	gaeatagetg	tggeaaaeae	tetaggagga	aatataaat	251880
	gteettettt	tetgatatte	teatttteat	egagtaataa	aggaagtgga	aaggtagaag	251940
	ataeatgeaa	aateataaaa	gtaattetaa	tteaeaagat	aatetateat	ttteaageaa	252000
	gtggaatata	aatactgtag	gttttagaga	tatttagccc	caaataaaac	cacaggtcta	252060
30	cacatgagtc	actgtagcac	tttaacctct	ctgggctcta	tttccttctc	tttaaaatgc	252120
	acagagggtt	tttgtgaaat	cagtttagat	tatgcatatg	ccatttctaa	aatagtcct	252180

ES 2 784 246 T3

	tctctactgt	agttgttgaa	taaaaaagta	acaatattag	agaaacaatt	ttagatTTTT	252240
	ctttcagtaa	ataagcttac	aaataaaaata	tctactttgg	cttttatgat	aaactttggT	252300
	ttgaaattat	ctgaaaagaa	atccttagtg	ttctcatgta	ctactcttat	tcctgtccat	252360
	gaccgTTTTg	aacagtgaaa	gaggTcaata	TTTTctaaag	agcctatgTt	ttgacgactg	252420
5	tatatttgct	tggcaatgTt	ttatgaaata	aataattagt	aatggTTTTa	gctatatTTTT	252480
	aggtactcac	tacaatactt	TTTTgtTct	acattTTTTct	aaataccaaa	taaagaatta	252540
	gaaaatcatt	caattatagg	atgtgacctt	atcttgctga	ttacacccaa	tccaaagtca	252600
	atTTtagcct	ctctttcaga	ggttgTaaat	agaaacccaa	attggataac	acatttcccc	252660
	ttcaagacaa	acaggtggag	cccatcattg	aaagTaaatt	atcaggtgag	gactcaaggg	252720
10	accCGggcca	gttcagattc	tgtccagTca	tTaaactTTt	tagatctcac	tgtcttcatt	252780
	tgtcaaaggc	agatagcgac	cctgacttca	ctgatacaca	gagttatcat	gaaggctgcc	252840
	tggtacaatg	ggcagaaata	tgctctaaca	aagagatgta	aatgcagtat	gtatagcatt	252900
	gagacttctt	agaagggagc	tcgctgctgc	caatgctctg	ctatgagttg	cctcaggttg	252960
	tacaattcct	ggtgaaggcc	tagaattTaa	gccattgaat	aggaggatta	tttgggaacg	253020
15	atataaaatt	ggagataggt	taatctaggg	tcaaataatag	gtgagaagca	aggaaataat	253080
	actgtggtaa	gaaaatagat	taagcagaga	aagattctat	gattctgact	gaaataagca	253140
	ttgctaacta	taactggTtt	ttgtgcccct	tggagcatga	ggtTTTTgaag	agctcattgt	253200
	gttgactgc	ctctttggag	aaaccatcaa	tggaccttca	atctcatcaa	tggaaatTTt	253260
	acccaaaaac	acaaccttga	tgcttcagaa	gagaggagga	gggaaggatc	atgtgcccat	253320
20	gagTTTTacc	cctttgatac	gcagtagagt	attgTTTggc	ttacaaagta	tttgggggaa	253380
	gatatgagca	agtaagaata	taagtgcctc	atctctcaga	tagatatgat	ttgaggcatt	253440
	agttgacatc	ctacagaaga	aatatTTTTt	aaaaagtcca	gcttcaacta	ctggacccat	253500
	catttatcag	ctatttgact	ttgggaaagc	aacttatTTt	tctaaacttt	atctctgaaa	253560
	tgaaattaag	gatactgtat	ttgttatggt	tctccagata	aacagcagat	agatagatag	253620
25	atagaaagat	agatagatag	atagatagat	agatagattg	atagatagat	agatagatga	253680
	gcaggagaga	ttttaaggaa	taggttgaaa	agattacaga	ggctgacaag	tctgaaatTTt	253740
	ataggccaaa	ctggcagcct	gaaaattcag	gtaagagttg	atattgatgt	catagTTTTt	253800
	agtgcgaaat	ttgtagggca	ggtcagcagg	ttggaaactc	aggtgagatt	tctgtgttat	253860
	agtcttgaaa	cagaattTct	tatTTTTcat	gaaacctgag	TTTTtgaact	gaaggccttc	253920
30	aattgattgg	atgaggccca	ccctgcagca	gatgttgcaG	ggTaatctgg	cctattaaaa	253980
	ctcagctgac	catagtatta	atcacatcca	acaatacctg	tatagcaaca	tcgacaccag	254040

ES 2 784 246 T3

	tgtttgatcg	tacaactgag	catcatagtc	tagccaagtt	gacacataga	gtcaaacatc	254100
	acagatactt	acctgtgggt	cagtgggata	atggctctgaa	cacttagcaa	ggaagttgag	254160
	atgatttctt	gtgtcagcat	tttatttaag	tggctgaggg	tgtgggagtg	gcaggggata	254220
	tatttcaaat	atatcaagcc	taaaatatct	tcttgttgac	tagataggaa	tatgtgttac	254280
5	tttaatacat	acaactttac	tttatcttaa	agatattgat	gattcaggtc	aaggaccag	254340
	caaaaacaat	gttgtgtaga	aagaaagagc	acaaaatttg	agtgtgtgag	aactgggttt	254400
	gaatctaagt	tatatcctct	ctatcacttt	gggaaatcta	ctcttctctt	caatttctct	254460
	atctgtcaaa	tgaatttaat	aacaccactt	ccttgagttt	gggggatgtg	tgaaacacat	254520
	gaaacataga	gtttctcaga	aaatgtagtc	taatatttgt	aatgatcttt	tttcttcatt	254580
10	tactgttttt	tcaacctgct	gagtagaagc	tcatttttcc	atctgagaaa	tacattttca	254640
	aattccacaa	ctttcttgtc	atztatggtt	actaaaatca	gttgaggtag	tttataaatc	254700
	caatcccata	tcaattgtaa	aatctttgtc	tccttcttta	ttggacaaaa	ctgagggcca	254760
	gagacttggg	atggagtttg	tgcatggctt	tttctttctc	ttctttttct	tcccactttt	254820
	ggatcttggt	tcttcaagtt	tgggacaagt	gaagatctat	catgagatgg	taatggcat	254880
15	atgcctcttg	ggctgcttct	gtgatgcaga	agtgctcctg	gcctgttctt	gatgttccct	254940
	gatatgtgag	gcaatctgca	gatatgttgg	tttctgtatg	gtgtgtatgc	ttttcttggg	255000
	gaggtgtcca	gattccaca	gcatgcctct	tattgatgac	ccacttttag	agacaaatgt	255060
	gtttctttat	tgggtgcccc	catcaaaaat	ccatacctcc	aacctctttc	tagctgcaga	255120
	cactgaggct	attgaggtat	tcttcttcc	atatcttctg	ggagctttag	ggatgtggag	255180
20	tggggagatg	cattttttca	tactggttag	ggctactctt	gcaattctgc	catattcaga	255240
	taacatgtgg	cagaaacag	cagacctctt	taattacatt	ccaaggggca	caggcaccaa	255300
	gttccccagg	aactctttca	ccctgcagtg	ctctgtgga	agcaataaga	gggtagcccc	255360
	gcagatgtgt	aatgcaatga	acatgacctg	gtaagccaaa	attcaagctc	tctttctttc	255420
	aggaatatcc	acctgacttg	cttaaagctc	tcatccccac	cattccttgt	cttcggggat	255480
25	gtgatgggtga	tgggaagggaa	tcacagggca	agagcatagg	gaaagtattt	tgcactatga	255540
	gtattctatt	ccctaaaaga	aagaagatgt	ttaaaaatta	cctctgtatt	tcccctcttt	255600
	cgttcttttag	ccatccatcc	tatactccag	gatgacaagt	tatccagtgc	cctgggagct	255660
	gtatctgacc	ccatttgatg	gtcactctct	tctgaataca	ggctttaatt	gtcaattaca	255720
	aggcaactaa	aaaaagtttc	attccatatac	ctaatacagt	agctattatt	attatcagca	255780
30	ggaacagtag	ctcctttatt	cacactgagc	tcgtagcact	ctgtttttct	cctttatgac	255840
	cattgtataa	tggatgcttt	ctggatgggtg	gcatattggg	ccgtaaatac	tgtaacttcc	255900

ES 2 784 246 T3

	tccatacatag	attaccagtt	agagctcctt	tacaatcatt	ttatggtttt	aaatatagcg	255960
	ccataacttgc	ttcaagatct	tgtttcctgt	ttcacaaaga	gcgattggtc	ttcctcgtgc	256020
	tgagaaaaaa	taacatttga	aatgcagaat	ccagcctggt	ccccagggct	ggctttccac	256080
	caggttcctg	tggggaggtc	aagcaggat	ttcagcaggg	cagtgtcatg	ttgctccata	256140
5	tcctggccac	atctcccttt	agactccaca	tcccaatatc	tgctgttcaa	ttccctgggt	256200
	aattaattac	cctacaggag	ccaatagaat	cctgtataag	ctgggtgggat	tccattgtat	256260
	gagatgaaat	gcagcactgc	cttgggggggt	gctcttttca	ttaggcccat	gctattctgt	256320
	cttagttgaa	cacaatctat	aggtatctct	taattagaac	cccaaaagca	ctgacagtga	256380
	cgtccttttg	ataggcctgt	agtaagtga	ctaagcggtg	tccacctgag	gccaaacata	256440
10	atctcccctc	tccttcaagg	taaacttcta	taaaatagaa	aacaaagaaa	ctggattttg	256500
	atgaatctga	aatgaatccc	tcttcatata	tttattactc	gtatatagga	ggttttcttt	256560
	tatacttttt	gaggattccc	caaaacaaaa	ctgcacttgt	atagctagga	ggactagggg	256620
	acaatgcaga	cgtgggagaa	agggtgagtt	cttgtgacct	agaactgggt	ttgaagcagc	256680
	aacttccggt	caatcaagca	tgctctcag	cattgcaggt	gccaaagtgc	cattctctct	256740
15	ctttccttcc	atgcgctcag	gtttcccagc	tctcgactgc	ttttttctg	acaccttttt	256800
	ttatttcttc	ctctccacag	gtctctcagt	tttgctgata	aagatatttc	actctacccc	256860
	agtttcttta	ttttgcattc	cgcatctatt	ccttaaaact	gttttctgaa	gtggcaaata	256920
	cttttgtttt	tgaggatgaa	gattttgggt	tttttcatgc	tcactaaagt	aaagcagatc	256980
	ttgttgccag	gattctccct	cctctgaaga	cagtgggtta	taacaagtga	caaatatttt	257040
20	cttcctgtct	catagtaata	ttcaaaataa	gagatttatt	gtgtctactc	agtgtgaggc	257100
	aagacagttt	ataatttacc	atthatttga	gttgtgtgca	gaaacctacg	ttaactcaca	257160
	ccatatttct	tatttatttg	attgatattt	cagcaccctc	tgtagattga	tgctccagc	257220
	agatactcag	aagttcagct	cattactatg	tgtctgggcc	actctgacct	tgagctctac	257280
	ttagcctact	catctctacg	catagtgtc	agagcaaata	aaaatggatt	tgaccattac	257340
25	agaagtctca	gatcaatgca	aagacacagt	ttttactctg	agcttggctc	tcttctactt	257400
	ttacttggtt	tttagccttg	atthcatttg	tggttgggtc	tgaggttgct	cctcagattt	257460
	catgaaacag	tttaacttcc	tagtttggac	ccaagatcc	ccttaagaca	ctctctatag	257520
	taaagtccat	gggggcagaa	atcatagatt	ggaatcatag	gtcagccact	tgctagcttt	257580
	gcgatcttgg	gagattcacc	tggcatctca	gagtcaggct	tctcatcagt	aaaattgggg	257640
30	caatttagag	acatttggtt	caaggattaa	attagagaag	cagttaaatt	gcttttagcac	257700
	aatatgagta	acatggcaat	gtttaataca	tattatttgc	aattataatt	tcatcagttt	257760

ES 2 784 246 T3

	attagtaaaa	ttatatctca	ttattgccat	ttctagcaat	cacccagtct	ttctcatcac	257820
	tgggctctca	cccaggcatt	tgcagtcctg	gaatccatgg	aaaagctcac	cctcatccct	257880
	ggtgacaggc	atgttgaca	gctactttcc	agcatattat	cacttgagaa	ctatcacttg	257940
	agagtcccct	gctcagaaaag	atctcttcag	atgccatttt	gcattaactg	tcagaggcct	258000
5	tataatcctt	aaaacagtct	tgctacatgc	tatgagatat	attttagaca	tattttctca	258060
	tttgatacat	acaaactgtg	taagattttg	ttttcatact	ataaagaaac	caaacttcaa	258120
	taggattaaa	taacatatct	atgggttatg	gaactagtat	taaaatctgt	tcgtgataac	258180
	tccttagaca	tggtgctacc	attatagcat	gagetatagt	gagtgaagat	ttaggctgga	258240
	gagtggggg	gcagaggctg	caatatgctt	cacttaaggg	tcctcggaac	gagtcaggac	258300
10	caagtaaaca	gcttggctga	agctcaggct	ttcttgtaga	tggagaattt	ttttaaggag	258360
	aagtgcattt	catgaatttt	caagcagaag	caatatatgt	aggcagtacg	aagcatttct	258420
	taaggacca	aagcaagtgg	atgagaattg	gagattgatc	catcatacac	tagctggttt	258480
	ggtcttagga	cattgcttag	actctcaaaa	actcagtatc	ataaataaaa	ttaggaaaat	258540
	agtagtactt	atcccataag	aatattttga	gaattaaatg	agttaacaaa	tataaatcat	258600
15	ttagtacatt	atctggtgca	tagtaagcac	cgaagctatt	gtcatttagc	tctcattaat	258660
	tcaagacaca	aatataaagc	ttaagcatat	aataatgtct	tgagagatac	gacatttgac	258720
	tataactatc	attttgaagt	tgtcatacca	aggataaata	cagcagaccc	tggaacaaca	258780
	tagatttggg	ctgtgcaggt	ccatttacac	aaagattttc	ttccacgtct	gccaccttga	258840
	gacagcagtg	ccaaccctc	ctctttctcc	ttcccctcac	cctactcaat	gtgaagagga	258900
20	tgacgacctt	tatgatggta	cacttccact	taataaataa	taaatatatt	ttctcttctt	258960
	tatgattttc	ttaataacat	tttcttttct	ctatattatt	ataagaaaac	agtgtgtaat	259020
	acacataaca	taaaacttat	gttttaattt	actgttgaaa	ttattggtag	ttaatggtgg	259080
	ggcaagttag	tgtccaacc	caatgttggt	ccagggacaa	ctgtgtttga	tgtaatataa	259140
	tgtttttgtc	ttaagagctc	attagaaatt	atcttttttc	actttccaat	tggaaagtat	259200
25	ttttttaaat	ctcatgacaa	tatatgaatt	tgtcagtttg	agctctgttt	ccagaaaatg	259260
	agcatccttg	attttatgat	atgtgaaatt	attgctctgt	gtgtgcacat	atatacatgt	259320
	aatttataac	taaatgacct	tcttttgttt	tcatttgtgt	gtatcccttt	gctagggctg	259380
	ctgtaacaaa	gtaccacaca	ctgggtggat	taagcaagag	caacatagtg	tttcacagtt	259440
	ctgggggctg	ggagtctgag	atcaagaagt	tggcagggcc	atgcttctctg	tgaaggacct	259500
30	agggcaggaa	ctgttccagg	cctctctcct	agcttcttct	ggtggtttcc	tggcaatcct	259560

ES 2 784 246 T3

	taatattccc	tggcttgtag	atgcatcacc	ccaatctctg	ctttcatggt	tttgaggtat	259620
	tcttcctttg	tgcatgcttg	tttccaaatt	tcctcttctt	ctcagggcac	cagtcatatt	259680
	agggtagggg	ccaccacact	ccaggatgac	ctcattttaa	ctaattccat	tccaacaacc	259740
	ctattgtcaa	ataaagtcac	tttctgtggc	acttgggatt	agaacttcaa	tatatgaatt	259800
5	ttcaggggtg	ggggacacca	ttcgactcat	gcacatgac	ttcattttatt	tcacatctat	259860
	acattatata	taattattta	ttttatgtat	gttatataatc	atatgtatat	atcacatgca	259920
	tacatgcatt	tccttaccat	cacattacag	tctactagat	tatgtcctta	agtgtcatgc	259980
	ttttgccttt	attcattaat	aattatatcc	ccagtttgtc	agtactcagt	gctgtatctg	260040
	tcacactgta	ccaatgcagc	aaatgttggt	gtgaatacac	aaaattctag	agaaaataga	260100
10	aagggtgaca	aatagttatg	aataggtatg	ggaacgaatg	gggtataagga	ttgtgtagaa	260160
	agatgtgggg	aataaatact	cacacctgcc	tagtttgggc	aattgtacct	aaagacaaca	260220
	attctgctgg	cttctctgtg	actggtaggg	taagccctaa	gcacatgttc	ctgcagtgta	260280
	agggggatat	tggggaagc	ctccggtttc	aaattccctt	tgctttatgc	tctgcaagtt	260340
	agcgcacatc	agttcactag	tttgaatgag	attccaagca	gccttctgac	agcttcccag	260400
15	ttagggtcag	tcccttttgg	atcctatcaa	tgatggctac	tccatggtac	ctggagaggg	260460
	cttgcctctga	accactcaat	caaccacat	gtgtcacact	accctcattg	acaaatccac	260520
	tctcattcca	tatttgggat	tatacaattt	taggaattct	tattcctctc	tttgtaaagt	260580
	caaagattta	tttataaatt	atctgcaaag	cattcctcag	caagcatgtc	ctttttgcaa	260640
	tgctgtagca	taacctactc	gggtcaagttc	aatttaacat	tttgtgcat	cattttctta	260700
20	gcttgaaaat	gtcagccatt	ttctacacaa	acttggcatt	cttctgggtc	aacacttctg	260760
	tgagcttaag	gcaattactg	cagctgtggt	actttattca	aatgtagcat	acaactcaag	260820
	ccaaagatgt	tcttgggtga	caaggtctcc	tatgacactt	tacctataaa	ttatcatatt	260880
	cttcacttac	aaaccttaca	cttatattac	tattttaaag	tactaaatat	tttcaaacc	260940
	tattttttaa	ataaacccaa	agacaggact	ataaaatgct	atggaaaggg	agaaaagaac	261000
25	acttaataac	aagcagatgt	cctcactgta	tcctattctc	ttggtatttc	cttttacata	261060
	tgtcatctta	tttattcatt	aaaacaacca	tgcaggctgg	gtgcagtggc	tcacgcctgt	261120
	aatcccagca	ctttgggagg	ctgaggtggg	tggatcacia	tgtcagtagt	tcgagaccag	261180
	cctggccaac	atggtgaaac	cccactctct	ctaaaaatac	aaaaattacc	cggacccggt	261240
	ggcatatgcc	tgtaatccca	gctacttggg	aggctgaggc	aggagaatct	cttaaaccca	261300
30	ggaggtggag	gttgtggtga	gccgagattg	tgccattgca	cttcaccctg	ggtgacagag	261360
	tgtgactctg	tcaaaaaaaaa	aaaaaaaaagc	aaattaagtg	ttacagagca	agaaattgag	261420



ES 2 784 246 T3

	tatcagatag	gacaaaatta	atgtcccttg	gattcacaac	tacagggcag	agatgggatt	261480
	aaaatccaca	agcaaaagcc	atctaagctt	cgttgcatta	taccacagtt	aggagtat	261540
	cattctgagt	ttgaatggaa	tatggtaaat	attgttaaac	acaggttaata	catgaacgat	261600
	ctgcaat	agaggacg	ttaataaa	acctaaggac	ctacagccct	acagccaggc	261660
5	cgtagtagac	tcaaggccaa	tatttgccta	ccaattaaaa	taaaatcaat	tcaatgtgta	261720
	ttgttaatag	ctcaaaat	ccatttaaca	cagcttttac	tattcatata	taaaggtgaa	261780
	attgtgtttg	ataaaattgt	ctttatatct	cttaatagaa	agatgatttg	tttttcctat	261840
	tatagctagt	gctgaaatca	ggcctattaa	caaaaatgag	ctgcagtcac	agtttttagta	261900
	aataatacac	tctcttgaat	gtactttgag	aggaaatata	tttgaaaaac	agccctttat	261960
10	catttctgac	atgatgtaaa	catgtcacca	ctctcaactt	gtgcacttgg	ctccaatttc	262020
	tgagagcatt	tcattctttt	tttaaaaatt	ggttacataa	aagtaaagta	ccttgattta	262080
	tgcttggttt	aattagagag	aaaatgaaag	aggcagattg	acaaggaaag	aaagttattg	262140
	gagtagctgg	accaggaggg	gcagatgcca	catttgcttg	aggccactgg	ggagaatgaa	262200
	cccccaactc	aggtctaagc	agtacttttt	ccattttag	gaaaaaaaa	acaaaggagc	262260
15	aaacccaaag	ttagcaagtt	gtgagggact	ctctgggctc	tgagattgga	agtaggttgc	262320
	agcaggaagg	aactcgctaa	gcgccctagt	ctctgcatgt	atttgggaca	cacatctccc	262380
	ttcttggtta	gaacattgct	atctcagctg	actcttctat	ctgcttttcc	cttgaattct	262440
	aaactttgtg	tttctggcgt	ttatatgtag	tagttaa	aatgaggtcg	aagccagtgt	262500
	tctgctgcaa	atcttgacta	tctacttcc	aagctttatg	agctttggta	agtcacttcg	262560
20	cacctctaag	cactagt	ttcatcagta	aatgggctg	aataatggct	acctactcat	262620
	gacttagtac	attaagatac	tgacaaactt	cattttagc	aattgttaa	gatatttcta	262680
	atgacaacat	aatgcctgct	gcagtgaaaa	ttcaagatga	atccctcagc	tgagtgctgt	262740
	gctgctgagg	aagatcacac	agccatccta	agtagcttcc	tagaaaagtg	taatataagc	262800
	caaaactggc	actcagtatc	atcaggatat	cttctgtgtt	tttctagaaa	aatcagttta	262860
25	tattctcaaa	ataaatactg	tattatgact	gtcttcacaa	aactgctgta	ctactcctcc	262920
	tggtcttact	ctcaagtatg	acattgttca	aatgatattg	agagaataga	aatccataca	262980
	cactatcttt	ctcattttcc	tgttaccaac	tggttaagtct	ccctgctcct	cagcctttct	263040
	ttcttaatcc	ctactacaaa	ataggaattg	ttcattcccc	tatcaaagg	cagtttttcc	263100
	atcaagggcc	tgtgtctcac	accttctgc	tctgttgggt	tatcctcttt	ctcctgaaac	263160
30	atatgcatgc	atatttctgt	tgataattt	tcaataggac	aaagacatgc	tctggtacca	263220

ES 2 784 246 T3

	ttaatat	taatta	ttta	tttt	ttttt	263280
	ataaaa	aaaaa	aaaca	ttctc	ccttc	263340
	ctgttt	ttttt	aaatt	aaatt	caaag	263400
	gctatc	cccta	ccaat	cagt	cttg	263460
5	cgttt	gcgat	aggct	tatg	tttag	263520
	cgagac	attct	gcaat	agtct	taaaa	263580
	gatcac	aatct	tatag	attt	cagaa	263640
	agatag	cgagg	ctgg	ctgt	tgtgg	263700
	atcct	cacag	tgaag	ggtt	caggt	263760
10	ggacag	tttag	gtgat	tcaaa	aaaat	263820
	aaaaa	cctag	agcag	acagt	agga	263880
	tgcca	tgatg	aagtt	gatc	tatg	263940
	ataatt	atgga	gaaga	aatt	gaat	264000
	tttaa	tagtc	tatt	tctg	tggt	264060
15	gtgtat	ggaag	tcatt	agata	agaag	264120
	atcact	ttttt	gttt	ttc	ctta	264180
	aatcat	gtaa	aaata	gagata	agagg	264240
	gcact	tatt	tgtt	tgata	atgag	264300
	aattat	actg	ttc	ctc	tgtg	264360
20	aagtaa	agact	ctgag	ctgt	attct	264420
	ggttaa	gctg	tcag	cagata	tgtg	264480
	ggaga	gtg	aaga	attt	tgtt	264540
	ttatg	gctg	acgc	tcag	tcgt	264600
	tgtt	attc	tcag	aact	ttgc	264660
25	ttcat	cttt	ccaat	acatt	atgaa	264720
	attct	agtaa	gacca	attg	tctat	264780
	aggt	gcc	gagt	tgtg	atgaa	264840
	agata	gaat	tgga	ccat	tcct	264900
	gttt	taag	at	aaa	caat	264960
30	gaag	ccag	aaatt	cagg	catag	265020
	cagaa	cacag	agct	atat	taaaa	265080

ES 2 784 246 T3

atgcttgctg gtaattaatc ctcagttgca attaaaacac acaacaactt catcaagtat 265140  
 ttacccatcg taattttttg ggcttgaaa tggagacttt tgagaggcta atgacacatc 265200  
 caacatctca tagttactag cagatttcat gttctaaaca aattgttctg acctgtcagg 265260  
 caacaaggag gtagtaaatt agccttaaga tcattatggt acttgagtgt catacatgta 265320  
 ctggtatatt tctcattgta ttgaagtttg tttctttttt ttcttcatct ccaaagtcc 265380  
 tctgattgct attgtttccg tagctgagtc acgcctgaga catctcactg actttctttc 265440  
 ctaactactt gatagtctaa tgaaaggaaa gagagggagg tgaagaaata gaataagata 265500  
 aattagtaac ttctggacaa ttctggaaaa ctgaaactat aggattaatg ttcagagcga 265560  
 agtacaataa atggaccata agtcaaatat ttcataataa ttctgtagaa agtgacattt 265620  
 gaaaactcaa attgtacaaa accaaatctt tccttcatga tggcaaaggg atgggtcaca 265680  
 ccttaaattt cttcccagtc tccatgctat agccacactc tatggggaaa aatagccggg 265740  
 5 gggggcgggg gtcattccat tacttgaaat gaaagacacc attctaaaga aatttcaaat 265800  
 ttctttacat tattaataca ttattaacc tatacatggt tagcaatatc tttctcaaag 265860  
 ttagtaaaag gaatgcacca ttattttgtg agaggggctg tggaaaacag ttcttgctta 265920  
 ttggacatat ctgatgggga gaggtcagag gtgttaatgt aaccagagca tgtgcttctc 265980  
 ttatacagtg ggatccacga gggggataga tgactgggtg tctgggtgaat gcagtgttac 266040  
 10 ttttattagg ccataaaaag gaaagtttca aggccaacta attgtattgt ttgtcatagc 266100  
 agtgtccctg taaaaggagc atattttcca acctcggcct gggaagatgc aacatgaact 266160  
 gtcactaaaa ttaaggaaac atctctaaat caaactaatt tagactaaat ttagactaca 266220  
 tttagtcatc aggtagttta tggtgacccc attctctgca tgtgctgaaa aactatggct 266280  
 gtccatctct catagcctgg gcaggtttgc acaaaatgta tttgtgctag aaatccagaa 266340  
 15 aaacaaacta ccacacacca gcataaaaat tgaagctcag aaaagtgaat tgaagtcctc 266400  
 agagcatcag ttttcttact ggttgatcc attttctgga cttgccataa aagttgccac 266460  
 aaacttggtg gcttaaaatc agaggaatgt gtcgtcttaa tggtttttga ggccagaagt 266520  
 ccaaaatcaa agtgtcatca gagtcacact ctctccgaag gctctagggg agaatccttc 266580  
 cttgctcctc ttggctttgg gtggctcctg agagtcctca gctgtgacag cctcactcca 266640  
 20 gtctatgcct ccattttcac gtgtccctct ttctgtgtc tgtgtgtcca ctctattct 266700  
 tataaggact ccatttatta aatttagggg ccaccctaaa tctagagtga tttcatttca 266760  
 agatatttaa ctaattaaat ttgcaaagac cctatttcca aataaggta ggttctcagg 266820  
 ttctgagtga acatgtattt tgggactatt caatccacta caccgtaga ttgagctggc 266880  
 agttcttaac ttataagact tattgtgact gaataacttt tctgtaaagt atttggtagc 266940

