Gene: EGFR - Sequence:  $NG_007726.3$ 

Exon 1 | Start: 1 | End: 334 | Length: 333

|-239 |-229 |-21-ggcccgcgagctagacgtccgggcagccCCCCGGCGCAGCGGCGGCGCAGCCAGCCTCC

|-209 |-199 |-189 |-179 |-169 |-15-GCCCCCGCACGGTGTGAGCGCCGACGCGGCCGAGGCGGCGGAGTCCCGAGCTAGCCC

|-149 |-139 |-129 |-119 |-109 |-99

|31 |41 |51 |61 |71 |81

GCAGCGCTCCTGGCGCTGCTGCCCCGGCGAGTCGGGCTCTGGAGGAAAAG
A A L L A L L A A L C P A S R A L E E K

 $\begin{tabular}{ll} $\tt AAAGgtaagggcgtgtctcgccggctcccggcccccggatcgcgccccggatcgcgccccg \\ K \end{tabular}$ 

 $\verb|cagcccgcccaaccgcgcaccggctc| \\$ 

Exon 2 | Start: 335 | End: 486 | Length: 151

 $\verb|ccctta| at a \verb|cctgga| ccttga | gggattgttttattttagtttttctgcatttctcagtat|$ 

|91 101  $\verb|ttcatgtgatatctgtcttttcttccagtTTTGCCAAGGCACGAGTAACAAGCTCACGC| \\$ V C Q G T S N K L T 121 131 1141 151 1161 AGTTGGGCACTTTTGAAGATCATTTTCTCAGCCTCCAGAGGATGTTCAATAACTGTGAGG Q L G T F E D H F L S L Q R M F N N C E l 181 191 201 1211 221 1231 TGGTCCTTGGGAATTTGGAAATTACCTATGTGCAGAGGAATTATGATCTTTCCTTCTTAA V V L G N L E I T Y V Q R N Y D L S F L

 ${\tt AGgttggtgactttgattttcctacacaaataaaattggagaaaatctaagtggagaaag} \ {\tt K}$ 

gcctgggcagaattccacttgaagtgtgttta

Exon 3 | Start: 487 | End: 670 | Length: 183

 $\verb|gcgtcctagggctccctggacccattttagaccttgagttcttgagttcctcaaaagaga|$ 

241 251 261  $\verb|aatcacgcatttatgttttctcttcttagaACCATCCAGGAGGTGGCTGGTTATGTCCTC| \\$ TIQEVAGYVL 281 |291 301 311 321 ATTGCCCTCAACACAGTGGAGCGAATTCCTTTGGAAAACCTGCAGATCATCAGAGGAAAT I A L N T V E R I P L E N L Q I I R G N 341 |351 361 |371 381 ATGTACTACGAAAATTCCTATGCCTTAGCAGTCTTATCTAACTATGATGCAAATAAAACC M Y Y E N S Y A L A V L S N Y D A N K T 1391 401 |411 1421  $\tt GGACTGAAGGAGCTGCCCATGAGAAATTTACAGGgtgagaggctgggatgccaaggctgg$ G L K E L P M R N L Q

 $\tt gggttcataaatgcagacagcagttccgatggctcccagcgagcttgtcactcaattcca$ 

cctc

Exon 4 | Start: 671 | End: 805 | Length: 134

 ${\tt cagaacataaatgcgaagagcacatgcatccttcatgggaatttaaaggagctggaaaga}$ 

|431 441 451  $\tt gtgctcaccgcagttccattctcccgcagaAAATCCTGCATGGCGCCGTGCGGTTCAGCA$ E I L H G A V R F S 461 471 481 491 |501 ACAACCCTGCCCTGTGCAACGTGGAGAGCATCCAGTGGCGGGACATAGTCAGCAGTGACT N N P A L C N V E S I Q W R D I V S S D |521 |531 |541 |551  ${\tt TTCTCAGCAACATGTCGATGGACTTCCAGAACCACCTGGGCAGCTgtaagtgtcgcatac}$ 