# ES 2 784 246 T3

	taataggtga	tcaacaaatt	ctttgttttt	aagaatacca	etatagttat	ctttaatcct	267000
	gaccatgact	gtctgaatat	tctcattttc	ttaaataatat	tagtatgttc	aattccttaca	267060
	ctggcttagg	cattcattat	ggaagcaacc	tgctatatgt	aaataagcat	gattttaatc	267120
	ctatctagta	ggctgtgtgt	tataaatgat	ccctagaaac	atagacattc	cgttgtggga	267180
5	gcacggaaaa	gggagtgatg	atctctgaga	agatatgact	tgtaactttc	caataacact	267240
	tttctagaag	ggctctcatgt	taaaataaat	aatgtcaaaa	ctaaactaag	agacagcact	267300
	ataatgtact	aattggctcc	cagattaggg	ctcttaacca	tcaggctatt	ctgcctccca	267360
	aattaaaatt	ggtagcggga	catgaattta	ttgtttgaaa	tgagcacagg	ttaagtaaaa	267420
	tgagaactat	ggaaaaacaa	tgacaggaag	aacgggagaa	ttatactttg	ctaacagtaa	267480
10	tagtaaatag	tgaacattta	ttgtaaataa	gtttaacaat	acgcatttaa	gacaaattta	267540
	agagcttata	ttttttgacc	agtaattcct	tatttaagaa	tctaactttg	gaaatcatac	267600
	aggatttgta	gaaccttttt	acagaaagat	actcattctg	gaaatatttt	taacactgag	267660
	atctggaaac	aatataatgc	ccaacctcaa	aggattaata	aattaaattg	tgatattatc	267720
	ctcaattgaa	tactatgtgg	tcattataat	tcatgtttca	aaagagtata	ataaaatagg	267780
15	agagtcctgg	gcttttactc	tgagtgatgt	tggaagccat	tgaaggtgga	ggagaaagaa	267840
	atgagaagaa	cgtttcctaaa	caatgaagat	gtccagccag	tcattgacaa	aatgttctg	267900
	ttaatcatgg	tggaatggaa	gtaggactag	attgcagctc	tgtatagatc	agtgtgcaga	267960
	ggctcgcatt	gtgaatttta	gctccaggtt	gactgcaaga	acaagccagc	aatcccgaga	268020
	gtaccacag	actctctgaa	ggaagcgaac	tgtttctgca	gtaccaaga	gacaccacaa	268080
20	atactgtcag	tgccccgacg	ctggaagtgg	taaagggaga	ccccctctc	tggaacacac	268140
	agccccactg	gagaaactga	aggtctcttt	gtgggagaag	tttctacct	tctctggagt	268200
	tgaatccatt	tagagagctg	agcaaaatac	agggtttgag	gaagcagtag	aaaggccctg	268260
	ggagctcact	gggtgccccaa	acaggccatt	cctgcttggc	accacagga	tccattgtga	268320
	gggtggccag	aggagcaggt	gttgaaactc	cacaggaaga	aagaaatcta	tagttgaact	268380
25	ttgtaacaat	ttgaacaggg	cgagaagcct	cctggccaga	actcatggga	gggcacaaat	268440
	ctgttggtgca	gactccacag	gcaggggaag	aaccaagccc	tttttttcca	tagttgagag	268500
	gcaggtagcc	tgaggcaagt	tttcaagccc	atcttgccca	ccacctggaa	acaggctcca	268560
	tgagaactgc	tctttggttt	gcatgggagc	tgggtgaggc	ctatgactgc	cggttttccc	268620
	ccacttcct	gacaacctgc	atgactcagc	agaggcagca	taatcctcct	atgtacacaa	268680
30	ctccattaac	ctgggcatct	caccctatc	ccccacaaca	gccacagaaa	gaccacaca	268740
	aggagagtca	gagctcagac	acacctagcc	ccacccccaa	ctaattggcc	ctccctatcc	268800

ES 2 784 246 T3

	accgtggtaa	ccgaagacaa	agggcataata	accttgggag	ttctaggacc	cccaaccccc	268860
	accactggtc	cctatacata	ctactacagc	tgatactccc	tggagctgat	tcctcctggc	268920
	aggaggccaa	ccatcacaaa	actagagcat	taaagctaag	aaccctcacg	gagtccattg	268980
	cactccccac	cacctccact	ggaacaggaa	ctggatatcca	tggctgagag	accaatagac	269040
5	ggttcacatc	acagtactcc	gtgcagacaa	ccccagtg	cagcccggag	ctgagtagag	269100
	tcactaggtg	gctagacca	gaaaagagac	aacaacact	gcaatttagc	tcacaggaag	269160
	ccacatctat	aggaaaaagg	ggagagtact	acaacaagta	aacacacca	tgggacaaaa	269220
	gaatctgaac	aacagccttc	agccctagaa	cttcctctg	atagagccta	ccaagttag	269280
	aaggaaccag	aaaaccaacc	ctggtaatat	gagaaaacat	acctcttta	cagcccccaa	269340
10	aatcacccta	attcaccagc	aatggagaca	aaccaagaag	aatccctga	ttaacctgaa	269400
	aaagaattta	ggaggttagt	tattaagcta	atcagggagg	caccagagaa	gcgcaaagct	269460
	caatgcaaga	gaatccaaaa	aatgatataa	aagtgaaggg	aaaaatattc	aaggaaatag	269520
	atagcttaaa	gcaaaaacaa	taaaaaatc	aggacactct	gaacacactt	tcagaaatgc	269580
	aaaatgctct	ggaaaatctc	agcaatataa	ttgaacaagt	agaagaaaga	aattcatagc	269640
15	tcaaaaagaa	ggtcttcaaa	ttaaccfaat	ccaagaaaga	caaagaaaa	ataataagaa	269700
	aatatgaaaa	aagcctccaa	gaagtctggg	attatgttaa	atgacaaaa	ctaagaataa	269760
	ttggtgttcc	tgaggaagaa	ggtaagacta	aggaaagaat	cttaagagct	gtgaggcagg	269820
	agcaccaggt	aacctataaa	ggaaaaccta	tcagattagc	agcagatttt	tcaacagaaa	269880
	ccctgcaagc	tagaagggat	tggggcccta	tcttcagcct	cctcaaaca	aacactattc	269940
20	agccaagaat	tttgtatcca	atgaaactat	acatcacata	tgaaggaaag	atacagtctt	270000
	tttcagacta	acaaatgctg	agagaattca	ccattaccaa	gccaccacta	caataactgc	270060
	taaaaggaac	cctaaatctt	gaaacaaatc	ctggaaacac	tcaaaacaga	atatttttaa	270120
	ggaataaatc	acacaggatc	tattacaaaa	atactagcta	aaaagcaaaa	aaaaaaaaaac	270180
	caaaatacac	aggaaacaaa	gagtatgatg	aatgcaatag	tacctcgcat	ttcaatacta	270240
25	acattgaaatg	tatatggcat	aatgctcca	cttagatata	taaccgcaga	atggaaaaga	270300
	acttaccac	caatcatctg	ctgccctcag	gagactcacc	taacacgtaa	ggattcacat	270360
	aaacctaagt	acaggggtgg	aaagaggcat	ttcatgcaaa	tggacaccaa	aagctagcag	270420
	gggtagctat	tcttatatca	gacaaatcaa	actttaaagc	aacagcagtt	aaaagagaca	270480
	aagaaggaca	ttaaaggcct	tgtccaaaag	gaaaatatca	caatcctaaa	catatatgca	270540
30	cctaacactg	gagctttcaa	atztataaaa	caattactaa	tagacctag	aatgagata	270600
	gacagcaaca	tagacaccaa	tagtggagga	tttcaatact	ccactgacaa	cactagacaa	270660

ES 2 784 246 T3

	ttcatcaaga	cagaaggcca	aaaaagaaac	aatggattta	cactatgcca	tggaacaaat	270720
	ggacttaaca	gatatgtaca	gaacatttca	tccaacaact	gcagaataca	cattctattc	270780
	aatagcacat	ggaactttct	ccaagattca	ccatatgata	ggccataaaa	caagcctcaa	270840
	taaatgtaag	aaaattgaaa	ttatatcaag	caccctttca	gactacagtg	gaataaaaacc	270900
5	gggaatcaac	tctaaaagga	atcttcaaaa	ccatacaaat	acatggaaat	taaataacct	270960
	gctcctgaat	gagcactgag	tcaaaaacaa	aatcaagatg	gaaatttaaa	aattcttcaa	271020
	cgtgaatggc	aataatgaca	caacctatca	aaacctctgg	gatacagaaa	aggcagtgct	271080
	aagaggaaaag	tttataaccg	taaatgccta	catcaaaagg	tctataagag	ggccaggttc	271140
	ggtggctcat	gcctgtgatt	gcagcacttt	gggaggccga	ggtgggtgga	tcacctgagg	271200
10	tcaggagttc	aagacgagcc	tgaccaatat	tgagaaactc	cgtctctact	aaatatacaa	271260
	aaaattagcc	aggcctggtg	gcacatgcct	gtaatccag	ctactcggga	ggctgaagca	271320
	ggagaatctc	ttgaaccag	gaggcggaag	ttgaggtgag	ctgagattgc	gccattgtac	271380
	tccagcctgg	gcaacaagat	taaaaaaaaa	aaaaaaaaagtc	tgaaagagaa	caaacacaca	271440
	atctaaggtc	acaccacaag	gaattagaga	aataataaca	aatcaaacc	aaaccagca	271500
15	gaagaaagga	aataaccagg	atcagagcag	aactaaatga	aatggacaca	cacacacaaa	271560
	tatagaaggt	aaatgaaaca	aaatgctggt	tctttgaaaa	gataaataaa	actgatagac	271620
	cattagcaag	attaaccaat	aaacgaaggc	agaaagtcca	aataacctca	ataagaaacc	271680
	aaacaggaga	cattacaact	gacgtcactg	aaatacagga	tatcattcaa	ggctactatg	271740
	aacaccttta	tgcatataaa	ctagaaaacc	tagaagagat	ggataaattt	ctggaaaaat	271800
20	acaaccttcc	tagcttaaat	cggaagaat	tagatacct	taacagacca	ataacaagca	271860
	gcgagattga	aatagtaatt	taaaaaatac	aaacaacaac	aacaaaaaaaa	gtccaggacc	271920
	agacggattc	ccagcagaat	tctaccagat	attcaaagaa	gaattggtac	caatcctttg	271980
	acactacttt	acaaaataca	aaaagaagga	accctcccta	attctttcta	tgaagctagc	272040
	atcacctaa	taccaaacc	aggaaaggac	gtaatcaaaa	aagaaaacta	cagaccaata	272100
25	ttcttgatga	acctacatgc	taaaatcctt	aacattatgc	tagctaactg	aatccaacaa	272160
	catatcaaaa	agataattca	ccatgatcaa	gtgggtttta	taccagggat	gcagggatgg	272220
	tttaacatat	gcaagtcaat	aaatgtgatg	caccacacaa	acagaattaa	atacaaaaat	272280
	cacgtgacca	tctcaatagc	tgtagaaaaa	acattcaaca	aaatccagca	tccctttaat	272340
	attaaaactc	tctcccagct	actcgggagg	ctgagacagg	agaatctctt	gaaccggga	272400
30	ggcggaggtt	gcagtgagct	gagattgcac	cattgcattc	cagcctgggt	gacaaaagct	272460
	agactttatc	taaaaaaaaa	aaaaaaaaaaa	aaaaaaaaacc	agctctcagc	aaaatcgga	272520

ES 2 784 246 T3

	taccagggac	atatcttaat	gtaataaaaag	ccatctatga	taaaccacaca	gccaacataa	272580
	tgctgaatgt	ggaaaagttg	aaagcattcc	ctctgagaag	cagagcaaga	aaaggatgcc	272640
	tactgtcacc	actcctcttc	aacatagtg	tggaattgct	agccagttca	atcagacaag	272700
	agaaaagaaat	aaagggcatc	aaaattggta	aagaagaagt	caaactgtca	ctatcttctg	272760
5	atgatatgat	tgtttacctt	gaaaacccta	aagactcctc	cagaacactc	ctagaactga	272820
	taaaggaatt	cagcaaagtt	tctggataca	agattaatgt	acataaatca	gtagctcttc	272880
	tatacaccaa	gagcaaccaa	gcagagaatc	aatcaataa	ctcaacgctg	tttataatac	272940
	ctgCGAAAAC	AAAAATAAAA	tacttaaaag	tatacctaac	cgaggagcct	aaagacctct	273000
	acatggaaaa	ctgcaaaaca	ctgctgaaag	aatcataga	cgacataaac	aaatagaaac	273060
10	acatcccgtg	ctcatagatt	tgtagaagca	gtatcttgaa	aatgaccata	ctgcaaaaag	273120
	caatctacaa	attaatgga	atgccccatca	aaataccacc	atcattcttc	acagaattag	273180
	aataaacaat	tctaaaattc	atatgaaacc	aaaaaagagc	ccaaatagcc	aaagcaagac	273240
	taagcaaaaa	gcacaaatct	ggaggcatca	cactacctga	tttcaaattc	tactataagg	273300
	ccgtagtcac	caaaacagca	tggtactggt	ataaaaatag	gcacatagac	caatggaaca	273360
15	gaatagagaa	cccagaaata	aatccaaata	cttactgcca	actgaatctt	gacaaagcaa	273420
	acaaaaatat	aaagtaggga	aaggacacc	ttttcaacaa	atgatgctgg	gataattggc	273480
	aagccacag	taggagaatg	aatctggatt	ctcatctctc	accttataca	aaaagcaact	273540
	caagatggat	taaggactta	aatctaagac	atgaaactat	aaaaattaga	aaccaaacc	273600
	tttagacatt	ggcttaggca	aggatttcat	gaccaagaac	ccaaaagcaa	atgcaataaa	273660
20	aacaaagata	aatagctggg	acctaattac	actaaagagt	ttttcatggc	aaaaggaaca	273720
	gtcagcagag	taaacacaca	accacagag	tgggagaaaa	tcttcacagt	ctatacacct	273780
	gacaaaggac	taatattccag	aatctacaac	aaactcaaat	cagtaagaaa	aaaacaatcc	273840
	catcaaaaag	tgggctaagg	acacgaatag	acaattcca	aaagaagata	tacaaatggc	273900
	caacaaacat	atgaaaaaat	gttcaatgct	accaatgatc	agggaaacaa	aatgaaaaac	273960
25	cacaatgcga	taccacctta	ctctgcaag	aatggccata	ataaaaaaaa	taaaaaaaca	274020
	ggagatggtg	gcatagatgc	agtgatcagg	gaatgcttct	atactgctgg	tgggaatata	274080
	aactagtaca	gacactatgg	aaaacactgt	ggagatttct	taaagaatta	aaagtagaac	274140
	taccatttga	tccagcaatc	ccactactgg	gtatctacc	agaggaaaag	aagtcattat	274200
	gcgaaaaaga	tgcttgacaca	agcatgcaca	attcacagtt	gcaaaattgt	gaaaccaacc	274260
30	caaatgccca	ccaatcaacg	agtgggtaaa	gaaactgtga	tgtatatata	tatatataaat	274320
	atatatgtat	aaactgtgat	atatatataa	agaaatatat	atgatggaat	atatatatac	274380

## ES 2 784 246 T3

	atataatata	atatgatgga	atatggtgaa	tatgatgga	tactactcac	ccataaaaag	274440
	gaatgaatta	acagcatttg	cagtgacctg	gatgagattg	gagactatga	ttctaagtga	274500
	agtaactcag	gaatggaaaa	gcagacactg	tatattctca	ctgatataata	ggagctatgc	274560
	tatgaggatg	caaaggcata	agaataatac	aatggacttt	gcggatttga	ggggaagaat	274620
5	tggggggagg	tgagggataa	aagactagaa	atatggtgca	gtgtgtatgg	cttgggtgat	274680
	gggtgcacca	aatctcaca	aattaccact	aaagaactta	ctcatgtaac	gaaataccac	274740
	ctgtacccca	ataatttatg	gaaaaataaa	taaataaaat	aggaaaaatt	actttcactc	274800
	tcaactatgt	gtagcttaga	ttgagtgtcc	ctagaagacc	ctgagacaag	aatttgtgca	274860
	agttgtttat	ttgagaaatg	atagtaacaa	gcacagtaag	agaggcaaag	aagtggagaca	274920
10	gacaagggaa	agatgccact	aaaaaatggt	ttaaaaaac	cccataaac	aaaacaacc	274980
	ccccaaaaa	ggctatgttt	tttccaaaa	atataatcatg	tttattgagg	tataacatac	275040
	agggttaaat	aaagggtttt	agtcccatat	acacagtcac	ataaccacaa	tcaagatgta	275100
	gtataatttc	ttcacttatc	aaaatgtccc	acattcttgc	tcctgatagt	caatccccca	275160
	ctccctggag	aacactgatc	tgttctttgt	ccctctattc	ttgccttttc	cagaaagaca	275220
15	tataatgga	attatacagt	agccttttga	gtctggcttc	ttcacttaat	aaaatgcatt	275280
	taatattgaa	caatgttgtc	gcatgaatca	tgttttcttt	tttaattttt	aaattgttga	275340
	gcaatattcc	cttgcataaa	tgcaactaca	cagcagttgc	cattcatcag	ctgaaggaca	275400
	gtaggttgt	ttccagtctt	tggtgattat	gaacacagct	gctataaaca	ttcatatgga	275460
	cataagtttt	cttttctctt	gagtaactaa	ctaggaatag	tattgccagg	acatatggtg	275520
20	ggcatatgcc	taaacttatc	agaaactgct	cagtgggcaa	ctgggactca	ctcctcctgg	275580
	agacttcttg	tagactgcac	aaaactatgc	ttcacagttt	ttcattcaa	gggaccagga	275640
	agctggggga	ttcatttgtc	ctccaactct	gccattagtt	gaaggttgct	ctcaagagta	275700
	ttaaccctag	agcatctatg	gcccactctg	tacagaatat	gcatgttcta	aaggacatag	275760
	taaaacctag	gtagaagtt	gaagctgttt	tcagtaggaa	gccttggggg	tgatatgcac	275820
25	agaatgttga	ggcctgccag	caccttctac	atcatgtggg	gaaacatggt	gccattcaaa	275880
	ttctagtaat	aattattttt	gtgggggtgt	aaggctttaa	caggaacatg	actttccctt	275940
	gtctcagaat	cctcaaatac	aagaaatctt	atgttagtat	attttgtaaa	taatcacaat	276000
	aatactgatt	attaccgtga	gagagtattt	gaagcactta	ctatcaggga	actatcatta	276060
	tctctgtttg	cccagggtga	tattgctagg	agatagtgaa	gccactattc	agttaagcag	276120
30	cctggtttca	gaaaaggtag	ttctaaccac	tatgttatac	tatataatcc	tgttataact	276180
	taggttatga	gaatttctac	aaataaaaaa	aagagaataa	acaagagttt	gtatataggt	276240



ES 2 784 246 T3

	cactgaactg	ttcatatata	ataaaaatagt	aaacaaaatg	taatgttcta	caaaataactg	276300
	tgcttggtg	gtgggttgta	gggattttgc	ttctgtttcc	ttgttttgga	taaatttaat	276360
	ttaaagatca	tgtgtttgtc	tatggaaaaa	tattgaaatt	ttactttttt	aatgtaaaga	276420
	atgtgtgttt	tttaattaaa	aaattttaa	ggactattaa	taaattataa	ttatatatat	276480
5	ttatgaggta	cacatatgta	caattataat	ttattgtata	tatcatgttc	acttatacat	276540
	atgaggctaa	gacatatgta	tacaaaagtg	aatgatcgac	tcaagctggt	taacatatcc	276600
	atcacttcag	atactattaa	atgatggtg	gaagaggta	aaataacatg	gggaaaactg	276660
	aaaactgaat	cctgattctg	cagttaagaa	gcagttgtaa	tgggtgagatg	tcaactgcca	276720
	agagacaaa	gcagagaagt	attaaactct	ctgggtgctg	tgttctttaa	gagcatctgt	276780
10	ctttgctgga	aagattgatt	ctggcttgca	ggcagtcatt	accacagtgt	ccaacatcaa	276840
	aaagcctcct	tgctctacc	ccagcagttc	atcgattctg	gacaaccctg	ggtggtcttg	276900
	gactcttacc	agcatctgct	tagcctcgaa	gcccctcaa	atctcacttt	gcctccacag	276960
	gccacattaa	gttcaaatta	acgaattcct	ctaggcagaa	ctttttcaa	gagttgaagc	277020
	caaaataaaa	gttaatgaat	tccagcaaag	gcaaaagacc	tctggataga	tgttttgccc	277080
15	tttttattca	ttgaaactcat	gcagttttta	ttttctcagt	tttctctgtg	taaaactctc	277140
	tgttccacca	atgtttcaa	aattaatttt	gaccttctgg	caacatttta	atctcacatg	277200
	cccagtaga	ttctctttat	tcaacaactt	atctcatata	ttcattattc	cttttagaaa	277260
	atagcagtat	cgtgctcaac	ataagtattc	attatatgcc	taattacact	gagaactgtg	277320
	cacagagaca	agagcctggt	gcagaggaag	gagcacttgt	ctgaggggag	ccgaccagc	277380
20	ctcatgcagg	gcggcgaggc	tgaagtgtaa	ccctgaggac	agggggcgag	gcaggagctg	277440
	aggacagaga	gctgacttgg	gacgaggttg	ctcaatgcc	tgggtaacat	gtgaaggagt	277500
	ttagatttta	ttctgagcg	tggaagaaaa	ccatctctc	ctctaatttt	aaaccttctt	277560
	gagggcagg	catgtgtaat	tctgaatata	tcttagtata	ttctagtaag	tgttgaggac	277620
	aagttatcat	taatagcaac	tacttatata	ttgtggctca	gcaccttcca	aataccctaa	277680
25	caacaccatc	cccaaactct	cacaaaacac	taaaagttgc	tatcatttaa	ttgaatgtat	277740
	ggatactcaa	aaataagact	cagagtagat	gagttgcaac	tgctttggtg	agtatctaac	277800
	gtgaaagatg	tagagagaag	caagaccatt	ttatgaaatt	gtcactgtcc	cataatagat	277860
	tagagtaggt	tctaactcca	gcttttccct	tctccatgct	tgtgactttt	gacaaatcag	277920
	ttttttacat	atcaatgggc	atgtgttaaa	aatctcctga	gattgaggca	tgatgcttgg	277980
30	ttctacgatg	gagaggcaac	aaaaacagtc	tttactctca	aggggctcat	ggtctttag	278040
	tagaattaaa	atctacaagc	aagtaatagt	aatcaatgt	gaaaactaca	tttaataatg	278100

ES 2 784 246 T3

	tatacaat	attaagg	aaattaact	tacaggg	tataataag	tgacatg	278160
	atgactaat	gtttgcc	cagaggaga	tgagacag	attccaaaa	agaaaga	278220
	tccacaa	catggat	caagtgtg	aagactgg	cgcccag	atgtggg	278280
	ttatagc	caatcact	cttcacct	agtctaca	tgtgtgg	ttaaaat	278340
5	ttcctgg	ccccag	cctgccag	ttgcaa	aaccctg	ggcccag	278400
	ttgcaag	agcaaag	ggtgata	agacaaa	caggcct	atcatat	278460
	ctgtgtg	ttgggta	gtccaa	ctctgtg	cagtttc	catatgt	278520
	attggg	taagagt	tatatc	ggttgtg	gagataa	atgtga	278580
	atgta	tttggaa	ggcctg	agagtaa	tcatgt	gtagct	278640
10	tttatg	taatc	ttaa	ggaat	ttacct	tatac	278700
	gctttc	aagata	ttgaaa	gtttg	aatctt	aaaaat	278760
	atata	tatagt	ttctt	aaat	tgagt	tttgt	278820
	gcaat	cgggat	cagca	ttta	actt	tcatg	278880
	tctt	ggggt	aaaa	atat	atgt	gtgt	278940
15	gtgag	gagag	ttat	ttaaa	tgaga	aata	279000
	ttgg	aatg	gtgg	caac	tagg	agag	279060
	ttgg	gtg	ggag	cga	gagg	gtag	279120
	tcct	ggt	ggc	ggt	tgcc	cca	279180
	cagg	tgac	aag	gagg	ccg	aagg	279240
20	gctata	ttgag	attgg	tgga	agggt	tcctt	279300
	tggg	gggaa	aggag	ggag	catg	gtgat	279360
	tttt	atact	gtgag	ggtg	tagg	ccaa	279420
	ggaa	tact	ttca	agac	ggtt	agag	279480
	caat	agt	ggt	ttg	ttc	tata	279540
25	tgtata	gagact	cagag	ccatt	ctttt	gttgt	279600
	agaca	tcgct	accag	gagt	ctgca	ggct	279660
	aacct	tcg	aagc	cctg	cctc	agct	279720
	acagg	gccac	ccgg	ttt	tagt	ggag	279780
	catgt	aggt	cga	gcct	agct	ctct	279840
30	caaag	ggatt	cgta	caag	ctaaa	tttta	279900
	tgctt	gctt	ctgg	gttc	ttc	cctag	279960

ES 2 784 246 T3

	aaagggttat	gggagcagag	cagggctctg	ctcttattcc	aagcacaggt	gcagcccaat	280020
	ggttttcctg	tcttttagaca	agaatgctta	gtaattccct	tgcttaaatt	gttctctccat	280080
	ctctgtcatt	gaatagaatc	tgaccctgag	taatgtgact	taatgagggc	agtttgactg	280140
	tgcatcmeta	gaaccactaa	atatatgttt	actttatatt	tagtctcagc	cattatgcat	280200
5	aattatattt	aaaagggcac	tgaatagata	agttacaagc	cacaacaggt	gtgactggag	280260
	aaacacagag	aacgcacata	aaatctggga	gagagagcag	gttacataaa	tttcccatca	280320
	gggcagagaa	atataaggta	tatttgaact	ttgaagccaa	tcagtgtgca	accaggtaat	280380
	tacaggcagc	ctacaccagg	atgggagatg	ctggagtgtg	agcttgggaa	tgccccata	280440
	actcattcat	cttcaaagtg	cccttggggg	cccggcctca	ccagccagga	aatccaggat	280500
10	cgtcagttgg	aattatatca	acatctgaga	ggccatggag	ggaatgaacc	tcatttacca	280560
	tgattaaagc	agatgaactg	caggttttagc	tcttctccat	taaattcctg	ttaaacttga	280620
	gaacttccac	aggcattatc	ttattaatag	gcaggacagt	cattaacagg	tgatgaaagg	280680
	agggaaagaaa	tgactgtgaa	atctctgaga	atttaagaat	gtctgcttca	tgtacagtta	280740
	agaaagaaac	taacattcaa	cattttttatc	aggaatttgc	atgcattatt	tcattcattt	280800
15	ctcatatcaa	atctgttctt	tattggcatc	aatctaaata	aggatactga	cggaaaatta	280860
	atataaaaaat	tatttttaggc	ccacgttgag	gattgaagcc	tgggaaatac	ctggaaatgg	280920
	cttcattcag	ccttcgttac	aagcaggttt	ttagaagtga	aagggataaa	agaatgtgct	280980
	gatacaaagt	tttttgtag	gaattttcaa	tggtttacag	aaataacatt	gattagtgat	281040
	tggtatataca	tttttagagct	ctgggttatg	agttatggtg	tccagcgtat	ggcattgtta	281100
20	ggttaatttta	tggctacttg	tcatcaagta	atccagagcc	caccagcaa	gtggcttcaa	281160
	aaggtgatta	cttagctcaa	ggttggggtg	gtggggaatg	agacctcact	gctgtctcac	281220
	cttaatggcc	cttttcagat	tgctcagata	atagtttctt	ctctttctca	taaataaagg	281280
	aagagagact	gaaagaatct	tagtaatttt	ctagaggtgg	tattttctag	attcagaatg	281340
	aactacacaa	atattgagtc	ccctgttatt	tccacactat	catttgcct	ccaaaagggtg	281400
25	aatgcattg	tctgacatca	tatttttagtg	acagagcctg	tccttgtagc	aaggctctctt	281460
	gtggttttct	ctatagtctc	atgccagctg	cctagctatg	ggccacaga	atcaaagcct	281520
	ggagagtcc	tatgaagacc	tagataacca	ggtttcaaca	tagctctgtc	tctggagtga	281580
	gtggtgaagg	aaggagggga	gcagaccacg	tagccgactt	ctctatttgc	attttttact	281640
	tattgttttg	tagtgcaagc	atcaaact	ggaagcggct	gagcattttt	ctctaagtat	281700
30	ggcgaaagct	tgcccttttt	caggtcttct	tcttctttct	cattaaatca	ctttggctctc	281760
	acacaacaaa	atagtcttca	gggatggcct	taggcaaagc	tgtaaaatct	atcctctggt	281820

ES 2 784 246 T3

	cccagaactt	ctccttgttt	gtcctctctc	tcattctgtg	aatctctcat	cctcttctga	281880
	tacttaggaa	atctctctca	tacaagctca	aaaaaggatc	cagatcattg	tatgcatgaa	281940
	aacaaggcct	catttgcaat	tcaaagggca	ggccaactgt	gattatgcct	cttatgtggt	282000
	gtgaatccaa	tgaagaattt	taataaaaagt	tctaaattga	ggcatagcca	cattctaaaa	282060
5	gcaatggaga	atgatttggt	ggacatgaaa	acgtgtcacc	ctttaccatt	gctttcttta	282120
	acgttattca	gttaagtctt	aattctcaag	tttctatatt	tgattttttt	caaattatgc	282180
	tccaacctat	agactaaatg	gactctctgt	ggctgagatg	ctcaaggtaa	agcagaacca	282240
	ggcagccaca	gcaggatgag	ggggctcatca	tgcatactgt	gcgctcggaa	aatgttgcaa	282300
	aaatgtcaca	agacatccct	tcttgcaatc	aagccaaact	gaaataggct	acagctggaa	282360
10	attcccaaac	agaccaacaa	ttgtccacca	agagtcagcc	aacaaagaga	gacctgtggt	282420
	tttactactta	caggtcatcc	attcaaggct	ctgttctctca	ctccccagg	ccccttctctc	282480
	ggcctttcgc	tttttacctt	tataatctct	aactctccaa	cccttctctgg	gagtgcactt	282540
	tcactttatc	ccaaaggcta	ctcgtctcca	atctataggt	cactgtcaga	aaataaagcc	282600
	cctttctgcc	tctgtagatc	tcactttttg	ttaatagctt	taatattcta	aaaagaagat	282660
15	tcacaaacac	ctagaccctg	ggctgaacta	agtttaaaag	acgattgatt	gagtgttggt	282720
	ttctggatcc	agttgaagtg	tgttactcac	ctactgagct	agtaagaatt	cccctaggaa	282780
	gaacagtaaa	aatgaagaaa	acctgagctc	cagagtcaac	gtagctgtga	taggctcaat	282840
	aatagcccct	ccacagttgt	ccacgtttga	atactaaaaa	cctgtgagca	tattacctga	282900
	catggccaaa	gaggctttgc	agatttgatt	aagttaaaga	tcttgaagtg	gggagaaaat	282960
20	cctagattat	gtggatgagc	ccagtgtaat	tacaagagtc	cttataagag	gaaagcagaa	283020
	gagtcagatc	ctgagaaagg	gagaggtgac	gacagaggca	aagatcaaag	aatcagagag	283080
	acagacgttt	cagatgtcat	gctgctggct	ttgaaattgg	aagaaagggt	tgcaagctaa	283140
	tacgtgcagc	ctctagaaaa	gacaagggaa	cacttttttc	cctagagcct	ccagaaagaa	283200
	ggctactcca	ctgataccct	gattttagga	cttctgacct	ccagagctgt	aaaagaataa	283260
25	atctacgttg	ttttaagtga	ctatatttgt	gatcatttgc	tacaggagca	gtaagaaact	283320
	aatacagtgg	tcggtgaaga	tgatcttccc	tagtaatggt	tagtatttga	ggcaattaga	283380
	ctttgtagag	ttgcagctgt	tgtaggggaa	tattataaga	tcgtgttaga	aaatacttca	283440
	ggagaataag	gtgaaaaatgc	ccacggcgtg	taccagcagg	ctccaaagcc	tttgaaaaca	283500
	gaaatggtag	cagtaaacaa	acggcacttc	ttggagtaaa	tattagcgtt	ctattaaggg	283560
30	ccttaagatt	gtaaattgtc	acattccacc	aaaatgctct	tttttctcct	tctcttttta	283620
	aaggtttgct	caatagaaca	taaaactgtg	acgcttgaag	ataaacgtga	ccttgaccag	283680

ES 2 784 246 T3

	ccctgaggtg	agcagtgatt	tctttcaggt	gtcaatcctc	agcaaatgca	agagaaatat	283740
	taacctgtgg	caaaatgtgt	gctggtgtga	aagagagaat	gatgtttcct	gaagaatcta	283800
	acattttttc	tccatgtgta	gaattcaatc	aggcttatga	tgagcaaaaa	atgaaatagt	283860
	tcccttctct	ctgtagaaga	aggtgatgat	tttttttttt	tgacttacag	tgcatgcaac	283920
5	ccagatttaa	atccaggaag	aaacaaaatt	ttgtgttcta	taaaacattt	tggaaaaaga	283980
	aaagtgctac	tgtaggtaac	atgcacagtg	gtgtcctggg	acccccaggt	caaatccttt	284040
	gcatccactc	ctgtgttttg	ccacgcctc	actccatcaa	aagtctgcca	ccaccatcct	284100
	cctaaatgct	gtaaatgaaa	gtagcatag	gtgccaaagac	tccaagata	ctctccttta	284160
	cttgtccaat	cattatccca	attccagcta	aattccttaa	cgggcataac	tgccctaagtc	284220
10	aaatttaa	gtaaaaactt	acatgtggcc	agtggcattt	tatcggacag	caactgatcta	284280
	aacaaatata	tgggatttgt	tttctcacct	tgttctactg	gttggaggag	atggtgaaga	284340
	acagcctcaa	atctcccagg	acggacatta	ttttcagaaa	gggggcagat	ggagggggaa	284400
	ggaacagctc	gtctatcatt	ctttctctcc	tacagtaatt	atgccaaagat	acaaagttat	284460
	aatttcttag	agttcaacag	gagtccaaag	actcctggtc	tttctttgtg	tgagccagtt	284520
15	gatttgcata	ctttccaggc	tacataaaca	cagaagccca	cagggcaatc	cagctgtgtg	284580
	tattacctga	gccgtgggga	gggatgctgt	gtgatcacca	ttacctgtga	gaaacttgcc	284640
	ttactatctt	cttcctactg	tttttgctgt	acttaccag	cagttgcaa	ttagatgggc	284700
	ctcacaagag	taaaaatcgt	caggtcaact	gtggttacaa	caagaatcct	tgcatggaga	284760
	tgccataaatt	ttagacgcac	ctatcatggt	ggaggaaagg	tgacctttgg	gatgattgtg	284820
20	tctcactgct	ttacagttgg	gaaagcaggt	caaaagacaa	taaattactt	gtccaagatc	284880
	ccatggtaag	attgttccag	aagcacatac	ataagctgtc	tgtactacac	ctatcctgaa	284940
	attgtgctct	ctctgcaagg	ccattttctc	tagcaatttg	caagaactgt	aggaatgttc	285000
	ttgctcaaat	atgaagcatg	gacgttcttt	ttattgccct	caaaataaaa	tttttcttta	285060
	tatcttctgt	tactaccact	gaacaaatgt	tttccaccta	ctcccaaagt	aaaggaagat	285120
25	aaaaagagaa	gtagaaata	attgcattac	aactaccact	attatgacta	ctatcatttc	285180
	cgctaatgct	acatgagaaa	ttctttctat	aaagtacatt	atttaattat	attaacagcc	285240
	ctatgtggta	ggtattgtta	tccccaatag	tccccaaaa	gaagcaaaga	aacagaaaaa	285300
	ttaagtaatt	tatataagtt	cccagagcag	gtaagtagtg	atgttggggg	ttgatcccta	285360
	aggttaagtat	tcccaaagct	cgttattttc	caataatgtg	tttgaatatg	ttaaatacct	285420
30	tcacttcaga	tctctccctt	ctttcccatc	ctcattctaa	ttttgtagag	tattgggtccg	285480
	tctttgaata	tatagaaaaa	cagttcttat	taatatttta	ctaaatgtaa	tcaactgatg	285540

ES 2 784 246 T3

	ctatgtat	ccagtttcaa	atgagttgaa	cataattcct	ttaaaaagag	tggcttgaaa	285600
	agagtatcag	aatgagtcaa	gtgacctgca	tttctcttcc	gagctctatt	ccaaacaaat	285660
	cacaagcaac	aataggttgt	ttttgtacaa	tttcagaatt	tgtcaatatac	tgtgggtctca	285720
	gttgaatggt	tctggaagcc	gaatcagaca	cacagcaatc	aaaatcacca	gggaatgctt	285780
5	tttcagcatt	ttatacctgc	attctccaat	cctctaatacc	ccaagtaact	acagaacatc	285840
	aaggacagtg	ttgggtgtgga	atgtgacatg	cacattttta	aaccagtctc	taaggaattc	285900
	taatttacac	ccttaacccc	tggaaaagat	aatcttcgag	atTTTTTaaa	gcctatTTTta	285960
	atagacttgt	gagcacttca	agctctaagt	cagaagataa	aataatatac	agaataagtg	286020
	agcctttaca	aagctcattt	ttaccaaaatt	actgttcact	ttaccaagtt	accctactga	286080
10	tatatttaga	tgagccatta	cacattcatg	cctctgctcc	tctctgacta	gtcacctgtg	286140
	ccaggtgcac	tcacaggttt	tattgaagac	ttggaagtgc	tatatgaaat	tctgaaatgt	286200
	tctcaaagtg	cctgtaaaaat	gttttctttt	tcctgaaagc	aaagatttgt	agaaaggtca	286260
	cttaactggt	ttcttacaga	aagttgatata	tcatgaatcc	ataccagttc	tggatgaaat	286320
	aaacatcttg	actgtcctat	tgagaagaca	tgatattggg	gtgaagtcca	aggcatgtct	286380
15	tcagttttgg	ctttatattt	aaagttataa	accgcactca	aaacagaaca	aaatatgtat	286440
	atgtatttga	gaagttgtaa	atgtagtaca	aagaataata	ataatgaaaa	caaaaagcac	286500
	tttaggctct	aattcaacat	tcgtggcata	gtttataaca	gtgaaaattg	aaaacatatt	286560
	aaatgctgaa	cagaagataa	gaaaactgtg	gtaaataccac	tagatggaat	attatatagc	286620
	catacacatt	acagttatta	cttctgtata	ataatataaa	atatcttata	tcataatagt	286680
20	aagcaataaa	aacatgagaa	aaaattttat	ttaccactta	aataaaaatta	gcttgaatta	286740
	catgtatgaa	aaaagatcac	ttaattatgg	aaaataacat	aactaacagg	aacataatct	286800
	taaggatgag	tgTTTTtgaat	tggttctgga	gtttctggaa	ttgattctct	aaattaatta	286860
	gatttaaagt	caccaatgac	tctatttcca	gcagtgaaga	gagcactgat	agtctataat	286920
	gtgatacagc	aatagagatg	ggcaaagcat	caccattggc	tactcctaata	cagatagcta	286980
25	tgagaggcca	ggttctgggt	gaccatatac	ataatacttt	ctaatctttt	tgtcaaactg	287040
	acagctgtaa	tgatattcac	tagttgctcc	taattttgct	agaggaagga	aaagaagagc	287100
	tcaggggttc	aaattcccaa	ctcaagaatt	atataaatga	cctgaaaatt	tctaagtctt	287160
	ccctgcagga	aatctttatc	ttctatagct	gcagatctga	gattgctcaa	aaatcaaacc	287220
	cagaatctca	tcctgtgaga	ggctgaatta	taataccagt	tgaatttcca	acctcacggg	287280
30	gtgtttattg	ttaaactagg	gcattgattt	gcaaggaatg	ggatcctgag	agttggaatg	287340
	aagaaataag	agaaggccct	gatgagattg	gggacactga	tttctcaac	tctgataagt	287400

# ES 2 784 246 T3

	cttctttgcc	agcaaaaagct	gttattccat	ccccatctga	gtagatcaac	ctggctttgc	287460
	ctaaggaaac	tgtaatggcc	tcccctgagg	cagttgctat	gcaaattgta	gacctataag	287520
	tatactcaag	tcccagcag	cccctaaagg	tgaggtacag	aatgtgaccc	atgaggaggt	287580
	gtgccattct	ccaaaacaaa	caaacaaca	aacaacaaa	caaacaaca	ccttgatctt	287640
5	tttcaatata	tatagacaga	aatthtagga	atatatgtgg	gaatgaatat	ttatgtaaaa	287700
	tggcagaaga	aacataaatt	tggacaaaac	agacttatat	tgacatgagt	ccactaatta	287760
	gagattctta	tttaaatgtt	gcagtttggg	gaattagaag	gggactctaa	cagttagttg	287820
	aagtggtaaa	ctatattatg	gcccaaaagg	tgggccaccg	tgaataaacc	agaatgacat	287880
	tctagtttaa	gtgttgca	ttggagaatt	agaagtgggc	tctaacagtt	agttcaactg	287940
10	gtaaaactaaa	ttatagctca	aaaggtggtc	cactgtgaat	gaaccaggtg	gtaccctga	288000
	ctgttcattt	tacgtggaag	gagaaatagc	cagacatgta	ttatatattg	cttcatggcc	288060
	atgaccaatg	gtttgcctgc	atggtaaagt	acttgaaga	aacatgattg	gaaatgctgg	288120
	acctgatttg	gtatactgca	aaggaagaca	gtgaaggctt	aggagatgg	gaatgttagt	288180
	tttttcaact	acaacctact	caccacatc	gggagggtcc	agcagacata	gctttcatca	288240
15	atactgtgag	aaatacattt	gtgagggagc	cttagcctcc	ttgaacagct	ctgtgatcgc	288300
	tctcctctac	tgactagaac	taacagtgga	aactgatgtc	actgatatgg	gaagcctaaa	288360
	tgcaagtgaga	acaattgcat	ctaggagtgt	caggggtcaa	gtggcagcac	tcaaccaaca	288420
	aaaggtgggc	atcgttgctg	taatggacag	cagggatcaa	ctctccagct	ctatgtcata	288480
	gtagggttag	cagggatctt	ggtcacctt	ctctttcaga	atacatcaca	ctgttttcaact	288540
20	acattgatga	cattaggcgg	attgtacctc	gtgagcaaga	agtagcaact	acactagaca	288600
	tactggcatt	acttgagat	attgtgggtt	ccgttctaga	ccaacatata	aaagcaaata	288660
	tttcaataaaa	aggagtcaca	caaatttttg	ggtttcccag	tgcatataaa	aattatattt	288720
	actctttatc	atcatctatt	aaatatgtaa	tagcattatg	tctaaaaaac	atacatacct	288780
	aatgaaaaaa	tatttcattc	ctaaaacatg	tccaaagtca	caaagtgagc	acatgctttt	288840
25	agagaaatga	cattgataga	cttgctgat	gcagggttgc	cacaactctt	gtatttgtaa	288900
	aaagcacagt	atthttcaag	gtgcaataaa	gtacagcaca	ataagataaa	gtatgcctgt	288960
	actggaaga	catttgcattg	ttagaggttc	gtacataaat	tcagaggcct	ttccaaatca	289020
	gcaaaaattt	taggacttca	gttgatgga	gtatgttaag	agatcccttc	taaggtgaag	289080
	gttaagttgt	tgtatcactc	agtaaagacc	ctagactatc	aaaccagat	gagtaataata	289140
30	ttgactccaa	aattcagaaa	ggcccataat	aatgactagt	gggactcttt	gaattttgga	289200
	gtcaatatat	ttctcatctg	ggtgtgatat	tctaggatct	taactgagtg	acttgaat	289260

ES 2 784 246 T3

	ctgctagttt	tcagtgggtc	ccagaagaag	agaagtctat	acaatagatt	taggttgcca	289320
	tgcaagctgc	tctgcccttg	ggatcatatga	tgcagtagat	ccaatgggtgt	ttgaagtaac	289380
	agtggcatat	atggatgcca	tttgggtgtca	tttacaggcc	cctataggta	agttttatag	289440
	caaagtccctg	ccatcctctg	cagataaata	ctctcctttt	gagaaacagc	tttaccctgt	289500
5	tattggagct	tagttgagac	tgaataactta	actatgggca	accaagttac	catgtgacct	289560
	gagcttccca	tcatgaagtg	gatattttct	gagccaccaa	accttaaagt	tgggtatgca	289620
	caactgcact	ccatcatcaa	atggaagtgg	tatagaccag	atgggactca	agcaagccct	289680
	gaaggcacia	gtaacttaca	tgaagaaatg	gctcaaatac	ccatggtttc	taatcctgct	289740
	atgctgcccc	ttctctctcc	tagccagcac	ccatggcttc	atggggagct	ccctaaattt	289800
10	aggtgacaga	ggaagtgaga	atgcatgcct	tgtttacaga	tggttctgca	caatatgcag	289860
	gcaccatctg	gaagtggaca	gctgtaacac	tacagtcctc	ttctgaaata	tccctgaagg	289920
	gcaatgggtga	agggaaatcc	tctgagaagg	tagaactttg	agcaatatac	ctggttgtta	289980
	atthtgcttg	gaaggagaaa	tggccaaaca	tgtgattata	tattgatgca	tggatcatggc	290040
	caatggcttg	actgcatggt	aaaggatttg	gagggaaacat	gattgaaaaa	taggtgatag	290100
15	agaaatthtg	aaaagaggta	tatgaatata	cctctctgaa	tgggcaaaaa	cgtgaagata	290160
	thtgggtcca	gtgtgaatgc	tcatcaaagg	gtgacctcag	cagaggagta	thtttatcat	290220
	caaatggata	gagtgaatca	thctgtggat	accagtcagc	ctctthttcat	tgtcattaaa	290280
	ccaatccacc	cctgtcgtta	ctcaaaaagc	tcatgaaaaa	agtggccatg	gtgacagaaa	290340
	tggaggttac	gcatgagttc	ggcaacaggc	acttctactt	accaaggcca	acctgacccc	290400
20	agctgttgac	aagtgcccaa	cctgccagca	gcagagacct	acactaagtt	cccagtatgg	290460
	caccattccc	cacaattata	ggtcagctac	ttgggtggcag	gttacttaca	ttggactact	290520
	tacattattg	aaagggcagc	atthtgcctt	thctagaata	aaagctthtt	ctgcatgcca	290580
	atthctthtg	thtgcttgca	atgcttattc	acagtgcctt	gggtggttact	attattaact	290640
	thattctcta	aacaagaac	ataaggtaca	gagggataaa	atcagctgcc	ctthgctacc	290700
25	tggatatgga	tagcaattht	thctthtctt	gtcaactctt	cagcatctct	cattaatctg	290760
	thctctcatg	caagaacagc	actctthttca	atthtgaag	thtatattgt	gtthtaatatc	290820
	acctaggatt	aatcttccct	cattactctt	atthttcata	actthttcaag	ccattcttgt	290880
	agggtthtag	gatcctgtaa	gcattthtga	aacaathttt	acttcagaaa	catattggaa	290940
	atgtactgca	gaagcataaa	thtgtatgth	aatagagatc	atthtaaatag	thttctthctt	291000
30	taaatacaat	aaggcttccc	atthgatgat	gtctthtghth	thtgtgtgcct	atgatcatca	291060
	atatcathth	caataccgac	cctgtthtcag	tgcagacctc	gtagataatt	catgtthtghth	291120



ES 2 784 246 T3

	cccactacct	ccttctcact	gatactcatg	atgtgaatgt	ggtttttttc	tcccattatt	291180
	tcttttaacc	acttaataag	aaagttatta	atctctatat	gtttcatata	tagcaactgt	291240
	cctgagtttt	ttgatcattt	gaataaattt	gctcatttga	atctagcagg	tgtttcacgt	291300
	ataaggatat	atctctgcaa	atgatgacta	ttctgccatt	gttttctaata	ttttgtattt	291360
5	ctgttttggt	tgatagcatt	tacttgcaac	tgaggacca	ggtgaaataa	tagtgggtgat	291420
	aatgaaaacc	cttgtcttct	tcctgcctct	aatgagaata	attttaattc	ctccttgtaa	291480
	agcctgaggg	gagcgtttga	gtttgacata	ttaaattgtt	attcacacac	atgcatgtgt	291540
	ggataaagaa	gggacagtaa	tatctacctc	atgggggtgt	gtgaagatta	agagacataa	291600
	tgataggaaa	gcacttagaa	cagtgcctac	ctcgtagcaa	actctttaca	atgatgaatt	291660
10	tctatgttca	tatgcaagag	ctatccagct	gtttactctg	taaaaccgca	gccataaatg	291720
	ggtgagttaa	tacacacaag	acatttgtaa	tggttctctg	aacatagtaa	gggctcaaga	291780
	aatgtctaag	ccattaatat	actgcattat	taaggcattt	tgtcaagaac	tgatgctgat	291840
	ttttatcaaa	aggttatgct	gaggtttttc	tacttttgat	ccatcagtca	aatgaattgg	291900
	tctggaatat	tttctagtgt	taattcgttt	gctttcgtgg	aattagctcg	tcttgcactt	291960
15	acattaaatc	agctgccaga	gtttgcaact	atctcgttta	caaaattttt	aaattaatac	292020
	tgaaataaaa	atctgatctt	agtttttttt	agttgagctt	tagtaggaac	agttcgctaa	292080
	cttcacagaa	attattggaa	tcttttccta	aatagaaaaa	taatacaatg	caagagtata	292140
	aataaattat	atatgtatat	atctaataat	tggctcccta	agtatttaga	aatcaatat	292200
	cttccttaaa	gagtttagtga	aaatcccctg	tgaaacacc	tggcctgctt	attgtttttt	292260
20	gtcttatttt	attctttggt	agaagtagct	tttgacactt	ttaatgattt	taattatttt	292320
	actgcttta	tttgacagtt	taggtttcta	cctctttagg	ttccctgcct	catctggagt	292380
	tagttttaat	agtttatata	ttccataatg	agcatacatt	gtattctttt	cagtttattt	292440
	ctatggagtt	gaacaaagtg	atgtcttggt	aatacaatat	tttcatctgt	atcttcatta	292500
	ccttcctccc	ataaatttgt	attgttttat	ttcactttgc	ttttatttt	ttcattaact	292560
25	ttggttaaat	taggtaatgg	tttattttcc	cagagtttta	tgtatttttt	tcttttattt	292620
	ttaatttatc	agtattatct	ccttcattat	aacttatata	ttttgttttt	ccttttctctg	292680
	atttttttgg	atggggtggt	atggaaacca	gtagtttgca	ttcttttcta	tttactaagt	292740
	ataagactag	ccatgtttct	ctgaatattt	tcactgaacc	actgatttta	gttgacatact	292800
	attttatgct	aatttatttt	tgcattttct	gtaattttag	ttttaatttt	ctctttgatc	292860
30	aaaacttgct	tacaaaagag	ttttcattta	tcgattgggt	aattttttaa	tatttaaatt	292920
	ataaataagt	tttttattaa	catatctcac	ggcagataaa	tcagataatg	ttttctgtat	292980

ES 2 784 246 T3

	tattttctgct	tttaattggt	tttgcttaca	gtgcttttat	ttttgcaa	gtttcagaca	293040
	tccatgaaaa	gaatataat	tctatgattt	tagtettagt	ggttgctatg	tacatagtta	293100
	aatgtgcctt	aataattagt	ttaattataa	cgatcctaag	tgttttatta	attagttttt	293160
	ttttaagttt	ttttcttggt	ctatactaaa	tcactcacia	gctgtgaagg	atgaattgaa	293220
5	gtccccctct	actaaaagaa	ttctatttct	atgttggttt	cttgccatgt	tactcattcc	293280
	tctcttaggt	tatgttattg	tggttactga	ttttttttta	agtttaatat	tcaatttgga	293340
	ttatccttgc	ttgcttaata	tattgccttt	cttggtctca	tttaattctt	tatgtcctga	293400
	aatattttta	aaacaccttt	attgagatat	aattaatata	caaagaactg	tgcatattta	293460
	aagtatacaa	tttacaiaaa	aattaattaa	aggaattcaa	atagaaaata	aataaataaa	293520
10	attatacctg	tttgcaatg	tcatgattct	ataaccagaa	aactaaaaac	accacacatg	293580
	gacatgaaaa	gtgtttgaga	gaatacataa	atacagttaa	gttttggttt	acacagttaa	293640
	catataagaa	ttagtgacat	tacactaaca	acaagccatc	tgaaaaataa	attgagaaaa	293700
	caatcccatt	tatagtagca	taaaatagag	tcaaataactt	aaaagtaaac	caaagatata	293760
	aaatacttcc	atactgaaac	atacagaaca	ctgatgaaag	agattagagg	agacacaaac	293820
15	aaatggagaa	acaattttgt	gttaatggat	tggaagactt	aatattgtta	aaatgccccat	293880
	actactccaa	atattctaga	tattcaattc	tatctccacc	aatcccaaat	gctttatcta	293940
	tagcaaaaaga	aaacacaatt	ttaaaattta	tacggaacca	caaaagtcct	agaatagcca	294000
	aaacaatctt	tgggaaaacc	aataaagctg	gagacattac	acttctctgat	ttcagaatat	294060
	attacaaagc	tgcaagtatt	aaaacaatat	aatactggca	ttaggacaga	catttagatc	294120
20	aatggaagag	aatagaaagt	tacagaaata	aaccacata	tatatggcca	actgatcttt	294180
	gacaaggctg	ccgtcaatat	acagtgtctg	ggaaactaga	tatcaacatg	caaataaaaa	294240
	aatctgactt	tttaatattg	aaatgccctt	tctttttttg	tttcccttta	gaaacaaaaa	294300
	gattttctat	cattttcctt	tcaatctttc	ttaaacattt	tgcttatatt	ttttgaaaga	294360
	atatttgagt	tttgattttg	tgaccaatc	tttttattta	aactattaat	tgtcactgat	294420
25	tagcactttt	tcttctctgg	ttttagata	gttttgagtg	tgataacatt	atattaatta	294480
	aagctattct	ttctgatttt	ggagcattta	ttttgtttta	tcttttactg	tgctgtctgt	294540
	gatggttttg	ccaggggagt	ttgcatatac	tgagctaatt	attaccttta	tgacaatgag	294600
	tttgtatgta	tcacatttgt	ctctctttct	ttacacattt	tctaataat	acttgccaga	294660
	gataatagaa	aaacacatgt	caccactttg	cctgcttcta	cctttgaaac	tcttcatctc	294720
30	taaatttttag	atgattatgt	tttttctgta	tgtttaggct	tatgccctta	tgtactcaat	294780
	tattttattt	ctttaaagta	aattttttga	cccctggcta	taaaatatgg	ggaaatctca	294840

ES 2 784 246 T3

	taaaaatctta	caccttctct	ttcccatcat	actcccatta	gttatacaat	ttttatcgca	294900
	tcagagttta	taattttcac	atztatattg	aagacataat	gctgcatttg	tttcagcttt	294960
	tattcttgag	ttaaattggca	tcaaccctca	gcactggccc	ttcatgacaa	tttctccaac	295020
	catctctctt	tttttttggt	caagtttatt	ccatcattgt	ttccttaaga	aggcgtcatt	295080
5	taaaaatattt	tctctgttct	tggaaattct	aaacaatgca	acaatgtgtg	tctgtcattt	295140
	tcatttctcaa	actaetatat	gccttgtata	aaattcttgg	gacacttctg	ctcactaagg	295200
	aatttaggca	ctcttctagt	gttttccagc	agtgctgcaa	aagttagatt	aaaatattct	295260
	ttatttaatt	taatgttcag	taactttatt	aggatatgtt	tcagggttaa	tcattatgtg	295320
	tcatgttttc	caggtctcaa	tatacttagt	gatatctaaa	aacaagattt	tttaatatct	295380
10	gagaaaaaca	ttgaattaca	ccttaatttc	ctttgtttct	tttctcctct	tcagaaataa	295440
	etatttteet	teaaaaaeaa	gtattaeaa	aatetgtett	etatagetat	tattataatt	295500
	teagtteaga	teatatettt	teagttettt	tatageatat	tttteetttt	gettatttte	295560
	ttttattaat	taattaatta	attttttttg	aeagagtett	getetgteaa	eeaggetgga	295620
	gtgeagtgge	teaattettg	ettaetgeaa	eetetgeete	eeeagtteaa	gtgattetea	295680
15	tgeeteagee	teeegaaeee	etgggaataa	ggeaggtgtg	tgeeeeeeag	eeeggetaat	295740
	attttgggtt	tttagttgag	atgggatttt	getatgttgg	eeaggetggt	ettgaaetee	295800
	tggeeteaag	tgatgeaaee	atetetgeet	eeeeeagtge	tgggattaga	ggeatgagae	295860
	aetgeageag	geeatttatt	ttettttttt	tagaaaeaaa	gteteatttt	gteaeeggga	295920
	etggagtaea	gtggeggtgat	eatagteeae	tgeageetga	gateaagtga	teetgteae	295980
20	ttggeetteg	aaaataetag	aaetaeagge	atgageeate	tttgettaet	tttettaate	296040
	eegtgeteea	tatageatee	tetgttttte	tgtaaegtgt	attteeeete	atattgttte	296100
	eaaggttaee	tttatttttg	eattttgtat	tgatettatt	tttattteae	ettttttttg	296160
	gttetgeee	teatatttea	agteettggt	tegetteae	attteetee	ttaaattgtg	296220
	tttgteaget	ttgaeteatt	ggtttttttt	gggagattae	teeattgatg	tttttetttt	296280
25	teettttatt	ttatggtaat	ggeaaeagtt	tttatetatt	eaatgggaae	attttttggg	296340
	ggaagtgtgt	gtgtgtgtaa	attataatat	atttttatag	aeaaagtget	aatttttttt	296400
	tttteatttt	gaateagggtg	attttttagte	aggetaaeag	atttttatte	tetatgeaag	296460
	ggagteetta	gttaaetgag	taatattgget	gtaggeteat	eaateeteaet	gtgtteteae	296520
	teeeeeaeaa	eettaeaeaa	aggeggett	etgtaggte	aagttgagt	tatgetgeet	296580
30	eeatatgeeee	taeeteetgt	gettattgtt	ggtaeaeaaa	aggttteetg	gaagetetea	296640
	ettteatttet	eattetttea	aaatgagett	tttaagtgtg	geteetgaae	gtgggteaatt	296700

ES 2 784 246 T3

	gaetttgtet	tetaaaaaga	tgtgetttet	aeagaetetg	gaeeaeetgg	gtggeegtga	296760
	eageaettte	atettgttet	teaetgaatt	aeatatettg	tgttttetag	ttttatgaaa	296820
	aagtggettt	aeaetgttge	ttteattttt	tttetattgt	ttetatatea	tatetgtgag	296880
	agaattaggg	aaaaetgaet	ttagagtttt	aaaateaggt	ggeetgttat	tettgtaaet	296940
5	atgttaeegt	aateatattt	eaaaaaattg	geattteea	aatgataatt	aaaaaatat	297000
	ttttteeatg	aatttageaa	tgtaataget	teatggagat	ttggaggeaa	taagtggete	297060
	aettetttga	aaaettaeet	taeaeettgt	eatgtgtagt	gtgeeaattt	ttataagagt	297120
	gggagaaa	ateaaetgea	aataaataaa	aagaataaag	agaagaeate	aggtaateat	297180
	gaaaeaeete	etaeaaett	tataaaatta	ateaggaaag	aaggaaggae	aagaaeaaa	297240
10	aetgaaeaea	gettgeagea	eatteageat	tgateaeag	gteagetget	eteegaeta	297300
	etteeteata	gttgttteat	geetettgee	teagaateae	atagaeaatg	ttaeaagatt	297360
	atagttctta	actgctctac	agataacaac	ttgaacatta	tgagatggta	agttttctat	297420
	ttgagatatt	cttgcatgtc	ctgcatactg	atgaaactac	tgacattagc	tggtctgaag	297480
	gacccacaa	gaagctgacc	aaggaatgca	gtttacatat	tctgataatt	ttatctccct	297540
15	tacccaacc	aatcaatgat	ctgaattctc	cagcccttca	ttatccatga	acccttttaa	297600
	aaactccagc	tacaaactcc	ttggggagat	ggatttgagg	gtcttctccc	atctctttgc	297660
	ttggtgcct	gtgaccatta	aactctttct	ccgctgcaaa	cccttctggg	tcagtataat	297720
	tggtttgtta	ctgcatatcg	gacatatgaa	cttgttgatc	ctgtaagaaa	ttatggcaag	297780
	cctagtcagg	agcagtttgt	gggcatttgc	ctaaggctca	gtgttctgtc	attattggga	297840
20	tggaccagc	gataagccca	aatggccact	tagctccagt	gaactagact	gtctctgctg	297900
	ccttgcctat	caatggggca	cataagtcac	ttgtgcatag	aaacagtttc	tggttgtgaa	297960
	aaacattggt	ggtaagtttt	atgtgtgcaa	ctggcacc	ctttgtcttc	tccctatttc	298020
	ctggcctcct	tggatgtctt	gtgacctctc	ctgaggtctt	gtgaactcct	tggatgttct	298080
	gatgtctcat	gtctcttctg	atgtcttgtg	gcctccttgg	aggtcttgtg	gattctcctg	298140
25	ggtttttgac	gaccctcttt	agtaatagga	agggccttat	ttgagggaat	ttctcttaaa	298200
	ttaaaaggat	taaaaagggc	agtgcttggg	agaaatactc	ttgatttctg	aaatttggaa	298260
	attgagtttg	gaagtccttt	tgtttgtctt	tgtcctgtta	tgtatgtttg	tatgtgaaag	298320
	agatccctga	aagaattggt	agtgaagctc	ggcaggccta	actcggggtt	accatccact	298380
	tttccacttt	gcctcaagac	cacctgctga	actcctgggt	ggaggtcatt	ccccccgacc	298440
30	ttgagtaggt	caaaggtgcc	aaggctagct	gaggcaaatg	tgagccttgc	taggtcacc	298500
	atgggtacta	agtagagtga	ttagtgtgta	cattttgttg	tgcatgcatt	atntagcca	298560