a cactatctctgcctccagctcctatgggggacagctctacagcactggggcaggggaga

gaagccatgtttagt

Exon 5 | Start: 806 | End: 874 | Length: 68

 $\verb|ttgaatgtgcttaactcaggcccgggaaagggcgtcatcagtttctcatcatttcactga|\\$ 

 ${\tt gacccatgtgtgaccgcccctcttttctttcatttgcttaggtgattggatttgttttcc}$ 

ctctgaaga

Exon 6 | Start: 875 | End: 993 | Length: 118

tgaaaaagtctgcaagtgctctgcgacatccctgggaaatgatcctaccctcactcttca

631 641 |651  $\verb|gctcacagggaacctttgctcttttcagtTGACCAAAATCATCTGTGCCCAGCAGTGCT|\\$ LTKIICAQQC |661 671 681 691 701 |711  $\tt CCGGGCGCTGCCGTGGCAAGTCCCCCAGTGACTGCTGCCACAACCAGTGTGCTGCAGGCT$ S G R C R G K S P S D C C H N Q C A A G 731 |741  ${\tt GCACAGGCCCCCGGGAGAGCGACTGCCTGgtaagatgcccctccagcagcctccctggag}$ CTGPRESDCL

 $\verb|caggctggggctgcacccgccccacccacaccaggacagaagacttcctgtgggggagc|\\$ 

Exon 7 | Start: 994 | End: 1135 | Length: 141

 $\verb|acgggagtcaacaccgtgctgcgcttcctccgtgtgtggcgctgagtgtacttacctcac|\\$ 

| 751 | 761 | 771 | ttgcccagcgtgtcctctctcctccataggGTCTGCCGCAAATTCCGAGACGAAGCCACG

 $\verb|tcctctgtgggccctctaactggtcaggcatccttgtcccgctctgtctcctgctgagcc|\\$ 

ctggagtatcccatcttggaga

Exon 8 | Start: 1136 | End: 1252 | Length: 116

t cacccct caagaggacctggaccgcctgttgtgaggcccgagcacctggtgccaccgtca

891 1901 |911  $\verb|tcaccttcctttcatgctctcttccccaggGTAATTATGTGGTGACAGATCACGGCTCGT|\\$ R N Y V V T D H G S 1941 1951 1961 1931 1971 GCGTCCGAGCCTGTGGGGCCGACAGCTATGAGATGGAGGAAGACGGCGTCCGCAAGTGTA C V R A C G A D S Y E M E E D G V R K C 991 1001 A GAAGTGCGAAGGGCCTTGCCGCAAAGgtaggaagcccgccggtgtgcggacgaggcttgK K C E G P C R K

 $\verb|ttctcggctgctgaggctgggctctcatgccacctccaaaggaacacatcttcctct|\\$ 

Exon 9 | Start: 1253 | End: 1379 | Length: 126

 $\verb|ttccttcctgcttccctctgcctgtggatccctagctattcttaatccaacaaatgtgaa|$ 

1011 1021 1031  $\verb|cggaatacacgtctctttatctctgcagtTGTGTAACGGAATAGGTATTGGTGAATTTA| \\$ V C N G I G I G E F 1041 1051 1061 1071 1081 1091 AAGACTCACTCTCCATAAATGCTACGAATATTAAACACTTCAAAAACTGCACCTCCATCA K D S L S I N A T N I K H F K N C T S I |1111 |1121 11131  ${\tt GTGGCGATCTCCACATCCTGCCGGTGGCATTTAGGGGGgtgagtcacaggttcagttgctt}$ S G D L H I L P V A F R G