ES 2 784 246 T3

	gaatgaaaaa	tgttcatttg	gtttctccaa	gcagcccacc	gggctttatg	caaaattggg	298620
	aagacaagag	agatctttat	taggtagtgc	aataggtaac	ttacccta	agggcacgaa	298680
	ctcctgtgaa	aaaactatgg	aaaagtgcaa	aggcatgcca	ggttttctag	gattccagtt	298740
	ggttataaac	catggctcag	tcttgtgcac	atltgaaatt	gatgggcaaa	ttacagtaaa	298800
5	gtaaaaattc	agagctcaaa	tgagtttatc	tgaaaacata	aaattaaaag	ttctctgtct	298860
	gtctttatth	tcttttctgc	ctgctttgta	tctttcataa	accactgagt	ttgtattgct	298920
	atctcatgac	tagaatttca	aagcaaaacc	tatagcatct	ttgtattgct	tgtatgtgca	298980
	tttagataaa	tttatatgta	tgcacatgta	ttgtgttata	tatcatgttc	atatggtact	299040
	aaactggctt	ataattaaaa	gaacactcat	aaataaagtt	caaataatth	tcaagttcat	299100
10	gtgacttaaa	tcattaatta	aaaagctggc	tttaaaatta	ttgataaaat	aaaaatagaa	299160
	atgtctccag	aattgtcagc	atatatthth	gtctgggctt	actgatgatt	ttatatgttc	299220
	ctcttctaga	tattttaagg	tatcagatth	tggcacaag	gttataagac	tataaaccca	299280
	tccaaaaaca	gaatggctt	cgttgggtga	atththtgac	aaataagact	aatttaatgt	299340
	thththgttca	atgaaaacag	ctaaatcatc	taagttattg	gcaaaagtac	tcataagthh	299400
15	aagthhctta	cttaggtgaa	ctaacacagg	ctataaaaat	gtcaaacaga	aataaattta	299460
	aatgatgact	agctthgtct	aatatctcag	ttatcataac	taatctagat	aaactgctaa	299520
	aaataaatga	gtaaatatga	atgggctaaa	tacttaaaagg	taaactthth	gthhgtthta	299580
	aatcttaaaa	ttatthtgaa	tgcttggttag	atatctgggt	aatthhctagt	taagaaacag	299640
	ttacgatata	gggaaacaag	thhctaaaca	thhgttaaatc	atthcaacta	taaaacacta	299700
20	acatctaaca	aacagthcag	gattthcttgc	thhctaggth	thhactaaaa	cttaaggthta	299760
	cctgaaataa	gattthctagt	aaatatatag	thhctgcatgt	aaaactgtgtc	aaaaaagatg	299820
	tgtthhctcat	tagaaaaaaa	atthaaaaaa	tataaagthh	ggthhthhth	aagaaaaaga	299880
	ataatthhgt	ctaattcaga	agthhctctga	agattgattc	aaattatgaa	cttgaaaaga	299940
	thhctgaaaca	aggtaaaaag	gccagthaagt	agaggagaaa	tatgtaaaaa	caattacaaa	300000
25	tataaaaaata	tatthhthcat	aaggagggtt	ataaaaaaca	agataaact	thhctatgaa	300060
	aaaaatthth	gtgtgatata	thhthgttct	aaaaaaaat	gactagthh	thhctaaaaa	300120
	aaagaaagth	cagacatgtc	atagatggcc	tgtataagth	gtgacaagac	tcatgaaagg	300180
	gaatthtatga	aagaaattta	gtatthgatt	aggthgacta	taattgaaaa	tattatthcat	300240
	aatagthcctt	ctaaagattg	gthhctctct	gataaaaca	gattthcctta	aggthtgaat	300300
30	thhctctaaa	taaaattaca	agaggthggct	gggcacagth	gthhctcctt	gthhctccag	300360
	cactthggga	ggctgaggcg	ggaggatcac	gagthcagga	gthhctcaggc	atctthggcta	300420

ES 2 784 246 T3

	acatggtgaa	accccgtctc	tactaaaaaat	acaaaaaaca	aaaaaaaaaat	tagccaggcg	300480
	cgatggcggg	tgccctgcagt	cccagctact	cgggaggctg	aggcaggaga	atggcgtcaa	300540
	cccgggaggc	ggagcttgca	gtgagccgag	attgcaccac	tgcagtccag	cctggacgaa	300600
	agagcaagac	tccgtctcaa	aaaaaaaaaaa	aaaaaaaaaaa	aaaaattaca	agaggtttac	300660
5	cttttaattg	tgttacctgt	ttcattttga	aaactcagat	ttatatctca	gaagttcgac	300720
	gtttgctggt	tctcattggt	ttcacccctt	tctccctttg	agaaggccag	agatgaaaac	300780
	tctcttcttc	atttttat	tattttactt	tattttat	atttttat	atttttat	300840
	atttttat	atattttatt	ttattgccag	ctcctgtaac	attctgtctc	tgtttttcac	300900
	tttactgcta	tggcctgaca	ataaaatatt	tatcttaaag	ctctagaaaa	gcaatgtttt	300960
10	tctttagaat	aatttgattc	tgtatacttg	acttttcttg	ctatgtctgg	atttttccat	301020
	gtaacagaaa	acttctcaag	gtgttactag	gagtcatgca	ttactagttt	tctagttttt	301080
	tgtttctct	ataatataat	ttataacat	aatcctggac	acattcttcc	tgtattggat	301140
	tgattcaagt	gcccttttca	tcagggttga	ctttaaggtt	ctctaaatgg	gtttcccata	301200
	aggagaagca	atcacacttc	actctgcag	tggttttct	tggtgttttt	gataacaggc	301260
15	ctaagaagca	agattttata	ttttatcaat	ataattccta	tgttgtagt	tttttgatta	301320
	cttaggaaca	ttcagcttta	agaaggaaag	tttttacttc	tgtataactt	tctgtagtgc	301380
	ttttaaagtc	ttgattatca	ctttgggttaa	attaataact	attattttac	aatgacctgt	301440
	gattctgttt	tgatcaaagt	ttttggcctt	ttaacatctt	tgatatacat	cctcaaaatc	301500
	aaattctaaa	ttaagtctct	gacttagact	tattgctgat	acttatcaaa	gctgtaaaaa	301560
20	ctgatccctg	caagatttta	gcatcttttt	acagcttcca	gtcaaaccat	gaactccagc	301620
	atcaccaact	ccagcctgat	aattacatgt	actgaaagag	atatccattg	aaagactccc	301680
	tcgaccccc	ctttaaagg	actttcatca	ggtgctatta	attaatcctt	gtactgttaa	301740
	gttaaagggt	tttgattcct	gggtgcacat	atctcatctg	aaaaggcac	caactcctac	301800
	taattcttaa	aatattgata	ctattatctg	acaccatact	caggttaaca	aaagccttgt	301860
25	cttcagaccc	agaagaaag	tagcatgaaa	atgatctgct	tttgtgagac	ataagactag	301920
	aaattaaaac	tattcaatct	ctctaggctc	agtgactact	gcaggagaga	tgggcatgtg	301980
	agattgtaag	ggcctgtttt	gagggataca	attagttcag	atgctccaaa	tcaaggatgg	302040
	cacagagtta	cctaaacagc	caacaagttg	aggaattttg	ccactctgaa	ttccttaact	302100
	caaaagggtt	taaccaaatg	cttatgtttc	gtattgctaa	atggctacaa	gtcagtatct	302160
30	aagaccagaa	ttcatttcta	taaccttact	ttttggctct	tatatgctga	aaaggttttt	302220
	taagcattat	tgagtgtctg	cccacttcca	ttcccatctg	gcccagaatg	tttaattgac	302280

## ES 2 784 246 T3

	tacatgtctt	ttgactgaaa	gtcatttggc	cataggggtc	tcaccaaggg	acaagatgga	302340
	cccaaagcag	gtgaccacac	caacctgaca	atgatatggc	acaaaataaa	aagctttgca	302400
	atccatgctg	cttctggcat	atcttgacca	aaaatactga	accagaact	ttttggggaa	302460
	atagatttga	gagtctcctc	ccatctcttc	acttggcacc	ctatgatcac	ggaactcttt	302520
5	cctgctgcaa	atcctgctaa	ctcagtgtaa	ttgatcagtg	ggcaaacaaa	cctgttggtc	302580
	ctataatagt	caaagtcctg	tgatgcaaat	aaaccttaat	ggagagacag	ggttagtttg	302640
	tgtttgggtg	ttaaagaggt	tgtcatcaaa	gagtgagtaa	ttaagatggg	cattgaatgc	302700
	taagagagag	gcatttatgt	gcagttgttg	gggaggaaca	ttctaaaaat	aaggcccagc	302760
	aagtgcaaag	tcccaacttt	ggaaagataa	aagctacttg	ttttatggga	taaaagaaaa	302820
10	ggaaaaaaaaat	acacataatg	agagagatct	gcaggaacca	ggtagagtca	agttgtgtag	302880
	gcctgagtca	aggacttggg	cttcattaaa	gatttttgag	aaaagaaaaa	cacttcttac	302940
	aatgaaatca	gatgacttca	actgatattc	ttaatgatat	actgtatata	aaaatataga	303000
	cattcttgat	tggtcaggta	ctaataaaaat	gttttccaca	catacagttt	tgtgaatttc	303060
	agttacaact	gaaaacctgt	ggattcccct	gacctcacgt	gctcttccat	ctagagagtc	303120
15	tgaattgtaa	aggagaggtc	caaaaccagc	attgatgaag	acctaaatga	cctatcactc	303180
	atgaaggctt	aggctctattg	tcaaaggctg	acactctagc	ctgatggagt	gcttccttga	303240
	aacaggttct	tacaaacatt	gtctgattta	attttcacaa	caatccattt	gaaatagggt	303300
	taaattgctt	ctattttaca	gttgaagaaa	cacactttaa	aaggtttaag	gaattttctt	303360
	gaggttactc	agctagtaag	tggtagagac	caaaaaaaga	acttgggtct	gttcattgcc	303420
20	cagcctgggc	tctcccgcaa	agcctgccac	ccacaaggct	tgagatggag	agaatctggg	303480
	gtaggaaata	cctttctggt	tttttcaaaa	ccactccctg	ttggcagaac	tctccttaag	303540
	ctacgcaaga	gggttgtccg	gttaagccat	ttatctttct	ctatcagaga	gcaggctctc	303600
	ttttctcata	gctgtgtagt	cttagcagtc	agaattgata	acagctgctg	gacacctgag	303660
	ctgtattatt	ttgccaggag	ataacagagt	gaatgacttg	tagcagactc	agaacactga	303720
25	tgagttcaag	gccacagta	gagattgtga	aatgtaattc	ccagataatt	caaggggaag	303780
	agaagctaaa	caaatctcgg	tttactctt	cgaatttgta	ctctgagaac	aaattgagaa	303840
	atctgagaag	aaaagtcgtc	atatttgaag	tgcttcagag	aaatttttgt	cttctttttc	303900
	ctttactctt	tggggcttga	ataccaacaa	gactcatttt	tgaaattaga	atctctcttc	303960
	catagggagt	gagatttaac	ttaagataaa	atctgatgct	tccttcagag	agagcaaatg	304020
30	tcttagatac	aggctcagga	agcttttgct	ggccactcat	gtgcatggat	ctcattcttc	304080
	tgctttgcct	ttttagtaaa	tgggtggcgg	gaatgtaggg	gttttttgat	aattgaaacg	304140

ES 2 784 246 T3

	aggtgtttcc	tttcttgcaa	agtgctaaat	gcattaagta	cttttgcaaa	ggagatagta	304200
	cgtgcctcaa	tttagacaga	aattttactt	taaagaagtt	aattcgtgat	gaaatgaggg	304260
	tctatcatgt	gccatgtggt	gaaacttagg	gatgagtcag	atgctggtcc	tgctctcacc	304320
	aggttcacct	tcaccttggg	agacagacgt	gtagccaagt	aactccagtg	tgcaatgagt	304380
5	gaggctccat	acactttctt	gaatttttag	gagtcccctc	ctatctttca	tcattactcc	304440
	atcttgtag	aaaggaggca	tagctgaata	tcattttaga	agagagactt	gccagtggat	304500
	gtatgacgat	ttatatggag	ttactaaggg	gttcttagtg	ggcttttgag	acagatctga	304560
	aggtaaattc	taatgcttct	gcttcttgtc	cctggcacct	tgcatatagt	tcataattga	304620
	ctcctcaggg	agatgagaag	ggattaaagg	gaagaacaca	gactttgtga	ctagttccag	304680
10	cacagtagcc	gccagtactc	ttagttatgt	ggctgtctag	aactgacttt	gcttattaca	304740
	tcaggcactt	ctgtgacttt	ctcagggacc	ccatactagg	aaattccagt	ggcaggtcct	304800
	gtgatatggg	tgatgttttc	tcctagaagg	ccacataatg	attctgtacc	ccaaccctg	304860
	ctataacca	ttctgaagtg	gccccattct	aagagcctca	ccaggtagct	cttacaggtg	304920
	aagttcattt	ggacttgcat	caaagctgga	actttcctac	atgcctcaca	tcaggttcac	304980
15	ccttttcacg	gctgttagta	gaagtcaatt	taagtcttaa	tccaaccctt	tatctctctg	305040
	tcatgtcatg	ggcagtcaat	agttacagtc	taaattttgc	agtttttagc	tcactgggta	305100
	ataaagacat	cacattaggc	tgggtgcaat	ggctcatgcc	tgtaatccca	gcactttggg	305160
	aggccgaggt	gggtggatca	cctgaggtca	ggagttcgag	accagactga	ccgacatgga	305220
	gaaaccctgt	ctctactaaa	aaaaaaaaaa	aaaaaaaaat	atatatatat	atataaatta	305280
20	gctgggtgtg	gtggctcatg	cccataatcc	tagctacttg	ggaggctgag	gcaggagaat	305340
	ggcttgaacc	tgggaagtgg	aggttgcggt	gagccgagat	cgtgccattg	cactcctgcc	305400
	tgggcaacaa	gagtgaaact	ctatctcaaa	aaaaaaaaaa	aaaaaaaaat	gacatcacat	305460
	cagatgtaaa	agactcaaga	cacattcaat	atgtgtagga	tcacaaaaca	aacacaacaa	305520
	caataacaac	aacagcaaaa	tacagagtct	attaaagaca	aaacagcaga	aacaaagtga	305580
25	aaaatacata	catatgcagt	atggaaaaga	tcaatgaaaa	gcccagagag	taataaatat	305640
	tattttccag	gcagttttgg	ctccacagga	catgcatcaa	tgtccggaga	tgtttttggt	305700
	tgtcacaact	gaaagggaat	ttgctcctgg	tatctaatag	gtaaaagcca	gagatgctgc	305760
	taaacatcta	atacacagga	cacatctccc	atccacctac	tcaccaccc	acaacaata	305820
	attaccctga	cccaaatgtc	aatcatgctt	aggggaaaaa	ccctagtgta	gaggaattta	305880
30	ataagaacat	gagtgaataa	aacaatgcaa	taataaatg	acaaaacaag	agaacgaaga	305940
	acgggtaata	gggagataag	gaggaacatt	aagaatccct	acaataacat	tgctagaata	306000



ES 2 784 246 T3

aaatagacct ggttgaaaaa cagatgccta ctttcatcat tttatTTTTat ttgagacaga 306060  
 gtctcactct gtctctcagg ctggagtgtct gtgggtgctat tctagctcac tgcagcctca 306120  
 acctcctggt ctcaaatgat tttttatTTTt taaggTTTgga tgtgattgga catgatcgca 306180  
 cattgatttt cccacctgca tcaccaccac taactTgga acatgagtct tgtcattTTTT 306240  
 5 ctcaaggact cacttctaca aatttctgag tgaggccttg ggaacaaatc cagtccctca 306300  
 ggacactagg tctgggacct ccaaactttc cctgactctc taacaagtca agggaaaaaa 306360  
 ataatacaat attaaggggt aaactacttt tcattcccaa taggaaatgt tattTTTTctc 306420  
 atcttTgtgc tattgggggt ttgagcacca gcaagggaca ctttaataagt tgtagatgca 306480  
 tcatgtgaag gggcagtaat aattatttca tctgaaataa accagagtgg gcatgtgtct 306540  
 10 gctcatagat ggaaaagtat gcattttgca cttgggtaac agttggcaac tctgactaga 306600  
 aaacTTTTt tgactatggc aagcatcctt cttactTgga ggaaaaattt atgcaaaaga 306660  
 cctggcaaag ttctTggaac atatagtTg cctgatcaat gaacatatta ctttctcacc 306720  
 ttaaacaagt ttactgtatt tcattattta agaaaaagcg ggccgggtgc aatggctcac 306780  
 gcctgtaatc ccagcacttt gggaggccaa gttgggCGga tcaactaagg tcaggagtTc 306840  
 aagaccagtt tggccaacat ggtgaaacct cgctctact aaaaatacaa aaattagttg 306900  
 ggtgtggTgg cacacacctg taactTgga ggctgaggca tgagaatcac ttgaaactTg 306960  
 gaggtggagg ttgcagtgag ccaagatcac accactcact gcactccagc ctgggctaca 307020  
 gagtgagacg ccatattcaa aaaaaaaaaa aaaaaaaaaa aaagagagag agaaagaaaa 307080  
 15 gactcatatt caaatctTgt cttacttaat atactTTTTc taagtgtaca ctcaactcct 307140  
 aactctttaa taagactaga tctctttaa gaagataaac aaacagcaaa gcaatatgta 307200  
 tgcaTtaat cctcaggaaa ggataagata ggaagtaaat ggaaatgata tcttgaagca 307260  
 aatccttctt agactccttc gctgcctctc agaagaatgc taaagtTgga cattTTTTct 307320  
 20 gatcacactt aatttatatt gcatcactat tggtgtagcc attcttTaat tgaatttatt 307380  
 tagtctcttc ttctTgcaTt ttgataggcg aaaataatac agcggggacc aaactgcagt 307440  
 tgTTTTattca aggcacttaa ggggcaaata agttgataat tatagtattg tttgataatg 307500  
 ataaattatg cttaatgaaa aatgcaaatt aagtataatg ataaattatg cttaaataca 307560  
 gatgagcaca tagggagagt tcccacaaat tattgggcca cagaaactaa cattttccgg 307620  
 25 agaaatatac atcttTgtgga ggcctgaagg gtgaaatagga gttgtcagga ggcaaaagag 307680  
 gaaaaacca tggagaggaa ggattaacat gttcaaaagt ccagcagtaa gtaagagcat 307740  
 agtacggctt tccagtTtt ctttatgcaa atgtaaacag atacacatat acccttctta 307800  
 cctactcaaa agatagtgaa ctatgcacac tcctTTTTagc cttgcttTat tcaaataaca 307860

ES 2 784 246 T3

atatattttg cagaccttcc catgtaggta cttaaccttc cagctgctta tgattttaat 307920  
 gagtacagcg gaattaaacc agactcaact gatggctcact tggatgattt cttgcaataa 307980  
 tcttgcaaaa atgttgctat gaataaaatt gaaatagttt cctagcttgt catttgtcctt 308040  
 ttacatatgt tttggggcct aggcataaag gtgtttatct atacatagta aaaaaaact 308100  
 5 ttattttatg gcttgaaatg cctcatttct tagatataaa attccttataa tatctgaatc 308160  
 tatttctaaa ctttcttctt catttccttc gtttgacttt ctattcattt gccagcacta 308220  
 caagggtgaaa ttcttgagtg tttatagtat atttaatatc ttttaaggct atatctcctt 308280  
 attgcctttt tacttttagt gttattatgg tcatattggt catttttttt acataagatt 308340  
 tagaatcagc atatctaact ctgaagtaaa tcctgattat tttcaatggc ttaatgttaa 308400  
 10 tttatattac agagagagaa ttgacatctt tatgagactg agtcattctt ttgaaaacat 308460  
 gttatatatt tctacttctc atgtctatct ttgtgttctt tgaggacttc taaaaaagtt 308520  
 tctgcataaa gttgttcttt gcacatatct tgttatgttt attcctatgc ttgtttttgt 308580  
 ctcttattaa aagtgaagtc ttctttttca ttatgtctcc ttttagattt tttttttaat 308640  
 atgagggcca ttgattcttc tttattagtt ctatatcctg ctatctcatt gtttttagta 308700  
 15 gttgttaaaa tttttacaaa ctctctaagg cctggtgaaga cagttacatc atctacaaac 308760  
 tatgtgtgag ggtgttttaa cctccttctt accactttta aacgaatata ttttactctt 308820  
 ctgatacatt gctagtgcct ttagcagaaa agtttgataa taattgtgaa agctgagaga 308880  
 gtgtcttggt cttgacttta ataattgact atgtcacaaa gtatgtccct gcattaatct 308940  
 agatttgtgt atgtgtgtgt gtgtatacac aagcagtcac atgtaagtat gtatgtaatc 309000  
 20 attcatttcc atcatgttgc atttgttgtt gttgttgttg gatgaagaat gtagctgaaa 309060  
 gttgtcaagt acctttcaat ttctgtagag atgctcatat aatttctata attaagtaaa 309120  
 ataacataat taattatatt aatatatttg ttaatagtga atcattcttg aattcttagc 309180  
 atgaggttac ataaaagaga tgagtcttgc agttttgttt ttctgcaatc attatttttg 309240  
 gaatcaatat ttcgtcatta caataattca gaaatggccc ttttgcctc taatctctgg 309300  
 25 aacagtttaa ctagtatggg aattgtggtt tgttcagtag gattctccta tgaaacatg 309360  
 tatttttgat attaccttag cagtacacca ttgtcagagt tttctccatt tttcgtggaa 309420  
 attaactat tttcgttctt attcctatga agtcagattt tggtaaataa tattttgtca 309480  
 aatagttta catttcattt agttttctat ttatttgctt tgagtttacc aaaacgaaac 309540  
 tttctaactt aaaaaaaaaag ttgttatctt tatatcagtg attgttttcc ccttatcata 309600  
 30 accgtgtttg tttcttttct gttttttctc tttttttctc aggtaattta atcttttatc 309660  
 aattttggag ttcttcaaag aagtaatttg tttatttatt gctgaatttt agcttgaagt 309720

ES 2 784 246 T3

	attcctttctt	ttcctttcca	ttaattgggt	atTTTTcaac	cttttgttct	aatTTTTagt	309780
	ttgatgctta	atttgtaac	ttttattatt	ttttgtatat	tttatgaaga	tttaaaacaa	309840
	tatttcactt	gagtatttgt	tttgctgcat	cttgattctg	aactatagtg	ttttcactat	309900
	tactgttttc	cagaaatTTT	gcaattttga	tttgtatttc	tctttttacc	taaaagttgc	309960
5	tgataacaga	ctaagTTTT	catgacgatc	aatatttagg	tttatatgta	taatataaac	310020
	atcaggatTT	taaacacatg	agaaaactta	ctctctgcat	agcagagaat	aatcagagg	310080
	ggaccaggct	gtagaacctt	ctttgtatgt	gaaatatgct	tatgttcaaa	gataaagttt	310140
	aggttgcctg	agattgagca	gtagtttggg	caacaacaat	aaaacaagca	gatggatttg	310200
	agatatataa	agggagtata	ataaactTTT	catggtgatt	cattaaaagt	gctacctgaa	310260
10	gctgaggaaa	gagttaaggc	caacaaagtt	cagacatggg	caactccatg	ggtggtagag	310320
	ctacttactg	aggcaggaac	tgatggacca	agaacaggtt	tggaaagaaa	gacatgaaga	310380
	ggtgtgagag	tttgattttt	agatcctgag	aagcatacaa	gcaatggtgt	tatcaaagca	310440
	gttggatata	taaaagactg	tatggtgaga	gacaaattgt	gaagtcatta	gtactgaggt	310500
	gataatttca	tatatagaaa	cagctgatgg	aagaagtTTa	aagtaacaag	aaaaaaagca	310560
	ttgaaaaggg	aatcctgagt	gctccaggca	tttatgggac	aagcagaaga	agggtaatct	310620
	ttgatagatg	atgagaagga	gccagtctgt	catcccactg	aattgtggct	gccttgagga	310680
	aaacatagaa	tctgaattat	ggaagactgc	tgaaaaagta	ttaattgcac	ataaatgaat	310740
	gcatgggcaa	agcaatTTTc	caaaaactgat	acagattatt	aaaactatta	tactcattta	310800
	attctagaaa	actgcatcat	gaaataagtg	gtggttgagc	tggcacttct	aggaatggac	310860
	aaacctctgt	gtagaaccca	tggtccatc	actggagtcc	gtattcagca	gtaaaacagc	310920
	ctctctcagt	catgcttctg	gtgagttaca	cccagccagc	aggatcatct	tgacagctag	310980
	ctattttaact	aagttatcag	taagcaggta	atagtccttc	agttcagtca	aaacagtcaa	311040
	attagttgta	cctgtagaca	tagcctttct	ttgccaacat	ttatgacacg	gacaggaatg	311100
15	aattagggaaa	tagaacaata	gctccctgta	tgtgaaagat	gtgtcgtctg	tctaaagaga	311160
	aaacacattg	tgtttattga	gtgggaattg	tcatggaagc	tttgcatagc	tttaaaaaaa	311220
	aaaacacaat	atgctaactt	cattccagtg	attgaagcac	acaatTTTgg	aaggTTTTat	311280
	ggaaagaaaag	aggaaaaata	aatagagaag	ctgaagtccg	aaataaatgt	gtgagtcagc	311340
20	cctcatccaa	atacaattat	taccttcagc	ctttgccctg	ttttgTTTga	cctaggaaaa	311400
	tatattcaat	gggatttcaa	agaaaaatca	aataatTTTt	ttttcaaaaca	ctgtggcaaa	311460
	aacctatctg	gccaaaattt	tacataattg	catttctcaat	gcaacccaaa	tacatatttt	311520
	taaaaagcg	gccagggtgca	gtggctttca	catgtaatcc	taacactTTg	ggaggccaag	311580

ES 2 784 246 T3

gcgggcagat catgagctca agagatcaag accatcctgg ccaacatggt gaaaccccgt 311640  
 ctctactaaa tatacaaaaa gtagctgggc atgggtggtg gcgcctgtag tcccagctac 311700  
 ttgggaggct gaggcgggag aatcatttga ccctggagac gcaggttgca gtgaactgaa 311760  
 atcgcgccgc tgcactccag cctggctaca gagtgaccct ctgtctcaaa aaaaaaaaaa 311820  
 5 aaagaagcaa aaaaaaaaaa aaaaagaaaa caatcgatta tatacacaca atgctgtggt 311880  
 cttaggaatc cactgtccta ttctctgtca gtgaaaataa aaacacaaac acaaaagcac 311940  
 tctaccatt taaagctgcc tgattatttc ccctctgaca aactgctgcc cctttgagat 312000  
 agctgttaaa tctcatggcc tttatctttt gacattttat catattttgc ctaaggagat 312060  
 ttatagaatt gtgctatgat tttgtgcat gctttaactg taatgttgtg ctgtggtttg 312120  
 10 gctccaacac ttgatttctt cctatgtctc ttctatgcat gaactcaggc tgttctgcac 312180  
 attaaaaggg cccagttatt tattggatga gtaactggtg ctttcttctt ctccctcctc 312240  
 tctctcttcc ttcccgcctt actttctgta tacttatctc taaacaaatg gtttatggat 312300  
 ctctgcccac ccctctgcat gggtgacttc cacgggcagg gaccgtgcag tactttggtc 312360  
 ttctgcat gtttcccaat taaatctgtg actttttctt tcccttggtg ccatccaggg 312420  
 15 ctgcagtcag ttaactaaaa ttcaggacca gcgtgtggtg gactgcttcg tttatagaca 312480  
 tggggaattc aatctcaaag tacagtttca gttttaattg ctaatattaa gtggtttttg 312540  
 aatttcta atgagcctaa ttagagcaaa tgttttctt actaacaagt aattatagca 312600  
 ttccaaacac gtttacttta attaaacaaa actggttgac taattacgaa tggcaaggca 312660  
 ggacacagcg gatttctatc ttcaaggaac tccagcagac attcttgtgt gggtaactac 312720  
 acattaaagc tcacttttgg gtgctctcag ggcggctcct gatagtacca gttacgcaaa 312780  
 gcgaagttgt tcaactggag gctcagtgcc tcctccatgt aatagagaca tctccgtggg 312840  
 20 gttcttctca actcttttca aaatttcccc attgaacgaa aacaaattat gcctgagtgc 312900  
 atgtggtggt tgcctgaaac agctgtcaga atgtaaagag tttttaaaga ctcaagttta 312960  
 atttaaaaat tatataccat ttgcattata tgcaataata acctgtttta attctagttt 313020  
 ttaaagaaac attttctca acccctcaat cctcccaaag ataacaaca ttcaactgga 313080  
 gcttactgac ctctagcta tagttgtggt ttgagagcag gaatttcggc gactgaatgc 313140  
 25 aaaatccatt cttttaaagc tatggtatat gcctgtgggg tatactccaa agtatggatt 313200  
 ctgtttgccc atcagtattg tggatggcta tacttcagtt tcctcttatt gatgttacat 313260  
 attgaaactac tgctgaaatt tggaattaga ctctgaaatg ttactattgg cctttatgca 313320  
 gtatctggca actgtgaaaa cagataatta ggtatttgtt cacacttgtc tctttgaatg 313380  
 aagctgtcat tgtagtctga gtagggagtc acttaaagga aatgtactcc taacccttg 313440

ES 2 784 246 T3

aagaggccaa tcatggtaca caaaccacat gagtcaccaa agctgatatg gacacatcca 313500  
 tctgtatgtg cttgggtaaa aagttcatcc gggagagatg tgactgagga aagatgatca 313560  
 tgaaaagcag ttgtgagaga atgcttctgg ggaaaatgga tttctcaagt cctgaggcca 313620  
 ggttcacaac ttagtaagaa aaagagaata ttcacacaca ggaattgact tgcattgatgg 313680  
 5 cattgagcgg aactggttat ggtgtaggtc aacaagtagg aggaacaaaa tagtacggaa 313740  
 gatgaaaatc aaagatgaaa atggaagaga ggtagaacat agagcttaac agagcccagg 313800  
 cctaaaattt gaggtttgtac aaaaccatgc ctgagtgttt cattgtgtta cttaacacat 313860  
 gcccgccat gcattctatg agtatttcac tgcccttttt caggtgctgg tcatgtaggg 313920  
 ataattgacat attcataaac ggggtgtaata tgaggtaaga aacgacctgc cttataaaaag 313980  
 10 agaagcaggc aaatgcaata ggtgttcaga gatcccagcc tggccttgct tctcagcttc 314040  
 tttgcctgct caattctggt ctgtgactct cctcagagtg ggttcatgct gattgttttc 314100  
 actagtctctg cttcgccttt tcccttaaaa tccacatcac caactcagag tgttagaatc 314160  
 tttttttttt tttttttgag atggagtctg gctctgtcac ccaggctgga gtgctgtggg 314220  
 gcgaactctg ctactgcaa gctccgcctc ccagggtcac accattctcc tgccctcagcc 314280  
 15 tcccagtag ctgggactac aggtgcatgc caccatgcgt ggctaatttt ttgtattttt 314340  
 ggtagagacg gggtttcacc atgttagcca ggatggtcta gatcttctga cctcgtgatc 314400  
 ctcccacggt ggcctcccaa agtgcctggga ttacaggcgt gagccccttg tcaggcagtg 314460  
 ttggaatctt accccagtga aatacaatag tgacctatgg gccctgaaca ctacatgtg 314520  
 cttagcactg ttctaagggc tttttagata ttaatgaatc caatttgacc aagggtgaac 314580  
 20 agctactaca ccaaagagct agtatctgac ccaaagaggc tcatttccta gccgaagtct 314640  
 aaaaacaaac aaacaaacaa acaaaaactc catagtatct atttgatgcc tcctttgtta 314700  
 tcatgaagta tctctgattt atccatatgg aggggtctct gtctcctctg aactcacaaa 314760  
 gcattcttta tgctctcat caaatacctt tctcactatc attctacatt tggggagggg 314820  
 gctcttgga gtagactca tggagttttc attgttttaa atacattttg aacttttgaa 314880  
 25 gatgttttag cagaaaattt tagagtaata tcaataaata tttgtaatgg aatgattgat 314940  
 cctatatcta acatacaaag aaaatgccta aatagtctca gattctcatt ttaatgtttt 315000  
 ttaattttat atttttatat tttgttggg ccttggaaatg ataggactta gggatttttt 315060  
 tccttggtctg atcttgcttt gaaggcaaag ttataaaaat atactttgaa tgatttgtga 315120  
 ttaatttatt ttagtataac tttttcttt tcttttcttt ttttttttaa taaacagagg 315180  
 30 ctaagcaaat ctttgagat tttctctagt tccctcttag ttctcttctg tggctcctc 315240  
 caatgtccta gcgtttgcta tttacttggc tagagcctcc agtctggtat ctgatccagg 315300

ES 2 784 246 T3

	cctgcctttc	ctaaaaggcc	ctactatgct	tagctctttt	taaaaagcca	gcttttaaagc	315360
	ttttattagt	attctaacag	ataaatttat	acttaagtat	taataattgc	ccacttctca	315420
	ttattattat	tattgttgca	attgttatct	cagacagtta	ggaataatgt	ttggaatggc	315480
	aataatggta	ttctttagtt	agagatagta	ctcctgcttg	atacttaaag	tgccctcataa	315540
5	aattcaaagg	aatcagaca	tccaatttct	tacttttagtc	gatgtaacta	ttgttcactt	315600
	aaaacactca	tgagttcttt	tcatgagtcc	taactcagag	gaaacttcct	agagctcatt	315660
	aaaactttag	gctctgttta	ggtgacctat	aggctgtggt	ggcatataat	gattttgtct	315720
	tttgagctcc	aaagatatac	cattaatcta	atgttatcaa	gatttgaaaa	atggatttat	315780
	aaaaagtaaa	cacagctgag	cgcagtggct	cacacctata	atcccagcac	tttgggaggc	315840
10	caaggtgggt	ggatcatgag	gtcaggagtt	tgagaccagc	ctgtccaaca	tggtgaaacc	315900
	ccgtctctac	taaaaataga	aaaattagcc	gggggtgatg	gtggccgcct	gtaatctcag	315960
	ctacttgga	agctgaggca	gagaactgct	tgaaccagag	aggcagaggt	ttcagtgagc	316020
	tgagatcacg	cctctgcact	ccagcctggg	tgacagagcg	agactctgtc	tgaaaaaaaa	316080
	aaaaaaaaagt	aaccacaagg	gtattattct	cctgaagaat	cctttgcttt	ctgatatgat	316140
15	aacatttgct	tatcagaatt	cagtttctgg	tatgatggaa	taaattacaa	agtcactgga	316200
	caaattagag	ggtaaattct	taaaaatgtg	aattgcaagg	tgtagatttc	aagtagcaca	316260
	gaaccagat	gaatttcatc	cactacctgc	attataatca	ggaacagaaa	aatggagttt	316320
	actttaacac	tatgttactt	gagtgcaaaa	tcccagctcc	acaaaactct	gatgtcctga	316380
	aatttgttca	catgccttag	ttgagcta	tactagaatg	agtttgggca	agttactttc	316440
20	ccctcagcag	gcttcacttt	tcctcactgt	aaaatgaaag	tgtgggtctg	tgaatctctg	316500
	agatacttcc	gattttgtgc	attagtgatt	ccaagtgaga	tttccttcag	ctagcatgcc	316560
	attaaatgct	acatttttat	ttgctttctg	atttccctct	tttcatttat	gaaaagagct	316620
	cacaaaacct	ttttcctgtc	tatttgctct	tggaaaatta	tgggctcttg	gaagttttca	316680
	attdaaatta	tatttacttt	tcattctcac	tccgtcagag	gcatgtgcat	atgaaaatgt	316740
25	ttgtcttcca	tccataccct	actgactcat	taggaacaat	cagagtgagc	tgttcttttt	316800
	ccctgctaa	taataacaaa	ggaaccaa	atataatagat	gagattgtat	cttcaaagga	316860
	aatttacgtc	ggatttgata	tttattttca	caattatatt	ctgacgtaga	aagcgtcaac	316920
	accaatttcc	caaatgagaa	actctattat	agaattgaaa	tgggagctac	tctgcaaaac	316980
	ccctaggtgc	catgggtaca	atcaacctatg	gttatgtgcc	ttccccacag	ccatttacc	317040
30	ttaccctgtc	aaaagaaaa	ctgttgtttt	cctatgtact	caaaatactt	ctgacaccaa	317100
	acatgtgggt	tttctaacca	agcaattttc	catttctctg	tggacaccaa	ccgagtgttc	317160

ES 2 784 246 T3

	tacaatttaa	ctaaattctg	aaactaactc	cctggagtca	gtgtgggcct	acagtttaag	317220
	tgctcattcc	cacaaggctg	cccaccactt	cagataccaa	ttgcaaggcc	cagattgtta	317280
	cctgtaattc	tcataaactg	gctataaata	tgaggctcct	ctaaccctt	attgtttgat	317340
	agttggctat	aaacactcac	aaaacccaag	aaatggctta	tttaggttta	ctggcttact	317400
5	ataaaggata	cagacaaaca	atcaaacgaa	agagatgcac	agatcaagat	gtaggggtgca	317460
	gcacagagct	tttatccctc	tcccagtggtg	cactctctca	gcactgacgt	gttcatcaac	317520
	ctaggagccc	tctgaactcc	attgtttggg	ttttcttttg	aggtgtcatg	acataggcaa	317580
	gattggttaa	atcactggcc	ttgtgattga	gctcaatctc	cagccgctct	tcccttctctg	317640
	agggaggtta	gaggtggggc	tgaaaatttc	aatcctctga	ttacatggtt	ggttcctctg	317700
10	gcaaccacgc	ctcattttcc	aagagccatc	tcaatctcag	gtatgtttga	aaaggactta	317760
	ttatgaaaaa	caatagacgc	ttccctcaca	ctgatcactc	aggaaattcc	aagagtttta	317820
	ggaacttggtg	tcaggtacca	gggacaaaga	ccaaatatgt	atcttctatt	atgtcatacc	317880
	ttgcccgcac	acaccctcac	acacaaacac	acaattcaca	catgtacaga	atgaaaaggc	317940
	aaagagtaac	atctttatat	ctgtgtaagt	caattagttt	aggatgattg	caaaagttaa	318000
15	aacattccat	agaacaggaa	catagtgaaa	gctcaacaaa	tataataatt	gagcctgctt	318060
	tctcacctat	aaattatgat	agacactacc	ttgaaatggt	tgtaagaact	atacatgtaa	318120
	gattatthaa	tacttgatgc	ccagtggcgt	ctcaggggat	gatagcctct	ctttctcttt	318180
	ctctttctct	ttctctccct	tcccttccct	tcccttccct	tcccttccct	tcccttccct	318240
	tcccttcccc	tcccctcccc	tcccctcccc	tcccctcccc	tcccctcccc	tcccctcccc	318300
	tcccctcccc	tcccctcccc	ttcctttcct	ttcctttcct	tctttcagca	attccaaact	318360
	tgcagactgt	taggaacttt	ggataatttc	tccatctcga	aagtaagctt	gtgatattcc	318420
	ataaatcact	tagcttagac	ttaattgtgc	tgtaaacaaa	caaacaaaca	tatctgaatg	318480
	gcttccaaca	gcaaatgttt	acctcttgcc	ctctgttcat	gtcttctgta	agtttagctg	318540
	aggtttggtta	tactctgtat	ccaagactcc	tgtgaagaaa	agtccccatt	tgggacatac	318600
	tcgtctcata	aaacagggga	aaaacagata	atggcaccat	gcagctgttt	ttgacatatt	318660
	tgcttagagg	tgggtagcat	catttctgct	tcaactgtatt	ggccaaagca	aatcagatgg	318720
	ccccgcctgc	tgccaaaagg	ctggaagaag	taagattgtc	acacaagagg	agatagccaa	318780
	catttgghaaa	tagtaccaca	aaccatcata	tttctaaaca	tattttaatt	gctctcatac	318840
	acatgaatga	ttgcaaactc	gggttcctca	tttgctcatt	tgtttatgca	tactcacca	318900
	gacagtcatt	gaagaatcgc	tgtgttctag	atactgtggt	ttctgatgta	ggtgatacag	318960
	agagaaagaa	aacgcaatct	acgtgtagct	agaaatthtt	tgtcattatt	tctthtttca	319020

ES 2 784 246 T3

gctcaaatga attctgatag aaaatTTTTg gtagagagca aaaggaaaaa atactgtatt 319080  
 ggggaatgtg tgtgtgaatg tgtgtgtatg tgcataaatg tgtgtgtgaa tgtgCGTGTG 319140  
 aatgtgtgCG aatgtgtgtg tgcataaatg tgtgtgCGTg tgtgtatgCG tgaatgtgtg 319200  
 tgcgcatgtg tgtgaatgtg tgcgtgtgtg atgaatgtgt gtgactgtgt gtgactgtgt 319260  
 gtgaatatgt gtgtgaatgt gtgtgactgt gtgtgaatgt gtgaatgtgt gtgaactgtg 319320  
 tgtgaatatg tgtgtgtgaa tgtgtgtgaa tgcgtgtgtg agtgtgtgag tgtgtatgtg 319380  
 tttgCGTgaa tgtgtgtgta aatgtgtgtg tgcataatgt tgtgaccgtg tgtgaatgtg 319440  
 tgtgtgaata tgtgtgtgaa tgtgtgaatg tgtgtgtatg agtgtgtgtg agtgtgtgtg 319500  
 aatgtgtgtg tgtgagtgtg tgtgCttgga agatgagcat gatgtcaaac aaacatacac 319560  
 ttccaaaagt agtgggcatt cctgCttagc cttttgaaag cGatatgggg aagagagaaa 319620  
 agaacatgag ccatgcctca ggtactccat gtccaggaa tgcaaaactc ataaaggcag 319680  
 aggtcacatc tgcttctgct cacttctgtg tctaaactca ataactgctc tttgGaaaag 319740  
 aggaaaccaa gtgaccaac acatggatac acagagtCag gggacagcag ttccacaga 319800  
 5 agaccaccgc agcaaagctg ctcccaagta gagatagtga tgCctgctca cGgtcacagg 319860  
 ctgtcagagg ttatgtgccc agcaagaaca aaaggaccat tggaaactgg gtagcagttg 319920  
 gggccgttct gagaaggcaa cagtCctct cttctgtaag gacaactaga gggccagagg 319980  
 gaacttCGTg ttgagatggg gctgtacggc acccagggtt tagtgatgga gggctaggag 320040  
 gctttgatcc aggagcagaa gaggcaggac atgctcatgg agctcatgag gaacaaatca 320100  
 10 catttgagag agcagtcaat ggtaattgca agtctgaggc cgagcatggt ggcttacgcc 320160  
 tgtaatccca gcattctggg aggctgaggc gggTggatca cccggggtca ggagttggag 320220  
 acaagcctgg ccaacgtggt gaaaccctgt ctctactaaa aatacaaaaa ttagccaggc 320280  
 gtgatggcgt gtgcctgtaa tcccagctac tccagaggct gagacaggag aattgCttga 320340  
 actcgggagg tgaaggttgc agtgagccga gatcactcca atgcactcca gtctgggcaa 320400  
 15 caagagtgaa actccatctc aaaaaaaaaa aaaaaaaaaa aaaagaaaaa agaaaaagaa 320460  
 agtctgagca ggTTTTctgg gacttagcag tgttCctatg caggctatac atttacattt 320520  
 aatgttaatt cttttgtgga tgtgttttcc ccattaattt atcttcttgg tatgactttc 320580  
 cccagagtgc atgtaagaaa taatgtgctg ggcaaagcaa tggcttggtg gaagaaacc 320640  
 agcaccctg catggactgc atacttcaaa cataacttca aacctctac taggtttgaa 320700  
 20 gatccttaaa gaaagggata tctgagtatc ctgcatatat taggtgactg gtgaatgctt 320760  
 ggggaatgga tatgtgagta agtgacggtg tcattgtcat gagaaagaga aatattcctt 320820  
 gcattttctt attctatcaa tcaagtctat aagatgtcta tttactctta tacttttagca 320880



ES 2 784 246 T3

	cagtgctggt	gagatgaata	aacaggcatt	aaagagcctt	ctagagcata	ttaaaacaaa	320940
	ttacttgctt	tgcaagctca	atthaatttt	atthccttaa	aaatccaaca	aaagtgcatt	321000
	gaatcacctc	taagcattaa	gtaatgtgca	aggttctagg	gtttcactga	tgatgaatat	321060
	gtgattccta	ctttcaaaga	ccactttcaa	ctgaagaaac	aggttatcta	atthtaaaaa	321120
5	ggtagcataa	tttgactctt	aacaattgta	tttgataga	gccaaagacag	cattgttggt	321180
	ctctctgcaa	agttctcagg	gacgtgtgtg	tgaccagtt	gttaggggtg	ttaaagctgt	321240
	gaatgaaccc	tattttaagg	cgttagcaag	aattcagtct	ctttcatcat	gagaagcaat	321300
	gatcaaggaa	cagatacatt	tataaagttg	aagaaaatac	cgaaaaatgt	attgaatcta	321360
	tgttttccca	ggaagattgt	cttttcttta	atthtatccat	aaaaaatatc	tgattttaca	321420
10	atthtactct	gtgcctthta	gagatagaaa	ggaatgaatt	ctattacatt	gcattgtttg	321480
	gtgccaagcc	ataaatttac	atagttgcaa	cataaacagt	ttcaaattat	aactctacaa	321540
	tatccaaacg	aaacactatc	aattcttttg	ttattgactt	gttttatagt	tgtaatgcag	321600
	actccatata	tttgttattc	agttttttat	tatattattt	ctcaggcaat	tacattttta	321660
	ctgcaaattt	gggggattta	cttgatataa	tcattgagta	caagcatagt	gctaagtatt	321720
15	taaatgagaa	tgttatcaaa	tgaacttaat	ttttctgtc	ctggtgcaac	cagattattt	321780
	ttactatgta	agatttatta	aaacatattt	tcaattatgc	tgggaaattt	aatgaggca	321840
	agcattccac	acataatatt	gcctcccaat	aaggttgaca	tttacaagat	ggtgagtaac	321900
	atthttgtgtg	cttatttctt	aactactttt	gattttgtca	atacaagata	aattagccaa	321960
	aatcaggcaa	ctatgtttag	gcatttgat	taatcagggtg	ctccatcttg	tctgcaatat	322020
20	tgataggaat	gtttagcaac	tgtgccaagt	agactgagtg	gtaaaaatga	atacagattt	322080
	tgctataaat	tgcaaataag	tacaaaatta	atctgattga	cttaatcagg	aatacagaaa	322140
	aacattagca	tttcaagtac	ttctattttg	atthgcagga	ttcattggcc	atgtaaaaca	322200
	gcaattctat	aaatcctcag	aagaaatagc	agaactgctt	ttacaaatta	ataatgttta	322260
	tgttgtgtaa	agtcatttta	gacagtgcc	gtttggtgtt	attgttttag	aaaaaactga	322320
25	gccttgtaat	gaaaaataat	tgttcctctg	tcataggagg	ggtttaagac	atattccttg	322380
	attgaatggt	tgatataggc	tcaagcactg	gtgggaagtt	aaagcgttct	tggtatgacc	322440
	tcttctgctt	gtccctgttg	accaagttct	ttaacttgg	cacaactcac	caccccacaa	322500
	accctctcct	ggtattttgt	gttgggggtc	ctacagtaaa	tatcagttac	tggagaaaag	322560
	gacttttcaa	agaagcatgc	ctagtactaa	cactcaacat	tcacattcca	tattttcttt	322620
30	taaccaactg	tctaaataag	tatatattgc	acgaatattc	agttttaatc	tatcgtaatg	322680
	ttctcaatta	ttctttggaat	tagctagttg	ctattattga	gctgatttag	aattaatcag	322740

ES 2 784 246 T3

	tttttctgaa	cacatttgta	agaagaaaca	atttaattctt	ttccccattt	ttacacctca	322800
	aaattatcctt	aagaattcat	ttacttttga	gacagaacca	tttctagttt	cagtaccact	322860
	tttгааagag	tacacatata	ggtagatcaa	ctttgaaaaa	ataacacaat	aggtagtgtgta	322920
	tataggatat	attgtataga	aataggagga	aactttcctg	taataggaaa	ggaaacttcc	322980
5	gtcttctggt	tgtaagaaa	tatttgagag	atctcaccat	cctgccttct	tgctttggcc	323040
	aaattgaata	aacctttctc	tatctctcag	cacctatgtg	tcatgtttgg	cattagctac	323100
	acatcccata	caggagcctg	aatttgggct	tctacaacat	gagggtggcc	tctagaaaca	323160
	accttaagag	ccccttgacg	taacccaaac	aggagataat	ggtaaaagaa	cttttccctt	323220
	tctaggatgc	tttgtagaat	aaaacattta	gatgtgttgg	tgacaggctg	ggaggctggg	323280
10	agaaagggta	agcaagacca	cttcaaagga	tttattgcct	ctgaaaacca	ggaatgttaa	323340
	agctgttatc	tactgtgaga	gggactaggt	tgtaatgagg	gtaggatcag	gagttggggt	323400
	ttggacttgc	aacatttggg	atgactactg	ccatcccagt	ggcattcagt	gagctccacc	323460
	catgaacacc	aagcaaaag	aggcaaacag	gagacagtgt	cagaaacaga	ggatgcaccg	323520
	gcagaggtga	aagcaaacag	cctgaaactg	aaacataact	ggaagagtca	agctgccgct	323580
15	tctcatgatt	aattttagtt	ctgtgtgggc	taaggcta	tagtaatgta	agaattacat	323640
	gagcaggact	gaaaagtatt	tccccagccg	tggcatctgg	ctccttaaag	ggttgtattg	323700
	gcagctctat	ggtgctctcc	aaatctggca	tatggctgaa	attgggtttt	ggcaggtgtg	323760
	acttgtgccc	ttgtaccttt	tcattaatgc	atcctgtgtt	tattggaata	aaaatgggat	323820
	tgaacataat	ccatttctaa	gggaaagcaa	cctcaaaatg	atatatgttt	gcgaacataa	323880
20	ataacattta	ataattaaat	gtcatttcta	actattaa	gtgcttgc	gtggattatt	323940
	aaccagttga	caatcattca	tgggaaggtc	actatgcata	tctcgttatt	gtaaaggagt	324000
	gataaaaaaa	aaggttgatc	attattgggt	attggatctg	cacactgatt	agataggagg	324060
	ggtcccaagg	gagagggcga	gttggccagc	agtgggggtga	gcacggggag	tgttggggca	324120
	gtggctgtgt	accagtcata	tagtcagatt	atgacacttg	agcagccctt	tgtttctagt	324180
25	gttttccagc	taatacttac	actggtttaa	gcaaggtatc	ttacaggatt	ctctcaacaa	324240
	tctgggtggt	tgtgtttcct	tggcaattga	aatagatgcc	cagaaaagtt	gtgattttcc	324300
	taagaacatc	cagctggctg	tgagcagtac	tgaactcaca	tccagatgaa	ctggactaga	324360
	agagcaggct	acatgttttt	gaaatttcta	aggattgtta	atattcaaat	cttctttctc	324420
	aacctggtca	tataatctct	gatatcacct	ccttaaactc	atctagtaat	atctccatc	324480
30	ttcagagcct	aaatgtcaaa	tgtcatcagt	tttatgcttt	tatcttacia	taatataaaa	324540
	taaaatgact	ttactcaaac	cacattgcaa	aagcattttt	ccagcatatt	aaccttttta	324600

ES 2 784 246 T3

	taattgttga	tatggaagag	ttttaattcc	gtcataggtt	ttatgcattt	taaatattga	324660
	gtcttggact	gtgctgatat	ttttggtaaa	taaacagaaa	gatgtgcaac	tgtgctgaca	324720
	ttacagtctg	gagaagtgag	aaattaactc	tgtaggaagt	caacatgatg	tcagatcaat	324780
	gtgaccacta	aatagatgag	agttgccagg	gcaacttttc	acatgctcta	agcaatgtga	324840
5	tggtttgttt	tcctattgat	gcatatgcta	ccctattttg	gctaacatcc	aattcaatta	324900
	cgtaagtatt	tattgcaccc	tttctacata	tccagcatat	tttataattt	tctgacatca	324960
	ttcatatatac	tattcaaaaa	cgaaggctta	cacataatga	actggcttag	actttatcta	325020
	ctttatctac	caggaaattg	attctttttg	taaaaatgac	gagttccatc	ggccaggatc	325080
	tataccaaat	tccgaagcca	aggatatggt	agaaaatatt	ttgacacacc	agcctttact	325140
10	tgatctgtag	tataaagcaa	gagtttctaa	cttgccctact	atcttttttt	ctgcctctga	325200
	gataacatat	acaggttgct	gttatggccc	ctttaacat	gagtatacca	agggcaaaga	325260
	ggtagaagtg	agtacaggca	ctttagctaa	acatttagtt	gagttgagtt	taacttttgg	325320
	tttagttgaa	gtgctgcac	ttaatcaact	aaaagttggg	ctgctttttg	ttattactgt	325380
	gcatggccaa	tccaactcag	tgtatttaac	tcatagactc	ataaatcagt	gcattaactc	325440
15	atagacaact	gtgtatcttg	tttgattgat	tgattgattg	attgatttgt	ttattttgag	325500
	atggagtctc	actctgtcgc	ccaggcttgt	gcgttcttgg	ctcactgcaa	cctccacctc	325560
	ccgagttcaa	gtgattctcc	ttccttagcc	tcccaaatag	ctgggtactac	aagtgtgcac	325620
	cacatgcct	ggctagtttt	tttctttttg	tatttttaat	aaagatgggg	tttcacatg	325680
	ttggtcaggc	tggtctcaaa	ctccagacct	caaatgatcc	accgcctca	gcctcccaaa	325740
20	gtgctgggat	tacaggcatc	agccaccgca	cccggcagta	tcttgttttt	tatttttttt	325800
	ctttaacttt	ctaagtatga	aggaagctac	gattattctt	tccaaatctg	tcaggtcatt	325860
	ccattcctct	gcaccaaacc	ctgcaatgat	ccccctctcc	gtgcaggaaa	aaaaacacc	325920
	acagtccctt	caatacatcc	aatatgctgt	gtgtgctgcc	ctatggctc	acctcctccc	325980
	cactgctccc	tttcttctg	tgctcattta	ctgcccctca	ggcctttcac	catttaaaca	326040
25	gctgtgccca	ctagcctacc	tgaccacttt	gtaaggatgg	ctcccaccac	ctgagtcact	326100
	ctttcatcta	atatccatgc	agctccacag	ctcttctttc	agttttacac	aaatactgta	326160
	ttttcattgt	ggttgccctg	actgctgggt	tcaatacttc	agatcccaca	cctagcatgt	326220
	ccagctcccc	acatcctggt	tcatcatatt	agatcactta	acatcttaaa	atacactaca	326280
	tattttgctc	acttattgtg	tttactttat	ttttctccc	actagaatat	aagaccaaaa	326340
30	ataaagatga	ttgtctgttt	tgcttttttg	tctccctgat	gtatctcaag	tatctagaag	326400
	aatggcacag	agtaggtgct	catttttgggt	gttaaataca	agagtgaagg	aatgaaagtt	326460

ES 2 784 246 T3

	aatcctgaat	cttgtattct	gtcctatcat	tattttaaat	atcttaagga	tgctcttaca	326520
	aataagtact	aaaaaatagc	aggagaaatc	tatgccatcc	aagaaaatct	ctgacaagct	326580
	gtcacatggt	tggacacctt	tagtcagttg	aagaagaagg	ggagttgtgg	tcttctgggt	326640
	aaagaagttg	ccctgggag	tgactggaga	ccatcttaca	caaaataact	tgcttggatg	326700
5	cgagagaagc	cggagcaaag	gatagtcctt	ttcagatcag	gtcaaaagac	cacctacaac	326760
	gaaatctcca	gcatagaga	ggggcattat	gtatggcaga	tgccagacgc	ccactattta	326820
	atccaaagaa	gaccagaact	ggaccaagtg	cactagaata	tctgcagatg	ggacatggag	326880
	acctgtactt	cctagcaacc	caggagaccc	tggcttgacc	taaactttac	ctggataaatt	326940
	ctatthttctt	ttttgttttg	agatgaagtt	ttgctcatgt	tgcccaggat	ggagtgcaat	327000
10	ggagc gatct	tggctcactg	caacctccac	ctcccgggtt	caagcaattc	tcctgtctca	327060
	gcctcctgag	tagccgggat	tatagcatg	ctccaccatg	cccagctact	ttttgtattt	327120
	ttaatagaga	cggggtttca	ccatgttggc	caggctggtc	tcgaattcct	gaccttatga	327180
	tccgcccacc	tccgtctccc	aaagtgtgga	gattacgggt	gtgagccact	gctcccagcc	327240
	tgccctgaga	attcttacca	atggtgaggc	accaagcatc	ggattggagg	gagaaggggt	327300
15	ggtataaaaa	cagaagaaaa	aggaagaaga	tgggagggac	ataaatcaca	aatgggctga	327360
	gaagctctat	tattattggt	attatatatt	atthattatt	attagcttca	ttttgcaaat	327420
	aaaataaacc	tcaccaccaa	gctctagcag	caaaacattt	gcgagacacc	actgtgtgct	327480
	tggccccagg	cacacctgcc	atctcatctc	tatcgacaca	gattgttcat	tttgcatatg	327540
	agaaaagttg	ataataggag	agataaagca	atthtcataa	gattgttctc	tcattaagca	327600
20	aatatthtacc	aaacaccttc	tatgttgtct	gtgggtgggg	catcctgaga	ggaataaggg	327660
	agatgaggtt	tctgctctta	cagagttcac	atthcagctgg	gagaggcaga	ccacaaaaag	327720
	cgactaatca	atgatgaaga	agctthtgagg	tcacggagaa	gaaagtgcgt	ggagagctgg	327780
	gatgcagttg	ctggagcctg	gctctggcct	ttcctctcct	ctgctaggct	gcagttctgg	327840
	gcaagagcag	acttcaactga	aaccacagct	ggctgtgtta	gccaatgtgt	tgacagcacc	327900
25	ctgtgtaaag	aagtcaccca	acactgcatc	agtgtgtaaa	gtggaaacct	aacaatctca	327960
	caatgttccac	gaaacgctaa	ggacatcaca	aggaatgatg	tagtaaagtt	tttccactga	328020
	tgatcatcttt	ggaagtagat	tttgctcaat	tcttattgga	acatgtgcac	agctgaactt	328080
	caagatcctt	gggttctcag	ctcaaatcta	tataaatgac	ttaaccaatt	gcttaacttt	328140
	ctggaattca	gatgctthaa	ctgtaaaatg	gtttggagct	ctgaatggag	tatttccaaa	328200
30	ttatatctaa	ctgtgaaaat	tcaatgacat	agaagattta	ggatggagag	gaaaaaaaat	328260
	aacctacata	acgtacaaat	gaataaaaat	tataacaata	ataatataaa	tttattaagg	328320