 $\tt gtataaagaaaaacaaaatctgcctttttaactggtagagattggtgatcaataatcacc$ 

ctgttgt

Exon 10 | Start: 1380 | End: 1453 | Length: 73

 $\tt ggttcagttgcttgtataaagaaaaaaaaaatctgcctttttaactggtagagattggtg$ 

ttcccttggaataa

Exon 11 | Start: 1454 | End: 1544 | Length: 90

a cagagt ccctg agagt ctagagt a at gtctcatacaaaaaagaaact cctacgt ggtgt

 ${\tt Agtaagttgaccacagccaaagcctggtagattacatttgcctttttagttggaaattag} \ {\tt H}$ 

gcttaacaggagagttgctaagatagggcac

Exon 12 | Start: 1545 | End: 1744 | Length: 199

 ${\tt aatcaaaggtggtctggagaaacaaagttttcagggatacattgttttataatttttca}$ 

|1301 |1311  $\verb|ccacatgatttttcttctccaatgtagtTGGTCAGTTTTCTCTTGCAGTCGTCAGCCT| \\$ G Q F S L A V V S L 1331 1341 1351 |1361 |1371 |1381  ${\tt GAACATAACATCCTTGGGATTACGCTCCCTCAAGGAGATAAGTGATGGAGATGTGATAAT}$ N I T S L G L R S L K E I S D G D V I I 1391 1401 1411 1421 1431 1441 TTCAGGAAACAAAATTTGTGCTATGCAAATACAATAAACTGGAAAAAACTGTTTGGGAC S G N K N L C Y A N T I N W K K L F G T 1451 1461 1471 1481 1491  ${\tt CTCCGGTCAGAAAACCAAAATTATAAGCAACAGAGGTGAAAACAGCTGCAgtaagtcacc}$ S G Q K T K I I S N R G E N S C

 $\tt gctttctgtttagtttatggagttggttctaatgggtcctttatttgtatttagaatatt\\$ 

 ${\tt gaagggctattcccatttaa}$ 

Exon 13 | Start: 1745 | End: 1877 | Length: 132

 $\verb|cagggcccctccgggaaggtgccgtctcctccggcccctcgggtccctgctctgtcact|\\$ 

|1501 |1511 1521  $\verb|gactgctgtgacccactctgtctccgcagaAGGCCACAGGCCAGGTCTGCCATGCCTTGT|\\$ K A T G Q V C H A L |1551 1541 |1561 1571 GCTCCCCGAGGGCTGCTGGGGCCCGGAGCCCAGGGACTGCGTCTCTTGCCGGAATGTCA C S P E G C W G P E P R D C V S C R N V |1611 |1631 |1591 1601 1621  ${\tt GCCGAGGCAGGGAATGCGTGGACAAGTGCAACCTTCTGGAGGGgtaggaggttatttctt}$  $\verb|SRGRECVDKCNLLEG|$ 

 ${\tt taatccccttgcgttgatcaaaaataaggctccaggttgttgttatagctttacaggcat}$ 

tctgtttgatttt

Exon 14 | Start: 1878 | End: 1968 | Length: 90

 ${\tt caagttatttggaattttgaagaggtgatttgtgttcctgcaataatgtctcaggggtgg}$ 

| 1671 | 1681 | 1691 | 1701 | 1711 | 1127
GTGCATACAGTGCCACCCAGAGTGCCTCAGGCCATGAACATCACCTGCACAGGACG
C I Q C H P E C L P Q A M N I T C T G R

 ${\tt Ggtaagagccccttgctgctatccacgtccatttcatgggaagggccttcacagaagccg}$ 

 ${\tt aacagtgatgatggcccagggcatcctgtgt}$ 

Exon 15 | Start: 1969 | End: 2126 | Length: 157

 $\verb|acacta| aatatttta| agtaa aa agttacttccattttgaa agagaa aa gagaa agagacatg|$ 

1731 1741 |1115  $\verb|catgaacatttttctccaccttggtgcaggGGACCAGACAACTGTATCCAGTGTGCCCAC| \\$ G P D N C I Q C A H 1761 1771 1781 1791 1801  ${\tt TACATTGACGGCCCCACTGCGTCAAGACCTGCCCGGCAGGAGTCATGGGAGAAAACAAC}$ 1821 1831 1841 1851 1861 ACCCTGGTCTGGAAGTACGCAGACGCCGGCCATGTGTGCCACCTGTGCCATCCAAACTGC T L V W K Y A D A G H V C H L C H P N C