ES 2 784 246 T3

	tgagatttaa	aagaaaaaag	attgctat	ttttattgct	agttaaagct	attccttgaa	328380
	gatttccagg	tactttttaa	gtgaaacgtt	gtgtgcatga	gatgtcctta	tatctttttc	328440
	aagtatatag	atgggctcta	ttcaaaaagg	gcctctcttc	tcgtcttatg	cccacctgcc	328500
	atctgagcaa	ctatatctat	tttttgctgg	gctacgtgga	atgattgttc	tttttatggt	328560
5	cttgcctaag	aacacacaca	accacagcac	tcctgacact	tagaaggaga	tgaattatat	328620
	ttaaccgaaa	ggacacttgc	ttgactagga	ctgctaaatg	tgtttagctgc	aggggaaggcc	328680
	agctgccttc	ttggccattt	ggacatgccc	aatcttctct	tactgatgca	cagatgtctg	328740
	aggccttgtg	ggtgaatccc	agtgtgcttg	cagccaggag	aaggattgtg	gagcgggtgct	328800
	gagcatgtga	ggtgacatat	ggttctcctt	ctccatttga	caactttatc	agcttctttc	328860
10	catagttcaa	gtttgcagct	ctgcagaacc	aaaggctgct	attcaaaata	gcctcatcac	328920
	ctcttcctta	ctccctcaac	ctccagccct	tgtccaattg	cctggattgg	gaaagttctg	328980
	cagtggtttg	agcaatcact	taataagacg	gctgtcggtg	gtaaaactgg	aattggttgt	329040
	tgctattggt	gcggttttgg	tgagtatcac	aagtaagcac	tggaaaatta	gaagcaccca	329100
	gaggtttttag	ataacatata	tgtaatggac	aatcatgtca	gggaccatt	gattcctata	329160
15	tagaaacacg	ctgtgccgta	agtctcttta	cttgtatgta	ttataaatat	ttagaaagga	329220
	aaagtgtgtg	tgggggtgtg	tgtgttttat	actcaaaatg	aactttttga	tcactacaaa	329280
	attcatttgg	tatggtaaaa	tttagaaata	atctggaagt	taaaatttga	agaaatatca	329340
	ataatgcccc	tttaatatat	aaacatatta	ttactattat	aaagattata	tagcaatatt	329400
	aaaataataa	tcactaataa	ttcaatgaca	atggaaaata	taaaatatct	atactcatga	329460
20	tatctctaac	agtgtgtgta	tatgaacaat	gtgtggaaag	aaacacattg	aattgttgat	329520
	atgtgatagt	ggtaggactc	ttgttcttat	tttaaagctt	aatttcatta	gaatagcatc	329580
	tgcaaggcat	atatcaaaaat	atatgtttat	aaggttttaa	taaataagaa	tatgaaataa	329640
	ggtgcattga	tctcttatta	tgtgtcaagt	ctttgggccg	ttcatgctca	cagccatggt	329700
	gtgaggcaga	cagtatgccc	attttacaga	tgaacagacc	aaggccgatt	aaccaagggt	329760
25	aaattaattg	tccaactgta	gctacaaaagt	tacgattaga	aataagttct	ggtgttctgt	329820
	tgcatactag	gtttagtgtg	gttaacagta	aggtattgta	tattacagaa	tagctagaag	329880
	agaggctttt	gaatgttctt	accacaaaaga	aatgataaag	acatgagggtg	atgaatgagc	329940
	taactaccct	gatatagttt	ggacatttgt	cctctccaaa	tcttatgctg	aaatgtcatt	330000
	cccaatgttg	taagtgagac	ttggtggaag	gtagtgtatt	atgagggtgg	atccctcatg	330060
30	aatgacttgg	caccttccgc	ttggtgatga	atgagttctt	aatcacatga	aatagttcac	330120
	acaagatctg	gttgttttaa	agtctaggac	ctcctgtctc	tctctctctc	tcttctctcc	330180

ES 2 784 246 T3

	tttcacacca	tgtgatactc	cagcttcccc	ttccccttct	gccactattg	aaagctttcc	330240
	gaggctccca	ccagaagcca	agcagatggt	gttcacagcc	tatagaacca	tgagtcaa	330300
	aaacttcttt	tctttaaatt	accagcttc	aggtatttct	ttataccaat	gcaaaaatgg	330360
	cctagtagcat	accctgattt	gatcagcata	caacacatat	acaaattaat	gtaccaa	330420
5	atactccaca	aatatataaa	attacaatgt	gtcaacttaa	aaagaattac	atatttgatt	330480
	tacaaatfff	ttattccttt	taattctatc	tcagtatfff	ttacaatcct	tgattactff	330540
	ctcattfftc	taattccatc	ttttatffgt	tttaataaa	tattfftaacc	aaaactgffa	330600
	aaagaagagc	aacgtgcacc	aaattaagtt	cagtgctctt	tcaacaacat	gaaatffcta	330660
	ttatgcaaag	tactgaaatg	aggtacacaa	aaaactcctg	ttatcctaga	gcgagtctat	330720
10	tgtcaatgtg	tctggagaga	cagagaacaa	aatcctaggt	tctcaaaata	gatgattcct	330780
	ttffttggaat	agffttactcc	taaacaactg	atatacatgt	ttfftcattg	tattffcaa	330840
	aggtgaa	atffttcacta	atcctgtcgg	tgctcacagc	taagtcctac	aatgacagat	330900
	catctaccag	caatctagag	aaaatcagtt	ttgtgtatag	agaaataagt	tcccctggcc	330960
	caccatggcc	agcatatgac	aaggaaatga	cagaggggac	tgactatctg	ggccagggga	331020
15	acaaagggag	gffttgcagag	attctgaggg	tacacgcaag	agagtaggga	gcattffctgc	331080
	agcgagaggt	acttggccat	ggctacagca	gacaaaggat	ggtcaggaat	actfftagcca	331140
	caacgttagc	acagacatta	gcagaatgct	aaatcgtggg	atccaccata	accagaagaa	331200
	tgctagatca	gtcccacctc	agcaaggact	ggcaaggacc	cccaaaacaa	agaaaaaatt	331260
	caaggactct	gtcactccat	accacaagtt	cacaggagcc	cttcactcctc	caaacagtg	331320
20	gatgccacac	tgcgacata	cagatgaggg	cagaattgat	gagactgaaa	aagtgccata	331380
	agggattatt	tacaatattg	gffttggacac	agfffftgaa	caaattagac	taagtaa	331440
	tccattffffa	tcatcaaaata	aaggatcatg	aaggaacacc	acgtcagff	tagacaaa	331500
	gcgffctata	tcggcataca	cagatcccc	tccatactgt	gtatatgtgt	ttactcatat	331560
	atagatgtgt	gtacatgcat	agtcacatac	cttattgaca	ttacaactat	catcacaatg	331620
25	gfffftcacca	tactatagca	cagacaaata	ttffttatff	atffttatff	agfffftagff	331680
	agffffatff	ttatffff	ttatffffca	gacaagffct	cactctgff	cccaggctgg	331740
	agtgacagtag	caccatctca	gcttactgca	gcctcaacat	tccgggffca	agtgatcctc	331800
	ccacctcatc	cgcccaagtg	gctgggacta	tacgtgcata	ccactacgcc	cagataatff	331860
	ttffatff	tggtagagac	agcgfftcac	catgffgccc	aagctgffct	tgaactcctg	331920
30	ggctcaagcg	atccacctgc	ctctgcctcc	caaagtgctg	ggattacaag	tgtgggcccac	331980
	tcaccaggcc	aaatcffff	attacaaatc	tattffgctca	atfcctagff	ctgtattcaa	332040

ES 2 784 246 T3

	cactgatatt	gttgttgttt	tagatcacac	acaattcaca	ttgagccagt	aatgtctttg	332100
	aagcattact	gaaataaaaa	tttcagcata	ttctcaataa	ttttgcagct	cctccaaatt	332160
	taatcactat	atagaatctt	tatttacagt	tttaaaattg	cactagccat	ctcttccttc	332220
	accttttttt	aaactgtaca	aaactgagaa	ggctgaaatt	atatttttct	cataatttta	332280
5	caaacatacc	tactttttct	acctaaaatt	atccagaaag	tgctttcttc	tctatgtgtt	332340
	gtgtggaaag	gcttctatat	gcctattttt	gaagaaaata	gttcactttt	actccattat	332400
	atgaaatttt	tcattatttt	aaatcctgtg	attagttttt	tactgaata	gtcacttcca	332460
	tagcagtttg	gttaaaaatt	ctacagtaaa	agtagtaagt	gttggccact	taccacttgt	332520
	aaagtgtatg	ggcatagctg	tatgtgtgtg	tttatacatt	tatatacaga	tgtgtgtata	332580
10	ttaaataatg	aatgtaatat	aatacaaatg	gtctctgact	aatgaaggtt	aaacttatga	332640
	ttttttcacg	ttacaatggg	gtgagattgg	tgcacattta	gtagaagcca	tactttgagt	332700
	accatacaa	catttctatt	tttcagtgca	gtattcaact	aattacatag	ctcttcaata	332760
	ttttatttgt	gtattttatg	cacatattta	ttttaataca	aacgtacagc	tttgggtcaaa	332820
	tgtttaatat	tcactgtaat	tttatgggtg	acattagcaa	gatctatttg	tctaaaaact	332880
15	ctttcttaca	aaaaaaccca	ctttaaactt	ctcaaatgcc	cctccatccc	atTTTTTTaa	332940
	gtttctaata	aacataaaac	atTTTTTTaa	aagaagaaga	aaggctccag	aagatcagaa	333000
	caatacaact	ggttttacca	aattcaggca	tttagaaatt	gagaaaagag	gcaattttta	333060
	aacttatgac	atgacaacag	gcataaaaca	gcctgctatg	gacaaagcag	caagtgtagt	333120
	cagcctgcta	aaattcagcc	tctgtgagca	cagcacttaa	ttttaccctt	tatttttttag	333180
20	tagaaatagg	atctcagaaa	tcaccggact	tctgtattgg	tctcgttggg	agctgcagac	333240
	cggaaactgtt	tctatttggc	catcttggcc	ccccgccgcc	aattctactg	taaagacaca	333300
	tgcacacgta	tgtttatagc	aaagacttgg	aaccaattca	aatgtccatc	aatgacagac	333360
	tgataaaga	aatggggca	catatacacc	acggaatact	atacagccgt	aaaaaagaat	333420
	gagttcatgt	cttttgcagg	gacatggatg	aagctggagg	ccatcactct	cagcaaacia	333480
25	aggaacagaa	aaccaaacac	tgcatgttct	cactcataag	tggtgattga	acaatgagaa	333540
	catatggaca	cagggagggg	aacaacacac	accgggtcct	gttggggcgt	ggaggaaaag	333600
	gggagggaga	ggattaggag	aaatatctaa	tgcatgtggg	gcttaaaacc	tagatgacag	333660
	gttgataggt	gcagcaaacc	accatggcat	atgtatatct	atgtaacaaa	cctgcacatt	333720
	ctgcacatgt	atcccagaac	ttagagtaaa	gtaaaaaaaa	aaaaaataag	aatcgcacta	333780
30	tgtttcctag	gctggtcttg	aactcctagc	cttaagtgat	cctcctgcct	cagcctccca	333840
	aagtgctgag	attacaggct	tgaccacca	tgaccagccc	aatatggctt	ttaagaagaa	333900

ES 2 784 246 T3

	gctgagccag	ccccacctgt	ttcgtttggt	tctggtgctg	gcctgtgttt	tgacaacatg	333960
	cttgtaagag	ttttaggttc	tgtcagcatc	agcagacaca	gcccattcctt	ctctccaaat	334020
	gactgttccc	ttaggcactt	gagtcacttt	tcagtaaaca	tctgcatcat	acttcaaadc	334080
	ctgttactaa	catttggtgc	tccaaaattt	attctccaaa	ccccaaaccc	cgcacacttt	334140
5	aatgcaggcc	tgaagtagat	ggaaaagggg	aaataaatga	tgtcaccata	gcttatcaca	334200
	tgacctaaat	taacttttca	tgattgacca	gcattaatat	tcacagattt	aacaatgctt	334260
	tttaagaaaa	aacaacagtc	cagaagtgat	tctttctgtg	tggtagatat	aggtctgttt	334320
	atthttaaat	gtgtttttct	ttgtactttt	tcgttctgaa	aactcttgca	ttttcattta	334380
	atatcactca	ttataaagtt	tatctctgaa	gtaggatgta	ttttctgatc	atathttcat	334440
10	ttcttagaaa	tatattgtat	tttaatacct	caathttatc	agtathttta	tatatacttg	334500
	tttgcttggg	ggaagatatg	agtgagagaa	gctttgcact	tctttctcta	tgggtaaaaa	334560
	aataaaaagt	taathtttagc	attagaattt	atthttagctt	actatattca	ggggaatgca	334620
	aatagcaaaa	tttctattct	tctcaacact	ctttccaaga	tgaaatgtgc	tcagattgtt	334680
	caaactaac	ttaatagcta	ttagaatctg	tcttgctgaa	agtctcagat	tctttathtt	334740
15	actctttgta	gcagcaggac	tctttggtcc	aactgcccga	aaaactattg	tcaagaaaat	334800
	gcccagtgac	ctccaaactc	ctgacctttc	aattacctca	gtggatggac	cgagagaaaag	334860
	gtgactttta	ataaaacaca	aataatatca	ctaaaccatc	aaaaattgaa	tccaagacg	334920
	gtttctcact	aaathtttatt	ttccctgcct	ccctcaaagg	aactgtgtat	tgaagttctc	334980
	catctgctga	tgatctctta	ggcttatctc	ggtgtagtac	atccatttag	caatgcagat	335040
20	aatcagcatt	tgcaaatgg	cactcagttt	tgcaactgaa	aagattagag	tatacaatcc	335100
	accattcatt	ctcaagggaa	ggagtcacgc	cattgaagca	gtctaattat	ggccatcagt	335160
	ccaaatggca	tggtggccaa	ggatcaaccc	caccagcata	ggaagttcca	ggctccaaga	335220
	aagcccagag	gttttggaat	tagtgagcta	agtgaacttg	cctcattccc	acacatcttg	335280
	ctcctcactt	cctttactgt	gccctgtggt	tggtgacatg	actgcatatc	tgccacttct	335340
25	caccactttg	tatattcacc	ctgccttgtc	ttgatttctc	atcttgataa	ttctcccatc	335400
	ttttgctcaa	gacactttta	aacaactctc	agagtaacat	ccttcttttg	ccctagtggag	335460
	catttgaat	atgttctata	ttctaaagat	ccagaacatg	tgggcatttt	cacgatccag	335520
	cctgtcacca	tgtgttgttt	agccacacgt	gttcaaagca	gatttccgagt	tgagttattt	335580
	ctagctgggc	acaaacaggg	ttccattttc	ataggcctca	ctcttcctta	ctgcattaca	335640
30	tggtttcttc	ttcacttcta	ctacactact	ccttctttaa	attacagaag	cttaaacata	335700
	aacaaaagta	gaacaaagtg	gcataatgaa	acaccacaaa	tccattactt	tgcttcaaaa	335760



ES 2 784 246 T3

	tttcttagta	caaagctatt	atTTTTtata	cctacatgcc	tgtgctgtaa	aatagatgga	335820
	ctactttgag	cCAAatcaaa	gacatcttat	aacttcattg	gtaaatagct	tgtatTTtata	335880
	agtaggtaag	agacgttcac	tttaaaaagc	acAAatcaaa	tatcaattaa	acattcaaat	335940
	ctcaagaatt	ctcacaatcc	ccaccccacc	caccctcctc	tatcttctcc	atccccatta	336000
5	cactatcact	cttcatttga	ctggttcaaa	tcagaagtca	aatgaagttg	acacgttgtg	336060
	tttggttgat	atgtcaacaa	agtcacttat	aatttatcat	ttcttatctt	gtaatttctt	336120
	tttgaaaatg	ttgagtttat	caCatttgcc	cttttcccag	caaaaggcat	cccagtgctt	336180
	cctcactatg	gagtggaagg	agcaagaggt	ttataatagc	atcttgttat	attgaagtca	336240
	caagctacca	gcatcttctt	atattgaagt	cacaggcagg	atttaaattc	atcttatatg	336300
10	taagtatggt	atcccagtgt	gtcagtgaag	agacagatgt	tactgagatc	accttgccca	336360
	gggacgcatc	tcctaataatc	tgcaaggatg	tcctgtatac	caaaagtata	gcttcattcc	336420
	ttctaataccc	aaagactctc	aaataaaagca	aatctgcggg	aggacaaaga	tgatggtaag	336480
	cacagaggag	aatgggtatc	aatcacttac	atcattagga	aggagtgaaa	tcttacaatg	336540
	atctttccct	ctgctttctt	cctttcaggt	gatctaactt	cctgtgccag	catcatcatt	336600
15	ttacaataag	atttgacttt	ggttaaagtt	tgaaattctc	ctctgaggaa	acacatttca	336660
	ggatgttatac	tttcatgcat	accttatcat	gaagaaagga	tccaactatt	cataatctag	336720
	atttccactg	atttctttaa	ccacagtttg	ataacaacca	ccagtgaggt	agtcaggctc	336780
	aggctttatg	gaactttatt	ctgttcattg	ggaatgtggg	ttttattgat	gagggagtga	336840
	taaactattg	gagaattctc	aattgtggcg	tcatgtcttc	tgagttatac	ttttacagga	336900
20	atgattctgg	ttgctctgaa	ggaacagata	gatgtgggga	gacaagaata	aaagcaagga	336960
	ggcttgtaac	tggctgtttt	catactagag	gtgagtgaga	gagtttgaga	gtttgatctg	337020
	ggcttttagag	gccatagtct	tactttatca	cttttacaag	gaaagaaaga	aaggccatt	337080
	gtagtaaagt	ggccccttta	agaggccata	gtaaaaggat	ctcagtcctc	aaatatataa	337140
	aatagtatat	atTTTTttaa	aattgtaaaa	acctttgccca	ttcattttct	gacttaaaat	337200
25	gcctgatgag	gttgtcttag	ttctcagatt	tcaaatcttc	tgatctatgc	atggcacata	337260
	agttcctcac	tgaacaattg	atgattaatt	ataaatgccca	ataatggtta	ttgtttgaga	337320
	ggagatgact	gtggatatgg	agaagtaaac	agaacactct	cctttctctt	tgacttcatt	337380
	taaccaatTT	tttctttcaa	atcattttct	agtaagaaac	cacctacaaa	tgcccagagg	337440
	attgctgcct	tatttaaagt	attataaaac	ttattgcata	tgcataacgt	gactgtgacg	337500
30	tgaaaacttc	tcagccttgc	ccagtccttt	tgaaatgtta	agctcactgt	aaaaatgata	337560
	aaatattggt	atTTTtctctt	aagaaataat	aaaattaaaa	cccaagaagg	aaaagactct	337620

ES 2 784 246 T3

gctaataaat aacagtgtca aatttaaaga agatatttgc ataaatatta ggtttaacca 337680  
 aatgaaattg ccaatattca aaagttttta accttcaaag catcggtttc atatggttcc 337740  
 gtctattaca aactcttgct ccttccaatc cactgtggca accttcagaa agatggggga 337800  
 tattaaatgt ccttttgttc tcacagagta tcctttatgt tgtgaacatg gacttagtta 337860  
 5 tcaactgccac tctgtgggct tttatgatct attataacct ttactatagt gcaaatatct 337920  
 gtatatataa acacatatat atatagccta ttagaccctg aatatcttaa aggcagagaa 337980  
 agtctcttat tttcctttta taactagcaa ctggcatagt gacagacaag aatggatgct 338040  
 ccatatgtct ttgtttagaa tgatataaat gcaggggttg atgaatcata ttcttttaat 338100  
 aatcttataa gaagcagtaa tgagaagcca ttttgacaac aggcttttaa atcagacacc 338160  
 10 ctgggttttag atgtgaatcc gatatttact tcctatggaa gttgggacaa gttgctcaaa 338220  
 cttgaagtgc ctcagcttcc tcatatatgt aacagacaat acttacctca cagagatgta 338280  
 gtgataattc aataagttat tgcttagaat agtgagtggc atgtaataat tgccatatac 338340  
 atgttatatg tgtttgattg ttatttttaa taattgtttg ttgaattgtg attcctgtgt 338400  
 gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtcttgtgga ggtagtgatg gcagtgggag 338460  
 15 gctgttctca ctagtgttgc tttcagaatt cgtagcact aatttgccag ccaattacct 338520  
 gggaaagtatg gcactctggtt gaataaagga gtcataattt ttataacttt tgtttttgtg 338580  
 accctttgca attttttgaa catccacagt gagtctcagc aaataaagca tctggaaatg 338640  
 aatattagtt gcaaactaat tgaagcaata aactaaaaa agattaaaaa aggataattg 338700  
 tcatgtttga gatcccacac aatagtgcc aatctctgtg ctgaatcttt tctgaggcct 338760  
 20 gaaaacaagg taaggggtca ttgcaggcat catgtgattc tttttcacag gaacttcagg 338820  
 actgaatcct gcagtagaag caagaacagg ctattgggag actctggtcc tcaactgcac 338880  
 aaagaagggc ccatatcctc aactctgcc cagacctctt tgattccagt tggaagcctg 338940  
 gagatttcac tgctgctgag gagggttcca gggactggga aacctgagct gtgagctgag 339000  
 cttgggtgat ctgtttccat ctgtggtctg gtgctgatgg tttccaaggc aggaatcaag 339060  
 tcagtccttg aagagctaca acagagcaaa agtgcaggta tgagagcata gatggacaaa 339120  
 aaaaagcaag taatcataat cagagaagag ctggagcagc taggaaattt agaagaagag 339180  
 aacaggttac aatagatgcc gtgaacacag cgatggttct aagactatgc ccatcttgtt 339240  
 tacttctgtg gcttcagtgc ctgacaaata catagtcagc actcatcaaa tattaataa 339300  
 atacatgcat gaattgtcaa aaggaggtga cactatccaa ccacttaaag tataaatttt 339360  
 tccagataga tacaatgcta cagatacatt atcaaatagg atggaggaac tagaagatta 339420

## ES 2 784 246 T3

	agagaagcat	tagattgctc	tactctggaa	gtaatctcca	gcaagataag	gaatcaattc	339480
	tctttgcca	tttaattacc	atatttctcg	aagattttaga	aatattttat	ctggctccct	339540
	ggcctaata	tttgaggaat	ctatgatttg	ataaatggaa	caaatgcctt	acagagatat	339600
	gatatagcca	gggtgtcttg	ggcagaaata	cgtaattggg	aaagtcaaga	tggtggaagg	339660
5	taagctctgt	ttctgaagac	aatcacatc	cctgtacttc	agacttgatg	gggtgtctatg	339720
	agcaagaatg	ttttctctat	ctgagcccca	gggtaaaaga	caagacatgg	agcactctaa	339780
	tgtagccaat	cgactcagaa	tatctcattt	taaatatatt	ttttcatatt	agatgtgcga	339840
	gtgggaaagt	aattatgagg	tcacacatcc	tttccttagg	taaaccaaca	tttttttaca	339900
	tttaggaaga	aactgaataa	aactgtcttt	tgtccaagtt	aatatacctt	gtgaacccca	339960
10	gctttttgtt	aagaaaacaa	agtgctgtga	cttattttta	acaacagaag	ggaaacatga	340020
	cttctgattc	ataacttccc	ttaggcttga	gggtctctga	aaggagagct	ggaaatgctg	340080
	agagatgtga	agatgctttg	ggagggcaca	gtttcccctt	tgcttatgg	gagattataa	340140
	agtttcacag	actatcacca	ctttacttta	gaattttcct	caatacttcc	ctctagaagt	340200
	ttgcaggaa	gatctcttct	tggttattaa	tatgtttcag	aatgacagg	ctaaagttct	340260
15	acctaccag	atggaagcaa	actgattttt	ggcttctctg	tttgagtggc	agccagtgta	340320
	accctgggtt	tctggttgaa	attccaatgc	agagattccc	aagccatcag	ctggaagaca	340380
	caactttcag	caacaactct	gtttgtgccc	atcaggaagt	tgatgaaat	aattttaaaa	340440
	tatggatatac	tgtacatcca	gatattttca	gacaagttca	gaaagattat	tttataaggg	340500
	atgcaattag	aaaaacaatt	attacaaaaa	ttgtactata	tttaataaac	ctcctctat	340560
20	gtctctaca	atgtgtgtgt	tattatcaga	ttgatgggaa	catcactgaa	taatcagatc	340620
	aagtgaattt	gattggtgag	aaaaaaaaat	gctcgcttat	gaaattaaca	attggtcatg	340680
	acacagagta	acaagattt	tatttattat	ttattctatt	ataatgttta	aatatataat	340740
	tttatgcaga	ttatgcattt	tgcataaatt	ctgttatgca	aatataaat	tctgttaagt	340800
	tctatagagg	gcagaagttt	gatttaagac	aaatatgaga	aaatgttctt	tcatgactga	340860
25	ataatatgat	tctggtaaaa	taagtgtctc	tgagagaagc	ctcagacttg	tgtttttatg	340920
	ggaagagcga	aattcttctt	gcttgagggc	aaccttttgc	agagaggaaa	aataatagca	340980
	agaaggaaag	gtgaggacta	ctttttgata	gtggaaatca	atctgtgatt	catcacaaaa	341040
	tacaagtcac	ctggagctac	aaatttatgg	gtggtttaaa	tagcaagaag	cagaaagcat	341100
	atacttgggg	ataactggaa	agaagatcag	aggtgacca	agtttcagga	attgaactaa	341160
30	agagatgggtt	ggaataaaac	tttttcagtg	gaaaggcaga	agaagggaag	tgatttttat	341220
	tgtctacttt	acaacacgct	tagccaacat	tatctcactt	taatccacac	cacagccgta	341280

ES 2 784 246 T3

	gcctttcaca	gtaatatcat	ccacatatca	cacagggata	gatggggtta	tgtagataa	341340
	attgtccatg	accacccagt	gagtaagcaa	cagagccaga	actcaaacct	aggttgtcat	341400
	ccaatgtcag	gcatttttca	agtttgaaa	aggggtctat	acttctaaat	atatagagca	341460
	atattctgaa	gagaaggtta	aataatatgt	tgaatggaga	gaactttatc	ctgtctgaac	341520
5	aacctctttc	gatctattta	gattacatgt	gaaaataaaa	atgttctggt	ttttctctat	341580
	atggtaaaga	ataaaagtac	atatgtttat	caaagtgtac	aatattctaa	atcaggagtt	341640
	cttgaataaa	ttaattacta	catgctagaa	ttcttagaaa	tttagattac	acactttggt	341700
	tttataaaca	gatattttaa	taacatcggg	ctttgcgtat	ctatgcacac	gcgatgtaga	341760
	ggatattttc	accaaagtga	agtgggatgg	aggcggcagt	ttgttgactt	ttcctccaat	341820
10	ctttattcta	ttttaagcc	tttagggaat	tgttccttca	gaaacaacgt	cagatactgt	341880
	ctcaaagaag	cttttctgga	aagccctgat	attaaaaaca	aatgagagc	cacaaacaac	341940
	aaaaagtcca	ggatgtccag	agaaaatggt	ccatcttcag	gcattcctga	aagcagacca	342000
	tcaccaactt	tgtcatcatt	attattatth	gctcaggcat	ttctaaggag	ataacatcat	342060
	atctcccagg	aactgcctca	aaggcccaat	ccacacaagg	aagccctatg	caaaattttc	342120
15	aatgaaaatg	cattgcctag	agtaaagatg	gagcattaag	agaagatgga	ggcagaagta	342180
	aggatctatg	agtaaatcaa	tggccatgaa	aactggaggc	actaaaagaa	gctggaacaa	342240
	aacaggttga	ggtcaagatc	agaggtaggg	aatgcactgg	tgaaatatac	aagctacgta	342300
	gggttagatg	gttcaaagga	aggccttttc	atgcagggtt	gtacctaat	gtagacttaa	342360
	aattgaggct	tatggaatca	cagtagtggg	tgaccctaaa	tgattatggt	attattctta	342420
20	tcccctcata	tgaatttttt	aaatgacttt	ctgctaaaga	cgcatttcta	tttcaaaatt	342480
	tagtatcatt	atctaactct	gactctcttc	ctaattcttg	tccttctaaa	tcatttttga	342540
	gagctaatta	ggttgagtgc	cattttcaac	tgctactttg	gaagataagg	tacatgcctg	342600
	catattgtgc	gcttactgct	gtgcacatct	gtgctcaata	tcaatctgca	gggattctga	342660
	aaattaacat	ccctttaaag	gcaaacagga	ttacagggaa	agctatgtat	tattacttgg	342720
25	tgtttggttt	tacggataca	gcctggatth	caattgaaaa	tagtaagaaa	attagaaaat	342780
	atthtctctt	ttctaaaaat	gctcccctcc	tccacacaca	catagaaaaa	tataattaga	342840
	aaaaatcata	tcttaaaaaag	caaataagta	ctthaaaaat	atattcatag	ctttgaaaga	342900
	tgcaactatg	caatataaaa	ttaaatccat	ttttattgtc	aagaaaatgg	gctaatagaa	342960
	ttttctacca	atthtatgat	aattggcata	tggataaaac	agaaaaaac	aaagtcttga	343020
30	ttagaattac	tgtatctgga	ggtthtaagt	taggggaaaa	aaagtcaact	ttthtttttc	343080
	ctctctctct	aacagthtat	cacaagcaca	gthtcccccc	actactttca	atthtatatt	343140

ES 2 784 246 T3

	ctaggtttta	gacctctgaa	atctgagaag	atctgtgcct	aggggaaaga	gactgccttg	343200
	aagaaacatg	tgtttgtgac	tgagtcttat	cagagtataa	ataacacaac	tgtttccaag	343260
	aagaaaagat	cagataacat	atagtcaatt	gtagcctgca	gggttgaaag	aattgacagg	343320
	ttttattact	tgctcaaatg	aatctttaat	actttttggt	ttgttttggt	ttgtttttga	343380
5	gacggagtct	ctctatgtcg	cccaggctgg	agagcagtgg	tgcaatcttg	gctcactgca	343440
	agctccacct	cccaggtcac	gccattctcc	tgccctcagcc	tcccgagtag	ctgggactac	343500
	aggcgccac	caccacgcct	ggctaatttt	ttgtatattt	agaagagatg	gggtttcaca	343560
	gtgttaccca	ggatgggtctc	gatctcctga	cctcgtgatc	cacctgcctt	ggcctcccaa	343620
	agtgctggga	ttacaggagt	gatccaccgc	acccggccaa	tactttgaag	atagtaagaa	343680
10	aaggagcaag	atcggtagtt	aaaaacacca	gagaatgttg	ctagaatgag	ctccacaagt	343740
	gtatgttgaa	ttctctggtg	ttatagttgg	gacgacagag	tagacagagg	gagtgattaa	343800
	agaacagaaa	cttaacacac	cggagcacc	ttgtttgtcc	cgtgctttac	agtcttcatt	343860
	taacttatca	cacacatagc	aagtacagta	tagacagaaa	ccaagacaat	atgctataag	343920
	attgagtaaa	aaggaaagtg	atltaaaaga	ataaggaagc	caaaaaggaa	gcagttttgtg	343980
15	gtcgcctgag	agatttgtga	ccataaagca	ggggctggtt	aatattttct	gcaaatatcc	344040
	agatcgtaaa	tatcttagat	tgagcaacta	ttcaattctg	ctttgctggt	aggaaagttg	344100
	cctagataat	atatcaacaa	atgggttttg	ttccaataac	actttattta	ggaaaactga	344160
	aatttgaatt	ttatattatt	ttcatatatt	acaaaatggt	tttcaagcac	taaaacatat	344220
	gaaatccatt	ctgtactcct	ggattacaca	aaggcaggca	ctgggctgga	tttgtccagt	344280
20	gggctaccat	ttgctgatcc	ctgcattag	gcctgtgctt	ataccttgac	ttcaggtatc	344340
	tgcaaggata	aagaggagga	accctataac	accctcaagt	tctctctgac	cactgtgatt	344400
	tttaaaacac	actttctttg	aatggctatc	tttttccttt	aagagataac	ctccacattt	344460
	agaaacatag	acactagaag	gtctggcaaa	tgaagagaa	ttgtggatta	tttttccatt	344520
	gaatgattta	aaaataaata	aaacaacttt	gattgacatc	tggttagatta	aaaaggcaag	344580
25	atltattttcc	tacaaaataa	agaaactgac	acatatgtca	gacacacgtg	gcattttctga	344640
	tgtggaaaga	aggaaagaca	tcaataagac	caattaattt	actttcttta	gctttgtggc	344700
	aagtcaccta	actcgtcaat	ctgtgtgcag	gcaaataatg	attacattgt	tctgtgctag	344760
	gatggtatta	aacattgcca	ctttttaatt	tactctttat	tatactgaca	ggtaaacaaa	344820
	gcaacacgaa	ggctaaataa	aagtcatttc	ccaaggtaa	gtttacaatg	ttggttcatt	344880
30	tacagtttag	tggctctgaa	agtgaagagt	ttatltttgta	ttgttcaact	agcttgcttt	344940
	gctgtggata	cacttgctca	atattagtta	taaatgtaat	ggacatgtct	atataagaat	345000

ES 2 784 246 T3

	gagtataggt	cctataatgt	ttatttaacc	aggctgaata	atgagaaaca	tccttgtcat	345060
	ctatcacacc	cttcaaataa	aaagatgagc	aaccctgagg	gtgcggttgc	ttttcttttt	345120
	ttttttttct	ttgagatgga	gtctcggctc	gtcaccagc	ctggagtgca	atggcatgat	345180
	ctcggctcac	tgcaacctcc	aactcccggg	ttcaagcgat	cctcctgcct	cagccttccg	345240
5	agtagctggg	attacaggtg	cagccacca	tgcccagcta	atttttgtat	tttttagtaga	345300
	gacaggtttc	accatgttgg	tcagagtgg	ctcgaactcc	tgacctcgtg	atccaccac	345360
	ctcagcctcc	caaataaagc	tcagcggtag	attgctttta	caacattaaa	ttgcaaggtc	345420
	tatgtctcat	aagagagcag	gttaggacta	gtctccacag	gtccagtggc	aatatcctta	345480
	gtatcataaa	caatacactc	agaccattaa	gacatactgg	aaacaacatt	ttggttgcca	345540
10	ctatttccac	tgatgtgtac	cagagacata	tgaagacact	tttacacaag	ttgcataata	345600
	aaaccaaagc	aatgaataaa	ctttgaacat	ttgtgactaa	atgataccta	cattgtattt	345660
	aattatatta	tgcatatata	ctgcatttga	ctctcactcc	aaatatgtta	gaaacttttc	345720
	atattaaaat	ataaagctct	attttcattc	aatagatgat	ccttagttaa	ttcaatgagt	345780
	cccattcatt	gatgaattgt	ttgccttcat	tttgtgttaa	tttttttgtc	atttttttct	345840
15	tctcatgagt	tttgttacct	gatatgataa	cctttcccag	tgaaatattt	taattttatc	345900
	tagctataca	ttcttctaga	tcttttttgg	ttataggcat	tttttagtttt	caatctgtga	345960
	tttttctgta	attaattttt	gtaagaacta	aattaaatat	tatctttttt	gaattatctt	346020
	aatgtctcac	atcacttatt	gagtagcctt	tctatcctcg	ctagtttaat	attactgcaa	346080
	tttttacaaa	ttgaatagcc	atgtgcattt	gtatctattt	ctacctctag	attctactga	346140
20	actgtccaga	tatgaaataa	ctacaataaa	caggctatta	caatattaat	aaactatctt	346200
	aattgtcttg	ttactatttt	ttctgttaca	gcaaaataag	ggtagggacc	ttcagatgga	346260
	cagattagcc	tggaataagc	aggtaagccc	aataaatcac	atgagtcatt	gactatgggtg	346320
	aacttttttt	ctggctggga	gcaagagacg	caaagatgga	aagggttagag	agatgctatg	346380
	tgagaagact	caatattctg	tctctggcct	tccagatgga	gaagccgagg	atcaaggatc	346440
25	gggccaggag	ccaaggaata	ctgccacctc	tagaagttgg	gaacggccct	cagcttacag	346500
	ccactaagaa	aagggggatt	ttggccctct	agctgcaagg	aatctaattc	cacttgaatt	346560
	aacaaggaac	atccaggcag	gaatgtagcc	ctgacaacac	cctaatttag	gccagtcagg	346620
	cccggacaga	cttctgaccc	acggaattct	aaaataattt	gtgtttctta	aaccatcaaa	346680
	tttgttgtaa	tttgttatgg	tagcaacagg	aatcaaatat	acctctctac	ttttacaaga	346740
30	tattgttgtc	tgagcctgt	ttgaagtcgg	tgactaaaca	cagctgggta	ctatggcagg	346800
	cccattctga	agagttgcag	gacaccctcg	gg			346832

ES 2 784 246 T3

<210> 39  
 <211> 10584  
 <212> DNA  
 5 <213> Homo sapiens  
  
 <400> 39  
 cccgcagctg cgccccaccc gggccaccaa gcacggtgga gggggaacag gacactgcct 60  
 tcttgcttct cttctctctg gcactctcct cttccgcccc cttcctttta cccttccttg 120  
 10 ttttcatcta ctcgctgtga gcttctctct ccttacaac cctttttcct gggctagaca 180  
 ctctgggtca agttcagagt atcgtgtcct caaggcctct tctctgcaag aaaccccgat 240  
 gattagaggg ctggagggaa aaactcatgg ggaagaaagc atgggggtgtt ttcaccaaat 300  
 gccaaattca tctcagtttt attgcgcgcc aactgcatgt gaggcaccag gtgcagggag 360  
 acaggagaca gtatccgagc tccaccatcg cggtatagag ggtgagacga acagtaacca 420  
 15 agaaattaat agaataggca ctaaagggct tggcgaatgg aggctccacc acactttcct 480  
 ggagcgagtg agttggacaa gatgaggttt ctctgggatg gcgatgtctg agctggggcc 540  
 agaagtaaga gttggggatt caggggtccc atcacctgtg tgtgctggaa ggaaatcttt 600  
 gctattctta gcacggtggt gtggggccag ggcgaggcag gaggtggaat ggaaataatt 660  
 aaataggaag caaaaattat cagtccacag gatcctggtg tgatctgcga gggagaggtg 720  
 20 gatgaacca ggagtgaggt cttctctgct ggaggttcct gctctgcact catccaaaca 780  
 cccagcagga aaccccagtt tactgcaggg agaacctgaa gttgtatact cgttttggct 840  
 acctttgccc ttcagctggg aggaaaagca gagtttagaa acaagtatac tctccgtctc 900  
 tgggactggt tcattatttg taaaataggg tggctgaagt tggaaattca cgggtccttt 960  
 cccgtaggc gatttgagga gaaaggagca tttggacact atggctccct cggttttccc 1020  
 25 acgcctaacc tggaagaaag ccatcgcccc agctgcttgg ggggctgccc cctaactagc 1080  
 aaccttggtg acaccagatc ggggtgtttc agcttctggc ttttggtgag ctggacgggtg 1140  
 ggagcacgtc tgtccgtggg gtggcttagc caggctgcag gagtgccgtg agcgggtcag 1200  
 gcccgtaatt tccatcttta gtcaggagct agatttctgg ctagctctat gtggccagtt 1260  
 tgtcctaggc cagaagacgt ctgagaatag atgttacgac tgaagcttgc aagaaggccc 1320  
 30 ggggaaaaga gcagcttctt ggtcctaagc cttttcaaa gtaagatgtt ttctctttca 1380  
 ctgtatgtcg gaagctttcc tctgccaata ggagtttctg cgcgattttt gtccgctgag 1440  
 aacttgaga gagccgagca gcggacagcc tcttggcctc gggagccac agaattccaa 1500  
 ggacgctcac agtttgacaa gagcctgctg gagccaggtg gtccttttc cttggaacaa 1560  
 gaccgtgaga caacagccct gtcccagccc aggaagctgg ggtctcctgc accgctgtca 1620  
 35 ggccgctgct gaggagctct gcgtgccgca cacttaaggg ctctccggac ttcgaccca 1680

# ES 2 784 246 T3

	cacgcagctc	gagcaaagg	atcttttgtt	gataacctcg	atagcatccc	ttccgcgggt	1740
	tgctggaaca	gcagagtctc	cttttgggga	gcagctctgg	gaccgtgccc	gttggggact	1800
	tgcggtcct	gggaaccgat	cgaggggagg	ggccttcag	ggactcccgg	gacaaatctt	1860
	gggcgcataa	cgcaaccct	gagcacaana	aatgagccag	gccctcactg	ggtgagctcg	1920
5	ctacagccc	cagaccgcc	gccacaacct	caggttcagc	gccaggggac	gccaggggct	1980
	tggccagtgt	cttcggcctc	ggcgagccag	gttcacgca	acctgggaca	aaacagtctc	2040
	ggaggctgag	cgaagcggc	cgagcctcac	gcttcgcag	tcaggttgtg	cttggcgagg	2100
	gtagaaagta	cttcccacca	cctagggcac	agccggacgc	ggcggcccag	gccgcaattg	2160
	ctgcctagag	cgagacag	gagctcgggt	cgcggtctg	ttttggagag	tggcgggctg	2220
10	cgcccgccg	ggaggatcct	gggggattcc	aagcgggca	ctgggcccgg	gtgcagagct	2280
	ggggccgcg	tggggagggg	ggcgcgctct	cctcttccc	tacttcccgg	gaggttaatt	2340
	ccgacaagt	ttgcaggcg	tcagtggcac	cgccggggg	cggaacgcg	gcgctccagc	2400
	tgctgcaga	ccccctctca	agaaaaacag	atcgtgtaac	cacctggca	ccaaccagtc	2460
	ggtttcaagt	ttccgcgag	aatTTTTTTT	tgttgTTTTT	aaacaactac	tgcactatcc	2520
15	aaatattgg	tggcgctcag	gacgctggca	ggcaaatcat	tgccccggg	ttagtgtaat	2580
	tatctcagg	gtatttggtt	tacccttag	gcaattgttg	gagacgctat	gctaggaaga	2640
	gggttccat	gcaagctttt	attgcgttta	attggctcta	tggaggggag	taaaaaaga	2700
	tgtggaact	taggagcgt	tatttatca	ttctttctcc	tccatgccc	cagcccctgg	2760
	agggtctcac	gcgctccttg	ggctggatct	aggccaggcc	ttcccacggc	ttctgaggac	2820
20	agctgtgcc	agggcgagga	ggaacacaag	ttaccgatag	ggctaggacg	acgtacagcg	2880
	ctagaaaaa	ggcaaagggt	taggcgcaca	tctcaatttc	catgggttct	ccctttacgc	2940
	actgacttag	ctgacgtgcg	gaaggttgcc	tgggttagtt	acgtttgggg	tcctcccagg	3000
	agccttctg	gtcacgctag	cctggcactt	gcctgacctt	cggctgactt	ctcggcgcat	3060
	acttttcca	gacgaaactc	ctaaagtgga	tttgaagagg	gtaggagaaa	gccagcccca	3120
25	ggactcggaa	acgtggcttc	cagctcgagt	ccaggcctgg	atgaccctgg	aggcatcatt	3180
	tcaccgcttt	gggcttcttt	ttctttccag	gaaatactca	gtagtcagaa	ctgcgccttc	3240
	gaaggctcca	aggagttag	gtttgaagct	gtgatctcga	cgggtgagtg	gcgctggggg	3300
	tctgggcgct	cggagcgggg	agctcaggag	ctgcgcagct	ggggacgctg	cagggcagca	3360
	gcgccaccgg	tcaaccctt	ataacgtttt	aggaatccgt	cgctccagc	gtcaccaacc	3420
30	cgacctgaca	tctctgcgaa	gtgcatccct	gccccgtttc	cgaccctcc	agtccccgg	3480
	ccttgcccgg	caggcgcca	ggacacaggt	ttggctccgc	cctacttggg	tttgagtgca	3540



ES 2 784 246 T3

	taagctcgat	ttgacttttc	ggaatgcccg	agggtggagg	gcagaagga	aaagcctgag	3600
	gtcaggggca	tttatttctt	ggagaaaaaa	agcactggcc	ttgaatttag	gagacgatac	3660
	tcgagctcca	gcttcgccac	ctactggctg	tgcgactgcc	tcttctctga	gcctcagttt	3720
	ccttttctct	aaagtggcga	tgaccctggt	gccttaaaag	tgcgattctg	agacgtggga	3780
5	ttttgagagt	gactgctgga	atactttgat	ccagtaaacc	tctatcaaga	gcctactgtg	3840
	tgccaagcgt	cagaaaacgc	cttgtaaagt	gtgaagcatt	gtaaatacat	aagatgctat	3900
	tatcgttttt	gctgttagaa	gtcatcatct	tttcttctct	ccaaatctaa	ttgtacctaa	3960
	gaagagctcg	acaaaatgaa	gcccgcggc	ggtacatgag	cgggtggatg	tatctggcgt	4020
	tggagtggtc	agccgcgggg	tgcacacggc	tttctctcgc	agtgccaccg	gccaaagaaag	4080
10	acagcccagc	tttctgcccc	caaagtttct	agcacctccg	ctcgcggggc	agactggctg	4140
	ggttgctctga	gccgtaggtg	tgcgagtttg	aggaaggag	gatacaaggg	ggtccagcca	4200
	gcagcggaga	gccaggggat	agcgcggggc	cgcgaggct	cagggttgcc	gtgccagcgt	4260
	cgctccacct	cgacattgac	cccaggctct	cgctctgacc	aaactcactc	cgcaaagacc	4320
	ctacgtgctg	cccagagtca	gaaacctgac	ttttaaatct	ccactcttcg	aggcgagatt	4380
15	cgtctcgaac	accgcggctg	tgtacactgc	ctgtggcccg	gggcgcgcaa	tcagcgtgga	4440
	gatgggaagc	gtttgtgtca	ccctagcaga	gcaatttccc	ctttacagtc	caccgcgccc	4500
	tcacacctct	tggccaacat	ccagaagctt	tcctacgggc	cgtgtctggt	taggtagcgg	4560
	ccactgacaa	ccataaccac	caaataaata	accaacgatt	aaaaattaaa	taactttctt	4620
	gcgctccctc	cgacgactaa	taacaaagac	tccgcacatc	agcaaccagg	tgtcgcgggt	4680
20	aaactcctga	cagtaactgt	cttctttttc	agccagccag	ttctggaata	cattacatta	4740
	attaagtctt	tggtgattta	gcctccttgg	agagaagtcc	aacaatgtaa	ttaagagcat	4800
	actggctata	ttagatatga	atattcaaaa	cagtgtcaat	taattagcca	acagatctag	4860
	ctcactatgc	ttcgaaagcc	cctgaagtcc	tctaagatac	atttaaaggg	tcacggcgg	4920
	ggaaaggaga	ggggggtaaa	gaatattaaa	gaggtgggtc	cagatgatct	cttcgttcca	4980
25	cataaacatt	ttctaattgat	ggcgatttat	aacgtccctg	acatcacata	ccgcaccttt	5040
	gggcacgtgg	gtgcccggcc	atgtctgtgt	gtgtctgggtg	gtggtgggtg	agttgggggg	5100
	gcggggcgga	tgttgttgat	ccatcagagc	aaagatcttt	tataattaaa	gtgaggaggc	5160
	atccaactgg	aagggccttc	ttagaggcac	caagaggcta	tccattgtac	atcctctcag	5220
	acatgttaga	aagataaata	ttaaatctgc	tatcaciaag	ggagctgtta	aatagatact	5280
30	aagctgatat	gcataaaaaa	ttaattaggt	agttttctca	gcatcaaact	cctggacaaa	5340
	taactacttg	taaagtacac	cttctgggca	tattgaacat	atgctggaat	tatccttaat	5400

ES 2 784 246 T3

	tgactaatta	cataaattac	tcattaatth	tacagcacat	caattataaa	agatatatca	5460
	attaatthttg	cataaattaa	gactggaatc	tccctcccc	caaaaaaacac	aagagagagg	5520
	ctgctgtaac	aaaatatgca	gagaggggag	aaaaacaatg	tttgtgtatt	tgtagattgc	5580
	aataataatt	tgttctgctc	tgggcagaga	ttttcttaag	gaaaaacatc	cttggcaatt	5640
5	aaaatagtcc	taaagaccac	ttacgatgtg	atcatgcggtg	caccaaggcg	aaacagacca	5700
	tttaaatcaa	ttaggactgc	tctgatggaa	aatgagggcc	tggcaatgac	aaagtactca	5760
	gacattagta	atcacaaatg	atttaacatc	cacattaaat	gcctgactgg	gtagtaaggc	5820
	ttatthttcct	aagtcagcag	ggtgcccgta	acgaagttat	ctctgggtat	cccaaagtag	5880
	acttcggcaa	cgatttcaca	cacaattggt	ggaaattaat	ttgacacctc	tcttcaacct	5940
10	aactcctcca	gcctgctcgt	ttcgggctct	cctaagcggc	tgttggcctc	ctcacctcct	6000
	ccctcgthtc	cttaaaaagg	tcattaaatg	cttcgtcacg	agcccagccg	tggggccttg	6060
	ctccttctgt	tttgggtthtc	tcctccccctg	gtgggactgg	cggtcttcag	aatacagact	6120
	gtgtctcggc	ctaggctagc	gggtcgagaa	ggtgatthtc	aaggggtgag	caaagtctga	6180
	gacccccggc	tccttgactc	ttcctggccc	gcctccgca	gtctgccagg	ctgaggctga	6240
15	aaacacgagt	ttccagaaag	gctthtaggca	ggctgcgggc	gccgggagg	aagccgggag	6300
	accgctgcgc	ccgctgcgcc	cgctgcactt	tggcaacgag	gcctgcgtga	thtttagtcag	6360
	cagggggcgc	tgtctcccct	ggtcgcgcc	ttagagagga	agccgccttc	ggtgcgggtt	6420
	ttctccgcac	agcgatggag	gtggagagat	gtgagthtc	tggggtagcg	gcacttctag	6480
	aatgccag	ctatggttca	ctggthtccc	ttctgtgtga	aaaccccaat	ctaccttgat	6540
20	ttgtgccaac	catctgtaat	gctthtcata	gataactthta	gacaacatca	aatcaaacgg	6600
	tacttgaaat	acatcccaaa	thtcctcttg	gaagthgtga	acttogaagt	tgcacctaca	6660
	aatatagagg	tgtthttcca	aaagaaacaa	aaacttccct	gaaaggaatc	cgtagtcatt	6720
	atthaatgcc	agccccacgt	gtgtattgat	aattattgac	aatagaaata	tagaathttc	6780
	tatgttgtha	agaagcctth	caacgatata	agtgggagat	tcaagthata	tagaatcata	6840
25	tggthcaaaa	atthttgthtt	tatathctth	taagtathtt	gtathcatag	tgatcattca	6900
	taactctgaa	gtaaaataaa	tcagaatgac	agacaactgg	atgthggaga	aacagaaagg	6960
	thttactthtc	aagagatgcc	tagthttggtg	gatagthaagt	ttatgatcag	cagattccca	7020
	atcccacact	cataaattgg	ttgtgtthaaa	aatactthgt	thtaaaacca	ctatgtatth	7080
	cactcaaagt	gaaathttccc	ctaggaataa	tactgthaact	ggtagatagg	atcccagcta	7140
30	gttggtactg	ttccgctthta	agtcctgttha	aaccagthaat	gtatctaaaa	atthgaatth	7200
	ctcctthtgag	actgatcaca	accctaaaag	gtcctthttct	tatccccttc	tgttgctagt	7260

ES 2 784 246 T3

	ctccaaagat	actggctccc	acccccatat	tggaccatgc	cttctggaat	tcatgccctt	7320
	gtgcagtttc	ttctcatatt	aaatctgacc	cagtcccatg	ggaacaagta	gcatgtggca	7380
	gaagtgggtgc	agtatgattt	caagccaaat	cagaaggacc	cttgcagctt	ttgccttgcc	7440
	cttttaaaac	acacactctg	gggtgggtgt	ggggattggg	gggtgggggg	gcagtgccag	7500
5	ccaacaggta	agaagtccta	cggctcacac	tgtgaggaaa	tccagtttag	ccaaggagag	7560
	agagagagag	agcttggcgg	gggagagaga	gagagagcgc	gcactcttgg	agagagagag	7620
	atgcctgatc	agccaccagc	tctgccaacc	atcccaagtg	agatgtcata	tgtgggtgagt	7680
	aaaggaactg	tcctggatgt	ccagtccagt	taacttctag	ataatttcag	cctcagttct	7740
	acctgactgc	aactgcatga	gagaccttag	tcaataacct	ccctgctgag	ctcagtcaat	7800
10	ctacagaaac	gcatgggcta	acaaccatt	gctgttcagg	cattatgttt	aggtgtgatt	7860
	tattacacag	cagtagataa	ccagaacata	cattgtcctg	tctcccattc	tttttcctat	7920
	actatTTTT	cttgaatctt	atctctgcta	cagtttgaat	ctggctactc	atgtgagcta	7980
	gcctgggaat	ctgaacacta	gttagaatat	cgaggctggg	attgtgtgcc	aaagagattg	8040
	gcaaggagag	tagatgaagg	agactgcaac	ataattagac	atctctatct	acgcttagga	8100
15	aacagttacg	agaaactaaa	tactgctctt	cctcggagct	tctcaggggc	tggcactgga	8160
	ggatacaact	gtcagtaagt	tcctaagtca	cgtgctcaaa	gagaagtgcc	tctattagaa	8220
	tttctatctc	aatcatgtgc	attgttttaa	ttaaaggttt	ttttctaata	ttctcaaaca	8280
	acagatatat	aattgtatct	atagtatgga	agacaattaa	attagaatct	ttttcaagat	8340
	aaaaatagtg	tctttgaaat	tgctcacatt	tctagagaaat	aatgggtgcta	tgatcagtag	8400
20	tttctgttcc	attagcttct	cctttccaac	taggcaaatc	aataaacttt	atagtgtttg	8460
	ttttcacct	tttattgcca	ccatttatct	aagtgcagac	ttgccattgt	aacttgact	8520
	tctggatagg	cagtcataata	tttgctttgt	tatattgata	agattttttt	tttttttttt	8580
	ttgagatgga	gtctcgcttt	gtcatccagg	ctggagtgca	gtgggtgat	cttggtcac	8640
	tgcaacctcc	acctccctgg	ttcaagcgat	tctcctgcct	cagcctcctg	agtagctggg	8700
25	attatagaca	cacaccacca	aaccagcta	atTTTTgtgt	tttttagtaga	gacagagttt	8760
	caccgtgttg	accaggctgg	tcttgaactc	ctgacctagt	gatctgcctg	ccttgacctc	8820
	ccaaagtgct	gggattatag	gcgtgagcca	ctgtgcctgg	ctaagttttt	tttttttttt	8880
	tttttttttt	tttagcgcaa	cttgtgctgg	tccttttgtg	aagcaagaat	attcaagagt	8940
	ttatagatat	aaaaatatcc	tcagctctta	ctaaagaaaa	atcatcttcc	tattgttcat	9000
30	tgtagtctca	tctttcagat	ggaaaaacag	ataaaatccc	agacattccc	aaagaatggg	9060
	cttcataaagg	ttcaagtaga	tagctggtat	ggattttaat	tgtcttctaa	atcatccttt	9120

ES 2 784 246 T3

	atgcagggaa	agcctaacat	gtttgagtga	ttactttttg	tttggcatcc	aatagtgcc	9180
	aaatggactt	tggcatcaga	ctgatttggt	taatttttagg	tgcttttttt	tttttttttt	9240
	ttttgagaca	gaagcttggt	cttgttgctc	aggctaggtg	caatggcatg	atctcgactc	9300
	actgcaacct	ccacctcctg	ggttcaagag	agtctcctgc	ctcagcctcc	cgagtagctg	9360
5	agattacagg	caccaccac	caccctggc	taatttttgt	atttttacta	gagtcggggt	9420
	ttcaccatct	tggccaggct	tcagtcttga	actcctgacc	ttgtgatcca	cccacctcag	9480
	cctcccaaag	tgctgggatt	acaggcgtga	gccaccgagc	ctggccctag	gctcttatta	9540
	tttagtgagt	gaccttgggt	atgggaccta	acttttatag	cctcaaatta	ctcatatgta	9600
	aaatggggat	gatagaacct	gaaatagagt	gattttgatg	attacatgag	atactggacc	9660
10	taaaatgcac	acggcgaatg	catcataaat	gttagcaacc	tgtcacttac	tcaggagatt	9720
	tctggggtaa	attgctgttg	tattttcact	tgttgatcac	tactttggaa	aggttaaaag	9780
	tgtactttta	aaaatctcag	ttggcagggt	cttaagatga	cttgaatcta	tcaggttgta	9840
	cctgaagaat	ctggagtatc	cttctcatc	taattctcca	gtttttctcc	cctcgaattc	9900
	ctctgtcaga	agcacaactg	taagaacacc	accacttctc	tgctcagaaa	ttttcaatag	9960
15	cagtttgag	atgaccttag	gcaagtgcac	acctcttagc	ttcacattca	aaaagccttc	10020
	tacaattggg	cctctgggtc	tatcctteta	gatttatcac	attccctctg	ctoctaccaa	10080
	aggaggtcag	ttgcatgctc	ttccgaatac	atagccgat	tttccccct	gacttcactc	10140
	ccattgttca	ctctttctga	aatgtgtatc	ctcttctatt	tttacctccc	caaactctac	10200
	tcattcatca	aataagacct	cattcaacaa	ttgcctctc	cacaaagcct	tctgttacct	10260
20	ttcctttag	aatcatcttt	ttcctctaag	tgtctagaac	atggtgttta	cacttcaatt	10320
	atgcaacaat	cacaacctgc	ctttcttatt	aatatgcaaa	ctttatgaaa	gcagggatca	10380
	ttttttatcc	aatttttgtt	tgccacagta	gttagtacag	ttaaatacagt	gcttcccaaa	10440
	ccatctttga	aaaagaacca	gctttgaaaa	aaaaaagcaa	tctggtgcag	attgagatgt	10500
	ttgtaaaaaca	caataaaaaat	gaaagattag	aaaactaaaa	taaaaatacg	gggcaaaaata	10560
25	caagcccaaa	tgtctctctc	tctt				10584
	<210>	40					
	<211>	4241					
	<212>	DNA					
30	<213>	Homo sapiens					
	<400>	40					
	atgtgccacc	acacctggct	gattttttgt	attttttagta	gagatgggat	ttcaccatat	60
	taaccaagat	ggtctcgatt	acctgacctc	gtgatccgcc	cgctggggcc	toccaaagtg	120
35	ctgggactac	aggcgtgagc	taccaagcct	ggccaagtgc	aacaagcttc	taaagcaaga	180