 ${\tt atcaaaaatgtctcccaagttttccggcaacaaattgc}$ 

Exon 16 | Start: 2127 | End: 2165 | Length: 38

 $\verb|attgctttatgatttaattaaaaatctccaaaatatatgccaaagaagtagaatgagaaa| \\$ 

1911

 $\begin{tabular}{lll} AACGAATGGgtaagtgttcacagctctgtgtcacatggacctcgtcaagaatgaccacac \\ T & N & G \end{tabular} \label{table}$ 

 ${\tt tgctgtgggtgaagatgctttcctgcatttctgactgtc}$ 

Exon 17 | Start: 2166 | End: 2307 | Length: 141

 $\tt gcactgaaacatgcaggggcgtgttgagtgccaaggccatggaatctgtcagcaacctca$ 

1921 1931 1941  $\verb|cccttccttgttcctccacctcattccaggGCCTAAGATCCCGTCCATCGCCACTGGGAT| \\$ P K I P S I A T G M 1961 1971 2001 1981 1991  $\tt GGTGGGGGCCCTCTTTGCTGCTGGTGGTGGCCCTGGGGATCGGCCTCTTCATGCGAAG$ V G A L L L L V V A L G I G L F M R R |2031 12011 12021 12041 12051 RHIVRKRTLRRLLQERE

 $\verb|cagtcctgggtgggctcaggagccctcgcaccccgacaggaacaagggccagccccgaga|\\$ 

 ${\tt acgggccattagcagttgtgta}$ 

Exon 18 | Start: 2308 | End: 2430 | Length: 122

 ${\tt tggtcccctgctgggccatgtctggcactgctttccagcatggtgagggctgaggtgac}$ 

2071 2081  $\verb|ccttgtctctgtgttcttgtccccccagcCTTGTGGAGCCTCTTACACCCAGTGGAGAA| \\$ L V E P L T P S G E |2131 2101 2111 2121 |2151 2141 GCTCCCAACCAAGCTCTCTTGAGGATCTTGAAGGAAACTGAATTCAAAAAGATCAAAGTG APNQALLRILKETEFKKIKV 2161 2171 2181  ${\tt CTGGGCTCCGGTGCGTTCGGCACGGTGTATAAGgtaaggtccctggcacaggcctctggg}$ L G S G A F G T V Y K

 $\verb|ctgggccgcagggcctctcatggtctggtgggagcccagagtccttgcaagctgtatat|\\$ 

ttc

Exon 19 | Start: 2431 | End: 2529 | Length: 98

 $\verb|tcgctggtaacatccacccagatcactgggcagcatgtggcaccatctcacaattgccag|$ 

 ${\tt accttttctcatgtctggcagctgctctgctctagaccc}$ 

Exon 20 | Start: 2530 | End: 2715 | Length: 185

 $\verb|ttcatgcgtcttcacctggaaggggtccatgtgcccctccttctggccaccatgcgaagc|\\$ 

2291 12301 2321  $\verb|cacactgacgtgcctctccctccaggGAAGCCTACGTGATGGCCAGCGTGGACAAC| \\$ E A Y V M A S V D N 2321 2331 2341 2351 2361  $\tt CCCCACGTGTGCCGCCTGCTGGGCATCTGCCTCACCTCCACCGTGCAGCTCATCACGCAG$ P H V C R L L G I C L T S T V Q L I T Q 2391 2401 2411 2421 CTCATGCCCTTCGGCTGCCTCCTGGACTATGTCCGGGAACACAAAGACAATATTGGCTCC L M P F G C L L D Y V R E H K D N I G S 2441 2451 2461  ${\tt CAGTACCTGCTCAACTGGTGTGTGCAGATCGCAAAGgtaatcagggaagggagatacggg}$ QYLLNWCVQIAK

 ${\tt gaggggagataaggagccaggatcctcacatgcggtctgcgctcctgggatagcaagagt}$ 

ttgcca

Exon 21 | Start: 2716 | End: 2871 | Length: 155

 ${\tt gagcctggcatgaacatgaccctgaattcggatgcagagcttcttcccatgatgatctgt}$ 

2471 2481  $\verb|ccctcacagcagggtcttctctgtttcaggGGCATGAACTACTTGGAGGACCGTCGCTTG|\\$ G M N Y L E D R R L 2501 2521 2541 12551 |2511 2531 GTGCACCGCGACCTGGCAGCCAGGAACGTACTGGTGAAAACACCGCAGCATGTCAAGATC V H R D L A A R N V L V K T P Q H V K I |2561 2571 2581 2601 2591 |2611

ACAGATTTTGGGCTGGCCAAACTGCTGGGTGCGGAAGAAGAATACCATGCAGAAGGA
T D F G L A K L L G A E E K E Y H A E G | 2621

gccttcccactagctgtattgtttaacacatgcagg

Exon 22 | Start: 2872 | End: 2947 | Length: 75

 $\verb|cactcgta| at taggtccagagtgagtta actttttccaacagagggaaactaatagttgt|$ 

| 2631 | 2641 | 2651 | ctcactgcctcatctctcaccatcccaaggGTGCCTATCAAGTGGATGGCATTGGAATCA

V P I K W M A L E S

| 2661 | 2671 | 2681 | 2691 | 2701
ATTTTACACAGAATCTATACCCACCAGAGTGATGTCTGGAGCTACGgtgagtcataatcc
I L H R I Y T H Q S D V W S Y

tatcctctgacatgca

Exon 23 | Start: 2948 | End: 3094 | Length: 146

|2711 |2721 |2137 tgccttcttttcttgcttcatcctctcaggGGGTGACCGTTTGGGAGTTGATGACCTTTG

G V T V W E L M T F
| 2741 | 2751 | 2761 | 2771 | 2781 | 2197

GATCCAAGCCATATGACGGAATCCCTGCCAGCGAGATCTCCTCCATCCTGGAGAAAGGAG
G S K P Y D G I P A S E I S S I L E K G
| 2801 | 2811 | 2821 | 2831 | 2841

AACGCCTCCCTCAGCCACCCATATGTACCATCGATGTCTACATGATCATGGTCAAGTgtg
E R L P Q P P I C T I D V Y M I M V K

 ${\tt agtgactggtgggtctgtccacactgcctagctgagccttggtggctgctcttagccaaa}$ 

cagctgaggcctttgcatccctggaga

Exon 24 | Start: 3095 | End: 3192 | Length: 97

 ${\tt tcatgtcactgtgttctgtcacatgccagcctggcctc}$ 

Exon 25 | Start: 3193 | End: 3360 | Length: 167

 $\verb|ctgctggcaatagacccctgctcctatagccaagaagtggaatagcatctctacgggcca|\\$ 

2951 2961 2971  $\verb|ttctaatagcctcaaaatctctgcaccaggGGGGATGAAAGAATGCATTTGCCAAGTCCT| \\$  $\hbox{\tt G} \quad \hbox{\tt D} \quad \hbox{\tt E} \quad \hbox{\tt R} \quad \hbox{\tt M} \quad \hbox{\tt H} \quad \hbox{\tt L} \quad \hbox{\tt P} \quad \hbox{\tt S} \quad \hbox{\tt P}$ 12991 |3001 2981 3011 |3021 3031 ACAGACTCCAACTTCTACCGTGCCCTGATGGATGAAGAAGACATGGACGACGTGGTGGAT T D S N F Y R A L M D E E D M D D V V D 3051 3061 3071 3081 13091 GCCGACGAGTACCTCATCCCACAGCAGGGCTTCTTCAGCAGCCCCTCCACGTCACGGACT A D E Y L I P Q Q G F F S S P S T S R T |3111  ${\tt CCCCTCCTGAGCTCTCTGgtatgaaatctctgtctctctctctctctctaagctgtgtcta}$ P L L S S L

 $\verb"ctcatttgaacaaattgaattttagggaaaataaccatctagtgaaac"$ 

Exon 26 | Start: 3361 | End: 3408 | Length: 47

 $\verb|cctccatgaggcacaccacctgcattcaggaaaagtggatgagatgtggtacaagcattc|\\$ 

 $|3121 \qquad |3131 \qquad |3143| \\ {\tt catgggcaacttctctgtttcttttcagaAGTGCAACCAGCAACAATTCCACCGTGGCT} \\ {\tt S A T S N N S T V A} \\$ 

|3151 |3161 TGCATTGATAGAAATGGGgtatgtatgaacaccttataagccagaatttacagctctcca

 $\verb|ctatggctctattttacatggaaaatgccttaacctaaataattttaa|\\$ 

Exon 27 | Start: 3409 | End: 3517 | Length: 108

 $\tt gcatctcaaggagatctcgggtgatttttgcaaacactgaagttggggcagccctgaccg$ 

3171 3181 13319  $\tt gagtaaccttccctcatttcctcctgcagcCTGCAAAGCTGTCCCATCAAGGAAGACAGC$ LQSCPIKEDS 13201 |3221 3231 3211 3241 TTCTTGCAGCGATACAGCTCAGACCCCACAGGCGCCTTGACTGAGGACAGCATAGACGAC F L Q R Y S S D P T G A L T E D S I D D 3261 |3271  ${\tt ACCTTCCTCCCAGTGCCTGgtgagtggcttgtctggaaacagtcctgctcctcaacctcc}$ T F L P V P

 $\verb|tcgacccactcagcagccagtctccagtgtccaagccaggtgctcc|\\$ 

Exon 28 | Start: 3518 | End: 5600 | Length: 2082

 ${\tt gaggacattcacagggttcagaacccagggatcctgcatgggatggtgctttgctgatta}$ 

13103 13281 13291  $\verb|cttcacctctgatttctttccactttcagaAATACATAAACCAGTCCGTTCCCAAAAGGC| \\$ EYINQSVPKR 13311 13321 13331 13341 13351 13163  $\tt CCGCTGGCTCTGTGCAGAATCCTGTCTATCACAATCAGCCTCTGAACCCCGCGCCCAGCA$ P A G S V Q N P V Y H N Q P L N P A P S 3371 |3381 3391 3401 |3411 GAGACCCACACTACCAGGACCCCCACAGCACTGCAGTGGGCAACCCCGAGTATCTCAACA R D P H Y Q D P H S T A V G N P E Y L N 3431 3441 3451 3461 3471 |3184 CTGTCCAGCCCACCTGTGTCAACAGCACATTCGACAGCCCTGCCCACTGGGCCCAGAAAG T V Q P T C V N S T F D S P A H W A Q K 3491 3501 3511 |3521 3531 13145 GCAGCCACCAAATTAGCCTGGACAACCCTGACTACCAGCAGGACTTCTTTCCCAAGGAAG G S H Q I S L D N P D Y Q Q D F F P K E 3551 3561 |3571 |3581 3591 13106 CCAAGCCAAATGCCATCTTTAAGGGCTCCACAGCTGAAAATGCAGAATACCTAAGGGTCG

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CC	CCA	$C\Lambda\Lambda$	\ C C \	сто										TGAGCCCT		
											CGGI	IGGHIA	GIA	IGAGCCCI	HHHH	.A
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CC	רמר	۸тт	۸сст	ירידי										CGACTAGC		
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۸۵	т л С'	ттс	3 A CC	TCC										TCAAACTG'		
AG	IAC	110	JACO	100	, DD	CAC	AIII	1144	GA	HGIIGC	AIIC	JUITIU	101	ICAAACIG	IGAA	.G
			138	51		- 1	3861	L		13871		13881		3891		13109
C A	ттт	101												ATTTATCT		
CA	111.	ACA	JAAA	CGC	AI	CCF	IGCA	IGAA	ΙA	ITIGICC	CIII	GAGCA	GAA.	ATTTATCT	IICA	.A
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AG	AGG	TAT	A.III.	GAA	AAA.	AAA	AAAA	AAAG	T. A	TATGTG	AGGI	7.1.1.1.1.1	ATT.	GATTGGGG.	ATCT	T.
			139	71		- 1	2001	1		12001		14001		4011		1/120
GG	AGT"	TTT"	I CAT	TGT	'CG	CTP	ATTG <i>I</i>	ATTT	ТΤ	ACTTCA	ATG	GCTCT	TCC.	AACAAGGA.	AGAA	.G
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CT	TGC'	TGG'	ΓAGC	ACT	TG	CTP	CCCI	GAG	TΤ	CATCCA	.GGC(	CCAACT	GTG.	AGCAAGGA	GCAC	A
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AG	CCA	CAA	GTCT	TCC	CAG.	AGC	ATGO	CTTG	AΤ	TCCAGT	'GGT'	CTGCT	TCA.	AGGCTTCC.	ACTG	·C
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AA	AAC.	ACT	AAAG	ATC	CCA.	AGA	AGGC	CCTT	CA	TGGCCC	CAGO	CAGGCC	GGA'	TCGGTACT	GTAT	'C
			42	11		I	4221	L		4231		4241		14251		4162
ΑА	GTC	ATG	GCAG	GTA	CA	GT A	GGAT	CAAG	CC	ACTCTG	TCCC	CTTCCT	GGG	CAAAGAAG	AAAC	G
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				4541		
CCAATAGC	CCACAGCTGA	GAATGTGGAA	TACCTAAGGA	TAGCACCGCT	TTTGTTCTCG(	CA
				4601		
AAAACGTA	TCTCCTAATT'	TGAGGCTCAG	ATGAAATGCA'	TCAGGTCCTT	rggggcatag.	AT
				4661		
CAGAAGAC	TACAAAAATG	AAGCTGCTCT	GAAATCTCCT	TTAGCCATCA	CCCCAACCCC	CC
				4721		
AAAATTAG	TTTGTGTTAC	TTATGGAAGA	TAGTTTTCTC	CTTTTACTTC	ACTTCAAAAG	CT
				4781		
TTTTACTC	AAAGAGTATA'	TGTTCCCTCC	AGGTCAGCTG	CCCCCAAACC	CCCTCCTTAC	GC
	4811	4821	4831	4841	4851	4168
TTTGTCAC	ACAAAAAGTG'	TCTCTGCCTT	GAGTCATCTA'	TTCAAGCACT	FACAGCTCTG(	GC
	4871	4881	4891	4901	4911	4129
CACAACAG	GGCATTTTAC	AGGTGCGAAT	GACAGTAGCA'	TTATGAGTAG	TGTGGAATTC.	AG
	14931	14941	14951	4961	14971	14189
GTAGTAAA				TTTCACAACA		
41114111111		dddi i i diiiii	110111111110			
	14991	L5001	L5011	5021	L5031	15140
TTAGAAGG				ACAATTGGAA(		
IIAGAAGG	AAAAAAGI I O	OIIOOIAAAA	IAAIII0101	HOHATIGGAN	DATIGORAGA	
	15051	15061	L5071	5081	15001	15101
C				GTGCCCTGTA		
CAGCIAGI	IAGGAGGCCA	CCITITICC	IAAICIGIGI	GIGCCCIGIA	HCC1GHC1GG	11
	I 5.1.1.1	L5101	I 5 1 2 1	5141	LE1E1	15161
A A C A C C A C'				AGTCAATATC		
AACAGCAG	ICCITIGIAA	ACAGIGIIIII	AAACICICCI.	AGICAAIAIC	JACCCCATCC	HA
	15171	LE4.04	LE101	5201	LEO11	LE400
TTT 1 T ( 1 A A						
IIIAICAA	GGAAGAAAIG	GIICAGAAAA.	TATTTCAGC	CTACAGTTAT	JI I CAGICACI	AC
	15001	15044	15051	15001	15054	15400
				5261		
ACACATAC	AAAATGTTCC	TTTTGCTTTT	AAAGTAATTT	TTGACTCCCA	GATCAGTCAG	AG
				5321		
CCCCTACA	GCATTGTTAA	GAAAGTATTT(	GATTTTTGTC'	TCAATGAAAA	raaaactata:	ГТ
	5351					
CATTTCCA	CTCTAttatg	ctctcaaata	cccctaagca	tctatactage	cctggtatgg	gt

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