## ES 2 784 246 T3

	atgtggactc	cacgttctga	tttgcccact	tactagttgt	gtggcttcgg	ttggacttgt	240
	gtagtcatt	tttgcttctg	ctcctctgag	ttctcttatt	tttaaaatgt	ggataatggg	300
	acctagctca	aagggtttct	gtgagagtta	actgagttaa	tcactgtaaa	gtacttagaa	360
	cagcatgctc	taaagggaga	agaagaggtg	tggagaaatg	gagtaggggt	gaagaaactc	420
5	ctaaagctcc	cttgagttca	gaagggagat	gaggccagct	gggtatagtg	tgtgtgtgtg	480
	tgtgtgtgtg	tgtgtgtgtg	tgtgtgttta	ggggaggttg	gtgttggctc	cagtgttatac	540
	taagtgtgtt	gtacaggcaa	ggtaactgga	gaaaagggca	aggaaaggca	agtcttaaaa	600
	tttcttagaa	agacctttca	caagccaggt	gcagtggttc	atgcctgtaa	tcccagctct	660
	cagagaggca	gaggcaggag	gatagcttga	gccagaggt	tcgagacctg	cctgggcaat	720
10	atagagagac	cccgttctcc	acaaaaagga	aaaaaaaaat	gacaaaaaaaa	aaagaaagac	780
	ctttcaagaa	taatttctac	caatgagtgg	atcaagaaaa	tgtggtatgt	atgcaccagg	840
	gaatactact	cagccataaa	aagaatgaaa	taatgtcttt	tgcgacaacc	tggagggagc	900
	tggaggccat	tattctaagc	gacgcacctc	ggaaaaggaa	aaccaatac	catatgctct	960
	cacttacaag	ggggagctaa	gttattagta	cgcaaaggca	tacagagtga	tttaacagac	1020
15	tatggagact	cacaaggggg	aggataggag	gggcacaaga	gataaaaaac	cacatattgg	1080
	gtactacata	ttgggtagag	tgacaggtgc	gctaaaatct	caggcatcac	tactatacaa	1140
	ttcatctatg	taaccaaaaa	ccactggtac	ccccaaaact	attgaaatta	aaaaatattt	1200
	ttaaaaaaga	actatatcca	cctgtggcag	agaaaatggg	gtatagggtc	tggacagaaa	1260
	cagacctgca	ttctccagag	accaagaaag	ctattaagag	agtttaattt	ggttctatgt	1320
20	tagtgtggtg	tcaaagcagg	gtgaatttgc	attaagaag	tgtgaaagtc	taaaggcaaa	1380
	gtaggtcatg	agacacgaga	attaaatagg	gagatatgga	gactgtttaa	tgatttaaac	1440
	ctctatcaag	cgaattgaac	aaagagagac	tgtttctctg	tgtttgcatg	gtcatggtca	1500
	ttgtgatcac	tgctcacgtt	ggttgacgca	ggctgtcttg	ccaatggctg	ctatagcagt	1560
	aacaggggac	tggtcagcaa	atgtgcattg	catcaatgac	atggagccca	tgccctttca	1620
25	ctggcttgtt	ggtagtgggt	gcatggggct	ggggaccccc	tcttggatct	ttattgctga	1680
	cctcacttct	ctgtatcaca	caagtctcaa	gaagatagag	aagacaataa	tacttaataa	1740
	aatgagaaaa	ctgttttatac	aatatgttaa	gtgaaaaaag	cagaatatga	aactatgtat	1800
	atgaacctaa	ttggttaaac	atatgtgtag	aaaaatgact	gaaataaaac	agattaaaac	1860
	agtaaataat	agttgtctaa	ggatggaaat	tacagatgac	aatctttcct	ttatatttta	1920
30	tatcttcttt	gctttcattg	ataaaaaatgt	tttgcttttg	caattggaaa	aggtgaaata	1980
	aatgtaatta	acttataaga	aatgtaagtt	cttccttgtt	cagagcttta	cacattgctc	2040

ES 2 784 246 T3

	agcaacaaat	ggttgtttgc	taattggtat	gtaaagggca	ataaacaagt	taattgctgg	2100
	ctacattctc	gaatagctag	aggaagttca	aagcttctca	accttatttc	agctccaaga	2160
	aagaggacct	ctgatgtggg	tcaaagacct	aatggagtcc	tcaaaagccc	accatgcgcc	2220
	atagtgggtg	gaggctgggc	aggagggaga	agcttcaaag	ccccctcttt	ccatgacatg	2280
5	cttcttcttc	acatcaattt	ccatcacttc	cctttccctc	tctcagctac	tgttaaaaga	2340
	tggacttttg	tattaggttg	ctgggggttg	caaagtaaag	tgccacagac	ttaaatacaca	2400
	gaaatttatt	ttctcaaaat	tctaggttct	agaagtctga	gatcgcagtg	gcagcagggg	2460
	tggtttcttc	tgagacctct	ctcctagctg	gcagatgccc	tttttctctg	gtcttcacat	2520
	ggtcttccct	ctctgtgtgt	ctgggtccga	atctcctctt	cttatgaaga	tatcagtcac	2580
10	attggattag	aaccacact	aatgacctca	tttaacttaa	aggctctatc	tccaaatata	2640
	ggcatttgga	aatactgggg	gttagggcca	caatgcataa	atTTTTgggg	gacacagttt	2700
	agcctataac	aggattgaag	tgtctccttt	cttaaggagc	catgtctctg	ctcatagaga	2760
	ttcaaaagaa	agccaaggtt	gggcttagga	gaaaataagc	aaaagtagag	gctgcttaaa	2820
	gtttttgggt	ttggtatagc	ccaccaggtt	aagaaatctg	acaggaatTT	gagtaatctg	2880
15	aatccattct	gcgtttgccc	agagtctcct	tctggacaca	tagccctctt	aaatctctgg	2940
	ctgcattgag	gctgcttgag	aatttgaaat	ctcagtcatc	tcctccttgg	ggacatgggtg	3000
	aatatgtcat	tctgttgaac	tgatcaccat	attatcggat	gtttctacaa	aagcaaaaca	3060
	gagtgagag	cagaaatatt	agaatcttag	aaagtgacag	gggctggagg	atgaagaggt	3120
	ggcagggtaa	aaggatgggg	tactttggtc	atattatcct	tgataggctg	gttgacattc	3180
20	tcattctctg	ctaagaacaa	gcagaagcat	cccaggaaac	tcttatggga	ctttaatgtg	3240
	atgaaatgag	agagattatc	tctctcctct	gcctaaggga	tgactatcca	tagaatgtac	3300
	tcagacttct	ttccaatcac	agagataaat	cctgaaagtt	ttgcagtatg	gtactgattt	3360
	ccttgaccta	ccagagtcca	ggtctataaa	gtttgccttt	gcccagccag	cagatgggtgc	3420
	catttttcta	ggaaattgag	ccagattcag	cttgaactgt	catttggcct	ttagtgttgt	3480
25	aggcactgtg	ctcacagcat	gttgatatag	gcttcacagg	taaccagttt	ctgttcgagg	3540
	aaagtctagc	gctcttacct	gcagttgaac	acactgaaat	cttcaagttt	ctcagtttaa	3600
	gtgaaaactt	ttatTTTTaa	aatttcggga	taattagaag	aaaatcttag	tatttccttt	3660
	agaaaaatct	tccccaccc	ctcaactctc	tctttctctc	tctctctctt	tctcgcatct	3720
	tattccaaca	taccaggtgg	agccatctca	tctttccttt	gaaaggccct	ctcacaatcc	3780
30	ttcacgctta	cacatgggtg	gtggactaaa	ttctatagtg	aaattgtagc	ttttgaggaa	3840
	tgagtacttc	tgaacagctg	ctttactttt	tgggggacat	ctagctgtgt	atttatcttt	3900

ES 2 784 246 T3

	taaggataaa atgctttcct tcaaaaaaat atatacatat tctgaaatat ttggaagcca	3960
	gttgcagatg ttatgacaca tcagccctaa atattcagca tataactcct aacaataaag	4020
	actttcttct atgtaactgc taaaccatga ccatatctaa gaaaatcaac agtaatttcc	4080
	aagtattact taatatccat ttcatattca aaatttcocta gttatttccc atataccttt	4140
5	catagctggt tttattcaac tgcaccaat caaagctcac acattacatt tagttgtttc	4200
	atccattcat atatacatat atatgtgtgt gtgtgtgtgt g	4241
	<210> 41	
	<211> 601	
10	<212> DNA	
	<213> Homo sapiens	
	<400> 41	
	cctgtgcatc taatttagtg gggggcagac ctgtttcaca agccaaaata acaggctgca	60
15	ataactgagg attttatata taccctgacc aaagaagttt gcatttctcat agcaccatct	120
	agtggaaatt tggggatfff tgttttacat cgaacagcct aaaatggaga tagtttatgt	180
	tattatgaca gggagagaag actgcacgat ttgctaattg aggtgcaata cagacaagta	240
	aacaaaaaca ggaaaaatgt ggcttatgtg aaagacattt tttaaccata tacaacatgt	300
	tctataaaaa cagagcaaag ccgtttagctg aggaacttgt gtgcacaaaag aaatatgtac	360
20	aaatagcttt tccagaacag tctagtaaaa atatgtagta aaagtgggaa gattatgtta	420
	tatagaaata tatgtttatg tgctgtgttt atatgccaca gcctcaaacc ttcttataac	480
	ttattaacaa ttatatgaaa atataggaac aaagctcatg ttctgtatga atacaacagg	540
	attcaaataa ccacatacat tacaagagt tgaataaatt gaattctcta ttttctactg	600
	t	601
25	<210> 42	
	<211> 252	
	<212> DNA	
	<213> Homo sapiens	
30	<400> 42	
	attgtggaac tgctctttct ccctgcgatt cagaggggaa aagataaagc cacacagccc	60
	tggggcctct tgcttaagaa cacatctcag tttaaccacc aaggccgtta tgataacaaa	120
	tgtcagtatg gaggtgtgaa catcaggggc tattcaagga cgcttctctg atcactgcca	180
35	tgtctatctg ctgtgatcac gactatttta taaacacct tectaccaa tgccatcaga	240
	atfttaggga cg	252

**REIVINDICACIONES**

- 5 1. Un método para el diagnóstico del cáncer de próstata que comprende los pasos de analizar en una muestra de un paciente el nivel de expresión de una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29, donde, si el nivel de expresión de dicho ácido nucleico es superior a un valor umbral, la muestra se identifica como un resultado de cáncer de próstata positivo.
- 10 2. Un método de acuerdo con la reivindicación 1, donde la muestra se selecciona de entre el grupo que comprende tejido prostático, una biopsia, nodos linfáticos, orina, eyaculado, sangre, suero sanguíneo, plasma sanguíneo, células tumorales circulantes en sangre o linfa y cualquier tejido del que se sospeche que contiene metástasis, así como cualquier otra fuente que pueda contener células prostáticas tumorales o partes de estas, incluidas las vesículas como los exosomas, las microvesículas y otras, así como las moléculas de ARN libres o unidas a proteínas derivadas de células tumorales prostáticas.
- 15 3. Un método de acuerdo con la reivindicación 1, donde la muestra es una muestra de orina.
- 20 4. Un método de acuerdo con cualquiera de las reivindicaciones anteriores, donde el análisis del nivel de expresión se realiza midiendo la fluorescencia de un cebador marcado, una sonda marcada o un agente de detección fluorescente.
- 25 5. Un método de acuerdo con una cualquiera de las reivindicaciones anteriores, donde el análisis del nivel de expresión se realiza mediante qRT-PCR.
- 30 6. El uso de un cebador o una sonda que hibrida en condiciones estrictas a una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 para el diagnóstico del cáncer de próstata.
- 35 7. El uso de un ácido nucleico de acuerdo con la reivindicación 6, donde el cebador o sonda tiene aproximadamente entre 10 y 100 nucleótidos de longitud.
8. El uso de un cebador o una sonda de acuerdo con las reivindicaciones 6 o 7, donde el cebador o sonda comprende una marca detectable.
9. El uso de un cebador o una sonda de acuerdo con una cualquiera de las reivindicaciones 6 a 8 para el diagnóstico del cáncer de próstata.
- 40 10. El uso de una variante de empalme del gen identificado con el ID ENSG00000255545.3 en la base de datos Ensembl seleccionada de entre el grupo que comprende el ID. DE SEC. N.º 26, el ID. DE SEC. N.º 27, el ID. DE SEC. N.º 28 y el ID. DE SEC. N.º 29 —o bien al complemento inverso de ella— o a un ácido nucleico que tiene al menos 85 %, 90 %, 95 % o 99 % de identidad a nivel de secuencia con el ácido nucleico seleccionado para el diagnóstico del cáncer de próstata.
- 45 11. El uso de un kit para el diagnóstico del cáncer de próstata que comprende un cebador o una sonda de acuerdo con una cualquiera de las reivindicaciones 6 a 8, y reactivos para la amplificación y/o la cuantificación y/o la detección de ácidos nucleicos.
- 50



FIG. 1:

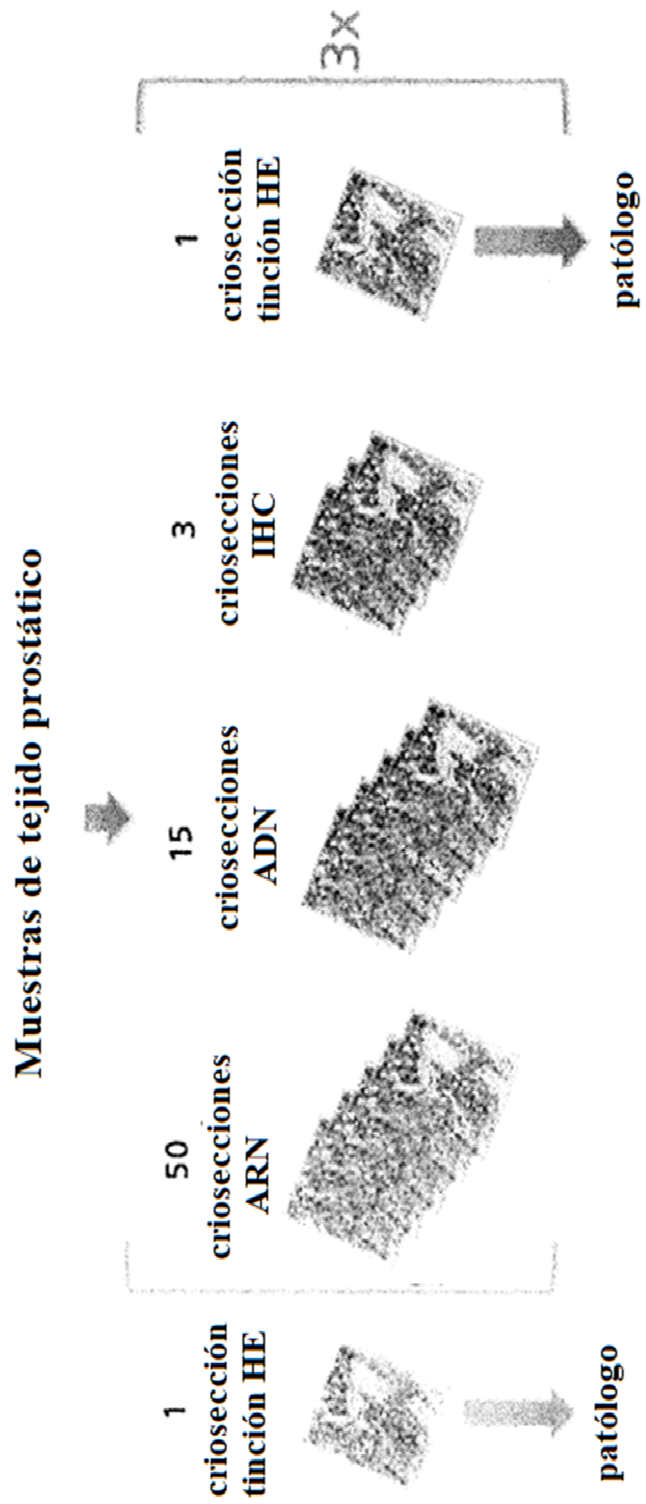


FIG. 2:

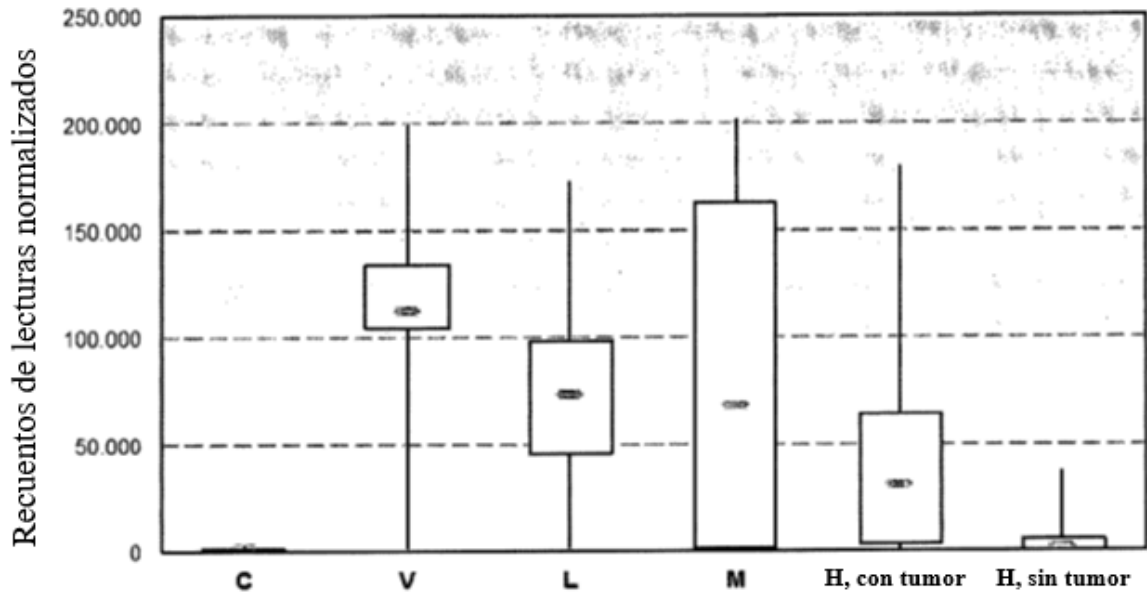


FIG. 3:

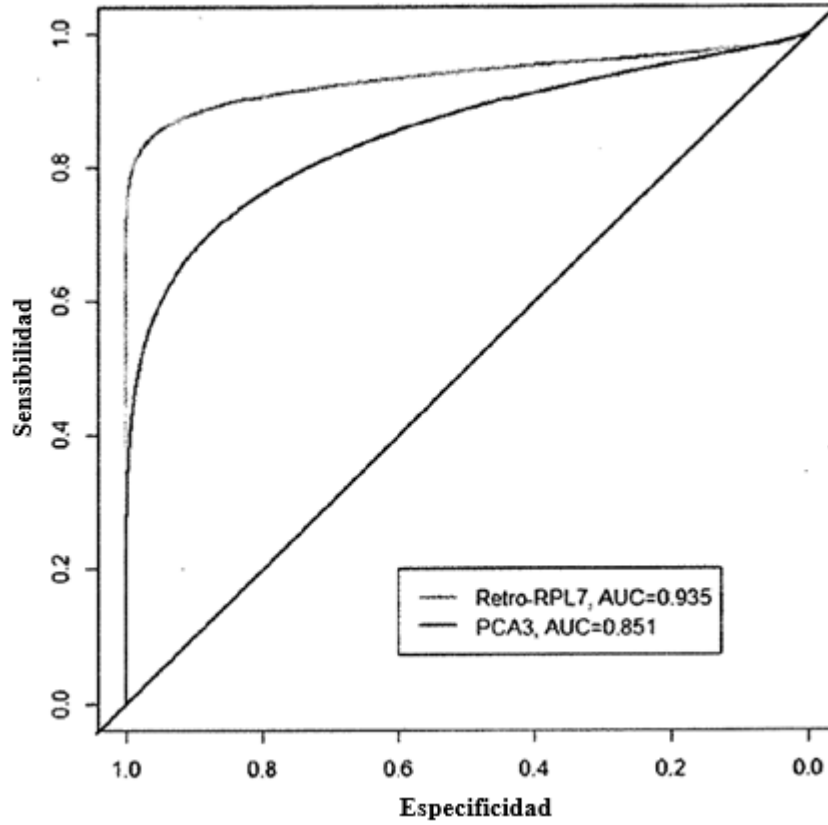
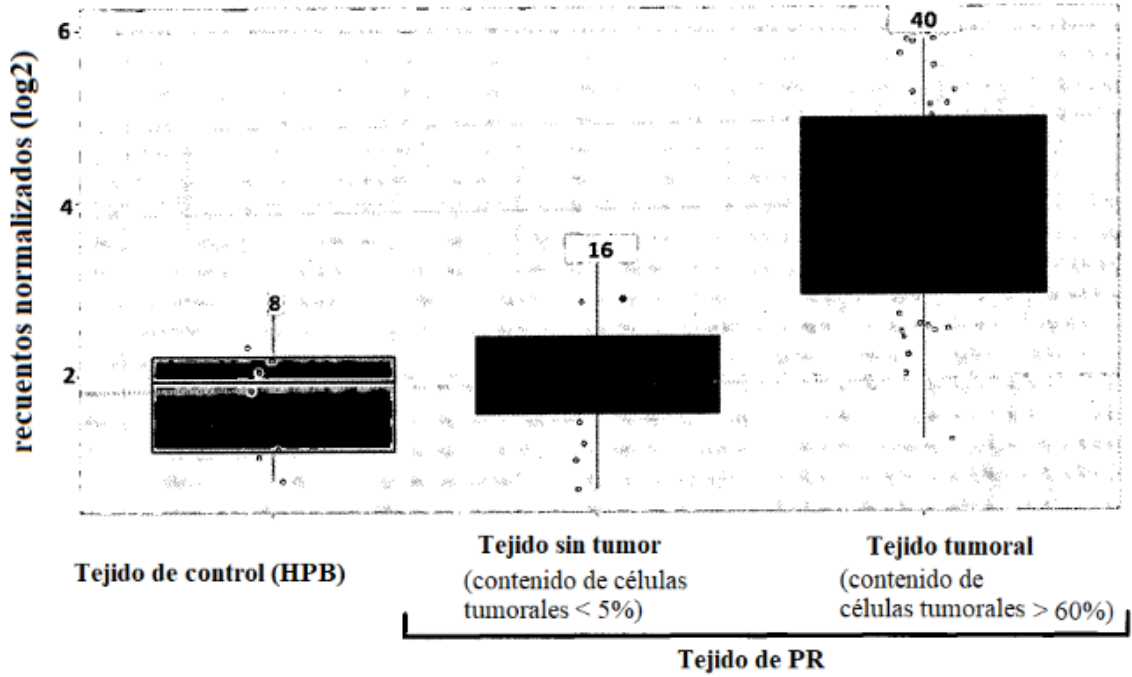


FIG. 4:

Secuenciación de ARN de los ID. DE SEC. N.ºs 26 a 29:

A) Diagramas de caja



B) Curva ROC

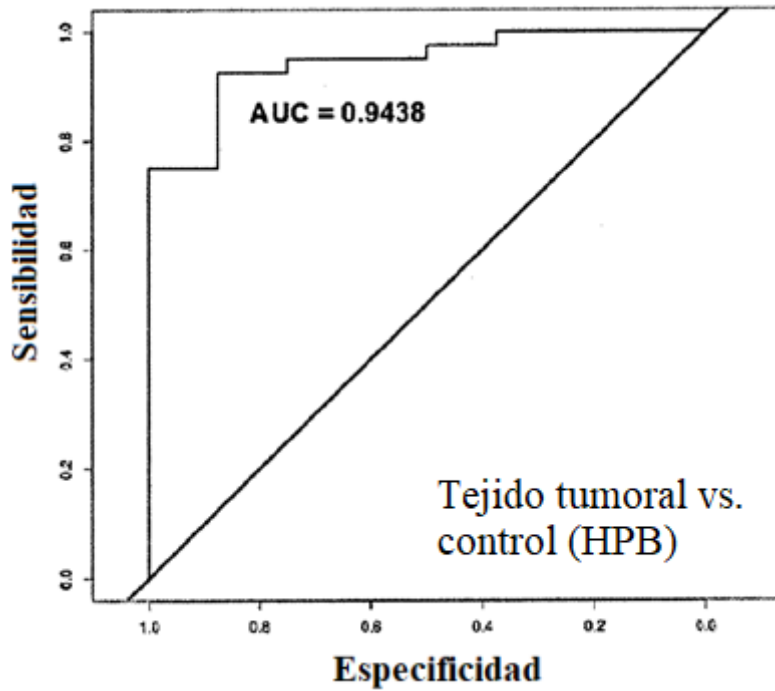
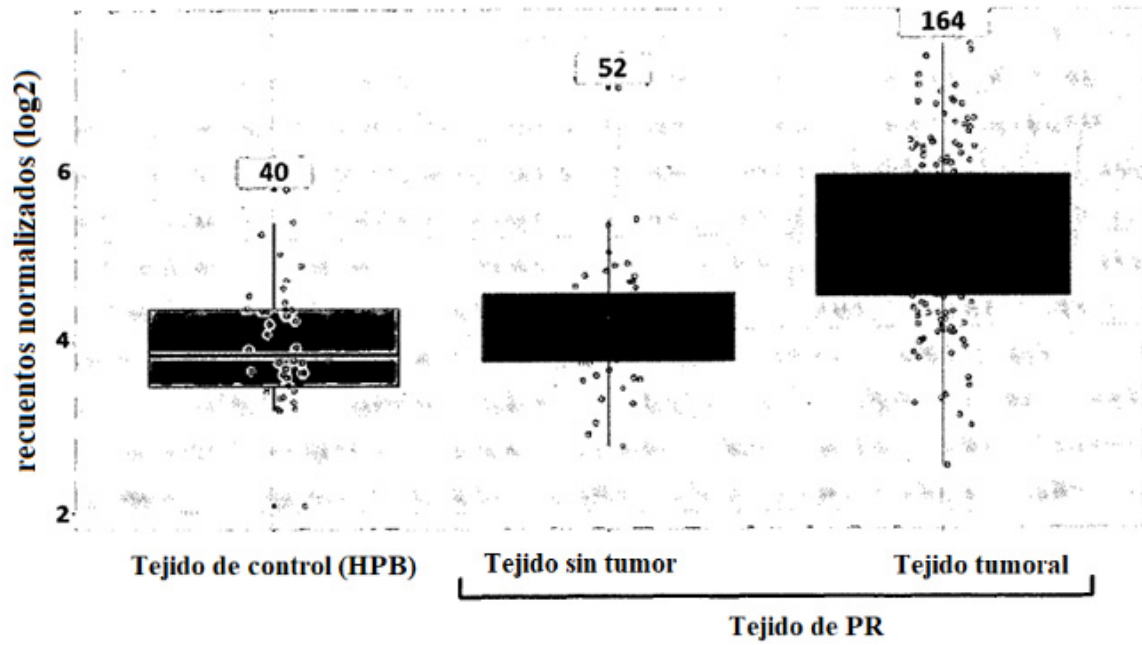


FIG. 5:

Análisis del ID. DE SEC. N.ºs 26 a 29 mediante microarreglos:

A) Diagramas de cajas



B) Curva ROC

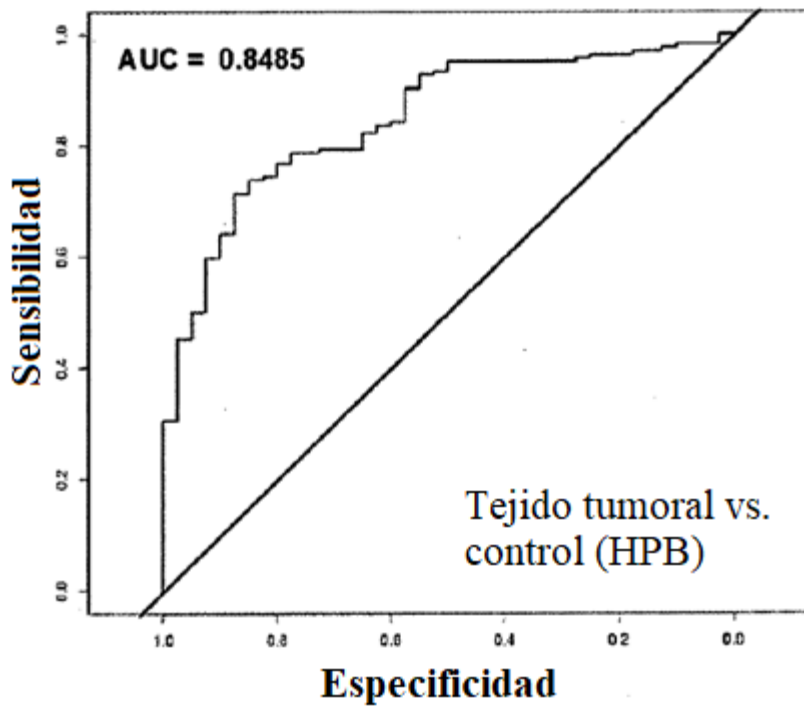


FIG. 6:

