

Supplementary Figures and Tables to

The central exon of the human MUC2 and MUC6 mucins are highly repetitive and variable in sequence between individuals

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Tables 1 - 3

Table S1. Statistics summary of filtered subreads, **page 2**

Table S2. Amino acid composition of the TR in the different PTS. **page 3**

Table S3. Sequencing and amplification primers. **page 4**

Figures S1 - S11

Figure S1. Recombination of 1st and 91st repeat of MUC2 generates a 8TR variant. **page 5**

Figure S2. NG-6867 consensus nucleotide sequence. **page 6**

Figure S3. DNA sequence of *HinfI* MUC2 PTS-TR2 fragment. **page 48**

Figure S4. Genomic sequence for BAC RP13-870H17. **page 50**

Figure S5. Complete MUC2 genomic sequence for Rp13-870H17. **page 93**

Figure S6. MUC6 genomic sequence (Reverse Complement). **page 103**

Figure S7. Complete MUC2 mRNA sequence. **page 113**

Figure S8. Complete MUC6 mRNA sequence (reverse complement). **page 117**

Figure S9. MUC2 PTS-TR2 units showing common and unique repeats. **page 122**

Figure S10. MUC6 Tandem repeats. **page 123**

Figure S11. Comparison of MUC2 PTS-TR2. **page 124**

Figures X1

Figure X1. Original autoradiograms of Southern gels presented in Figure 1. **page 125**

Table S1. Statistics summary of filtered subreads

Material	# Cells	Number of filtered Reads	Number of filtered Bases	N50 read length	Mean subread length	Mean filtered read score Polymerase read quality	Mean Coverage across reference	Polished assembly consensus
BAC DNA	1	68,011	353,937,792	7,678	5,204	0,833	1,168.21	149,943
<i>Hinf</i>I DNA Fragment	1	3,372	6,806,139	2,383	2,018	0,83	483.05	7,034

For full statistics, see Supplementary Figure S3. N50, N such that 50% of the bases in the assembly are contained in contigs $\geq$ N.

Table S2. Amino acid composition of the TR in different PTS.

RP13-870H17

Amino acid	MUC2 PTS-TR2		MUC6 PTS	
	Number of residues per molecule of protein	Percentage of residues per molecule of protein	Number of residues per molecule of protein	Percentage of residues per molecule of protein
T	1251	55.5	1135	30.1
P	491	21.8	519	13.7
I	107	4.7	131	3.5
V	99	4.4	126	3.3
G	92	4.1	134	3.5
Q	92	4.1	81	2.1
S	71	3.1	672	17.8
A	15	0.7	217	5.7
L	13	0.6	132	3.5
M	12	0.5	66	1.7
K	5	0.2	56	1.5
N	4	0.2	43	1.1
R	2	0.1	45	1.2
H	-	-	276	7.3
F	-	-	86	2.3
Y	-	-	27	0.7
E	-	-	26	0.7
D	-	-	2	0.1
W	-	-	1	>0.1 (0.03)
C	-	-	-	-
Total	2254		3775	

CH17-246P12

Amino acid	MUC2 PTS-TR2		MUC6 PTS	
	Number of residues per molecule of protein	Percentage of residues per molecule of protein	Number of residues per molecule of protein	Percentage of residues per molecule of protein
T	1352	56.0	923	29.9
P	522	21.6	421	13.6
I	110	4.6	112	3.6
V	108	4.5	105	3.4
G	98	4.1	110	3.6
Q	98	4.1	64	2.1
S	73	3.0	553	17.9
A	13	0.5	176	5.7
L	13	0.5	106	3.4
M	13	0.5	56	1.8
K	4	0.17	47	1.5
N	5	0.2	37	1.2
R	2	0.1	39	1.3
H	2	0.1	227	7.3
F	-	-	68	2.2
Y	-	-	23	0.7
E	-	-	21	0.7
D	-	-	1	>0.1 (0.03)
W	-	-	1	>0.1 (0.03)
C	-	-	-	-
Total	2413		3090	

Table S3. Sequencing and amplification primers.

Primers, forward (F) and reverse (R)			
Location		Primer sequence	Application
MUC2 exon 30 (TR1)	F	5'- GTGCAGTGTGATGTCTCTGTT G -3'	Sanger sequencing
	R	5'- ACACTCACAGCACTGAACG -3'	Sanger sequencing
MUC2 exon 28	F	5'- CTGATGAGGTGATTCTTGGC -3'	Sanger sequencing
	R	5'- GTGTCGTAATGGAACAGATG -3'	Sanger sequencing
MUC2 intron 28	F	5'- GTAAGTGACGGTGATGATATTC -3'	Sanger sequencing
MUC2 PTS-TR1	F	5'- AGATACGTGTCAATTGTTGCTGGCC- 3'	PCR
	R	5'- CCAGAATCCAGCCAGCCAGTCC- 3'	PCR/ Sanger sequencing
MUC2 exon 30 (CysD2)	F	5'-GACTGGCTGGCTGGATTC- 3'	Sanger sequencing

Figure S1

Recombination of 1st and 91st repeat of MUC2 generates a 8TR variant

a

- TR No.
- VTQPTTMTTTTEN
1. PTPPTITTTTTVTPPTPTSTQS
 2. PTPTAITTTTTVTPPTPTGTQT
 3. PTSTPITTTTTVTPPTPTGTQT
 4. PTPTPISTTTTTVTPPTPTGTQT
 5. PTTTPITTTTTVTPPTPTGTQT
 6. PTTVLITTTTTMTPTPTPTSTKS
 7. TTVTPITTTTTVTATPTPTGTQT
 8. PTMIPISTTTTTVTPPTPTTGST
- GPPTH

b

PTS-TR2 RP13-870H17 assembly	
Repeat No	
1	P T P T P I T T T T T V T P T P T P T S T Q S
	CCA ACT CCG ACA CCA ATC ACC ACC ACC ACT ACG GTG ACC CCA ACC CCA ACA CCC ACC AGC ACA CAG AGT
91	P T T T P I T T T T T V T P T P T P T G T Q S
	CCA ACC ACG ACA CCC ATC ACC ACC ACC ACT ACG GTG ACA CCA ACC CCA ACA CCC ACC GGC ACA CAG TCC
PTS-TR2 Repeat of 8TR variant	
1	P T P T P I T T T T T V T P T P T P T S T Q S
	CCA ACT CCG ACA CCA ATC ACC ACC ACC ACT ACG GTG ACC CCA ACC CCA ACA CCC ACC AGC ACA CAG TCC

Figure S2. NG-6867 consensus nucleotide sequence.

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1  CTTCCACCC ATACACTCAG CTCTCCATTT ATTCAGGATT AATTCAGCTG TTTGGGGAAT
61 AAAGATGTGA AAAAGTTACC ATCTTTAACA ATCCCCTTGA CTGACTTCAG AATAGTGTTC
121 CCTTTCATCC CCTCTGTCCA CCTGGGAATG CTTCTGATGC TGCCTGCATT ATCAGGAGGG
181 GAAGAGGCCC AGCCAGTCTG CAGTGAACAT GCCGTGAAAG CCTGGACTCA ACATTTGCTA
241 TTTGAAGTTA CAGACAGACT TTTAAGTACC TGA CTGGATA TACCATGTGA ACATGCCGTG
301 AAAGCCTGGA CTCAACATTT GCTATTTGAA GTTACAGACA GACTTTTAAG TACCTGACTG
361 TATATACCAT CCAACCTGGG ACCCGGGGAT GGGAGAGCCC ACGCCCCTGA CTGGAGAGTT
421 CCAGAGGCCT GGAAAGAACA CCCACAGTAG AAAACCCGCG GAAGAGGGGC CTAGCAAAAG
481 ATTCATTAGG TATTATTATT ATTATTTTGA GATGGAGTCT CGCTCTGTTG CCCAGGCTGG
541 AGTGCAGTGG CTTGATCTCA GCTCACTGCA AGCTCTACCT CCCGAGTTCA CGCCATTCGC
601 CTGCCTCAGC CTCCTGAGTA GCTGGGACTA CAGGCGCCTG CCACCACACC TGGCTATTTT
661 TTGTATTTTC TTATAGAGAT AGGATTTTGC TATGTTGCCG AGGCTGGTCT CAAACTCCTG
721 GCCTTAAGGG ATCTGCCAC CTTGGCCTCC CAAAGTGCTG GGATTACAGG CATGAGCCAC
781 CATGCCTGGC CTTCATTAGA TATTATTATT ATTATTTTTT TAAAAAGTTT CTCCTGAAAG
841 GCAGAGAGAA CACATAGTTT TATTTAAAAA ATACATTAGA AACAAGTATA TTTAGAAAAT
901 ATATGCTTTT ATTATTTATG AATTTAAAAA AACGACTCAA TGAAACAAAA AGTGAAAGAC
961 GAATAAAAAA GGTAACAGAC TGAGAGGAGA GAATCAGCCT GAGGCAGAGA TGAGGGGGAA
1021 CTAGATAATG TAAAGAAACC ACGATGGGAG AGTTAATATC TGTACTCAAA ACAGTAA AAC
1081 GGCAAGTAAC AAAAAACACC ATGTAAAATT GAGTAAGTAA TGTGGAAGAC AATTAAGTT
1141 CTTTGAGAAT AGGAGGGAAA GAACAGAGAG ATTA AACTGG TGTGAAAGGC TCCTTCAGTG
1201 TTTGGGGACT AGCTCATATC AGAATAACAT GCTTGCCCTT CATAATCATA AACTCAAGAT
1261 GAAATAGAAA TGACACCTGT TTTGAAGACT GGTGAGTGGC TGGGCATGGT GGCTCATTCA
1321 TGTAATCCCA GCACTTTGGG AGGCTGAGGC AGGTGGATCA CCTGAGGTCA GGAGTTCGAG
1381 ATCCAGCTGG CCAACATGGT GAAACCCCAT CTGTAATAAA AATACAAAAA TTAGCTGGGT
1441 GTGGTGGCGC ACACCTGTAG TCCCACTAC TGGGAGGCT GAGGCACCA GAGTCATGTA
1501 ACCCAGGAGG CAGAGGTTGC AGTGAGCTGA GATCGCACCA CTGCACTCCA ATCTGGACAA
1561 CAGAGTGAGC CTCAGTCACA CATACATACA CACACACACA CACACACACA CAACCAAAA
1621 CAACAAAAAA CCACTGGTGA GAAATCAGAG GCAGGCAGCA TCAGAGGGGA TGCAAGCCTG
1681 GAAAAGGGAA ATAAGTGAGG TACGATCCCC ATTCAGCTGA CTTTCCACTG GAGGGAGCTT
1741 CCCTGTTTAC AGGAATGTGA GGGAGAGGGT GCCAGCTGAC TACAGCTCCT GAGCTGGGCT
1801 GAGAAGACTG AGGTCCAAGC TTAAGGTCTC CAGAGGCTGG AAATTAGGAA GGATGTTACA
1861 GGAAGAATAG ATCCACAAAT TTTTGACTGA GTTAAAAGTC ACATATAGGA TGAGACCTTA
1921 AACATCTGAG TGAAAGGAAA CAGCTGGAAG GCTGAAAGAT AGGGGCATGG GGTACAGAG
1981 TTTGGAGTTC GAGTTGGCCC AGCTAGACCT CCTGGAGAAA CACCTTGCTT CCCATTACGA
2041 CTCTGTAAGA ACTGTATGTT AGGAGCAAGG ACCATCTGCT AGGACTAAAT GCTGTGCCCC
2101 AGGAACAAGG GCTAACTGA AAGAGACCCA GATAATAAAG CCTGAGAAGA ATCCTCCTCA
2161 GGATCAAGTT GATCCACCAA AAATTTAACC ACCTGCTAAA CAAAACCTAG CATTCTCCTT
2221 CGGAAGATCA CAGAATCTAA AGTCTCCACA GTGTATCATA CACAATGCAC AGTGTA CAAT
2281 AAAAATTACC ACAGAGGACA ATATAGCCCA CAATCAAAGG AACAAACCAA CCATCAGAAG
2341 CATATCCACA GAGGCCATA TGTTGAAATT AGGAGATAAG TATTTTAAAT TAACCATTAT
2401 AAAAATGTGA CATAACATAC ATTGAAAAAT GAATATAATG GAAAAGAGGT GGGGAATGTC
2461 AGGAGATGAGA TGGAACTCT AAAACAGAAC CAAATGAAAA TCTTGAAACT GAAAAACAAC
2521 AACACAACCA AATATCTGAA ATGAAATAGT CATTGAATTG GTTTAACAGA AGCTGGGAAA
2581 CTACAGAGGA AAAGATCAAG AAACCTGAAG AGAGTTGAT AGAAACAATC CACACTGAAG
2641 AACAGACAAA ACAGTTTTTT GAAAAAGTCT CAGTGACTGG TGGGATGATA TTAAGTTGTC
2701 TGAGGAAGGA GAAGAAAGAG AAAAGGGGGT AAAAAATATT AAAGAAAAAA TAGCCAAATG
2761 TTTTAAATTT TGAATAAAAA CATCAACTCT GAATTCCAAG AAGCAAATCT TCAGTGCAAT
2821 AAATATGAAG AAAACTACAC TTACGCATGT AATAGTCAAA CTACTGAAAA GAAAAGGTAA
2881 AAGAAAATCT TTAAAGCATC CAGGAAGAAA AAGACATAGC ACACAGAGGG AATAAATGAT
2941 AAAATGGTAG CTATAAATGC AGTCATATCA AAATTTAAAT TAATGTAAGT GGA CTATACA
3001 CTCCAATTAA AAGACAGACT TTTAGACTGA ATCAATGAGC AAGACCCAAA GATATGCTGC
3061 TTACAAGAGA CATGTTGTGA CTATAGACAC AGATAAGGTT AAAAGTGAAA GGATGGAAAA
3121 ATGTATGTCA TGCAAGCAGT AATGATAATA AAGCTAGAGT GGTTACATCA ATATCAGACA
3181 AAGTAGATGT CAAGACAAGG AATATTACCG AGATAAAAGG ACATTTTATA ATTATAGAAA
3241 TGACAATTCA TTGAGAAAGC ACAATATTAC TGTGTATACA TCTAATAACA AAGCTTCAAA
3301 GTATACAAAG CAAAAATAGA CAAACTTAA GGGTGAAACA GGCACAGATT TTAACATCAT
3361 TTTCTTGATC ATTGATAAAG CAAATAAACA CTCAGGAAGG CTGTTAGAAG TTCTGAAACC
3421 ACTATCAACC AACTTGAGCT AATTGACATT TATGGAACCC TAGTCAATGA CTGTAGAATA
3481 CACCATTCTT CAAAAGACCA CATGGATTGC TCACCGAAAT GGAACAGTGC TGGGCTATAA

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3541 AACAAAGTCTC AATAAACTTC TAAGGATTGA AATAATCAAC ATATGTTCTC TCACTAAAAT
3601 ACAAATTAGT TAAAAGCAGT AATGATAAGA TATTAAGAAA AACCTCAAAAT ATTTAAAAAT
3661 CAAGAAGCAC AATGCATTCC AAACAACCTA TGGGTCAAAA AAGTCACATA AGAATTACAA
3721 CCAACTTCTC ATAGAAACAA AGGTGGCCAG AAGATGCCAG AAAGACATCT TTATAGTGTT
3781 GAAAGAAAAA AAAAAAGCC TGTCAGTCAA CACTAAAATT TAGGTCTACA GGAAGGAATG
3841 AGGAGCACTA GAAATAACAA ATATGAGGGT AAGTACAAGT AAAATGTTCT TTTTAAAAA
3901 CTTTCTTTAA GGGACTGTTT AAAGCAAAAA ATTAATTGTG GAAGTTTATA ACACATGGAG
3961 TAATTA AAAA CATCACACCA AATAGCACCA ACAATGGAGA AAAAATGAAA TTAGACTGTT
4021 CAAAGGTTCA TATATATACA TATATATACA CATATATATA CATATATACA TATATACACA
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4201 CATATATATA TACATATATA ATTTTTTTTT TTTTGAGACA GTCTCACTTA CTCTGTCACC
4261 CAGGCTGGAG TGCAGTGGTG CGATCTTGGC TCACTGCAAC CTCCACCTCC TGGGTTCCAG
4321 CAATTCTCCT GCCTCAGCCT CCCAAGTAGC TGGGAGTACA GATCTGTGCC ACCACGCCTG
4381 GCTAATTTTT ATATTTTTAG TAGAGATGGG GTTTCACCAT GTTGGCCAGG CTGGTCTCGA
4441 ACTCCTGAAC TCAAGTGATC CACATGCCTT GGCCTCCCAA AGTGCTGAGA TTACAGGTGT
4501 GAGACACTGC ACCCGGCCAG GTTCTTACAT TTTACGTGAT GTGATATAAT ATTAATTCAA
4561 GATAGACTGA TAAGGATGCA TACTATAACT TTCAGAGAAA CTAATAAAAA TATAATGATA
4621 TCTAGATAAA AAGCAAATAG AAGTATTAAA ACTGAATATT GAAAAACTT AACTGACCAT
4681 ACTAAGTGTT GGCAAGAATG TGGCACAGCC GGAGCTCTCA GACAGTGCAG ACAAGACATA
4741 ATGTGGTACA ATCACTTTGG AAGGCTGCTT GAAAGTTTCT TATGAAATTA AACACATGCT
4801 TAGCATAGGA CTCAGCAATT CTACTCCTAG ACATTTACTC AAAAGAAATG AAAACGTGTG
4861 CTTACAAAAA GACTCGCACA AAAATGTTCC TGGCAGCATT ATTTCGTAAT GTAAAAAGACT
4921 GGGAAAGGCT CAGGTATTCC TCAAGAGGTG TATGGAATAA ATACATTGTG GTATAGCCAT
4981 ATGATGGAAT ACTATCCAGC AATAACAAGA AACAGTGAAA ACACACCACA ACATGGGTAA
5041 ATCTCAAAAA CATGATGTGT GAAAAAGGCC AGACACAGAA GAGTTAATAT TTTATGACTC
5101 CATTTGTCTG AAGTTCCATA ATAGACCAAA CTAATGTACA GTGACAAGAC TCAGACCCAT
5161 AGTTGCCTGG GTCAGGAATA AGAGTGGGGC CAGGCATGGT GGCTCAGGCC TGTAATCCCA
5221 GCACTTTGGG AGGCCAAGGT GGGCAGATCA CCTGAGGTCA GGAGTTTGAG ACCAGCCTGG
5281 CCAACATGGC AAAACCCCAT CTCTACTAAA AATACACAAA AAAGTAGCCA GGTGTGGTCG
5341 TGGGCACCTC TAGTCCCAGC TACTCAGGAG GCTGAGCCAG GAGAATCACT TGAACCCAAG
5401 AGGTGGAGGT TGCAGTGAGC CAAGATGATG CCACTGCACT CCAGCCTGAG CGACAGAGCG
5461 AGACTCCATC TTA AAAACA AAACAAACAA AAAAGAGTAG GGTTGACTGG AAAGGGGCAT
5521 GAAACTCTTT GGGTGATGGG AACATTTTCT GGCTTGATCG CGGTGATGGT TCCATGGGTG
5581 TATACGTTTG CCAACACTCA TTGAATACCA TCATCCCTTG GCATCTGTTG GGGATTGGTT
5641 CCAGGACCTC CTGGAATACC TAGACAGTAT TTGCATAAAA ACTGTGCACA CCGTCTGTG
5701 TACAGTTGGC CCTTGAACAA CATGGGGGCC AAGAGTGCCA GCCCCTCATG CAGGTGAAAA
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5881 GACTGTATTC TTATAATAAA GTAAGCTAGA GGAAAGAAAA TGTTATTATG AAAATCATAA
5941 GGAAGAGAAA ATATATTGAC TATGTATAAA GTGGAAGTGG GTCATCCCAA ACGTCTTCAT
6001 CCTGGTTGTC TTCTTGTTGA GTAGGCTGAG GAGGAGGAGA AGGAGGAGGA GGGGTTGGTT
6061 TCAAAGGTGG CAGAGGTGGA AGAGATGGAG GAGGTGGAAG GGGAGTCGGG AGAGGCAGGC
6121 ACATTTGGTG CAACTTTCGT GGA AAAA ACT CCATGCATAA GAGGACACAC ACAGTTACAA
6181 CCCCTGTCAT TCAAGGGTTG ACTGCACTGT AAGTCATCGC TGGATTACTC ATAACACCAA
6241 AGACAACACC CACACACCCC TTCATTCCCG TGGATTCAGC GTGGAGCTCG GCTGTGTGAC
6301 CTCAACGTGT GACCTCAGTG GCAGATTCAG GTTTTGCTTT TTTGGAACAT TGTGACTTTT
6361 TTTTCTCTGA ATATTTTTGA TCAGCCGTTG GTTGAGTCAA CAGATGCAGA AGCCACAGAC
6421 ATGCATGGCT GGCTGTATTA ACTTAAAATG AATTCATCTT AAGCCAGGCA TGGCTTATGC
6481 CTGTAATCCC AGCACTTCGG GATAATAAGT GCTGGGATTA CAGCACTTAT TATAAGCCAG
6541 GCTCATGCCT GTAATCCCAG CACTTCGGGA GGCTGAGATG GGTGGATCAC TTGAGGTCAC
6601 GAGTTCAAGA CCAGCCTGGT GACCATGGCG AAACCCCGTT TCCAATAAAA ATACAAAAAT
6661 TAGCCAGGCG TGGTGGCGCG TGCCTGTAGT CCCAGCTACT CAGGAGGCTG AGGCAGGAGA
6721 ATCACTTGAA CCTGGGAGGC AGAGGTTGCA GTGAGCTGAG ATTATGCCAC TGCATTCCAG
6781 CCTCATGACA GAGCGAGACT CCATCTCAAA AAAAAAAAAA AAAAGAGTTG ATTTTATTAT
6841 GGGTAAATTA TATCTCAACA AATTTTATTT CAAAAGAAAA CAAGAATATC GATTCACTGA
6901 AAGGAAAGCA GGCAAGAAG ATCGAAGGAA CAAAGAATGC ATGGGTTACA CATAAAGCAA
6961 AGTGCAAGAC GGTGGGCTGA ACTTGCCCTA CCTGTAAAAC AGCAATATTG AAGCGATGAT
7021 AAAATAAAAC ATGTCTGAGT CAAAGCAAGA CTTCAATTTAT TCGGCTAGTT GAGAGTCTCT
7081 CACGTGTCAT TCATCAAGGT GCACAAAACC AGACAAGATC CTTCTTGTCG GTGGGATAAG
7141 AGTTTAGTGG GATCATAATA TTTTCAGTTGT ATAATCTCAT CAATCAATGG GTAACGTGAG

7201	AAGGGAACAC	ATTTCTGTGG	GGAAATTCAA	TACGGGGGAGC	TGAGCGGGGT	GTAGGCAGGG
7261	GAGATGGCCT	TGCACGGGGT	GGCTGGGGGA	GGCGGGGGTG	GCTGGGGGAG	GGAGGGGGTA
7321	GCTGGGGGAG	GCGGGGGTGG	TGGGAGGAGG	CGGGGTGCTC	AGACAGAAGC	AGCTGCAGGG
7381	AAGCCCTGGG	GTGGGGGAAC	AGGCCCTGGA	AAACTGCTAA	GGCAATCAAT	TAGAAAGAAT
7441	ATTTCCCATG	CATTTTTTCT	GCAAACAGAA	AGGACTGGAA	GACATACATC	AGCCCATCAA
7501	GATACAATCT	CAGCAAAAAA	CCACAAAAGC	GGCAGACAAA	ACCAAACCTC	AAGAAAGGCA
7561	AAGTTGTACA	TTCAGAAGGT	CTGGAATGAC	TGGGTTTAGG	GGTCATCCCG	GCCATTTGCT
7621	GCAATGGCTG	CCACAGATTG	CAAAGAGCAC	AGTCAATTCT	TGGAGGAGGA	CAAGGGGAGG
7681	TGTCATGTTT	ACAATCCAGA	GTGCACAGCC	CAGAACTGAG	ACCTGGAAAG	GAGGGGCCAG
7741	CAGGAGGAAG	GGAAGGGGTA	GTGACGTCTC	TTCCACACGC	ACAAGCAAAT	CAGGGTCACT
7801	CATAGAAACA	CAGATCCCAG	GGTTAAAAGG	ATGACCTCTA	TAGTCATGAA	AACAGAGTGA
7861	AGACCTGCAA	GAGGAAACGG	CAAAGGGAGC	ACAAACCCGG	CTGCACAAGA	ACAGACCGGA
7921	GAAAGGTCAG	GACTCTCAGG	CCAGGGACTG	AGGAGCCAGC	GATAAGCCAT	GGCAGTAAAG
7981	GCTGACTGAA	TGCCCCTATG	AAAAGGAGGC	TGGAGATGGG	GCTGAAAAGA	AAAGAGCACG
8041	CCCACAGCCT	CACTGCACGT	TGTTTGAAAG	AGACACAGCT	AAAACGAATG	CCCCAGCAAA
8101	GTTAAAATCG	AAAGGCAACA	TGGCCGGGCA	CAGTGGCTCA	CGCCTGTAAT	TCCAGCACTT
8161	TGGGAGGCCA	AGGTGGGTTT	GAGGTCAGGA	GTTTGCACC	AGCCCGGCCA	ACATGGTGAA
8221	ACCCCGTCTC	TACTAAAAAT	ACAAGAATTA	GCCGGGCGTG	GTGGCGCGTG	CCTATAATCC
8281	CAGCTACTCG	GGCAGGAGAA	TTGCTTGAAC	CTGGGAGGTG	GAGGTTGCAG	TGAGCTGAGA
8341	TTGCAGTGAG	CTGAGTGCCA	CTGCACTCCA	GCCTGGGTGA	CAAGAGCACA	ACTCCATCAA
8401	CAACAACAAC	AACAAAAAGC	AACAGGATAT	GAGACAAAAG	CCAGCAGAGG	CAGAGCTGTG
8461	GCCGTAGTAT	TAATAAATCG	AAAGGCGGGG	TTAAGATATG	AACACCGAAC	ACGACAAAGA
8521	GGATCAGTTT	GAGTTTATAG	AAGAAGCAGA	AGAAACAATG	GTGATTTATT	TTGATTTTTA
8581	CTCATTAATA	AACATAGTGC	TGCTGCTCCC	AGATGATGGC	ATAGCTCTTC	TTTTCCCTGT
8641	CTTCCTCCTA	AGTACAAAGA	AGAATCCTGA	ATATTAGACA	TGAAAGAAAT	GTAGGAAGGC
8701	TCCGGAAGGT	GGAGAGGAGA	GGGCAGACCA	GTCGGGGACC	TCGGGCCCCA	GGAAAGACCC
8761	ATTGCAAGTT	CCCTGGGTTT	TGCTTTTGCC	TCATGGATCC	CAGGCCCTGGA	GCTGGAGAAG
8821	CTGGCAGTGT	GGACACTTCA	ACACATGTAC	ACCAAAAAAA	GGCCCCACCA	GTCCCCGCCT
8881	CCTGGAGCCA	GCGTGATCAG	GAAAGTAGCT	GCCCCGCCAA	GCAGAAGGCT	TTTAGGTGAT
8941	AACTGCCCTG	CTCCAGCTGA	ACACCACGGA	AAACCTGCAC	TCCACTGGAG	CAAAGTCTGG
9001	GCAGGGCTGG	GCAGGGCTGG	GCACCCACCC	TGGTGGCTGG	AATGAGGCGC	CCCAGGTGGC
9061	CCCAGGGCTG	GTGTCCAAGT	GGGCACAGCA	GGAGGCTGGG	GTCATCCAG	TGGGTGGTTC
9121	TGAACCGCTT	TCTCTGTGAC	CAGTGATGGG	GATGGTGGAG	ACCACACGGG	GTTAGGGAGC
9181	TTGGATTTCC	ACCCCATCCC	TGGTGTGAA	ACACTCCTCC	TCTTCCCCAT	GAGGAGTGTC
9241	AGAGGAGGCT	GAGCCGAGAG	TCATGACTTT	GACCACTGCT	CAGTGTAACA	GGGCCCCCTC
9301	CATCATGCCC	GTGGAGGGAA	TGAGAGCAGC	AACGAGGCGC	CATGCCCTC	CCAGCCAGAA
9361	GGCATCGGTG	AGGGCTCCAC	CCTGCCCGGC	AGGCATGGAC	AAAACCCCTG	GGGTGTTAAG
9421	AGAGGGCCGG	TGGGGAATGA	GCACTTCCAC	ACCACAAGCT	GCCCCTTCCC	TTCATTAATC
9481	TGTGCCAGAG	GAAGTCAACG	AGAAAGGTTT	AAATAAGATC	CAGAGTCTCG	TAGCAATCTC
9541	CAAAATGCCC	AGGTTTCAAT	AACAAATTGC	TCATCATCCC	AAGACCCAGG	AAGATCTCAG
9601	ACTGAATTCA	AAAGGACAAT	CAGCAGAGGC	TGACCCTGAG	ACAAAGAGGT	GTTAGAATGA
9661	TCTGGAAAGG	GTTTTTGAGA	AGCCCATAAA	GTGCTTCATT	TGTGAACAAA	TTGAAACCAA
9721	TTTAAAAATA	GAAAGTCTCA	ACAGATAATA	GAAAATCCCA	GCACAGAAAC	AGAACACACA
9781	AAGACGAAC	GAATGGAAAT	GGTAGAATCG	AAAATTACAA	TAATTGAAGA	GATAAAAAAC
9841	AAAAACAAGA	CTTCAATGAA	TGGGCTCAAC	ACAGAGTAGA	GGGAGAGTCC	AGTGAGAGGA
9901	AGAAACAGTG	AGCAGGGAGG	TACAATAATA	GACGTTATCA	GACCCATCAG	CGAAGAGAAA
9961	ACAGACTGAA	CAGGATGAGA	GAAACACACA	GAGCCTCAGG	AACCATAGGG	CTAGAACAAG
10021	AGACCCAGCA	TTCCAGGTGT	TGGGGTCATG	GGAGGAGAGA	AAGAGGATGG	GGATGGAAAA
10081	GAGCTCAAAG	ACCTAAGGTT	GAAACTCCC	CAAACCTGCC	AAAACACCCA	CAGATTCAAG
10141	AAGCTCGATG	AACCCCTAAC	AGGATAAACC	CAAGAAAATC	CACAGCAAAA	CATCTCGTAG
10201	TCAAACTTTT	GAAAACTATA	AAAACAAAAA	ATTTTGGAAG	TAGCAGGAGA	GAAACAACAT
10261	TTTACATATA	AGGGAAAGAC	AGTTTGAGTG	GCATTTGATT	CCTCATCAGA	AACCCCAAAG
10321	GCCAAAAAGA	GCACAACATT	TTTCAAATGC	TGACAGAAAG	GAAGTGTGAG	CCCAGAATGC
10381	TATATTCAGT	GAAAGTATCC	CCGAAGAAGG	AAGAGGAAGT	TAAGGCATTT	TCAGATGAAG
10441	GAAAAGTAAG	AGAAATTTCC	ACCAGAAGAT	GTACCCTGAA	AGCTTCAAAA	TAGTTGAACC
10501	AAATCTGATA	AAACTGAAAG	GAGAAATGCA	CCCATTTCTA	ATTATAGCTA	GAGACATCAA
10561	CACCCCTGTC	TAAACAATTA	ATAGAACAAC	TAGGCAGAAA	ATCAACAAAG	ATGTGGAAAA
10621	ACTTAACACC	ATCAACCAAC	AGGACCAACA	TTTGTAGAGC	TCCACCCAAC	CACAGAACAC
10681	ACATTCTTTT	CAAATGTGCA	CGGAACACAT	TCCAGGAGAG	GCCGTGTCCT	GGGCCTGAAC
10741	ACAAACTTTA	GCACATTTCA	CATACTGACA	TCACACTCCA	GCATGTTCTC	TGACAACAAT
10801	GACATCAAAT	TAGAAATGAA	CAACAGAAAG	TTAACAGGAA	AATCTCCAAA	CATTGAGAAA

10861	CTAGAGAACA	GACCTCCAAA	TAATCTGTGG	GCCAATGAGG	AAGTCTCAAG	GGAAGTTTTA
10921	AAAAACAACA	ACATTGAACT	CAATGAAAAA	GAAAAATGCA	CATATCAAAA	ATTGAGGGGAC
10981	ATAGCCAGGC	ATGGAGACAT	GCAACTGGGG	TCCCAGCTTC	TCAGGAGGTT	GAGGTGGGAG
11041	CATCACTAGA	GGCTAGGAGT	TTGAATCTAG	CCTGGGCAAC	ATAGCAAGAC	CCTATCTCTG
11101	AAAAATAAAA	ATAAAAAAAA	TTAGAGAGAT	ACAGTCAAAG	CAGTGCTGAG	GGAAATTTGT
11161	AGCAGTAACA	GAACACACTA	GAAAAAAGGA	TGAGTCAAGT	CAGTAATCTA	TGCCACCCAC
11221	TGAAGAAATG	AGAAAAAGAA	GCACAGGTTG	CACACAGAGC	AAACTGAAGG	AAGGAAAGAG
11281	TAAAGACCTC	AGTGAAACCG	AAAGCAGGGA	GACAGTGGCA	GAAAGAAAAA	TACCAATAAC
11341	ACGGACAAGG	CTCTAGCATT	ACAGCAAGAA	ACAAGAGCAA	AGACACAAAT	GACCAAGGAC
11401	AGGACTAAAA	CAGGAGCAAT	CACTACAGAC	CCTGCAGATA	TCATGAGGGT	GACAAGGGGC
11461	TGTGGCACAC	AACTCTGCAC	ACAGAACTTT	GGCACCTTAG	ATGAAATATG	CCAGTTCCTC
11521	AAAAAGCACA	AGTGATCACA	ACTCAGCTAA	CACAAATAGA	TAAGTGGGCA	GCCCAATAAA
11581	TGGTTGAGAA	CATTGAATTT	ATAATTTTAA	ACTCCAAAAG	AAGAAATTCC	GGGCTCAGAT
11641	GAGTTCAGCG	GTGAATTCTG	TAAAACTTTT	AAAGAAGAAT	TAACACCAAT	CATACATAAT
11701	TCTTCCAGAA	TGTAGAAGAG	GAGGGCGTCT	GTATGACCCA	GATACTGAAA	TCATACAGGC
11761	AGGAGAAAAA	CAAAGCAAAT	CCAAACCAGA	ACTATGGACC	AACACCCCTC	ATGAAGATGG
11821	ATACAGACTC	TAACAAAATA	ACAGCAAAGA	GAATTCAGTG	CTATATGGAG	CATTATCCAT
11881	CTTAACCAAG	AGGGATCTAT	TCCAGAAATG	CAAGGTGGCC	AGGTCAATAT	TTAAAAAATT
11941	AATGCAACCA	GCCATATTAA	CAGGCCAAAG	AAGAAAAAAT	GCACAAGCCT	ATCAATCAGA
12001	GCAGCAAAAA	CATTTGAAAA	GACTCAACAT	TCATTCTTAT	AAATTCTCAA	AAAAAAGAA
12061	TACAGGGAAT	TTCCTCAATG	AGATAGAGAA	CAGCTACAAA	AAAAGGAAAC	CAAAAAAGCAA
12121	AAACCACTCC	TGCTAACATT	GTACCTAATG	GTGAAGGCTG	AGTTCTTCTT	GTCTGACACT
12181	GGGAGCACGG	TGAGGGTGTC	CCCTCTCATC	GCTCTTATTC	AACGTACTGC	TGGGAGTTCT
12241	GCCAGTGCAA	TAAAGCAAGA	AAAGGAAATA	AAAGGCAATT	CGTTTGGAAG	AAATAAAGCC
12301	GTCCCTATTT	TTAAGTGACA	TGATTGTCTA	TATAGAAAAT	TCCAAAGATA	CTGAAATTTA
12361	AAAAAATCCA	AGACTAATGT	CTGTGCAGAA	AGGTCAAAGG	ATACAGGATA	ATACACACAAC
12421	AATGAATAGT	ATTTCTATTT	AGTAGCAATG	ACCATGACTT	CATCGACTTT	AAAAATATAC
12481	CACCAATTCTC	AATCACGCAA	ATAACTTGAA	ACATGTAGGC	GTAAATCTAA	CCAAACGTGG
12541	AGGACTTGTG	TGCTTAAAC	TACAAAATGC	CGATGAAAGA	AATCTTTCTT	TTTTTTTCATT
12601	TAGAATCCAT	TTTTATTCCC	ACAAACAGTT	CTGAAAAATA	TTAGAATTGG	CAAATGGTTT
12661	ACCATGAATG	GAAAAAATAA	ACCCATTGAT	TTTCTTTTTT	TCTTTTTTTT	TGCTTAAATA
12721	ATTTTATTAT	TTTTATTTTA	TTTTTCCATA	AGTTACTGGG	TTGTATTTGG	GTATATGAGT
12781	AAGTTCTTTA	GTGGTGATTT	GTGAGATTTT	GGTGCACCCA	TTACCTGAGC	AGTATACACT
12841	GCACCATATT	TTTTGTCTTT	TATCCCTCAC	CCCTCCCCAC	TCTTCCCCCC	AAGTCCCCAA
12901	AGTCCATTAT	ATCATTCTTA	TGCCTTTGCA	TCCTCATAGC	TTAGCTCCCG	CATATCAGTG
12961	AGAACATATG	ATGTTTGGTT	TTCCATTCTT	GAGTGACTTC	ACTTAGAATA	ATAGTCTCCA
13021	ATCTCATCCA	GGTCACTGCA	AAAGCTGTTA	ATTCATTCCA	TTTTATGACT	GAGTAGTATT
13081	CCATCAGATC	TATATCTATA	TGTATATCTA	TACCTATATC	TATATCTATA	TACCATCACA
13141	GAGCAGGTAA	ACCTGTAGGG	GTGCAAAACA	GATATGTGGT	GGCTGGAGAC	TGGGAGAGGG
13201	GACGGGGTTG	GCTGTACAGG	GCACGGGGGA	CCTCGTGGGG	TGACCGAGCG	ACTGTCTCTG
13261	AGTGTGGTGA	TGGTTACCTG	ACTGTGTGTT	CATCACAGCT	CCCAGAACTG	TAACCCTAAC
13321	AGGAGTGGAT	CTTACTGTAT	GCAAATTATA	TCTTAATAAA	AAATGAAAGA	TATATGTAAA
13381	GTTGATGTCTG	GAAAAAGTGC	AGAGAAATTT	TAAAAAGTTC	AGTTATAGTA	TCTTACTCCA
13441	GTAGAGATAG	AGTAGGCAAG	AGGTGGAGAG	AAGATTTTGA	TTATGTAAAT	AATAAGATTT
13501	ATTTACACAT	TTATTTCAAA	CTTTGTTCTC	TAATACAGAT	AATACTCCTT	CATCTTAGGC
13561	ATCCATAGAA	TAGTTACAAA	AATTAATCTT	TTTTACATGT	ATTTTTTTATT	TTCAAGGTAT
13621	AATTTGCATA	CAGTAAATTT	CACTCTTGTT	AGTGTGTAAT	TCTGTCCAAT	TTGTTGTCTA
13681	CGGAATTGGC	TGCAGTTTTT	TCTGGGGCCT	AATGTGAGAT	TAATTTTTGT	GGCTATGGTC
13741	TCTAACAAAA	TACAACTGAA	AATTGATAAC	AAACATGTGA	ATAAGACAAA	AGAGGCTGGG
13801	CACAGTGGTT	CACGCCTGTA	ATCCCAGCAC	TTCGGGAGGC	CGAGGCGGGC	GGATCACGAG
13861	GTCAGGAGAT	CGAGACCATC	CTGGCTAACA	CGGTGAAACC	CTGTCTCTAC	TAAAAATACA
13921	AAAAATTAGG	TGGGCGCGGT	GGTGGGCGCC	TGTAGTCCCA	GCTACTCGGG	AGGCTGAGGA
13981	AGGAGAATGG	CATGAACTCG	GGAGGCAGAG	GTTGCAGTGA	GCCGAGATCG	GGCCACTGCA
14041	CTCCAGCCTG	GGCGACAGAG	CGAGACTCCG	TCTCAAAAAA	AAAAAAAAAA	AAAAAGACAA
14101	ACAGCCTAAG	CGGCTGGGGG	TGGACACGGC	AGGGCTGTCT	CTGGCCTCTT	TCCTGTCTCT
14161	GGCGTCTCTC	CTCTCCCTC	CCCTGGACCC	TCCTTATTCT	GCAAAACGGG	CCATGGGCAC
14221	TTTCTGGGAA	ACGTCACTTT	GCTCAAACCG	TGTTTGCGAG	TCCAGGACCC	CTTAAGAGAT
14281	GTTACTTTGC	ATAAAGTGTT	TGCCACTTAG	GTTTTCCCTA	AGGGATGTTA	TGTGTTTAAG
14341	CTGCCATTAA	GGTGCAGAGT	GGTAAACCTG	TTACAGTCAC	GTGTGGTCCG	CAATTGCCAC
14401	CAAGACCATC	CTGGCTGTGT	GGAGCCGGGC	TGCTGCCGTG	GCAAAGGATC	ACAGCCCTGT
14461	GGCTGAGCAC	AGCACGCTCA	CGCCGTGCGG	TCCGGGGGTG	CCAAGTCTCC	AGGGAGCTCG

14521	CAGGACTGCG	TTCCTTCCAG	AGGCTCCAGG	GGAGGGTTCA	CGTCCTCGCC	TCTTCCCGCT
14581	CTGGAGGCCG	CGTCTCTTCC	CCGGCGGACC	GTCCTCTACC	TGCAGAGCCA	TCGGGAGCCT
14641	CTGCTCTCCC	CGACTGCCTC	CCTCTCCTCC	CGCTGTCTCT	GTCTGCCTGA	CCTCTTTCTC
14701	TGACCCTCTT	GCTTCTTTCA	CAAGAGCCCT	TGTGGTTACT	TCGGGCCCCT	CCAGATAATC
14761	CAGGACAACC	TCCCCACCCA	AGGCCCATCA	CTCTGTCCAC	CAGGTCCCTT	CCCCCATGGC
14821	TCCAGGGTTT	AGAATGCGGG	CATCTCTGGG	GCCATCATTC	AGGCTAATGC	TGTCAGTATA
14881	TTAAAACTG	CATTTCTATA	TGCTAGCAAC	AAACTAGTAG	AAAAGAGCAT	CAAAAACTG
14941	CTACTGCCTA	GAAATAAATT	TAACAAAATG	TCCCCATGAC	CTCTACACTA	AAAAC TGCAA
15001	AGAATTGCAG	AAATTCAAAA	GGACCAAAAT	ATGTGGAGAT	GTATTAATAT	AGTTGAAGAC
15061	TCAATATTGT	TAAAATGTCA	TTTTCTCCA	AACTGATCGG	TAAATTC AAT	CCCAATAAAA
15121	AATCCAGTTT	TTTTTG GGTG	GACATTGACA	AGCGCCTTCT	AAAATTTATA	CGGCCATGGA
15181	AAAGACCTGG	GATAGCCATG	ACGATCTTGA	CGAAGCAGAA	AAAAACATTT	CCAAGACTTA
15241	GAATGAAGCT	CTTAGTCGAG	ACGGAGTGAC	ATTGATATAA	ACTTAGACAT	TCAGATTAAT
15301	GAGACGAAC	GAGAGCACAG	AAATAGGCTG	TCACCTGTAC	CGGGCAAACA	CACCGAGGAA
15361	AACCAAGAGT	GCCAGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTTCAC	AGGGTTATGT
15421	GTCTGTATGT	GTATGTATTT	GTAGGCTTGT	GTATGTGTTT	CTGTGTTTGT	GTGTTTGCAG
15481	GGTTCTATAT	GTGTTTGCAT	GTGTGTGTAT	GCAGGTTGTG	AGTATGTGCT	TGCGTGTTTG
15541	TGTGTTTGAA	TGGTTGCATG	TGTTTGCATG	TGCGTGTGTT	TGCAGGGTTC	TGTGTGTGCA
15601	CATCTGCTTG	TTTGCATGTG	TGTTTGCAGG	GTTGTGTCTC	TGTTTGCATG	TGTGTGTGTT
15661	TGTGTATGTA	TTTGCAGGGT	TGTGTGTGTG	TCTGTTTGCA	TGTGTGTGTT	TGCAGAGTTA
15721	TGTATGTGTG	TTTCCATGTT	TGTGTGTTTG	CAAGGTTCTG	TGTGTGTTTG	CATGTATGTG
15781	TATGCAGGTG	TGTGTGGGCT	TGTGTGTTTG	CATGGTTGTG	TGCGTGTTTG	TGTGTGTGCT
15841	TGCATGTTGT	GTGTGCTTTG	TGTGTGTGCT	TGCATGGTGT	GTGTGCTTGA	TGTGTGTGTG
15901	CGCTTGTGTG	TGTGTGTTTG	CATGGTACGT	GTGTGTGCTT	GTGTGTGTGT	TTGCATGGTA
15961	TGTGTGTGTG	CTTG CATAGT	GTGTGTGTGC	TTGCATTGTG	TGTGTGTGCT	TTGTGTGTGT
16021	GCTTACATGG	TGTGTGTGTG	CTTTGTGTGT	GTGCTTG CAT	GGTGTGTGTG	TGTGTTTGCA
16081	TGGTGTGTAT	TGCGTGTGTG	GTGTGTTTGC	ATGGCATGTG	TGTGTGCTTG	TGTGTGTGTG
16141	CTTGCATGGT	GTGTGTGTGC	CTGTGTGTGT	GTGCTTGCGT	GGTGTGTGTG	TGTTTGCATG
16201	GCGTGTGTGT	GTGCTTGTGT	GTGTGTGCTT	GCATGGCGTG	TGTGTGTTTG	CATGGTGTGT
16261	GTGTGCTTGC	ATGGCGTGTG	TGCTTGTGTG	TGTGTGCTTG	CATGGTGTGT	GTGTGTGTTT
16321	GCATGGTGTG	TGTGCGCTTG	TGTGTGTGTG	TTTGCATGGT	GTGTGTGTGC	TTGCATGGTG
16381	TGTGTGTGCT	TGTGTGTGTG	TGTTTGCATG	GTGTGTGTGC	TTGTGTGTGT	GTGTTTGCAT
16441	GGTGTGTGTG	TGTTTGTGTG	TGTGTGTTTG	CATGGAGTGT	GTGTGTGTTT	GCATGGTGTG
16501	TGTGTGTTTG	CATGGTGTGT	GTGCGCTTGT	GTGTGTTGTT	TGCATGGAGT	GTGTGTGTGT
16561	TTGCATGGTG	TGTGTGTGTG	GA CTGCTACT	GCTGCCATGT	CGCTGCAGTT	CAATGGGTTT
16621	GTGCGTTGTG	ATCACACGGT	CCTGCCCACA	GAGCTGAATG	GGCTATTGGG	GTTTCCCTTG
16681	GTGAGTCCCA	GGCTGTGTGT	GGGGTGAGTG	TGGGGCCTTT	CTTGCACCGT	TTAGCCTGGC
16741	ACGCGTTGCC	CTCTCTCTCT	CTCCCAGGAC	CACATTCAGG	TGCCAGGGCC	TTAATCCTG
16801	TGTCCCTTGT	CCTACTTACT	CCCTCTCCCC	AGACTGTGGG	ACAGGCACCT	GGGGCGCACT
16861	GTGGGGGCTC	TGAGATGCAG	GTGGGTGGGC	CAGGCCTGCC	GAGGGGAGGT	GAGGCGAGCA
16921	GAGCCCTTTG	AGGGTGATGG	AGCTTGGCTG	GCCCCATGGC	CCGAACCCAC	CTGGCCTAGG
16981	GGCGTGGCTC	AGAGCAGGTG	CACACAGGGC	TTATTACCTT	GTGCATTCTT	CAAACAGTCC
17041	AGGTGTGAGT	GTGAGGCTGT	GAACACACCG	GGGGTG TGC	TGCCAGGTGT	GGCCCTGGAC
17101	GGGGTG GCCC	CCAGCACCTC	TGGGTTTCCA	GCCCCAAAA	GTGGGTGTCT	CTGGGCCCCAC
17161	CTGCTCCTGG	AGCTGGGCTC	GC ACTGACCC	TGGGAAGACA	GCCTCCCCCTG	GGCATT TTTG
17221	GGACGCTGGG	CCCAGCCCAT	GCCTCGTG GC	TCAGCTTCCC	TCAGCCAATA	CTTTCGAGAC
17281	ATGTATTTTG	AGACATCCCT	GGAGACATGG	CCAGTATATT	TGTATTTTAT	ATGAACCCGG
17341	AAGGCTGGAC	CTGAAGAGGC	CCCCTGGGTG	AGGGGGCCAG	GCTGAGCTCG	AGTTCCCCAG
17401	GGCCTCCAGC	AAGAAAGGCA	CCCAATGCCT	CCTTACAGGA	GGAGCAGGCG	CATGTCCACA
17461	GAAGATCTGA	AAAGACCCCA	TCAAAATATT	CGTGGGTGTC	TTCTCAAGAC	GAGGGGGGCA
17521	ATTTTCGCTT	TACATTTTGT	TCCAATTTT	TATTGTTGTA	AAAAACACAT	AACATAAAGT
17581	TGACGTTTTT	TGCCACTGCT	GGGTGCACAG	TGCAGTGCTG	TTAGGACATT	CACACTGCCG
17641	TGCGGCCCGC	AGAGCCACCA	TCTCCAGAAC	ATCTTCGTCT	TGCAGA ACTG	AAGCTCTGTC
17701	TTGTTAAACA	CCAGGTCCCC	ACTCCCCGTG	CCCAGCCCCCT	GCCCAGCCCCCT	GGCGGCCACC
17761	ATCTGCTTTC	TGTGTGTGTG	GATTTGGCGG	CCCCAGCCGC	TGGTGTAGTG	GAACCACGTG
17821	GCGTTTGCCC	TTCCGTGGAT	GGCTTGTCTC	TCCAAGCCAA	TGTCCTTGGA	TCCGCCTACA
17881	CTGCCGCCTA	TGCCAGGGCC	TCCTTCCTTT	TGGGGGCTGC	TTGGTGCTCC	CCGGCACAAT
17941	GGGCCTCACC	TTGTTTTCCC	CCAGATTCGT	GGACAGACAC	CAGGCTGCTT	CCACCTCTTG
18001	GCTGTGGTCA	ACAAGACTGC	TGACCCTGCT	TTCAATTCTT	TGTGATTTTG	CACTGAGAAA
18061	AATACCTTTT	AAATGCACGG	TCAGAATTTG	GTGGACGACA	CCCCACCCTG	CGTATGCATT
18121	TGGTGGACGC	CCCACCCTGC	GCATGCATTT	GGTGGACGCC	CCACCCTGCG	TATGCATTTG

18181	GTGGATGACG	CCCCACCCTG	TGTTGATGCC	CCTCTGTCCT	CCCAGGGGTC	AGAGGTGCTA
18241	ACCTGTGCCC	CAATGCCCTG	GTTGGTCTGG	GCCCCTGGAA	ACCACAGCGA	GGGCAGCACG
18301	CTCTGGCTGG	TCCTCTCCCC	GAGGCCGACC	CGGATGGGGA	TCCTTCTATA	GTGTCACCTA
18361	AATGTCGACG	GCCAGGCGGC	CGCCAGGCCT	ACCCACTAGT	CAATTCGGGA	GGATCGAAAC
18421	GGCAGATCGC	AAAAAACAGT	ACATACAGAA	GGAGACATGA	ACATGAACAT	CAAAAAAATT
18481	GTAAACAAG	CCACAGTTCT	GACTTTTACG	ACTGCACTTC	TGGCAGGAGG	AGCGACTCAA
18541	GCCTTCGCGA	AAGAAAATAA	CCAAAAAGCA	TACAAAGAAA	CGTACGGCGT	CTCTCATATT
18601	ACACGCCATG	ATATGCTGCA	GATCCCTAAA	CAGCAGCAAA	ACGAAAAATA	CCAAGTGCCT
18661	CAATTCGATC	AATCAACGAT	TAAAAATATT	GAGTCTGCAA	AAGGACTTGA	TGTGTGGGAC
18721	AGCTGGCCGC	TGCAAAACGC	TGACGGAACA	GTAGCTGAAT	ACAACGGCTA	TCACGTTGTG
18781	TTTGCTCTTG	CGGGAAGCCC	GAAAGACGCT	GATGACACAT	CAATCTACAT	GTTTTATCAA
18841	AAGGTCGGCG	ACAACCTCAAT	CGACAGCTGG	AAAAACGCGG	GCCGTGTCTT	TAAAGACAGC
18901	GATAAGTTCG	ACGCCAACGA	TCCGATCCTG	AAAGATCAGA	CGCAAGAATG	GTCCGGTTCT
18961	GCAACCTTTA	CATCTGACGG	AAAAATCCGT	TTATTCTACA	CTGACTATTC	CGGTAAACAT
19021	TACGGCAAAC	AAAGCCTGAC	AACAGCGCAG	GTAAATGTGT	CAAAATCTGA	TGACACACTC
19081	AAAATCAACG	GAGTGGAAGA	TCACAAAACG	ATTTTTGACG	GAGACGGAAA	AACATATCAG
19141	AACGTTTCAGC	AGTTTATCGA	TGAAGGCAAT	TATACATCCG	GCGACAACCA	TACGCTGAGA
19201	GACCCTCACT	ACGTTGAAGA	CAAAGGCCAT	AAATACCTTG	TATTCGAAGC	CAACACGGGA
19261	ACAGAAAACG	GATACCAAGG	CGAAGAATCT	TTATTTAACA	AAGCGTACTA	CGGCGGCGGC
19321	ACGAACCTTCT	TCCGTAAAGA	AAGCCAGAAG	CTTCAGCAGA	GCGCTAAAAA	ACGCGATGCT
19381	GAGTTAGCGA	ACGGCGCCCT	CGGTATCATA	GAGTTAAATA	ATGATTACAC	ATTGAAAAAA
19441	GTAATGAAGC	CGCTGATCAC	TTCAAACACG	GTAACCTGATG	AAATCGAGCG	CGCGAATGTT
19501	TTCAAATGA	ACGGCAAATG	GTACTTGTTT	ACTGATTAC	GCGGTTCAAA	AATGACGATC
19561	GATGGTATTA	ACTCAAACGA	TATTTACATG	CTTGGTTATG	TATCAAACCTC	TTTAACCGGC
19621	CCTTACAAGC	CGCTGAACAA	AACAGGGCTT	GTGCTGCAAA	TGGGTCTTGA	TCCAAACGAT
19681	GTGACATTCA	CTTACTCTCA	CTTCGACGTG	CCGCAAGCCA	AAGGCAACAA	TGTGTTTATC
19741	ACAAGTACAA	TGACAAACAG	AGGCTTCTTC	GAGGATAAAA	AGGCAACATT	TGCGCCAAGC
19801	TTCTTAATGA	ACATCAAAGG	CAATAAAAACA	TCCGTTGTCA	AAAAACAGCAT	CCTGGAGCAA
19861	GGACAGCTGA	CAGTCAACTA	ATAACAGCAA	AAAGAAAATG	CCGATACTTC	ATTGGCATT
19921	TCTTTTATTT	CTCAACAAGA	TGGTGAATTG	ACTAGTGGGT	AGATCCACAG	GACGGGTGTG
19981	GTCGCCATGA	TCGCGTAGTC	GATAGTGGCT	CCAAGTAGCG	AAGCGAGCAG	GACTGGGCGG
20041	CGGCCAAAGC	GGTCGGACAG	TGCTCCGAGA	ACGGGTGCGC	ATAGAAATTG	CATCAACGCA
20101	TATAGCGCTA	GCAGCACGCC	ATAGTGACTG	GCGATGCTGT	CGGAATGGAC	GATATCCCGC
20161	AAGAGGCCCG	GCAGTACCGG	CATAACCAAG	CCTATGCCTA	CAGCATCCAG	GGTGACGGTG
20221	CCGAGGATGA	CGATGAGCGC	ATTGTTAGAT	TTCATACACG	GTGCCTGACT	GCGTTAGCAA
20281	TTTAACTGTG	ATAAACTACC	GCATTAAAGC	TTATCGATGA	TAAGCTGTCA	AACATGAGAA
20341	TTGATCCGGA	ACCCTTAATA	TAACCTTCGT	TAATGTATGC	TATACGAAGT	TATTAGGTCC
20401	CTCGACTATA	GGGTCACCGT	CGACAGCGAC	ACACTTGCAT	CGGATGCAGC	CCGGTTAACG
20461	TGCCGGCACG	GCCTGGGTAA	CCAGGTATTT	TGTCCACATA	ACCGTGCGCA	AAATGTTGTG
20521	GATAAGCAGG	ACACAGCAGC	AATCCACAGC	AGGCATACAA	CCGCACACCG	AGGTTACTCC
20581	GTTCTACAGG	TTACGACGAC	ATGTCAATAC	TTGCCCTTGA	CAGGCATTGA	TGGAATCGTA
20641	GTCTCACGCT	GATAGTCTGA	TCGACAATAC	AAGTGGGACC	GTGGTCCCAG	ACCGATAATC
20701	AGACCGACAA	CACGAGTGCG	ATCGTGGTCC	CAGACTAATA	ATCAGACCGA	CGATACGAGT
20761	GGGACCGTGG	TCCCAGACTA	ATAATCAGAC	CGACGATACG	AGTGGGACCG	TGGTTCCAGA
20821	CTAATAATCA	GACCGACGAT	ACGAGTGGGA	CCGTGGTCCC	AGACTAATAA	TCAGACCGAC
20881	GATACGAGTG	GGACCATGGT	CCCAGACTAA	TAATCAGACC	GACGATACGA	GTGGGACCGT
20941	GGTCCAGTGC	TGATTATCAG	ACCGACGATA	CGAGTGGGAC	CGTGGTCCCA	GACTAATAAT
21001	CAGACCGACG	ATACGAGTGG	GACCGTGGTC	CCAGACTAAT	AATCAGACCG	ACGATACGAG
21061	TGGGACCGTG	GTCCAGTCT	GATTATCAGA	CCGACGATAC	AAGTGGAACA	GTGGGCCAG
21121	AGAGAATATT	CAGGCCAGTT	ATGCTTTCTG	GCCTGTAACA	AAGGACATTA	AGTAAAGACA
21181	GATAAACGTA	GACTAAAACG	TGGTCGCATC	AGGGTGCTGG	CTTTTCAAGT	TCCTTAAGAA
21241	TGGCCTCAAT	TTTCTCTATA	CACTCAGTTG	GAACACGAGA	CCTGTCCAGG	TTAAGCACCA
21301	TTTTATCGCC	CTTATACAAT	ACTGTCGCTC	CAGGAGCAAA	CTGATGTCGT	GAGCTTAAAC
21361	TAGTTCTTGA	TGCAGATGAC	GTTTTAAGCA	CAGAAGTTAA	AAGAGTGATA	ACTTCTTCAG
21421	CTTCAAATAT	CACCCCAGCT	TTTTTCTGCT	CATGAAGGTT	AGATGCCTGC	TGCTTAAGTA
21481	ATTCTCTTTT	ATCTGTAAAG	GCTTTTTGAA	GTGCATCACC	TGACCGGGCA	GATAGTTCAC
21541	CGGGGTGAGA	AAAAAGAGCA	ACAACCTGATT	TAGGCAATTT	GGCGGTGTTG	ATACAGCGGG
21601	TAATAATCTT	ACGTGAAATA	TTTTCCGCAT	CAGCCAGCGC	AGAAATATTT	CCAGCAAATT
21661	CATTCTGCAA	TCGGCTTGCA	TAACGCTGAC	CACGTTTCAT	AGCACTTGTT	GGGCGATAAT
21721	CGTTACCCAA	TCTGGATAAT	GCAGCCATCT	GCTCATCATC	CAGCTCGCCA	ACCAGAACAC
21781	GATAATCACT	TTCGGTAAGT	GCAGCAGCTT	TACGACGGCG	ACTCCCATCG	GCAATTTCTA

21841	TGACACCAGA	TACTCTTCGA	CCGAACGCCG	GTGTCTGTTG	ACCAGTCAGT	AGAAAAAGAAG
21901	GGATGAGATC	ATCCAGTGCG	TCCTCAGTAA	GCAGCTCCTG	GTCACGTTCA	TTACCTGACC
21961	ATACCCGAGA	GGTCTTCTCA	ACACTATCAC	CCCGGAGCAC	TTCAAGAGTA	AACCTTCACAT
22021	CCCACCACA	TACAGGCAAA	GTAATGGCAT	TACCGCGAGC	CATTACTCCT	ACGCGCGCAA
22081	TTAACGAATC	CACCATCGGG	GCAGCTGGTG	TCGATAACGA	AGTATCTTCA	ACCGGTTGAG
22141	TATTGAGCGT	ATGTTTTGGA	ATAACAGGCG	CACGCTTCAT	TATCTAATCT	CCCAGCGTGG
22201	TTTAATCAGA	CGATCGAAAA	TTTCATTGCA	GACAGGTTCC	CAAATAGAAA	GAGCATTCT
22261	CCAGGCACCA	GTTGAAGAGC	GTTGATCAAT	GGCCTGTTCA	AAAACAGTTC	TCATCCGGAT
22321	CTGACCTTTA	CCAACCTTCAT	CCGTTTCACG	TACAACATTT	TTTAGAACCA	TGCTTCCCCA
22381	GGCATCCCGA	ATTTGCTCCT	CCATCCACGG	GGACTGAGAG	CCATTACTAT	TGCTGTATTT
22441	GGTAAGCAAA	ATACGTACAT	CAGGCTCGAA	CCCTTTAAGA	TCAACGTTCT	TGAGCAGATC
22501	ACGAAGCATA	TCGAAAAACT	GCAGTGCGGA	GGTGTAGTCA	AACAACCTCAG	CAGGCGTGGG
22561	AACAATCAGC	ACATCAGCAG	CACATACGAC	ATTAATCGTG	CCGATACCCA	GGTTAGGCGC
22621	GCTGTCAATA	ACTATGACAT	CATAGTCATG	AGCAACAGTT	TCAATGGCCA	GTCGGAGCAT
22681	CAGGTGTGGA	TCGGTGGGCA	GTTTACCTTC	ATCAAATTTG	CCCATTAAC	CAGTTTCAAT
22741	ACGGTGCAGA	GCCAGACAGG	AAGGAATAAT	GTCAAGCCCC	GGCCAGCAAG	TGGGCTTTAT
22801	TGCATAAGTG	ACATCGTCCT	TTTCCCCAAG	ATAGAAAGGC	AGGAGAGTGT	CTTCTGCATG
22861	AATATGAAGA	TCTGGTACCC	ATCCGTGATA	CATTGAGGCT	GTTCCCTGGG	GGTCGTTACC
22921	TTCCACGAGC	AAAACACGTA	GCCCCTTCAG	AGCCAGATCC	TGAGCAAGAT	GAACAGAAAC
22981	TGAGGTTTTG	TAAACGCCAC	CTTTATGGGC	AGCAACCCCG	ATCACCGGTG	GAAATACGTC
23041	TTCAGCACGT	CGCAATCGCG	TACCAACAC	ATCACGCATA	TGATTAATTT	GTTCAATTGT
23101	ATAACCAACA	CGTTGCTCAA	CCCGTCCTCG	AATTTCCATA	TCCGGGTGCG	GTAGTCGCCC
23161	TGCTTTCTCG	GCATCTCTGA	TAGCCTGAGA	AGAAACCCCA	ACTAAATCCG	CTGCTTCACC
23221	TATTCTCCAG	CGCCGGGTTA	TTTTCTCTCG	TTCCGGGCTG	TCATCATTA	ACTGTGCAAT
23281	GGCGATAGCC	TTCGTCAATT	CATGACCAGC	GTTTATGCAC	TGGTTAAGTG	TTTCCATGAG
23341	TTTCATTCTG	AACATCCTTT	AATCGTTGCT	TTGCGTTTTT	TTATTAATC	TGCAAAATTA
23401	CTGCAAGCA	ACAACAAAA	CGCAAAGTCA	TCAAAAAACC	GCAAAGTTGT	TTAAATAAG
23461	AGCAACACTA	CAAAAGGAGA	TAAGAAGAGC	ACATACCTCA	GTCACCTATT	ATCACTAGCG
23521	CTCGCCGCAG	CCGTGTAACC	GAGCATAGCG	AGCGAACTGG	CGAGGAAGCA	AAGAAGAACT
23581	GTTCTGTCAG	ATAGCTCTTA	CGCTCAGCGC	AAGAAGAAAT	ATCCACCGTG	GGAAAACTC
23641	CAGGTAGAGG	TACACACGCG	GATAGCCAAT	TCAGAGTAAT	AACTGTGAT	AATCAACCCT
23701	CATCAATGAT	GACGAACTAA	CCCCCGATAT	CAGGTCACAT	GACGAAGGGA	AAGAGAAGGA
23761	AATCAACTGT	GACAACTGC	CCTCAAATTT	GGCTTCCTTA	AAAATTACAG	TTCAAAAAAGT
23821	ATGAGAAAAT	CCATGCAGGC	TGAAGGAAAC	AGCAAACTG	TGACAAATTA	CCCTCAGTAG
23881	GTCAGAACAA	ATGTGACGAA	CCACCCTCAA	ATCTGTGACA	GATAACCCTC	AGACTATCCT
23941	GTCGTCATGG	AAGTGATATC	GCGGAAGGAA	AATACGATAT	GAGTCGTCTG	GCGGCCTTTC
24001	TTTTTCTCAA	TGTATGAGAG	GCGCATTGGA	GTTCTGCTGT	TGATCTCATT	AACACAGACC
24061	TGCAGGAAGC	GGCGGCGGAA	GTCAGGCATA	CGCTGGTAAC	TTTGAGGCAG	CTGGTAACGC
24121	TCTATGATCC	AGTCGATTTT	CAGAGAGACG	ATGCCTGAGC	CATCCGGCTT	ACGATACTGA
24181	CACAGGGATT	CGTATAAACG	CATGGCATA	GGATTGGTGA	TTTCTTTTGT	TTCACTAAGC
24241	CGAAACTGCG	TAAACCGGTT	CTGTAACCCG	ATAAAGAAGG	GAATGAGATA	TGGGTTGATA
24301	TGTACACTGT	AAAGCCCTCT	GGATGGACTG	TGCGCACGTT	TGATAAACCA	AGGAAAAGAT
24361	TCATAGCCTT	TTTCATCGCC	GGCATCTCT	TCAGGGCGAT	AAAAAACCA	TTCTTCCCC
24421	GCGAAACTCT	TCAATGCCTG	CCGTATATCC	TTACTGGCTT	CCGCAAGGAT	CAATCCGAAT
24481	ATTTACGAT	ATTTAGCAAC	ATGGATCTCG	CAGATACCGT	CATGTTCTCTG	TAGGGTGCCA
24541	TCAGATTTTC	TGATCTGGTC	AACGAACAGA	TACAGCATAC	GTTTTTGATC	CCGGGAGAGA
24601	CTATATGCCG	CCTCAGTGAG	GTCGTTTGAC	TGGACGATTC	GCGGGCTATT	TTTACGTTTC
24661	TTGTGATTGA	TAACCGCTGT	TTCCGCCATG	ACAGATCCAT	GTGAAGTGTG	ACAAGTTTTT
24721	AGATTGTCAC	ACTAAATAAA	AAAGAGTCAA	TAAGCAGGGA	TAACCTTGTG	AAAAAACAGC
24781	TTCTTCTGAG	GGCAATTTGT	CACAGGGTTA	AGGGCAATTT	GTCACAGACA	GGACTGTCAT
24841	TTGAGGGTGA	TTTGTACAC	TGAAAGGGCA	ATTTGTCACA	ACACCTTCTC	TAGAACCAGC
24901	ATGGATAAAG	GCCTACAAGG	CGCTCTAAAA	AAGAAGATCT	AAAAACTATA	AAAAAAATAA
24961	TTATAAAAAAT	ATCCCCGTGG	ATAAGTGGAT	AACCCCAAGG	GAAGTTTTTT	CAGGCATCGT
25021	GTGTAAGCAG	AATATATAAG	TGCTGTTCCC	TGGTGCTTCC	TCGCTCACTC	GAGGGCTTCG
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25141	CTGTGTTTCA	TAGGTTGTTT	TGTCCATTGC	TGACATAATC	CGCTCCACTT	CAACGTAACA
25201	CCGCACGAAG	ATTTCTATTG	TTCTGAAGG	CATATTCAAA	TCGTTTTCTG	TACCGCTTGC
25261	AGGCATCATG	ACAGAACACT	ACTTCCTATA	AACGCTACAC	AGGCTCCTGA	GATTAATAAT
25321	GCGGATCTCT	ACGATAATGG	GAGATTTTCC	CGACTGTTTC	GTTGCTTCT	CAGTGGATAA
25381	CAGCCAGCTT	CTCTGTTTAA	CAGACAAAAA	CAGCATATCC	ACTCAGTTCC	ACATTTCCAT
25441	ATAAAGGCCA	AGGCATTTAT	TCTCAGGATA	ATTGTTTCAG	CATCGCAACC	GCATCAGACT

25501	CCGGCATCGC	AAACTGCACC	CGGTGCCGGG	CAGCCACATC	CAGCGCAAAA	ACCTTCGTGT
25561	AGACTTCCGT	TGAACTGATG	GACTIONTATGTC	CCATCAGGCT	TTGCAGAACT	TTCAGCGGTA
25621	TACCGGCATA	CAGCATGTGC	ATCGCATAGG	AATGGCGGAA	CGTATGTGGT	GTGACCGGAA
25681	CAGAGAACGT	CACACCGTCA	GCAGCAGCGG	CGGCAACCGC	CTCCCCAATC	CAGGTCCTGA
25741	CCGTTCTGTC	CGTCACTTCC	CAGATCCGCG	CTTTCTCTGT	CCTTCCTGTG	CGACGGTTAC
25801	GCCGCTCCAT	GAGCTTATCG	CGAATAAATA	CCTGTGACGG	AAGATCACTT	CGCAGAATAA
25861	ATAAATCCTG	GTGTCCCTGT	TGATACCGGG	AAGCCCTGGG	CCAACCTTTG	CGGAAAATGA
25921	GACGTTGATC	GGCACGTAAG	AGGTTCCAAC	TTTCACCATA	ATGAAATAAG	ATCACTACCG
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26101	TTTCAGTCAG	TTGCTCAATG	TACCTATAAC	CAGACCGTTC	AGCTGGATAT	TACGGCCTTT
26161	TTAAAGACCG	TAAAGAAAAA	TAAGCACAAG	TTTTATCCGG	CCTTTATTCA	CATTCTTGCC
26221	CGCCTGATGA	ATGCTCATCC	GGAGTTCCGT	ATGGCAATGA	AAGACGGTGA	GCTGGTGATA
26281	TGGGATAGTG	TTCACCCTTG	TTACACCGTT	TTCCATGAGC	AAACTGAAAC	GTTTTTCATCG
26341	CTCTGGAGTG	AATACCACGA	CGATTTCCGG	CAGTTTCTAC	ACATATATTC	GCAAGATGTG
26401	GCGTGTTACG	GTGAAAACCT	GGCCTATTTT	CCTAAAGGGT	TTATTGAGAA	TATGTTTTTC
26461	GTCTCAGCCA	ATCCCTGGGT	GAGTTTCACC	AGTTTTGATT	TAAACGTGGC	CAATATGGAC
26521	AACTTCTTCG	CCCCCGTTTT	CACCATGGGC	AAATATTATA	CGCAAGGCGA	CAAGGTGCTG
26581	ATGCCGCTGG	CGATTACAGT	TCATCATGCC	GTTTGTGATG	GCTTCCATGT	CGGCAGAAATG
26641	CTTAATGAAT	TACAACAGTA	CTGCGATGAG	TGGCAGGGCG	GGGCGTAATT	TTTTTAAGGC
26701	AGTTATTGGT	GCCCTTAAAC	GCCTGGTTGC	TACGCCTGAA	TAAGTGATAA	TAAGCGGATG
26761	AATGGCAGAA	ATTGATGAT	AAGCTGTCAA	ACATGAGAAT	TGGTCGACGG	CGCGCCAAAG
26821	CTTGCATGCC	TGCAGCCGCG	TAACCTGGCA	AAATCGGTTA	CGGTTGAGTA	ATAAATGGAT
26881	GCCCTGCGTA	AGCGGGGCAC	ATTTTCATTAC	CTCTTTCTCC	GCACCCGACA	TAGATAATAA
26941	CTTCGTATAG	TATACATTAT	ACGAAGTTAT	CTAGTAGACT	TAATTAAGGA	TCGATCCGGC
27001	GCGCCAATAG	TCATGCCCGG	CGCCACCGG	AAGGAGCTGA	CTGGGTTGAA	GGCTCTCAAG
27061	GGCATCGGTC	GAGCTTGACA	TTGTAGGACT	ATATTGCTCT	AATAAATTTG	CGGCCGCTAA
27121	TACGACTCAC	TATAGGGAGA	GGATCCTCCA	GTTGATCCTA	CCACAGATGG	TGCAGAAGGG
27181	GCTCTCGGGC	AGATGGGGGT	GGCCCCCGGA	GGACGGTGGG	CTTCGCCAGA	GACGGAACAG
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27301	CCTGCTGGGG	GCAGCCCTGC	CCAACTGCAG	ATCCCAGGGG	CCCACAGGGT	GCAGATGTGG
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27481	CAGGCTGCTG	GGGATGGGTG	TGGTGCTGGT	GGGGGCCTTC	TGCCTGGCTG	GGAGCGGGGG
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27781	CGGGAGTGCC	CTGTGTGCCT	GGGAGGTCCG	TGACCACTGT	CCGCCTCAGT	CCCTCTCTGC
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28021	CCTTCAGCCC	CAGGAGAGCA	GGCAGCGACC	CTGCTAGTCT	CCACAGGCCA	CAGAGTGCA
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51061 CCGTTGATGC AGTGGCTGCA AGAGAGAGGC TGCGTGAGAC CCGGGGACCT GGCAGGGACC

51121	CCCCGCCTGG	CCCCTGCCCG	GTCCCTCACC	AGGTGATGCC	GTTGATGACA	GTGGACTGCT
51181	CGGCCAGGAT	GAAC TTGTAA	CCCTCCAGTA	TGCACGGGCA	CTGGGCCTTG	CGCACACACT
51241	CGCCCTTTTG	GTTCAGGTAG	GTGCCATCGG	GGCAGTTGCA	ACCGTCCACG	GGCACGGCGC
51301	TGTGGTGGCA	CTCGGTGGCA	CGGTCCGACA	GCGACAGGCA	GGTGCGCTCA	CAGGCTTGGC
51361	TGTTGTAGCT	GAAGGTGGTG	TTACCCGTGC	AGGGGATGGC	TGTGGGGGAC	CCGGGCATCA
51421	GACTCTCCGG	GAGGGGGCGG	CCGGGAGGGC	AATCTCGGGT	TCCCCTGCCT	GCCGGGCACT
51481	GCAGAGCCTC	AGAGCTTGGG	GTCCCAGGAC	ACCCCCTCGT	GAGCCCAGCC	TGCCGTGACC
51541	CCGCTTAAGC	CCCGTCGGGC	ACTCACTGCA	GTTGTCCACA	CTGCTTCTCC	AGCCCCAGAG
51601	CAGGACGCCC	CGCAAGGAGC	AGGCGTGTAC	GTAGTCGCCC	AGGGCGGCAC	AGATGTGGGG
51661	AAAGGTCTCC	TCGTAGTTGC	AGGCCTGGTA	CACGCACCTC	TGCGGGCAGA	GAGCCAGCAT
51721	GGGCTGGTGG	CAGGCACCCT	GCCCTGGGGA	CATGGGGGTC	CCAAACCTAT	GCCCTTGGGT
51781	GCCTGAGACC	TTGTGAGCCA	CCACAGCCTC	CCCTGCAGCC	CTCCCAAGAC	GCCCTCGGGC
51841	CCTCACCTTG	TAGAAGGGTG	CAGGGTTCAC	TGTGGCGTGG	CACCTCTCGA	ACACCGTGCC
51901	TGTCCTCAGC	AGCATGGAGC	AGTGGGTCTC	TGCACACACC	TCTGGGGATG	ACAGGCCCGG
51961	GCGTGAGTCC	CGGCCCTTCC	CATTCCAGCT	ACGGCTCCTC	CCAGGGACCC	CCCACCCTGG
52021	CAGCTGGGCC	TGTGGTCCAG	TCCAGGGGTC	TGTCAGAACT	GTGGGCGCTG	GGGGGGCAGC
52081	CAGGGGAGTG	GGGGGCCGGA	CACTCACTGT	TGAGCTGGCT	CATGGAGCAG	GGGTCACTCT
52141	CACGCTCCAG	AGCGGCCGGA	CAGTTCCCCG	CCCGCCAGGA	GTCCACAAAC	AGCGAGGCGG
52201	TGCCCTCGGC	GATACCCATG	CTAGTGGTGA	AGTCATCCGT	TGTGTCCCCG	TTGAAGTTGC
52261	CGCAGAGCCC	TGAGCCGGCG	GGGCGTGAGC	TCGACTTGAA	CCCATCCCTC	CTGCACCCAT
52321	TCCTGCCCCA	ACGCCCTGGA	GCTCCCGTCC	TTCTCTAAC	AGCACCTTGG	GTGAGAGGCT
52381	GCGTGGGCCA	CACGTGCCTG	TTACCCCTGG	GGGCTCCCCG	GACACAGAGG	GTTGTGTGAA
52441	CCTCTCTTGG	ACCTTTCTCC	TCCCCTGGTC	ATGGCCAGAC	CCTGTAGGGA	TGAGGCAACA
52501	GGGCCACCTG	GAGAGGCAGG	GACTCACCTC	TGGTCTGACC	TCTGAACTGG	GGCCCAACAG
52561	TGACATAGGC	CTGGAAGATG	GGGCGCAGCT	GGACCACGAG	CTCCAGCCCC	AAGCTGGTGG
52621	CCATCTGGAG	GTGGGTGGAC	GTCTGCCTGA	AGACCGTGAT	GTTGCCTGCA	GGACGCACTG
52681	CTCAGTGGGC	CGTCTGGGCT	CCCTCCCCAC	CCACTGCAGC	CCGCCCCGAA	GGCACAACTC
52741	TGGGGGGCCA	CAGACTGGGC	CAGGACGTAC	GAGTCTTGTA	TGGCAGCCAC	TTGGCTTCTC
52801	CGTTGTTGGT	GACCACCTCG	TCCTGAGAGA	TCACAATTTT	GTCTTGAGAG	GAGGGTGGCC
52861	TGAGTCAGGG	TGCAGGCACC	AGGGAGCGGA	GCCCTGCTGG	CAGGGATGGG	CGCAGGAAAG
52921	GCCTTACCTG	CCTGGAGAGG	TAGACCACAG	CCACCAGGGA	GGTCTCGGAG	TGTGAGACGC
52981	CGGACTTGTC	GTACACAGCC	ATGAGGGCAC	CGTCCTCGGG	AAGCTGGGGG	CTCTGCGAGG
53041	GGGCGGGGCT	CAGACACGGG	TGGGGTCACC	GGGAGCGCCC	CTCCCCACGG	GCCACAGGGC
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53161	AAATGTGGTA	ACAAAGGAGC	CACCTTCCAG	GGAGCAGTGT	CCGGGGCACG	GCCGCTCCGT
53221	GCACACCCAG	CGGCCACGGG	TGCACCGGCT	GTGGGTGGGC	GTGGGGGTAG	CGGCATGGTG
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53341	CCGGCCGGCC	AGAGCCCCCT	CCGGCGCCTC	ACTCACCAGG	TTTGGCAGGC	AGCTATTGTG
53401	ACCTCCCCGG	GGGCATACAT	GGCGCCGTGG	AGCACACAGG	GGCACTGGGT	GACGGGCACG
53461	CAGGTGTGGT	TATTGGAGAG	GTCATTACAG	ACCGTACCTG	CAGGAGAGGG	TCTTCTTGGG
53521	GCTTGGGTGG	GACTGACTGC	CTCCCACTCT	CCCCTCCCTG	GCTCCAGGGA	GACGCCCCCT
53581	CCAGCCTGGC	TCCAGGGAGA	CGCCCCCTCC	AGCCTGGCTC	CAGGGAGACG	CCCCTCCAGC
53641	CTGGCTCCAG	GGAGACGCCC	CCTCTAGCCT	GGGCCATGAC	CTCTCTCCAG	CTGCACCTTG
53701	ATTGCAACT	CTATGTCAGG	CCCTGGGCGT	GCACAGCCCC	TCGTGCCAAT	GTGCCCGGCC
53761	CAGGTTCTTG	GTGAGTGGTG	GCCTCCAGCA	GGCAGGGACG	TGTAAC TTGTC	CCTTGGGCCC
53821	GGCTCAAACC	CTGCCTTCCC	TCGGCAGCTC	CTAGACCGCA	GTGAGCAGCC	CTCACCGCCC
53881	GTGGGTTTGG	AGGGGTGGCC	GTGGCTGGGG	GACCTGCAGG	CTGTAAGCGT	CCAGGCGGGA
53941	AAAGCCTGTC	CCAGGGCAAG	AGGCGCCAGA	GCTGGGACTC	AGGCAGCAGA	ATGTTGGGGT
54001	GACCTGGGTC	GGGGTGGGTG	GGGTCTGACG	TCCCCTTGTC	TCTGGGTTCT	CTCTAGGGGT
54061	CCCGGGGAGA	GAGAGTGCCT	GCGACTGCCC	TCACCTTCCG	GGCAGAAGCA	CCCGAAGGTG
54121	CAGGAGCTGG	AGCAGCTGTG	CTGCGGGTTG	GAGCAGGTCT	TCACGCAGGC	CGAGCCGCAC
54181	TCCTGGTACA	CCTGGTTGGC	CGGGCACTGA	CCCACGGCTG	TGGGCACACG	CGGCTCCGGT
54241	GAGAGGGTCC	CACCCCCCCC	ACCCCTCCCT	GCCCCACCCC	AGCTTGATGG	AGGACTTAGC
54301	CCAGCCCTTC	CTCCATCTAG	AAGCAGCAGC	GAGGATCTCC	TGTCTCTCAG	ACCAGGAGGG
54361	ATGCAGGCGT	CACGTACGGC	AGTCCAGGGG	CTGGGAGAGC	TGGGTCTGGA	GCCCTCGGCC
54421	TTCTGCCCC	TCCCTCTCCC	TTCCCTGGAC	TCACAGCACA	GGCCGGGGCT	CCGCCAGCGG
54481	CGGACCGGCT	GGCCCAACAT	GCTGCACTGG	CGGGAGTACT	CCGACAGGGT	GGCACAAC TG
54541	CTGTTCTGTG	GGCCTGGCTG	GGGGGCTGCG	GCCACGTCCG	CCTGGCAGCT	TAGCACGAAG
54601	GGCTCCTTGG	ACACGCTGCA	CTCAGGGGCC	ACCAGGGTCA	GCAGCTGGGT	GCAGATCCGG
54661	GCCTGGGGGG	GCCACTCAGG	GTGATGGGGG	CAAAGGCCAC	ACCCCATGCC	ACCACGACTG
54721	GGGAGGTCGG	GCAGGGCGTC	TGTGATGCGG	CTGCTTGTGG	GGGCCCTTGG	TGGTCTCGGC

54781 GACCCTGTCA GACCTGGGGT CAGCCCCACC TGGAGCCCCC TTGCTTACGT GCTGGGCCTG
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55021 AGAGGCCCCC CAGCCCTGCC CCCACCTACC CTCCTCACTG ACAAACCTCG TGGTCACCTT
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55321 CTGGCTCATG TTGCTGGTCA GGGGTACAGA CTGCTTGGCA CGAAGGGCCT GGCTGCATGG
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55441 CCCCCTGCTG CGGGTCTCCA GGCCACCCCT GGCCCTTCTC TCCTCACCAT GAGGTGGCTG
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55981 GGCCAGGCAG GGCTGGGGCA GGCAGAGAGG TCACTCGTCT CCCTGGGCCA GGGTTTTTGA
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56881 GCTGTGTTCT TACCTGTCTG TGGAGAGTCC TTCAGCCTCT GGAGGCCTGG GCTGGTGTAG
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57361 GCGGCTGGT TTCCCTGAGG GGTCTGCGCC AAGGCCCCAC AGCCGTTTCT CCCTGCTCTC
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57721 TGTCTGAGTG GTGGTGCGGC ACCTGAGCAG GACCCGTGAC CTCTCCAGGC CCTTCTGGG
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57841 GATGTAGCTC AGAGATCCCA TTCCTGCCAC TCCTCACCTG TGCTCTCACC CCAGGCTCTG
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58441	TGGCCTCTGG	TGGGGGAGGG	GTGGGAGAGC	TCTGAGCGGG	AGGAGCAGTT	GGCTGCCTGC
58501	CCCTGGGCCA	GCACCTCTGG	AGGCTGCAGA	GCTGTGACCG	GTCTCCCCCTG	GGCAATGCCC
58561	CCTGCAACTC	AGTTTCTCCA	CCTTTCCGAT	GGGGGGTGGC	ACTTGGGGGGC	CGTCCCCGCT
58621	GTAGCACAGA	CACCTCGGGC	CTGTGTTTCG	GTGCCCTCAG	CCCTGCCAGG	CTGGCTTCAC
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58741	CCACCCGCAG	GAGGTTCCCC	GAGTCCACTG	GCTCCAAGTC	GGCTGCCTCC	AGCTCTGAAG
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58921	GGACGAGCAC	GAGGCGGCAG	GTGCGCACTG	TTCCTTCTGC	ACGCTTGCGG	GCCGCCCACC
58981	CCTGCCTCCC	GGCCACCGC	GGCCAGGCC	TGCAGCCCGT	CTGTCCGACC	CCACACTCTG
59041	CTGGCTGAGG	CCCCTCCCAT	GTTGGCAGAG	ATGGCGCTCA	GAGATTATTT	GCTGGGGTGA
59101	CGGGTGGACA	CCCCCACTTG	GCCCTCCACC	CTCTGCACTG	CCCACAGCCC	AGACCTCCAG
59161	CCTCTCTGGG	CCTCACCACA	CCTCCCTCCC	TGGCTCCAGG	GTGGTGGCCC	GAGGGACTAG
59221	GGGTGCACT	CTGCTGCAAG	TTTAGCCCCA	CTTCCTGGCA	CTTGTCCCCA	AGCTGTGCCA
59281	GGTGTGCAGG	TAGGGGCTGG	GGTCCAAGC	AGAGGGCACC	GCTGGGAGGG	CTCAGAGACC
59341	CCCACATCTC	CCACGGTTGA	AGGGTGGTGC	CCGGCGTGGT	AGGGAGCGGG	CTCAGAGACC
59401	CCCATATCTC	CTACAGTTGA	AGGGTGGTGC	CCGGCGTGGT	GGGGAGCGAG	CTCAGAGACC
59461	CCCACATCTC	CCACGGTTGA	AGGGTGGTGC	CCGGCGTGGT	GGGGAAGGGG	CTTCAAAGGA
59521	GAGAAGGGGT	GGGGTGGGCT	TGGGTGCGCC	TACAGTGGGA	CACCCCTGGG	GGGGTCCCAC
59581	TGTGCTCTGA	GCCCCAGGCG	CCCAGGTTGG	CAGCAGCTCC	GAGGGCGAGC	TCTGTACGCG
59641	CAGCGTCCAC	CCCAGGGGGC	TCCCGGCTGT	GGAGGAGGGT	CGGGCCAGCT	TGGAGAGGAA
59701	GGAGGAGCAC	GGAACACAGA	GGCCCTTGGG	CTGGTGCTTT	GGTCGGCAAG	AGGGGTCTCC
59761	CCAGGTCTCA	GGCTGCGGCC	ACAGAGGGAC	CCCTTGGGGC	TGGCTCCTTC	TGGGGGCTG
59821	GGGAGGGACT	GATGGTCACC	TGCAGCAGCC	GCAGGGCAGG	CGGTTGGCAG	AGGATCCAGG
59881	ATGTCACTCC	CTCCTGGATC	CTGCCCAGAG	TGGGTAGGGG	AGCGCGGGGG	AGAGGGCAGG
59941	CTGCCTGCGG	CGGTTCTGAG	CCCAGGATGG	CCGTACACCT	TCCCCCTCT	TCCCCCCACG
60001	GCGGCCACAC	CAGGGGAGGC	AGCGTCCCCC	ACTTCTGTAG	ACTAGGAAAC	GAGCCCCAGG
60061	GCCCAGCAGA	GACTGTGCCT	CTGTCCCCCA	CACTCCAGAG	ACCTCTCAGG	ACTCAGGACC
60121	CCACTCGGGG	AGGGAGAGCG	CCAGGGCTGG	GCACCAGCAC	ACCTGCCAC	TGTTCCCGCG
60181	GGAGTGCCGG	ACCCCACTCC	AGCTGAGCGT	CCTCCCCCGC	TGGCTGCTGT	GCCAGCTCAC
60241	AGGAGGGCGT	CCCTGCCCAG	GCCCCATGGG	GTCCCTGACC	CCAATTGGCA	GAGCCCAGCA
60301	CCGCGGCTGC	TGGGGGGACC	CGGGCCTGGC	AGCGGGGGCT	GGTCACGGAG	CCGAGCTGGG
60361	GCCTCCCGTC	CATCAGCGTC	CATGTGGGCC	AGCCGAGTTG	TCGAGGCGAG	AAGGCCCAGA
60421	GACCCCCGCA	CACAGGGCCC	CTCTGAGGGC	ACCGCAGTGT	CTGGCGCCCC	TCGACCTCAC
60481	TCACCAGCGC	TGAGCAGGGC	TCCGCAGCAG	GACAGCAGCA	GCCACCGCTG	GACCATGGTG
60541	CACAGTGGAG	AGGAGCTCGC	GCTGGGCCCC	GCAGGCCTGC	TGCTGCCATC	CATGCGGCTC
60601	CAACGGCCGG	TCCTGGGTGC	CTTATATAGG	CTGGCGGGCC	CTCCCCCGCC	GCACCTGCCT
60661	GCGCCCCGCG	GTCCAGCCCC	TTAATCACCA	CTGCCGGCGG	GCGCCGCGGT	GGCCAAACAG
60721	GATCTGGGCC	TGCTTTATCA	GGACTCGGCT	TTCTTTGGAA	AATCCTGCAG	GCAGCGGCCC
60781	CATTATCACC	CATTCCCAGC	GGGGGGCTGA	CGCACGCACG	CCCCAAAGG	TCCTGCAAAC
60841	ACCCCTTGCA	TGGGGGCCAT	CCTGGCCCCG	GCCCTCCCCG	CTGCTGGGTC	AACGTGGCAC
60901	TGTCAGCCAC	ACGCCTGGTG	GCCGGGATGG	ACCTGTTGGG	GGAGGTCGGG	GGCCCTGGGG
60961	CACCTGACTCT	GCCCCTTCCG	GGGAGCCCA	TGCTGACCCA	GCTTGGGGGG	AAACCTGCTG
61021	CACCTGAATC	CCAGGACCCC	CTGAGGGGCA	CTGGGCCCAC	CCCTCACCCCT	GAATCCCAGC
61081	ACCCCTGAA	GGGCCCTGGG	CCCACCCCTG	AGTTCCCTGC	CCAACAGGAA	AGATCACCCA
61141	GCGGGAGGGA	CCTTGCCAGG	GGGTGTTGGG	GAGCAGGGGC	TCCGCCGTCT	GGGACAGGCA
61201	GCGGCCTTGG	GGCTTAGACA	GGCTGCCCTG	GAGGCCTGAG	GAGCTACCGT	GTCTCTGCAG
61261	CCCGCCAGGT	CCCAGGCTTG	CTCCTGAAGA	CCCCTCCACA	GCTGTTTTCT	TCCCCCTTCG
61321	AGCGCTGTTG	GCAGCCATCT	TGAGGACAGG	AACTCGGGGG	CTGCTCGTCT	GCTGGGGCAT
61381	CTCTGCGGGG	CTGTGGGGTC	GCCGGTATGC	TCCTGACCCC	TTCAGGCAGA	GGGGCAGGGA
61441	CTGGGATGAC	CAGGGGGCCT	TGCCTGTGGA	GGCACGTGCC	ACGTCTGAGG	GGCCGGGGAC
61501	AGGGCAAGGT	CTGGTGACAT	CGGGGTGGTG	CCGGTGGCTG	GCGGGGGGGA	GGGAGGTGGA
61561	GGTCTGAGTG	GTCACCAGGA	TTGCCCCAGC	TTCGTTTGGC	AGCCCAGGGA	CCCCTCCCAA
61621	AGGGGATTTT	GGTCCCCGAC	TCCGACAGGA	GCCCTCGCTG	GCCTCGGGGC	TGCTCCCACC
61681	ACACGTCAGC	ATCCCGGCCT	GAGCCAGGAG	GGACTCCGAG	GCCGCCTGGT	CTCCCTGGGC
61741	CGGGCTCCCC	ACATGGGGCT	GCACCCCCAT	CCCACAGGTG	AGCTGAGCCT	GCTGGCTGGG
61801	ACCCGGGCCT	GCCACCTCTG	TCCCACCTGT	GCCCACACGC	CCGGGAGCTG	CCCCACCTGC
61861	CCCCGGAAGA	GGCCCCAGGG	CCACGCGTGC	CATACACAGT	AGGTGTGCGG	TGTTTCACTT
61921	AAATCAGCTT	CAGTTTTGTG	GAACGTTGCT	TGAAGTTACA	ATAAGTTGCT	TTTGTAGGAA
61981	ATTGCAGTAC	GTGTGCTGCC	CCCCACCAGG	AGCCCCACAC	CAGGCATTCT	GGGTGTTCTA
62041	CTCTCATCTG	TTCTTCTTTT	TAATTTTTTCG	GTTTTGTAGG	GACGAGGTCT	CACTTTGTTG

62101	TCCAGGCTGG	CCTTGAAC	TC	CCGGA	CTCA	GAGAT	CCTCC	TGCCT	CAGCC	TCCCAGAGTG
62161	CTGAGATGAC	AGGCGTGAGC	CACCGTGTCC	AGCCTTGGCT	GTCCCTTCTT	AACACGCTCA				
62221	GTGGTCCCTG	TGGTTCAGGT	GAGAAGCTGA	GGCACAGGAG	TGAGGCCCTT	GCCCTGTTCAT				
62281	GCTGAGAGGT	TGGATGGACG	CAGGGCTCAC	AGCTGGCCCT	CGTTCTGAGC	TGGGGCCTCT				
62341	CAGCCCGGGC	TCGAGGTGGG	GACGATGAGG	GGCAGAGATC	TTAGGGCCTC	CTTCCCTGGG				
62401	TGGGTCACTG	CACCAGGGCA	GCTGGTGCCA	AAAGGGACCT	CATGGGCAGG	TGTCATGGCT				
62461	GGGAGCCCTG	TGGCCATGTC	AGCCCGGCGG	TTGTGCTTGT	CTGACCACCT	GTCTGGGCTT				
62521	GTGAGAACCG	AGCTCAGGTT	CTCAGGAGGG	ATCCTATGAA	GCTTTGAATG	TAGGGGCAGG				
62581	GGTGGGTTGG	GGGTGAGAGC	CAGTGGACAC	TGGTTCCCCG	GCCAGGCCTG	TAGGGCTTCG				
62641	GGTCCTGGCC	ACTGAGGCTT	CCATTTCCCA	GCTGTAAAGT	GGCAGAGACC	CCTGACCTTG				
62701	AAGGTTATGG	CTGTGGCGTT	CAGCATGTGA	GTCCCCAGCG	TCCTCTAGAA	TTGGGGGATC				
62761	CCTGCAACTT	GCACAGGTGT	GGGGCGGGTG	GGGGCTGGAT	ACCACCAGCC	TGCAATGGGG				
62821	CTGCCCCTG	GGCCTGTGGT	GAAGATGCCC	GCTTGCAGGT	GTGTGGTGAT	TGTGTATGTG				
62881	TGTGTGCGCA	TATGCATATG	TGTGCGTGCA	CGTGTACCTG	TGTGTGCGTG	TGTATGTGTG				
62941	TGCCTGTGTG	CACGTGAGTG	CCTGCCTGTG	TGTGTGCATG	TGTGCCTGTG	TGTGCACGTG				
63001	TGTGCATGTG	TGTGCGTGTG	TGTGCACGTG	CCTGTGTGTG	CCTATGTGGG	TGCCTGTGCC				
63061	TGTGTGCCTG	TGAGTGCGTG	TGTTTGCGTG	TGTGTGCATG	TGTGTGCACG	TGTACCTGTG				
63121	TGTGCCTGTG	TGTGTGCATG	TGTGTGTATA	GGTTGAATTT	CTGGTGAAAG	CTGTGCATCC				
63181	CAGAATTTAT	TGTCCCCATG	ATCTCAGGGC	CACTCGAGTG	TGTAGAAGGC	CCTGGCCCCG				
63241	AGCCCTGGTG	GGGGCTCCAT	CGTGGCACCA	TGGGGCCTCC	GGAGCCTGGG	GGTCTCTCTC				
63301	TCTCAATGCA	CTCGCTTGGT	GGCAAATGGC	TGGGAGCGGT	GTTTCTGTCC	TGGCCGGGGA				
63361	GCGCTTGAAT	GCACTGAGCA	GTGGGGGAGA	TAAGCGTGTG	AGGTGTTGTT	CCTGGAGCAA				
63421	CCTGGTGATA	GGAGCCATGT	CCTGTGGGCC	TGGCTGGAGA	ACAGGGCCTG	AGGACTGGAC				
63481	AAGTGGGTGA	TTGTCCCCTC	TCATGCCCAG	CGCTGGCCCC	GCCCTCTATG	TCCGTCTAAG				
63541	TGGCCTGGCC	CTGAACAGCG	GTCACTCCAG	GCCTGGTGTG	GCTGTGAAGC	GGGAGTCAGG				
63601	TGGGGCCCCG	GGCCCCAGCT	TCCCAGCTGA	ACCGTTAGGG	TGGGCGCTGG	CTCCAGACC				
63661	CGCAGGGCTC	CCTGGACAGG	TGTGAGCAGA	CTTCACTTG	GACTTGAGGC	CTTCAACCTT				
63721	GCAGGTGTCT	CCAGAAGGCT	CTGGAAGTGA	CTCGGGCCTG	GCTCCCCCTCA	CAGGAGGCTG				
63781	AGGCCCTGGG	TCTGCTGGGA	CTTGTGTTCA	CAGAGGCGCT	GGGATGGACC	TGCTGGTGGC				
63841	CCCCTGCCCC	TCGGCCAGCC	CCTTCCCTGC	CCCTCGGCCA	GCCCCCTTCCC	TGCCCTTGG				
63901	CCAGCCCCTT	CCCTGCCCCT	GCCCCGCTGG	GCCCTGTGGT	CAGGTGTGAC	GTCCCCCTGGA				
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64141	GAGCTCAATA	TGGCCAGCCA	GTGCCAGAGT	GCATGCCCGA	GGGGGCGCGT	CACGGCTTCC				
64201	TGTTGATCCG	GATGCCCGAT	GTCTTGGGAG	GCACTGACCC	TGTGCCAGGT	CCTGGGGCCC				
64261	ATTGCTTGGG	GAGGCGGTGG	GAACCTGGAG	ACCCTGGGGA	CAGAGTGGCT	GGATGCAAGG				
64321	TCCCCCAAGG	GGCAGGGGGA	TGGCAGGGAA	GGGGCGTCAG	GCCTGGGGGA	GGTCACCTGC				
64381	CCCACCCTCC	CTCCAAGGCC	CTTGTGTGGC	TGGGTGGGGC	TGGCCCTGGG	TCCTCTCCCT				
64441	CTCCCCCGTC	CCTGAGCGTC	ACTGGTGACC	TCCCCATGGA	CTTGTCCAGC	TTGCCAGTAC				
64501	CCTGCGGTTT	TGCCTCCTGA	GTATGTTGAA	ACGTTCCCTAG	TCCAGCTCTT	GCCTGCAGCC				
64561	ACCCCCATCG	AATCTGGCCT	GCCGTGGCCC	CCGCCCTGCA	GCCCCGAGTG	TGTGGTACCC				
64621	CCTCATTTCT	CCTAGCACCT	CAGAGGAGGC	CCTGCCTGGC	TCTGACACTC	CCTGACCTCT				
64681	GGCCTTATC	CCCTCCCTG	GACAAGCTCT	GCTTCTCCAC	CAGCCCTGCA	GACCCCTCTG				
64741	ACCCCAAGCTG	CTGGGGTCCA	CCCTGCCGGA	GGTAGAAACA	GAGCCAGCTG	CATGCCACAG				
64801	GTGAGGGCCC	TCCCCAAGGC	CTGGGGAGGG	GCAGCGTGAC	CCCGGAAGGG	CAGCTGCAAG				
64861	GGCCGGGCAG	TGCAGCTCAC	CCGGGCGACC	ACCAGCCCAC	CCTCAATGAG	ACCCACACAG				
64921	CCCTGTCCAG	TGATGTTTCA	AGGGCTAGGG	CTCCCCGGGC	ACCCACTGGT	CTGCACTTTC				
64981	AGACTTGACT	GCTTGGTGCC	TGGGCTGGGA	TTTGGGGGCA	CTGCCCTTCC	CCCGTATCCC				
65041	TGGGACCCCC	TTTGGGAGCC	GGACACTCAG	GTGCGCACAG	CCCCACCCC	CAGCCCAGCC				
65101	CCAGCCCTGT	GCTGTCCGCT	GCCCACAGCC	CCTGTGTGG	CCTTGAGTGG	ACTGAAGGTC				
65161	TCGTCTGGCT	GCGGGAGGGG	CCCTGGTAGC	TGCTGGGCCT	GGAGGTGGCT	GGGATGGTGG				
65221	GCTGGCCCGC	CTGTCCGGGG	TGGGTAGAGG	AGTAGCTAGC	AGGAACCACT	GCCTGAGGCT				
65281	GGGCTCAGCC	CAGGCTGGTA	GCCTCATGTT	CCAGAAAGGG	CTGGGGAGCT	CTCCACCTGC				
65341	CCTCCTCCAG	AGAGGGGCCC	TTGTCCTTTT	TGTCTACTTA	TGCCCCGTGC	AGGAAGCAGG				
65401	TCAGGGTAGG	CTGGGGCCCT	CAGGAGCGGG	CACGTTTCAG	CCTGGGGTGG	GGGCAGGATA				
65461	CGGGCTGCCG	GGGCCATTGA	GGCAGCAGCA	CAGGAGGGGT	CCTGGCCAGG	CCACTCCTCC				
65521	CTCCAGGTGG	GAGCTTAGCT	GGGGCGGGAC	CCCCACCTCC	CCGGGTGAGC	ATTGCCGGCC				
65581	GGTAGCCTTG	GGCAGGCACC	CAGGAGAGGC	CCCTGGCCTG	AACTCCTCTC	ACACCTGACT				
65641	CTGGTACCTC	TGAGCCCCAG	GGTAGGTGGC	TGAGTCATCT	CCCCAGCTGG	CACCCCAAAT				
65701	ACCTTCTCCC	CTTTTCCCAT	CCCATGGGAG	GTGGCTGTGT	GCCACAGGTG	AGGGTGCAAG				

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65941 GTCCTGGGGG AGATGTCCAT GCGTTGCCAA CTCCAGGCCT GAACCCAAGG CGCCCTCATC
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66181 GTTATTGGGCG CGCCTTTTGC CCTCAGTGAG CGCAGCTGGA TGGGGAGTTA GCAAGGGCTT
66241 GCTCTCCGAG GGTGGCTGGT GAGGGGCTT TGAGGAGGGT GGGGGGACCC TGGGCTGCCG
66301 ACTCAGACTC TGGAGGCTGC TGGTCAAGTG GGGGTGGAGG TCAAGCTGGA GCTGAGGCTC
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66421 CCTTTGGGGA GCCCGGCAGG GCCCAAAAG CACAAGTCAA ATGGCCTCTG AGGGCAGCTG
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67141 GGCCTGATCT GCTGCCCAGC GGCCGTGAGT GCTGTGTGGC CCGTGGGAGG CCCCGTGCAT
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67321 CCCAGCTGGC ATCAGGGCTG ATCGGGGCTG AGACCGGTCA TCGGAGAGC CCAATGTCCAC
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67441 AGCACAAGCA GGGTGGCCAA GGAGCACCCC CCAGCTTACC CACGGACCTT GGCTCAAGAC
67501 TGGTGGCCAA GGTGCACCCT CGCTGTACTA GGCAGTGGCC TCCAGTCCTG ATGCCACCGA
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67621 GTTTGTAACA ACCCCAACT GGAAATGACC CAGATGTCCA TCAGAGCGCA GCCTGTTTAC
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68161 AAGATTTTTT TCCCAGTCAG GGCTTGTCTT TTTATTCTCT TAATAGTGTC AGAAGATACT
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68521 CGGAGTAGTT GGGACTACAG GTGAGTGCCA CCCCAGCCCG CTAGTTTTTG TATTTTTGGT
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68941 GTGTCTTTTA CTTACAGTGA GATTCTCTGG GCAGCTTATA GAGTGATCTT GCTTTTTATT
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69121 GTTCTTTGTC TTTCTTTTCT GCCTTCTTTT GGATTGACTA TTTTCCACA GTTCAGTTTT
69181 ATCTCCTTGT TTGCTTATCT GCCATAACTT TTTATTATTT TAGTAGTTGT CTTAGAGTTT
69241 ATAGTATGTC TACAACCTAC TGTAAGTCTCC TTTCCAAAGA TATTATCACA TTCCATATAT
69301 AGAAGAAGAA CCTTCCAGGC TGGGCACGGC GGCTTACGCC TGTAATTCCA AACTATGGG
69361 AGGCCAAGGT GGGAGGATCA CCTGAGGTCA GGAGTTCGAG ACCAGCCTGG CCAACGTGGT

69421	GAAACCCCAT	CTCTACTAAA	AATACAAAAA	TTAGCTGGGT	GTGGTGGTGG	GCACCGGTAA
69481	TCCCAGCTAC	TCGGGAGGCC	CAGGCAGGAG	AATTGCTTGA	ACCCGGGAGA	CAGAGGCTGC
69541	AGTGAGACAA	GATCGTGCCA	CTGCATTCCA	GCCTGGGTGA	CAGAACAAGA	CTCCATCTCA
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69721	TAATTATTTT	TTAAAGAGGC	TTAAATAGTA	AAAAAACTTC	TATATTTACC	CATACAATTA
69781	CTATTTCAAA	TGCATTATTC	CATCGTGTAG	ATCCATATTT	CTTTTTTCTT	TTCTTTTTTT
69841	TTTTGAGATG	GAGTCTCGCT	CTGTCACCCA	GGCTGGAGTG	CAGTGGCGTG	ATCTTGCTC
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69961	TGACCTCAGG	CACCCACCAC	AACGCCTGGC	TAATTTTTGT	GTTTTTAGTA	GAGATGGGGT
70021	TTTACCATGT	TGGTCAGGCT	GGTCTTGAAC	TCCTGACCTC	AAGTGATCTG	CCTGCCTCTG
70081	CCTCCCAAAG	TGCTGGGATG	ACAGGCCTGA	GCCACCGAGC	CCGGCCGTGG	AGCCACATTT
70141	CTATCTGATT	TCCTTTTCCA	CCCGCCTGAA	GGGCTTTCTT	TAACATTTCT	TAATGGACAC
70201	TGCAATGGTT	ATTTGTCTGA	AAATATCTTC	CTTTTGCCTT	TGTTTTTGAA	AGATGTTTTT
70261	CTAGGATGAC	AGCTTCTTCT	TCCGTTTGTA	CTGTAAAGGT	GCTGCTCTAG	TTTTCTTACT
70321	GGCACAAGTT	CCCCGCCAA	AAAAATCTGT	TGTTATTTTA	ATATGTTTCC	TCTTTGTAAC
70381	ACGCCCCCAC	CCCACAACCT	AAGATTTTCT	CTTTTACACT	GATTCTGTAT	GATTAGGATT
70441	TGGTGTCAAT	TCCTTCATGT	TTCTTGACT	TTGTACTCAC	TGAGCTTCTT	GTATCTCTGG
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70561	AGGCTGGAGT	GCAATGGCGC	AATCTCGGCT	CGCCGCAACC	TCAAACCTCTG	GGGCTCAAGC
70621	AGTCCTTCCG	CCTCAGCCTC	CCGAGTAGCT	GGGATTACAG	GCGCCTGCTA	CCACACCCAG
70681	CTAATTTTTG	TATTTTTAGT	AGAGATGGGG	TTTCACCATG	TTGGCTGGGC	TGGTTTCAAG
70741	CTCCTGACTT	CAGGTGATCC	ACCTGCTTTG	GCCTCCCAA	TTGCTGGGAT	TACAGGCGTG
70801	AGCCACCGCA	CCCAGCCAAG	TTTTCTCTAG	ATTTGAACAA	ATTATGGCCA	TGATTTCTTC
70861	AATTTTTCTT	GTCCTCCTCT	CCCTTCGTGG	GCTCCGTTTA	CAGACGTGTC	AGGCTGCGCG
70921	AAGCTTTGCC	ACCTACTGCT	CGCTAAGGAG	CTGTTTATTT	TTTGGAATTC	TTTGTCTTTC
70981	TGTGTCTCTA	TTATGTCTTC	AAGTTACCCG	CTGTCTCTCT	CTGCATTTGT	GCATCCGTTG
71041	TTAATCCTGT	CCAGTGTGTT	TCATCTCACA	CATAGTCATT	TTTATCTTTA	GATGTTTAAT
71101	TTGGATCCTT	TTTTATATGT	TTTATGTTTT	TTACTAAATA	CGTTCAATTT	TCAGCATAGC
71161	ATTTTGATGA	CATGGAATAC	TGTCGTAACG	CCTGTTTTAA	TGTCTTTGTC	GGCTAATTCC
71221	AACATCTGTG	TTGGTTTTGT	GGTTTGGATT	AGTTGAATTT	TCTCCTGATT	ATGGGTGGAA
71281	TTATCCCCTT	TCTTTACCTG	CCTGGTACTC	TTTGAATGGA	GGTTGGACTT	CGTGAATTTT
71341	ACCTCGTGGG	CTGCTGGATA	CTTTTGTGTC	CTGGGGCTTT	GTTCTGGGAC	ATAATTAAGG
71401	GATTGGAGAG	AGTTTGGGCC	TCCTGGGCCT	CGTGTGGCTC	GTAGGTGGGC	TCAGAGCAGT
71461	GCTGAGTCCA	GGGCAAACTA	CGCCTCACCA	TTGAGGCAAG	ACCCTGAGGG	GCACTCTGCC
71521	CACCGCACCG	TGAACCTTGA	GTGGCGAGGT	TTCTCGGTGG	TGCTGGCGGG	AGCAGTGCTT
71581	TTCCCAGCCT	CTGTGAGCTC	CGCTGCTCTT	CCTTCCAATC	CTTCGGGTCTG	TTGCTCGCCA
71641	GCCTTAGTCT	CCTCCCAGGC	ACGTGCTGAG	CGGGTTCCCT	GCCAAACGCT	CAAGACGGAC
71701	CTTCTGCAGG	TCTCCAGGCT	TTGCTCTGGG	CAGCTCTCTC	CCTGCCAGTG	TCCTGTGCAC
71761	TCCAGCTGCC	GTGGTCTCCC	CGGCCTCTCA	TCTGAGCTCT	TCCTGAGTTC	TCCTTCTCTG
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71941	CCAAGGTGAC	GATATTAGGA	GGTGGGAGT	TGGGGAGGTG	GCAGAGCCCT	CAAGAATGGG
72001	GTTAGTGTCC	TTACAGGAGA	GATCCCAGAG	CCGGGCGCGG	TGGCTCACGC	CTGTAATCCC
72061	AGCACTTTGG	GAGGCCGAGG	CAGGTGGATC	ACCTGAGTTC	AGGAGTTCTGA	GATGAGCCTG
72121	GCCAGCATGG	AGAAACCCTG	TCTCTACTAA	AAATATGAAA	ATTAGCTGGG	CATGGTGGTG
72181	GGCGCCTGTA	ATCTCGGCTA	CTCGGGAGGC	TGAGGCGGAG	AATCACTCGA	ACCTGGGAAG
72241	TGAGCTTGCA	GTGAACCGAG	ATTGTGCTAC	TGCACTCCAG	CCTGGGTGAC	AGAGTGAGAC
72301	CCTGTCTCGA	AAAAAAAAAA	AAAGAGACCT	CAGAGAGCTC	TCCCACCCCT	TCTACCAGAG
72361	GCGAAGGGGA	CCCAGTGGGA	AGGTGCCGTC	CGTGAACCAG	GGAGTGGCCT	CACCAGACAT
72421	CGAATCTGCC	AGAGTGTGGA	TCTTGAACGT	CCCGTCTCT	GCAGCCGTGG	AGATGCGTGT
72481	CTGTTGCTTT	TATGCCGCTC	AGGCCATGGC	GTTTCCGGAT	AGCAGCCAGG	TTGGAGGGAC
72541	CCGCTGTCTC	TCTGGGACCA	CTCTCTTCGT	CGCCTGATGT	CCACCGTCTT	GACAGATGTT
72601	GTTTCCCAT	TTTCTTGAG	TTTTTTAGTT	GCTAAATCCT	GGCCTCTGCT	ACTCTCTTTG
72661	CTAAAAATGC	TAGTCCTTGA	TGAAATGGAA	TCTTGATACT	TTAATACAGA	GTGGAACATA
72721	GTCATAAAT	AAAACCTGGA	AAAATGTAGA	AGAGTAGCAG	GAAGAGAACA	CACCCACGCC
72781	CCGCGGTCCA	CCCACCCGCA	GTCCCTATCG	CCACCTCCTG	GCTCTGGTTT	CCCTGCTCGT
72841	GGGGCTGGGC	AGCATTGCTG	CAACTCTTGA	TTCGCTTTCC	TGGGGCCACC	ATAACCAAGC
72901	AGCACAAACC	GGGAGATGGC	TCAGAGTCTC	TCTGCGTCCT	GGGAGCCTGA	GATCCAGGAG
72961	TGGGTGGGTT	GGAGAATGGT	TCTCCCTGGG	TCACTCTGGA	GGACCTCTTA	AGGTGGACTT
73021	CTTAAGGGAC	CCCCGGCTCC	CACCTTGCCA	AAGAGCCTCC	GAGCCACACC	TGCTCCCGC

73081	AGGCCTCCAG	TTGGTGCCCA	CATGCAGCCC	CCGCCGTGGG	GTCACCCTGG	GGTAAGGGTC
73141	TCTCCTCCCC	TGCTAACCTT	CTGCTGGGTC	TTGGCATCCC	TGGGATGAAC	CCTCCTGGCC
73201	TGGACCTTGC	CGGCCACAT	CAACCCCCAG	CCCTCTGCTC	CTTGGCCTCA	CCCACAGCCT
73261	GCAGAATGTA	GGTGAGTTTC	CTGATGATAA	TATAATAATA	GCAATGATGA	TGATGATGAT
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73621	TATAGGCAGA	GCTGCGTCAT	GCCCTGTGGC	CCCAGGTCTG	GCTCTGGGGT	TCTGGCTGGG
73681	CGGGGCCTGG	AACCTTCTGG	GAGTCACCAT	TGACTGGCTG	CAGCCACCGG	CTTCCCAGCA
73741	AGGATGTCCT	CTTCTGTAGG	AAAATGGGGA	CGTCGGGAGC	ATTCTCTGGA	CAGCAGGAGA
73801	TGCATGTCGA	CAGGCTGGCC	CTGCCTCTTC	CCACCCCAGA	GTGGTGAGTG	GGGATTCTGG
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73921	GGTCGGCCAC	GGTGTGGACC	CCTCCACTTT	CCTCCAGGCC	TGAGGTGGGG	CCCGGGCGGC
73981	CTGTCAAAGA	AGAGCCCAGC	CCAGACCCTC	CCCAGATCCC	TGGGGGAAGG	AGGCCACCAG
74041	GCACCCTGCC	TTCTGTCTGC	CTGTCAGGGT	GAATCTCAGG	GGACCCTGGT	GCAGGAGGGG
74101	CTGGCTCTGA	GCTGGACAGG	CCTCTGGGGT	TGCCCTGGTG	GCCTTCCCTC	TCTCTGGGTC
74161	AGACGTGCCC	AGGCAGGGAG	GGTCCAGGCC	ATGACAGAGC	CGGGCCAGCT	GGGGACAGGG
74221	CATCCCCCAG	TGCAATCCTT	GTAGCGAACG	GGTCCTAGAG	TGCAGCTGGC	GGGACACTCC
74281	CGCCATCACT	GGATTTACTG	CAGGTGGAGA	CGGGTTCTGT	ACCCACGTAG	ATGAGGAAAC
74341	AGGCACAGAG	AGGGGGCAGC	CTGCCCAAGG	TCACCGGGGA	GGGAGTGGAG	AGGCTGGATG
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74461	CCCATGTGGC	GCCTGAGCCC	ACAGGTGTCA	CCAAAGGTCT	GAGTTGCGGG	GACAAAGGCG
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74581	CGGGGACAGG	CAACCCCTGC	GGTTTCAGGG	GTAGGTGGCC	ACACGTCACT	CCCTGGGAGG
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74701	CTGCAGGGGA	TGTGAGAGGG	CGAGTGGTCG	CTCAGCCACA	CCCACACCCG	TGTGTACAGG
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75301	TGGGCGGGTA	GAGGCCAGGT	CCGGTATGAG	GAGCCCTGGT	TCCCTGAGGT	AGACAGAGCC
75361	AGGCAGACGT	TGAGGAGACA	TGGGGGCTGT	AGCCCTGGCC	CCACTGCCCC	ACTCTCTCTC
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75661	CTGGACCTTG	GGAAGCTGGG	CCCCCGGCC	CCTGGACTCC	CACCCAGACA	CCATCTCAAC
75721	CCAGGTCTGT	CTGCTCTCCC	CGTCACTGCC	CTGGGTTCTC	CACCTCTGGA	CCCGACCCTG
75781	GTCCTGGGGC	AGTGTCCCAG	CTGCTGTGTC	CCAGGCCCCC	CATCCACTGC	CCTTGGCCCA
75841	CCTTCTATGT	GGCCATTAG	AGGGGTGTGG	GGGCTGCAAC	CTGCTTCTGC	TGAACCCCTA
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75961	GGTACCCACG	TACCTAATTC	TGGGCCTTGG	GGCAAGGACT	GCGTATTTAT	CCTGGCCCAG
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76141	CACAGTCCCC	CAGGCCCAAA	ATGTGCCCCC	ATGCTGCCCG	AATGCCAGTG	CGGGGGCTGG
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76261	CATGGCTCCC	TGGCTCCACC	AGCTTCTTGT	GACCCCTGAG	GCTCCCCAGC	TCCTGGCCCC
76321	CCATGGAGAG	TTCCCTCCCC	ATAAGGGGGG	GCCAGACACC	CCCCTGTGCC	CACTCCTTGG
76381	GAGACTGGCA	TTAGATCCTG	GCTGTGGGAC	AGGCTGGGCC	ACTCTGGGGG	TGAGACCAGG
76441	CTTCTCCAC	CTGGGGGACC	CATCCTGGCT	CCGGACTTGG	GCGGGTGACA	GCCTGGGTTT
76501	CCTGTGTCTT	CACCGCCCGC	TTATCAGCAA	GATGGGGATG	TGGATGACAG	GAGTGCTGGC
76561	CACGGAGGGC	CTGGTGTGGG	TGGCCGTCGG	GACGAGGGTA	GTGTGGGCGG	CCACGGCAGT
76621	TGGTGCTACT	GCTGGGAGGG	GCCGAAGGTG	AGGCCCTCCT	GGGCTGTGGG	TCCCTGTAAG
76681	CCACTGCCCC	CGTGGGGTGT	GCAGTCACCA	AGCCGACCTG	CTGCCGGGGT	TCCGCCCCCT

76741 CCCTTTCCCT TCTGCTTCCC CGGCACCTGT GTCCCAAGCC TGAAGCCCTG TCCGTGTCAG
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76861 TTTGCTGTGG TCAGGGCCTC CTCCCTGCAC TGGCCCCGCC TGTGACCGCA GGCCTGGCGG
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77161 CACTCCCCGC CCTCTCCTCC CCTCCTTCTT GCAGTTCCCA CAGCTGTTTG GGTGCCTCCC
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77341 GGGGGTCTTG CCGCCTTCCG GTCCTCTGCA TGCCAGGCAC CACCTGGGGC CGGGCCAGGG
77401 CAGGCTGCCT GGACACCATG GACCTGCCCA GCTGTAGGGG AGGTGTGTCC TGCAGCCCTA
77461 CCCGAGGCCC AGGCCTGCGT GGCTGAGAGG ACTGAGGACG GCTGACCCCC TTGGTGACTG
77521 CCTGGGCCCA GAGGGGAGTT GGGGGAGTGG TCAGCTGGGT GTGGCCAGCC CTGGGGGAAG
77581 GATCCAGGGA CTGTGTCCAC TTAGGGATAG GAGGCAGCTA GCAGAGCCCT CCCAGCTGAC
77641 CAGGGGAGGC CCTGTGGGCA CAGGAGGGGC CCCAGGTGTA GGTACAGGTG CAGGGCTGTG
77701 CGGCTCTGTG TCACCCAGGT GGAGCGTCTT GCCCGTTTG ATGGCTGACA AAGTGCCCTT
77761 GAATGCGTCA GACCCAGCGT GGTCCCAGGG TCCTGACCCT AACATACCAC CCCAAATTAC
77821 CCTCACCCCA GCCTACCCCT GCCCTAAATT CACCCCAAGC CTCCACCCAA ACCCCTTAGT
77881 CCCAACACCT TAACCCTAGA CCCAACCCCTA CACCCCAAGC CCTAATCCCT AACCGCTAGC
77941 CTCACCCTAA CCTTCTACC GGATGCCACC TGGCAAACAT CCTCCTGGCC CCTATCTGCC
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78241 AGCAGGAGAA GCTGCCATT TCCTCCATCT CCGGTAATGA GAAGCAATG CTGACTCTGG
78301 CCGTCTCCTG GCTCTTGGGT CCTTAGTTTC CTGCTGCCCC TGCCAGTTCC TGAAGATGCG
78361 CAGCAGGAGG GAGGGCAGTG GAGCTGGACT TGCGCCACA ACAGGATCTG GCCATAAACG
78421 CAGTCAGGGC GAGGCTGCGG GGTGGGTGGC TGAGCCTCCT GGTGGACTAT CTCCCCCTCC
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78541 CTTGAAGGA GCTGGTGCGT TGCCTGCGAG CTCCTCTGCA GGCTTGGGGG TCGCACCTGC
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78661 CGGGGACCAG GCAGGGAAAC TGAGGTCCCA AAAAGGCAGG GAACAGGTGC AGGGGGCCTG
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78781 CAGAGGAAGT TGATAGTCAG GAAAGGCAGG AGTGGCCTCT TCTAACAATT TCAGCTCTGA
78841 AGGGGCCAAG GGTGGCGATG CTGACAGCAT TTCCTCCAGC TCCCACCTGC CTGCTCCGGG
78901 GAACTCCCTA CCCAGGCATT GATATTACCC TGGTGATACT AATAATTGTC TCAGGTGATA
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79021 CAGGGAAGAC CATGGGCCCT AAACGATCTT CATAACAAAA CTGAGAAGTG GCCTGGCTTC
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79141 CCTGACGCTG CTCCAGGGGA AAGAAGGACC AGGGTCAATC CGGGGTGCCC CAGGTGGATC
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79861 GCCAGGCAGG CCCAGGGGC CCAAGAGGAA GGTGGGATGT GGGGGGATGG GGGCTCTGCA
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79981 GCCATTCCCC AGGGACGGGT CCTCGCCTGC CTCGCCGGCC CTCCACAGAC AGGACAGGGA
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80161 TGCTTCCAC AGCAGGACTC ATCCCATGCT CAGGCAGTGC TCCAGGAGC AGCGGGTTAA
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80281 GACGGGCGCA ACCCGCAGA ACAGACCAGG TGCTCGCCAT CCATGTCCGG TGCCGCTTCT
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80401	AGCCGCCTGC	CCACACAGCC	ACCGTTCACT	CTAGCTTGAA	GGTCCCGCTT	CCTCAGGGAG
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80521	AGGGGCCTCT	CTTCCCCTG	AATCGACAGA	GAGAATGTGA	GCTTGCTGTC	CGGCGGGCGG
80581	GGCCGGGGAT	CCTGTCCGTC	GAGGGGACAC	CGGATTGCTG	CGGAGAGAGG	ACTAGACCCA
80641	GAGTCCAGCC	AAGACCAGAA	CTGAGACCAG	GCGACCAGCA	GAGCCTGCAC	AATAATAATG
80701	CTTCGTTTTG	CAAATGTATT	TTGTTCTTTT	ATTGTATATA	TTTATCATGT	CCAATGTGAT
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80821	ACTTCCCATT	TTTTTGTGGT	AAGAACACTC	AAATTCTACT	CGCAATGATT	TTCTTTCTTT
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80941	GCTGTGCAGT	ACATCTCTTG	AATTTATTCC	TTTTGTCTAA	CGGAACCTTT	TTTTTCTTTT
81001	TGAGATGGAG	TTTGCTCTGT	CGCCAGGCTG	GAGTGCAGTG	GCACGATCTC	GGCTTACTGT
81061	AACCTCTATC	TCCCAGGTTC	AAGCAACTCT	CATGCCTCAG	CCTCTGGAGT	AGCTGGGATT
81121	ACAGGCACCC	GCCACCACGC	CCAGCTAATT	TTTTTGTTTG	TTTGTTTTTT	GAACCGGAGT
81181	CTCACTCTGT	TGCCAGGCTG	GAGTGCCGTG	GTGCCATCTT	GGCTCACTGC	AACCTCCGCC
81241	TCCTGGGTTC	AAGCGATTCT	CCTGCCTCAG	CCTTCTGAGT	AGCTGGGATT	ACAGGCGCCT
81301	GCCACCATGC	CTAGCTAATT	TTTGTATTTT	TAGTAGAGAT	GGGGTTTCAC	CATGTTGGCC
81361	AGGATGATCT	TGATCTCCTG	ACCTCATGAT	CTGACCGCCT	CAGCATCCCA	AAGTGCTGGG
81421	ATTACAGGCA	TGAGCCACCG	CGCCTGGCCT	AATTTTTGTA	TTTTCAGTAG	AGACGGGGGT
81481	CTCATCATGT	TGGCCAGGCT	GGTCTCGAAC	TCCTAACCTC	AGGTGATCTG	CCTGCCCTCTG
81541	CCTCCCAAAG	TGCTGGGATT	ACAGGCATGA	GCCACTGTGC	ACGGTCTGTA	ACAGAACTT
81601	TGTA CTCTTG	GACCAACCCC	TCCCCAGTTC	CCAGCCCCTA	TGTCCCTGGG	TCCTCTCTCT
81661	GCTTCTGTGA	GTTCAACTTT	TCTAGGCTCC	ACTTATGTGT	GAGATCATGC	AGTGCTGTGC
81721	TTTCTGGGCC	TGGCTTCCTT	CATTCAAGCAT	GAAGTCCTGC	AGTTCATCCA	TGTCGGCACC
81781	AATGACACAA	TTCCCTCTTC	TGTGGAGGAA	CAGTTCTCTG	ACGTGGATGC	ACCTTCCTTG
81841	GCTGCTGGAC	GCTGAGGCTG	GTTCCATGTC	TGGCCGTAGT	GGACAGCGCT	GCGGCGAACA
81901	TGGGTGCGG	GTGTCTCTTC	TGCGTACTGA	TGTGGCCTCC	CGGTGTCACG	CCCGGAGTG
81961	GGACAGCTGG	ATTACGTGGT	GGTCTGTGTT	TCAGTTTTTT	GGGAATCTCC	ATGCTGTTTT
82021	CCATAACGGC	CATCATCACA	GACTTCTTAT	CATGAAATCA	TTTTAGACTC	GTAGAATCCT
82081	GGTAAAAATA	GTATAGAGAA	TGGTGATCTG	TCATCTCTGG	GCAGGGCAAA	GGGAGCTGGG
82141	GCGACCAGGC	AGGAGGGAGG	TTTGCTTTCA	TGATCTGTTC	TTTACCTATT	CAAAAAAAT
82201	TAAATAAAG	GCCAAGGCAG	ATGGATCACT	TGAGGCCAGG	AGTTTGAGAC	CAGCCTGGCC
82261	AGCGTGGTGA	AACCCCATGT	CTACTAAAAA	TACAAAAATT	AGCCGGGTGT	GGTGGGGCAC
82321	ACCTGCAATC	CCAGCTACTC	GCGAGGCTGA	GGCAGGAGAA	TTGCTTGAAC	CTGGGAGGCG
82381	GAGGTTGCAG	TGAGCCGAGA	TCGCGCCACT	GCACTCCATC	CAGCCTGGGT	GAAAGAGTGA
82441	GACTCTATTG	CAAAAAAAAA	AAAGAAAAGA	AAAAGAAAAA	GAAAAGAAAA	ACCAGAAAAA
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82561	AAAAAAAAAAG	GCTGGGCACG	GTGGCTCATG	CCTGTAATTC	CAGCACTTTG	GGAGGCTGAG
82621	GCGGGTGGAT	CATGAGGTCA	GGAGATCGAG	ACCATCCTGG	CTAACACGGT	GAAACCCTGT
82681	CTCTACTAAA	AATACAAAAA	CTTAGCCGGG	CGTGGTGGCG	GATGCCTGTA	GTCCAGCTA
82741	CTCAGGAGGC	TGAGGCAGGA	GAATGGTATG	AACCCATGAG	GCGGAGCTTG	CAGTGAGCCG
82801	AGATTGCGCC	ACTGCAGTCC	AGCTTGGGTC	GCAGAGACAA	ACAAACAAAC	AAACAAAAAA
82861	ACCCAGAAAA	AAACCACAAA	AAAACCCCA	TTAAATAAT	TTAAATTTT	AAAATAATGT
82921	TTAGTAAAT	AATGTTTAAT	AAAAAATAAT	GTTTAATGTT	TAATGTGAGA	AATGCTTATA
82981	TGTAAAAAA	TAAGGAAAAA	AGATAATTTA	AAAAAGAGTG	AGAAGAAAAA	AGAGTCAGAT
83041	ATTTATCTGA	TCTTTAGAGA	AGAGCACTTT	TCTAAGCATA	CAAAACAAAGG	AAGAAATAAT
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83161	TGATCCTCAC	TGACGGGGTC	CCAGGTGCTG	ACTCGAGTCC	AGCAAGCCCC	AGAGCCAGAG
83221	GCTGAGTGCA	AACCACGGAG	GTGACCTCCA	TGGCAAGAGC	GGTGTGGCGT	GTCCGTCCCC
83281	CACAGACAGA	AATGCGGTCC	AGGGGTGTGG	GAGGACCATG	AAGGGGTCAC	GCTGAACGTG
83341	CTGCAGGTGC	CCACCAAGCA	GACAGTCTGC	CTTTCGAGGT	GTGGTTTCAGG	GAGTTAGCAG
83401	GGCGCTAACC	GCTGGCTGCT	TCGTTGGGTG	CAACATAGAC	AGAAAAGGGG	TCACATTAAA
83461	CTGGAAAGGC	CAGACCTGGC	TTGGTTTACT	GTGGAGGAAG	GGATGCAAAG	GCCTAGGGAG
83521	ATTGGAAGGC	TAGGGTAGGT	TTGTCACTTA	AGACCTCCTC	ACCCACCAGA	AGGTCCAGAA
83581	GACAGACCTT	TCCCCACACT	GGGAAGTAGA	TTAGTGAGTG	GGGTAGAAAT	AGGGACAGAT
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83701	TGGAAGAGAG	TCGCAATGGG	AAGAATCGAC	CCGGGACAGC	CGAGCGGTGG	CTTTCAGCCG
83761	TCAGAGGCGA	GGGGGACCTG	GGACTGCCAG	GAGGTGGCTC	TCAGCCGTCA	GAGGCGAGGG
83821	GGACCTGGGA	CTGCCAGGAG	GTGGCTCTCA	GCCGTACAGAG	GCAAGGGGGA	TGCGGGCGCC
83881	ATCATGAGTA	GCAGAGGCAG	AACGACAGTC	AAGCTGGGCT	GACCCCTTAG	CCACAGCTCT
83941	CCTAGGAGGA	AAACAGAAAG	CCTGGGAAGA	TGGTACTGGA	TCTGCGGGAG	GCCAAGGTCTG
84001	GGGTGTCACC	TGAGACCAGG	AGTTCAAGAC	CAGTCTGGGC	AATATCGTGA	GAACCCCATC

84061	TCTAAAACT	AAAAAATTAG	CTGGGCTTGG	TGGTGCACAC	CTGTGGTCCC	AGCTACTCAG
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84181	GCATCACTGC	ACTCCTGCCT	GGGCAACAGA	GCGAGACCC	GCCTCAAAAT	CAATCAATCA
84241	ATCAATAATC	ATGTTCTCAG	CAAATATTTA	ACTTCCCCGA	TATATTGTGG	GGGAAAAGAG
84301	GCTGTAAAC	AATCTGTGGT	AATAACCAGG	AGAACTTAGG	AGCACCCGTG	GGTGCCCATG
84361	CGGGCAGAGA	TTCACGAACA	CTGTTCACCC	CCATAACCAG	CAAGGGTGCT	GCTATCCAGA
84421	ACCCATCGCA	GATGAGCAAC	TGTGCCTGCC	CAGGCCAGGC	CACGGCACCC	AGCAGCCGGG
84481	ACCCCTCCCC	ACCTGAAACG	ATACTGCCAC	CTGGGGACCC	CAGGCCGCTG	ACATGGGGAC
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84781	ACAGTTTTGT	GTTTTCTGAT	TTCTGTAACG	AGTGCCACAG	CTCTGTATGG	AAAAACAGCAC
84841	TGCCTTTGGC	GTCCCTCCCA	ATTCTGGCA	CATGAGTCAA	GGGCTCCCAT	AGCGTCACCG
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85141	CCCCAGAGTC	TATGCACTGC	TGTGCCCAGC	TAATTTTTTA	ACATTTCTGC	AGAGACAAGG
85201	TCTCCCTAGA	TTGCCCAGGC	TGGTCTCGAA	CTCCTGGCCT	CAAGCGGTTT	TCCCAATGTG
85261	GCCTCTCCAA	ATGCTGGGAT	TATAGGTGTG	AGCCAGTGGG	CCCGGCCACG	TGCTCTTATG
85321	TAGCTTATCA	GAGTGTATGA	CGCTGCCTGT	CCCATTGCTG	GGGATGTTAA	CCTTGAACCC
85381	TTGGTTCAGG	TGGCGTCTGC	CAGGTCTCTG	CACTGCAAAG	TTACTATTTT	GCGACTTTGT
85441	AATTAATAAA	TATCTTAGGG	AAGATACTTT	GAATTCATGT	AAATAACTTG	TTTCTCTTCT
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85561	ATGGTGAAT	TCTATTTACT	TCATTTCTTC	TGCATTAAGT	AACTGGAAT	CTATTAATAA
85621	AAGCTGTTTC	TTCTTATTTG	TTTGTGCAGT	TATTTACTTC	ACTATGGGTT	TGTAGATACT
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86401	GTGCTCCTGG	GTTCTGGCAG	CCCAACCTCT	TTCATTTGTT	CCCCAGCCC	TGGGAGTGGA
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86521	CAGCACCTGT	GTAACCAAGT	CTCTGTATTA	ACTTCCTTCT	GTTTGAAATA	ACGAGTGTGG
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87001	TGTTAGGAAC	AAGACAGGTG	ACGCCACTGT	GGATTCTACA	CATATTACAA	AGATAATAGG
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87241	GCCCAGATGG	TTTCACTGGT	GAATTCTACC	AAAGATTTAA	GAAAGAAGTA	TGTCAACTCT
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87361	CCAGTATTAC	CCCGATTTCA	AAACCACATA	AAAACATTAT	AAGAAGACTA	TGAACCTTTC
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87601	TAAACACACG	GTATACTATT	TCCTGCTATT	CTTTGTCCTA	TGTTTCTGG	TTATTTTGAT
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88921	AGGCATGAGC	CACCACGCCT	GACCACATCC	TCCCGTATAC	TTTAAATCAT	CTTTATATCA
88981	TGTTAAAATT	TCTATTAGGG	GCCAGGGTCA	GTGGCTTACG	CCTGTAATCC	CAGCACTTTG
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89101	GCAAACCCCT	GTCTTTATTA	AAAATACAAA	AAAAATTTAG	CCAGGCATGG	TGGTGTGTGC
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89281	GTCAACACAG	CAAAACCCCTG	TCTCTACTAA	AAATACAAAA	AGTAGCTGGG	TGTGGTGGTG
89341	GGCGCCTGTA	ATCCCAGCTA	CTTGGGAGGC	TGAGGCAGGA	GAATCACTTG	AACCTGGGAG
89401	GTGGAGGTTG	CAGTGAGCCA	AGATTGTACC	ATTGCACTCC	AGCCTGGGTG	ATAAAGCAAG
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89521	ATGTTACACG	CAGTTGAAGC	CACCCAAGTG	CCCCTTGACA	GATGAAGGGA	TAAACAGAAT
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89701	CAACACGGTA	TCATTCCACT	TATTTGAGGT	ATCTCAAGTT	GTCAGATTCA	TAGCAACAGA
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90121	CATTGGGAGG	GAAATTAGAG	ACCTGCAGAA	ACAGGTATGT	ACACCTTGTC	CATGGGCTGG
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90601	CTCTACACCC	TGGGCTCAAG	TGATCCTCCC	ATCTCAGCCT	CCCCAGTAGC	CATATAGGCA
90661	CATGCCACCC	CACCTGGCTA	ATTGAATTTT	CAACAAAGGA	GCAGAAGTAC	TGCAATGAAG
90721	AAAGAATAGT	CTTGTCACAA	AATGGGGCTA	GAACAATTGG	ATATCCATAC	ATAATAAGAC
90781	AAACTTCAAG	CCATACCTCA	TACTACATAT	AAAAAATTAA	CTCAAAATGC	ATCATGGAAA
90841	ACCCCAAAC	ATAAAATTTT	TAAAAGAAAA	CATAGGGGAA	AATATTTGTG	TGATCTTGGG
90901	TTAGGCCAAAG	ATTTCTTACA	TGTAATACCA	AAGGCCAAAT	TTATAAAAAA	GTAAATTGAT
90961	CAATTGGATT	TTATCAAAAT	TTTGAAACTC	CTACTTTAAA	AAACACTATT	GAGAGAATGA
91021	AAAGACAAGC	CACAGACTGG	GAGAAATATA	TCTACAAAGG	ATCTCTCCAA	TAAAGGACTC
91081	GTATCTAGAA	TACATAAATA	ATGTTTAGAT	CTTAAAAAGA	AACCCACCCC	AATAACCCAA
91141	TAAATAATGG	GCAAAAGATT	TGAGTAGGCG	TTTCACTAAA	GAAGACATAT	GGGGCTTATA
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91261	CACACAAGGA	TGTGAGGAGA	AAGTGCTTTG	ACAGGAATTG	CTATACTAGT	CACAAGTACA
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91381	AAAAGCAAAA	CTATATAATA	GGGGTTTTTA	AAATAATTTT	TTTTTTGAGA	CAGTCTCACT
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91501	GGTTCCACTG	ATTCTCCTGC	CTCAGCCTCC	CAAGTAGCTG	GGATTACAGG	TGCGCCACCA
91561	CGCCTGGCTA	ATTTTTGTAT	TTTTAGTAGG	GATGGGGTTT	CATCATGTTG	GCCAGGTTCA
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91681	AGGTATAAGC	CACTGTGCCT	GGTCTAAAT	AAAGTTTTTT	AAAAAGTGAA	AAAAAGAAGA
91741	CATATGGATG	GCAGATAAGT	GTATAAAAAA	ATTCTTAACA	TCATTAGTCA	TTAGTGAAAT
91801	ACAATTTCAA	GTAATAATGA	GACAACATCA	CACACTTACT	GGAGCGGCTA	AAATTAAAAA
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91921	TGGGAATGTA	GAAAGGTACA	ACCACTTTGG	AAAGCAGTTT	AGCGATTTCT	CAAAAAGTTG
91981	AACATAGACC	TACCTGTCTG	ATCCAGATAC	TCCACTCCTA	GGTATTTACC	TGGCAGAAAA
92041	GAAAGTGTAT	GTCCACACTA	AGATTACACA	AATGTTTCGAA	GCAGTTTTGT	TCGTAGTGGC
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92161	GAGCTATTTA	CACAGCAATG	CTGGATGCAA	TCTCAACATA	ATTATGCTTA	GTGAAAGAGA
92221	CCGAAGAATG	CATACTGTAT	AGTTCCATTT	ACACAGAATC	CTAGAAAATG	CAAAACAAATC
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92581	CTTGTTGCCA	CATAAAATCC	TAGTCATAAT	TTATAGTGGA	TGCATGTTAT	TCTAGAGTTG
92641	TTTGGCTCTT	AGAGATTTAA	AATTAATCAG	AGAAATATAT	TAGAGCCCAA	ACTATAGTGA
92701	CAGTAAAAAA	TGACCAAGTG	TTGCCAGGGA	TTTGTGGGGA	AGGATGGAAT	AGCTGAGACA
92761	CAGGGCATGT	GTTAGGGTGG	TACAACCATT	TTGCATGCTA	CTATCCTGGT	GGATATTTGA
92821	CACTCTACAT	TTGCAAAACC	CAGAAAACCT	AATAGTGCAA	AGAGTGAACC	TTGATGTACA
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92941	AACAATCCAA	CTGTATTTCA	AATGCATGAA	ATAAACTCAC	AGAAGGGGGC	GGGGGTGGAG
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93061	CCTGCCCTGG	GGCTACGACA	CCACCCAGGA	ACCCCTGATC	TTTCTGTTAC	TTATGACTGG
93121	GGTTTCTCCA	AAAAGCAACA	GTCTCCTTTG	CAAAAAGTGG	CCACACCATT	ATCAAGCGGT
93181	GGACAGTGTA	AGTTTGGGGC	TGGGAAGATT	CTCTGGGACC	ACATTGCAGC	TCTGCCATTC
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93361	ATAGAGCAGT	TGGCCTGTAC	TTGCTCATCA	TGAGCTCTTG	TGAGGTGGAG	CCCTGTGGAG
93421	CTGCCACAGA	AGGTGAACCTC	CAGTACCAGG	GAGATTTTCAT	TTGTCCATCC	TTTTACCCAC
93481	CCACCCACCG	ATTAATCCAT	CATCCACCCA	CCCACCCACC	CATCCACCCA	CCCACTCATC
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94321	CATCTATCCA	TCCATCCATC	CATCCACCTG	CTGACCCATT	CATTCCCCCT	CCCTTCCTCC
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103381	ACTGAGGGCA	CCGGGAGCTG	GGGGGACACT	CACCACGCCG	GGCACCGGGA	GCTGGGGGGA
103441	CACTCACCGT	GGGCTGAGAG	CCCTTCTCGG	TGCACTTCGG	GGTGGAGCGG	CTGCTGTGCC
103501	CCAGCCTCAC	CCTCACTGCG	TGGCCTCTGC	GGTTCCAGCC	AAGACCTGCC	CCGGGAACCT
103561	GGTGTACCTG	GAGAGCGGCT	CGCCCTGCAT	GGACACCTGC	TCACACCTGG	AGGTGAGCAG
103621	CCTGTGCGAG	GAGCACCAGA	TGGACGGCTG	TTTCTGCCCA	GAAGGTGCGT	GTGGAGGATG
103681	GCCCCGCCCC	GGCACTGCCC	ACCAGATGAG	AGGCAGCCCT	GGCCTGGGGT	TCTCGCCTGC
103741	GCTGAGGGGA	CGGCTCCGCT	GGGTGGTGGG	GGCAGCGGCG	GCACAGAAAGT	GCCTCTCCCT
103801	CCACCCGATA	CCGGGGGAGA	AGGGCCCTCG	GTGTGAGGCC	CTTCCCAAAG	GGTGGCTTCA
103861	GGGAGGCCGG	GAAGGGGGCT	GCCTTCTTGG	TTATCACCCCT	GGGGACAGAC	CTCCTCCTGC
103921	CCGGCCCCTG	GCCTGGTGCC	TGAGGCTTTT	GGGAGCAGCT	CGATTGTGAG	CGATTGCTAAG
103981	GTGGCCTGGA	GGCTGGACCC	CCATGGCCAG	ACCCCAACCC	AGGGACCAGG	TGGGGACCGC
104041	AGGCGTCAGC	ACAGGGGACC	AGTGGTGCTT	GCGGGTGGA	GGCCTGGCTG	GCAGCCCCCTC
104101	GGTGGGGATT	CTGGCTCTTT	CTGAGCCAGC	CGGGGTGACA	TCGCTCCCT	GGCTGTCCCA
104161	GGCACCCTAT	ATGACGACAT	CGGGGACAGT	GGCTGCGTTC	CTGTGAGCCA	GTGCCACTGC
104221	AGGCTGCACG	GACACCTGTA	CACACCGGGC	CAGGAGATCA	CCAATGACTG	CGAGCAGTGG
104281	TGAGTCCCGG	GGCCAGGGCT	GGGCACAGCA	GAGGCTGGGG	CGGCTGAGCC	CTGACCCTGT
104341	GCCCCGCTGC	CCAACAGTGT	CTGTAACGCT	GGCCGCTGGG	TGTGCAAAGA	CCTGCCCTGC
104401	CCCGGCACCT	GTGCCCTGGA	AGGCGGCTCC	CACATCACCA	CCTTCGATGG	GAAGACGTAC
104461	ACCTTCCACG	GGGACTGCTA	CTATGTCCTG	GCCAAGGTAG	GCTGCCCCAGG	GTCTGGGGCA
104521	TGGGGCAGAG	CTGGGGCTGG	CATCCAGGCC	CTTGCTGTGC	CCGGGGTGGG	TGGGCTGGCT
104581	GTCCCTGAAG	CAGAGGGTGC	CTGTGGGCTG	TCCTGGGGCA	GGTGACCATG	CTTCTGCTCT
104641	CTGGCTGGAG	AATAAGAAGC	AGGCCTTCCT	TTCTAAGCCA	CTGCCGGGTC	CTAGGGTGCA
104701	GGGTGCTGCC	CGTCCCGGCC	CTCAGCAGCT	GCACTGCCTC	TTGCCCCATC	ACAGGGTGAC
104761	CACAACGATT	CCTACGCTCT	CCTGGGCGAG	CTGGCCCCCT	GTGGCTCCAC	AGACAAGCAG
104821	ACCTGCCTGA	AGACGGTGGT	GCTGCTGGCT	GACAAGAAGA	AGAATGTGAG	TGGTCTTGCC
104881	CCCTCCTTCT	GGAGCCCCAG	GTCCCCCGAG	GGGGGCCCTT	CTCAGCCCTG	AGCAACCTCG
104941	GCCTTCCCTG	CAGGTGGTGG	TCTTCAAGTC	CGATGGCAGT	GTAAGCTGCTCA	ACGAGCTGCA
105001	GGTGAACCTG	CCCCACGTGA	CCGGTGAGTT	GTGCCCCAGG	GAGGGGGCCG	GGCCCTTCGA
105061	GCTCCACTGG	GCCTGCAGTG	ATTGCGACAG	TCCAGCCACC	TCGGACCCAG	GAGGCTGGGT
105121	GGGAAGGTTT	CACGGGGGGA	GGGTCCCTGC	GGCACCCAGC	AGGCTCCGTC	CTGGGTCCCTC
105181	TGCTGGAGGG	GGTGGTGGGA	GGGTGACACC	CTCCCGCTGC	TCACCTGGGC	CAGGCAGGTC
105241	CCGGGAGCCC	CGCCCTCGC	CATGCCCTTT	ACTGTGTCCC	TCATCGTGCC	CCTGCCACCA
105301	GCGAGCTTCT	CTGTCTTCCG	CCCGTCTTCC	TACCACATCA	TGGTGAGCAT	GGCCATTGGC
105361	GTCCGGCTGC	AGGTGCAGCT	GGCCCCAGTC	ATGCAACTCT	TTGTGACACT	GGACCAGGCC
105421	TCCAGGGGGC	AGGTGCAGGG	TAAGTGGCCC	CACCGGGGTT	GCCCCAACAA	AGGCCACAG
105481	GGGGGCTGCT	TAGCCCCAGA	CTCTTCCCAA	CCCTGTCTCTG	GCCCCCTCAGG	CCTCTGCGGG
105541	AACTTCAACG	GCCTGGAAGG	TGACGACTTC	AAGACGGCCA	GCGGGCTGGT	GGAGGCCACG
105601	GGGGCCGGCT	TTGCCAACAC	CTGGAAGGCA	CAGTCAAGCT	GCCATGACAA	GCTGGACTGG
105661	TTGGACGATC	CCTGCTCCCT	GAACATCGAG	AGCGGTGAGG	CTCGGCAACA	CGGGCGCCCC
105721	CACCTAGCGT	GCCTAGGGTA	CCCGGCCCAT	GGCCTGGAAG	GGCAGACGGG	GCTCCCAGCA
105781	GGAAGCATGG	GTGGTGAGGG	GCAGAAAGTGA	GGTGGCTCTC	CTCCAGGGGG	AGCCCGGGCC
105841	CTGCTGCTTC	CTGCTGTGGC	TAGTTTATGG	CGGCCATGGT	GGCAGCCTGC	CAGGTGACCT
105901	GGAAGAGGGC	CTGGGCTGGT	CCCTACCTGC	CCCGTCATGT	CCAGGATGCT	GGGCCCTTGG
105961	GGGTGAGAGA	CGGGAGGTGG	TGGGTGCCCT	GCAGGGGTTT	CTATCTAGCC	AGGAGCTGCC

106021	TGGAAATTTG	ACTCACGGGG	AGGAAGGGGC	CTGGGCATCG	GTGCACAGAG	GGAACCATAT
106081	CTGGGGCCTA	GGCAGCCAGG	CAGCAGGGCC	CAGGGGATCT	CACGGGGGTC	CCGGGCCCCG
106141	CTGAAGTTCC	GATCCCCCAC	TCCCCAGCCA	ACTACGCCGA	GCACTGGTGC	TCCCTCCTGA
106201	AGAAGACAGA	GACCCCCTTT	GGCAGGTGCC	ACTCGGCTGT	GGACCCTGCT	GAGTATTACA
106261	AGGTGGGTGG	GACCCACACC	CCCAGGCCCC	CATGCCATCG	AGGTGGACTC	AGGGCACCCC
106321	CAGCCCCCCA	TGCCACCCGT	GAGGTGGACT	CAGAGCACCC	GGTTGGGCCC	ACTGGTTGCT
106381	GTGTGTGCGT	GTGAGCTTGC	ATCTGTGAGC	GCCGGGCCAC	ACTCTGCCTC	CCTGCCTCAC
106441	TGCCCCGTCCA	CCTTGCTCTG	TCGCCCAGAG	GTGCAAATAT	GACACGTGTA	ACTGTCAGAA
106501	CAATGAGGAC	TGCCTGTGCG	CCGCCCTGTC	CTCCTACGCG	CGCGCCTGCA	CCGCCAAGGG
106561	CGTCATGCTG	TGGGGCTGGC	GGGAGCATGT	CTGCAGTGAG	TGCCGTCCCC	GTGGGCTGCA
106621	TCCTGGGGAT	GGGGTCCGGG	CTTTGAGCTC	CTGGGACGGG	GCTGGGGGCC	CTGAGCACGG
106681	GTGGTCCAGG	GAGAGGGGTC	GGCCCCCTGC	AGCCACGGAC	CAGGCTCCAG	CTTCGTCAGC
106741	CGGTGGTAGC	AGGAAACCAG	CAACTCCTAT	AGCAAGGGGC	GGCCACGTAG	CAGGGGCAGA
106801	ACCTGGGGTG	GGCCTGGAGC	TGTGGCGGCC	GAGTGTGGGA	GTGGGTCCCA	GAGTGTGCAC
106861	TCCCTGGCCC	CCTGGCCACC	CTGGGGATGG	GAGCTGGGCG	TCTGGCTCTT	CCCGTCCCTC
106921	ACACCACCCC	GTGGTCCTCT	GCAGACAAGG	ATGTGGGCTC	CTGCCCCAAC	TCGCAGGTCT
106981	TCCTGTACAA	CCTGACCACC	TGCCAGCAGA	CCTGCCGCTC	CCTCTCCGAG	GCCGACAGCC
107041	ACTGTCTCGA	GGGCTTTGCG	CCTGTGGACG	GCTGCGGCTG	CCCTGACCAC	ACCTTCCTGG
107101	ACGAGAAGGG	CCGCTGCGTA	CCCCTGGCCA	AGTGCTCCTG	TTACCACCGC	GGTCTCTACC
107161	TGGAGGCGGG	GGATGTGGTC	GTCAGGCAGG	AAGAACGATG	GTGGGTACCT	GCTCGGGGGT
107221	CAGGTGTGGC	GTGGGGGCGG	GGGAGCTCCT	TCTGAACCTG	CCCCAAGCGG	AGACCTGGGA
107281	GTCTCTACCT	GGGGAAGCTG	AGACACCCAA	GGCTGAGGGG	TGCCTGGGGT	GGGGGGCGCT
107341	GAGAGGCATC	AGGCTCACAT	CTGCGGGGAA	GCTGCGGGCT	GTCTGTGGCC	GTCCTGCATG
107401	GGCCCCGCTC	ATCCCTGGCC	TTTTCCACAG	TGTGTGCCGG	GATGGGCGGC	TGCACTGTAG
107461	GCAGATCCGG	CTGATCGGCC	AGAGTAAGTG	GCACTGCCCC	GGCCACCCCT	CCCCAGCCAC
107521	CCCTCCCTGC	CTGCCCTGGC	CACCCCTCCC	GGCCACCCCT	CCCAGGCTG	CCTGAGACCC
107581	CCAGCTTCAG	CTGGAGCTGA	GGTGCCCCCT	CCGTCCACAC	GGCTGCACGG	CCCCAAGAT
107641	CCACATGGAC	TGCAGCAACC	TGACTGCACT	GGCCACCTCG	AAGCCCCGAG	CCCTCAGCTG
107701	CCAGACGCTG	GCCGCCGGCT	ATGTGCGTGT	TGGGGGCGCT	GCTGTGGGCG	GGCAGGGATT
107761	CCTGGCTGGC	TGAGCCTGGC	TCTTGTGCTG	TGCCCCGCT	AGGGTCTGGG	TGCCGAGTCC
107821	TGAGGACGCA	GGCCCTGTTG	ATGCTGTCCC	TGGCCCTGGG	AGGGAAGTGG	CAGCCTGTGA
107881	GCCACCGGGG	CACAGGGGCC	AGTGTAGGGC	CCTTGGCCGG	CAGCCCTCAC	CAGTCTCACT
107941	GCCCTGTGGC	GGGCCCAAGG	GGAGGGAAGC	CTGAGCCCAG	GCCAGGGGGA	GTGGTGGGAG
108001	GTCTGGGACA	TGACAGAGAC	TGCACGGTCA	GGCCTTTCCT	GGTTGCACAT	CCAATCCTGA
108061	CCCCAGGGAG	GGCTGCAGCC	TCACCTGTCC	ACCCCTGAAC	CCCCTCTCT	GGCTGTCCCC
108121	AGTACCACAC	AGAGTGTGTC	AGTGGCTGTG	TGTGCCCCGA	CGGGCTGATG	GATGACGGCC
108181	GGGGTGGCTG	CGTGGTGGAG	AAGGAATGCC	CTTGCGTCCA	TAACAACGAC	CTGTATTCTT
108241	CCGGCGCCAA	GATCAAGGTG	GA CTGCAATA	CCTGGTAAGC	TGGCCCCGCC	TGTCCTGGCT
108301	GCCTCCCAGG	CCCCACGTGC	TCCGCAGGGG	TGGCCACTGG	AGAGCGGTCC	AAGGGGCAAG
108361	TGCCTCTCCT	GGGGGTTCGG	CCTGGGTCTT	GCGAGATCCT	GTGGTGGCCC	CTGTCCCACG
108421	GGCAGGGTGG	TCTCTCATGT	CAACTGCTGG	TCTTGAAGCC	ATGGGAGAAG	GGACATTTGG
108481	AGCCACTTTT	GGGGCCTGCA	GGTGTCTGT	GTGGGAGGCA	CAGGGAGCTG	TCTGCACGGT
108541	GCCCAGGGTC	TCCTCCAGCC	ACCATGAGC	AGGTCCTGGG	TCCCTTCAGG	CTCCTCTCCT
108601	GCTCCTGCTA	GCACCTGCAA	GAGAGGACGC	TGGGTGTGCA	CCCAGGCTGT	GTGCCATGGC
108661	ACCTGCTCCA	TTTACGGGAG	TGGCCACTAC	ATCACCTTTG	ATGGGAAGTA	CTACGACTTT
108721	GACGGACACT	GCTCCTACGT	GGCTGTTTCA	GTGTGGTCAC	GGGCACTGCC	TGGTCGGGCT
108781	GCTTATGGTC	AGGGACCCTC	TGCCTGCCCC	AAGTGCAGTG	CTTAGCTCCC	CGAGAAACCC
108841	TGAGACTTGG	GAAGGCCGGC	CTTTCCTCAG	CCCCAGACCC	GCACCTGCAC	CCGCAGGAGG
108901	ATTCTGTTCT	CTAGCCAGGG	CTGGGTAGGG	GTGGTAAAAC	CCCTCTGTAC	TGCCAGTTTC
108961	TGTGGTTCTC	CTCTGGGTCC	TCCTCTGGGT	TCTCCTGTGG	GTCTCTCTCT	GTGGTTCTCC
109021	TCTGGGTCTT	CCTCTGGGTC	CTCCCTCCTC	TGGATCCTCC	CTCCTCTGGA	TCCTCCCTCC
109081	TCTGGGTCTT	CCCTCCTCTG	GGTCTCCTCT	CCTCTGGGTC	CTCCTCCAGG	TCCTCCTCTG
109141	GGTCTCCTCT	CCTCTGGGTC	CTCCTCTGGG	TCCTCCTCTG	AGTCTCCTCT	TGGGTCTCTC
109201	CTCCTCTGGG	TCCTCCTCTG	AGTCTCCTCT	TGGGTCTCTC	CTCCTCTGGG	TCCTCCCTCC
109261	TCTGGGTCTT	CCTCTAGGTC	CTCCTCTGTG	GTCCTCATTT	GGGTCTCTCT	CTGGGTCTCT
109321	CTCTGGGTGC	ACAAGGTGGG	TGCACCAGCC	ATGGGGACTG	AGGGCACCTG	TTTGGGGAGC
109381	TGAGTAAAGG	CCAGGGCTAG	GCCGCTGCCC	GCGCGGCTCT	CCAGATCCAA	ATCCACAGC
109441	CCTTTGAGGC	ACCGTGATCC	CCAGGGACAG	GGGACAGGCC	TGCAGCAGGG	TCAGGTCTTT
109501	GGATGGGCCA	GGCCAGGGCC	TGGTTTGTCT	GCTCAGTGGC	TGTGACCCTG	CCAAGTGGGG
109561	CGGGTGTGCC	CCGGGACACC	TGGGGTCCAG	CTGTCTCTGG	TGACCTTGCC	CTCCTGGCCC
109621	CCAGGACTAC	TGCGGCCAGA	ACTCCTCACT	GGGCTCATTC	AGCATCATCA	CCGAGAACGT

109681	CCCCTGTGGC	ACTACGGGCG	TCACCTGCTC	CAAGGCCATC	AAGATCTTCA	TGGGGGTGAG
109741	TGCTGCTGGC	CCTGGGGACG	CGTGAGCCCT	GCGGGACCCT	CAGACCAGCC	AGTGACTGGG
109801	CCTCTCCTCC	GGGCAGAGGA	CGGAGCTGAA	GTTGGAAGAC	AAGCACCGTG	TGGTGATCCA
109861	GCGTGATGAG	GGTCACCACG	TGGCCTACAC	CACGCGGGAG	GTGGGCCAGT	ACCTGGTGGT
109921	GGAGTCCAGC	ACGGGCATCA	TCGTATCTCT	GGACAAGAGG	ACCACCGTGT	TCATCAAGCT
109981	GGCTCCCTCC	TACAAGGTGG	GCTGCCTCCC	TGCCTGCCCT	GCCCCCTCCT	GGCCAGCCCC
110041	CCACCCCCTG	CCCTGGTGTT	TGCAGGACAA	GCCCCCTGTCC	TCCCTCCAGC	CCCTTTTTTG
110101	AGCCCCTGTG	ATGCTTGTCT	CTTGCAGGGC	ACCGTGTGTG	GCCTGTGTGG	GAACTTTGAC
110161	CACCGCTCCA	ACAACGACTT	CACCACGCGG	GACCACATGG	TGGTGAGCAG	CGAGCTGGAC
110221	TTCGGGAACA	GCTGGAAGGA	GGCCCCCACC	TGCCCAGATG	TGAGCACCAA	CCCCGAGCCC
110281	TGCAGCCTGA	ACCCGCACCG	CCGCTCCTGG	GCCGAGAAGC	AGTGCAGCAT	CCTCAAAAAGC
110341	AGCGTGTTCA	GCATCTGCCA	CAGCAAGGTG	GGCTGGCCGG	GCCATGGTGG	GGCAAGTAGG
110401	CAGAGGAGGG	CTGTAGGTGG	GCTGTGACTG	TGGGCTGGGG	CCATGGGCGG	GGCCGACTAA
110461	GCAGAGCAGG	GCTGTAGGTG	GGCTATAGCT	GTGGGCGGGG	CCATGGGCGG	GGCCGACTAA
110521	GCAGAGCAGG	GCTGTAGGTG	GACTATAGCT	GTGGGCGGGG	CATGGGCGGG	CTAACTAGGC
110581	AGAGCAGGGC	TGTAGGTGGG	CTATAGCTGT	GGGCGGGGCC	ATGGGCGGGG	CCGACTAAGC
110641	AGAGCAGGGC	TGTAGGTGGA	CTATAGCTGT	GGGCGGGGCC	ATGGGCGGGG	CCGACTGTAG
110701	GCAGAGCAGG	GCTATGGGCT	GACTGTGGGC	GTGGTGAGGG	TGCCGTAGAG	CATGCTAATG
110761	ACCAGGGCGT	GGTCATAGCA	GGGTAGGGTC	TTGGGTGCTC	CTGGGGCTGG	GGGGCTTCTC
110821	CACATGCTCC	CCACACCTTC	AGGAGTCGCC	CTGCTGCGTC	ACGCACCACA	CGGCGCTTGT
110881	CCTCCAGCTT	TGGCTCTGGC	CGCTGCCTCC	TTTGGTCACA	TGACCGTATA	ATCGGCCTCC
110941	CCTCTGAGAC	CCTGGGCTGG	ACCCCCGGCC	TCCCTCTGCC	TCCCCAGGCT	CAGATATTCA
111001	CCCGGAGGGA	GAAAGGACAT	GTGTCCCCCA	TGCCACACA	TCCCCAGCTA	CAGGCAGCTG
111061	GGGAGGACGG	GTTCTAGGAT	GGCCATGTTA	CAGCTGAGGA	TGCAGAGGGG	TTGGGTGATG
111121	GGTCTGCACA	GCCACGGCGG	GACAGGTGTC	TCTGGACCCT	CTCCCCAAGG	TTGGCCCTGC
111181	CGGGGCCCTG	GCTGGCTGGT	GCTGGGTAAT	GTGCCCTGTC	CCAGGAGCAG	GGCCGGCCTC
111241	AGGGTCCTGA	GCTCCAGGGC	ACTGGGGAAG	TCCCTGGCTCC	ATGAGGGCAG	GACCGGCCCCA
111301	GGACAGACCA	GGGTGTTCTC	CCCAGGTGGA	CCCCAAGCCC	TTCTACGAGG	CCTGTGTGCA
111361	CGACTCGTGC	TCCTGTGACA	CGGGTGGGGA	CTGTGAGTGC	TTCTGCTCTG	CCGTGGCCTC
111421	CTACGCCCAG	GAGTGTACCA	AAGAGGGGGC	CTGCGTGTTC	TGGAGGACGC	CGGACCTGTG
111481	CCGTAAGAGC	CTGCCCCAAC	TGCACTCAGG	GCCGGGACGG	GGGCTGGGAG	GTGCTGTATT
111541	GCGGGCCGGG	GTGACACTCC	TTGTCCATCC	AGGTGATGGG	TGTGCATCAC	CCACCTTTTC
111601	CCCGACTTCT	CCAGTGTCTT	TCTTTGGGGC	CCTGTGGGAC	CCGGGTGGGC	AGAGCAAGCT
111661	TGATGCGTCT	GCGTCCCAGC	CCCCGACCCC	AGATTGCCCC	TCACCCCGGC	CCAGGCCTGA
111721	GCCCTCCTGC	GTCTGACCCT	GGCCCTGTCT	CCCCCAAGCC	ATATTCTGCG	ACTACTACAA
111781	CCCTCCGCAT	GAGTGTGAGT	GGCACTATGA	GCCATGTGGG	AACCGGAGCT	TCGAGACCTG
111841	CAGGACCATC	AACGGCATCC	ACTCCAACAT	CTCCGTGTCC	TACCTGGAGG	GTGAGCAGGG
111901	TGGGGCGGGC	TTCAGCGGGG	GTGATGGCCG	AGGGGCCTGG	AGGCTGAGTG	GGGCAGCCCT
111961	CGGGAGAGGC	AACAGTCCAC	TGGCCTGGAG	GGTGAGCCAG	GCGGCCCTCG	GGGGAGGCTA
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112081	CCGGAGGGAG	GCCTGACCCT	CAGGGTACCC	ACAGCCCAGG	GCAGCCAGGC	TCCCCTTGCT
112141	GCAGGATCAG	GAGGGAAGCA	GGCTATCGTG	GAAACTGGGA	GTGGCAGGGG	TGGGAGGTGC
112201	TGAGGTTCTG	GCAGAGCAGG	GCGGGTTGGG	GAGCATTTC	GGCAGAGTCA	AGGGAGGGCC
112261	CCTGCCGGGT	GCTGGTGTCT	GAGCTGAGAA	CAGTGACGT	GAAGGAGGGA	CTGGTGGGAA
112321	GTTTGGGAGG	AGTATCCCGC	CATGGGAGAG	GAACATGGGT	CTTGGGACTC	AGGGCTGCTC
112381	GGGGGGCCCG	ATGAGACTGG	GCAGGGCTCC	TCAGCAGGCA	GCGTTCAGGG	CTCAGTGGGG
112441	TGGGGAGATC	CAGGCCCTGC	CTTTCCAATC	CCCGGCCTTC	CCAGAGGGGG	ATCCTGCAGA
112501	GAAGGGCCTG	CCAGGGTAGG	GACGGTGGGT	GGGGTGTGGT	GGACTGCGGT	GGTCCCAACC
112561	CTATGCCCTG	TGTCCACCAG	GCTGCTACCC	CCGGTGCCCC	AAGGACAGGC	CCATCTATGA
112621	GGAGGATCTG	AAGAAGTGTG	TCACTGCAGA	CAAGTGTGGC	TGCTATGTCG	AGGACACCCA
112681	CTACCCACCT	GGAGCATCGG	TTCCCACCGA	GGAGACCTGC	AAGTCCTGGT	ACCTAAGCCC
112741	ACGTGGCAGG	GGGCCTGGGG	GAGCTGCACA	TATGGGCACA	TGAGTACACA	CACACGTGTG
112801	AGCACACAGT	GTACACAGTA	CACAGACACA	CAACCGTTCC	ACATGGGTGC	ACATGCACAC
112861	AAACGCACAC	AGCATACCAC	GTGCACACAC	ACGGTCACAT	GCATGCATGG	TGCACACATG
112921	CACACATGAA	TGGATGCCAA	CATGCAGGCA	CACACAGTCA	CACATGCACA	CAGCGCACAC
112981	ATGGACACAT	GCCTAGACGC	AGATACCCAG	GCATACACTC	ACGGTTACAC	ACTCACGCAC
113041	ATATGCATGG	ATGCAGACAC	GCAGGCACAC	ACGGTCATAT	AGTCATACAC	CACATGCACA
113101	CATGCACAGA	CAGACACCCA	GGCACACACA	GTTACACAGT	CACACATGCA	CACATGCATG
113161	GATGCAGACA	CGCAGGCGCA	CACACACATG	CACAGTGCAC	ACGTACACAT	GCCTAGACAC
113221	AGATACCCAG	GCACACACAG	TCACACATGC	ATGGACACAG	AGTCACATGT	GCACACATAC
113281	ACACGTGTGG	ACAGACATAG	GCACAGTCAC	GTGCACACAT	GCACTCACAC	TCAGTCACAC

113341	ATGAACATGT	GCTCACATGC	ATGGACACTG	ACACGCAAGG	ACACACAGTC	ACACATGCAC
113401	ACATGCATAG	ACACAGACAC	CCAGGCACAC	ACAGTTACAC	AGTCACACAT	GCATGGATGC
113461	AGACACGCAG	TCACACAGTC	ACACATGCAC	ACACTGCACA	CATGTACACA	TGCTTAGACA
113521	CAGATATGCA	GGCACACACA	CATAGTCAAA	CATGCACACA	TGCATGGACA	CAAAGTCACA
113581	CGTGCACACA	TGCACACATG	CATGGACAGA	CACAGGCACA	CACAGTCACG	TGCACAGATG
113641	CACTCACAGT	CACACATGAA	CACATGCTCA	CATGCACAGA	CACTGACACG	CAGGCACACA
113701	CAGTCACACA	TGTACACGTG	CCTAGACACA	GATACCCAGA	CACACACAAT	TACACAGTCG
113761	CACAGTCACA	CATGCATGGA	TGCAGACACA	CAGGTACACA	AGGTACACA	GTATATAAT
113821	GCACACATGC	ACACATGCAT	AGATACAGAC	ACCCAGGTAC	ACACTCACGG	TGACACAGTC
113881	ACACATGCAC	ACATGCATGG	AGGCAGACAC	ACAAGCACAC	ACAGTCACAC	AGTCACACAT
113941	GCCACACACC	ACCACCACGG	TGACCCCAAC	CCCAACACCC	ACCGGCACAC	AGACCCCAAC
114001	ATCGACACCC	ATCACCACCA	CCACCACGGT	GACCCCAACC	CCAACACCCA	CCGGCACACA
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114121	CGGCACACAG	ACCCCAACAT	CGACACCCAT	CACCACCACC	ACCACGGTGA	CCCCAACCCC
114181	AACACCCACC	GGCACACAGA	CCCCAACCCC	GACACCCATC	ACCACCACCA	CCACGGTGAC
114241	CCCAACCCCA	ACACCCACCG	GCACACAGAC	CCCAACATCG	ACACCCATCA	CCACCACCAC
114301	CACGGTGACC	CCAACCCCAA	CACCCACCGG	CACACAGACC	CCAACCCCGA	CACCCATCAC
114361	CACCACCACC	ACGGTGACCC	CAACCCCAAC	ACCCACCGGC	ACACAGACCC	CAACCCCGAC
114421	ACCCATCACC	ACCACCACCA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA	CACAGACCCC
114481	AACATCGACA	CCCATCACCA	CCACCACTAC	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC
114541	ACAGACCCCA	ACCACGACAC	CCATCACCAC	CACCACCACG	GTGACCCCAA	CCCCAACACC
114601	CACTGGCACA	CAGAGTACAA	CCCTGACACC	CATCACCACC	ACCACCACGG	TGACACCAAC
114661	CCCAACACCC	ACCGGCACAC	AGACCCCAAC	ATCGACACCC	ATCACCACCA	TCACTACGGT
114721	GACCCCAACC	CCAACACCCA	CCGGCACACA	GACCCCAACC	CCGACACCCA	TCTCCACCAC
114781	CACTACAGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACCA	TGACACCCAT
114841	CACCACCACC	ACCACGGTGA	CCCCAACCCC	AACACCCACC	GGCACACAGA	CCCCAACAAC
114901	GACACCCATC	AGCACCACCA	CCACGGTGAC	CCCAACCCCA	ACACCCACCG	GCACACAGAC
114961	CCCAACATCG	ACACCCATCA	CCACCACCAC	TACGGTGACC	CCAACCCCAA	CACCCACCGG
115021	CACACAGACC	CCAACCACGA	CACCCATCAC	CACCACCACC	ACGGTGACCC	CAACCCCAAC
115081	ACCCACCGGC	ACACAGAGTA	CAACCCTGAC	ACCCATCACC	ACCACCACCA	CGGTGACACC
115141	AACCCCAACA	CCCACCGGCA	CACAGACCCC	AACCCCGACA	CCCATCTCCA	CCACCACTAC
115201	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA	ACCATGACAC	CCATCACCAC
115261	CACCACCACG	GTGACCCCAA	CCCCAACACC	CACCGGCACA	CAGACCCCAA	CAACGACACC
115321	CATCAGCACC	ACCACCACGG	TGACCCCAAC	CCCAACACCC	ACCGGCACAC	AGACCCCAAG
115381	ATCGACACCC	ATCACCACCA	CCACTAAGGT	GACCCCAACC	CCAACACCCA	CCGGCACACA
115441	GACCCCAACC	CCGACACCCA	TCACCACCAC	CACCACGGTG	ACCCCAACCC	CAACACCCAC
115501	TGGCACACAG	GCCCAACCCC	CAGCAGCCAT	CACCACCACC	AGTACGGTGA	CCCCAACCCC
115561	AACACCCACC	GGCACACAGA	CCCCAACCAC	GACACCCATC	ACCACCACCA	CCACGGTGAC
115621	CCCAACCCCA	ACACCCACCG	GCACACAGAG	TACAACCTTG	ACACCCATCA	CCACCACCAC
115681	CACGGTGACA	CCAACCCCAA	CACCCACCGG	CACACAGACC	CCAACATCGA	CACCCATCAC
115741	CACCACCACC	ACGGTGACCC	CAACCCCAAC	ACCCACCGGC	ACACAGACCC	CAACCCCGAC
115801	ACCCATCTCC	ACCACCAGTA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA	CACAGACCCC
115861	AACCATGACA	CCCATCACCA	CCACCACCAC	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC
115921	ACAGACCCCA	ACAACGACAC	CCATCAGCAC	CACCACCACG	GTGACCCCAA	CCCCAACACC
115981	CACCGGCACA	CAGAACCCAA	CATCGACACC	CATCACCACC	ACCACTACGG	TGACCCCAAC
116041	CCCAACACCC	ACCGGCACAC	AGACCCCAAC	CATGACACCC	ATCACCACCA	CCACCACGGT
116101	GACCCCAACC	CCAACACCCA	CTGGCACACA	GGCCCAACCC	CCAACAGCCA	TCACCACCAC
116161	CACTACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACCA	CGACACCCAT
116221	CACCACCACC	ACCACGGTGA	CCCCAACCCC	AATACCCACC	GGCACACAGA	GTACAACCCT
116281	GACACCCATC	ACCACCACCA	CCACGGTGAC	ACCAACCCCA	ACACCCACCG	GCACACAGAC
116341	CCCAACCCCG	ATACCCATCT	CCACCACCAC	TACGGTGACC	CCAACCCCAA	CACCCACCGG
116401	CACACAGACC	CCAACCATGA	CACCCATCAC	CACCACCACC	ACGGTGACCC	CAACCCCAAC
116461	ACCCACCGGC	ACACAGACCC	CAACAACGAC	ACCCATCAGC	ACCACCACCA	CGGTGACCCC
116521	AACCCCAACA	CCCACCGGCA	CACAGACCCC	AACATCGACA	CCCATCACCA	CCACCACTAC
116581	GGTGACCCCA	ACCCCAATAC	CCACCGGCAC	ACAGACCCCA	ACCACGACAC	CCATCACCAC
116641	CACCACCACG	GTGACCCCAA	CCCCAACACC	CACTGGCACA	CAGGCCCAAA	CCCCAACAGC
116701	CATCACCACC	ACCACTACGG	TGACCCCAAC	CCCAACACCC	ACCGGCACAC	AGACCCCAAC
116761	CACGACACCC	ATCACCACCA	CCACCACGGT	GACCCCAACC	CCAATACCCA	CCGGCACACA
116821	GAGTACAACC	CTGACACCCA	TCACCACCAC	CACCACGGTG	ACACCAACCC	CAACACCCAC
116881	CAGCACACAG	ACCCCAACCC	CGACACCCAT	CTCCACCACC	ACTACGGTGA	CCCCAACCCC
116941	AACACCCACC	GGCACACAGA	CCCCAACCAT	GACACCCATC	ACCACCACCA	CCACGGTGAC

117001	CCCAACCCCA	ACACCCACCG	GCACACAGAC	CCCAACAACG	ACACCCATCA	GCACCACCAC
117061	CACGGTGACC	CCAACCCCAA	CACCCACCGG	CACACAGACC	CCAACATCGA	CACCCATCAC
117121	CACCACCACT	ACAGTGACCC	CAACCCCAAC	ATCCACCGGC	ACACAGACCC	CAACCACGAC
117181	ACCCATCACC	ACCACCACCA	CGGTGACCCC	AACCCCAACA	CCCACTGGCA	CACAGGCCCC
117241	AACCCCAACA	GCCATCACCA	CCACCAGTAC	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC
117301	ACAGACCCCA	ACCACGACAC	CCATCACCAC	CACCACTACG	GTGACACCAA	CCCCAACACC
117361	CACCGGCACA	CAGTCCCCAA	CCCCAACAGC	CATCACCACC	ACCACTACGG	TGACCCCAAC
117421	CCCAACACCC	ACCGGCACAC	AGACCCCAAC	ATCGACACCC	ATCACCACCA	CCACTACGGT
117481	GACCCCAACC	CCAACACCCA	CCGGCACACA	GACCCCAACC	CCGACACCCA	TCTCCACCAC
117541	CACTACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACCA	CGACACCCAT
117601	CACCACCACC	ACCACGGTGA	CCCCAACCCC	GACACCCACC	GGCACACAGA	CCCCAACCCAC
117661	GGTACTCATC	ACCACCACCA	CTACGATGAC	CCCAACCCCA	ACACCCACCA	GCACAAAGAG
117721	TACAACCGTG	ACACCCATCA	CCACCACAAC	TACGGTGACC	GCAACCCCAA	CACCCACCGG
117781	CACACAGACC	CCAACCATGA	TACCCATCAG	CACCACCACT	ACGGTGACCC	CAACCCCAAC
117841	ACCCACCACT	GGAAGCACGG	GGCCCCCACC	CCACACAAGC	ACAGCACCCA	TTGCTGAGTT
117901	GACCACATCC	AATCCTCCGC	CTGAGTCCTC	AACCCCTCAG	ACCTCTCGGT	CCACCTCTTC
117961	CCCTCTCACG	GAGTCAACCA	CCCTTCTGAG	TACCCTACCA	CCTGCCATTG	AGATGACCAG
118021	CACGGCCCCA	CCCTCCACAC	CCACGGCACC	CACGACCACG	AGCGGAGGCC	ACACACTGTC
118081	TCCACCGCCC	AGCACCACCA	CGTCCCCTCC	AGGTAAGCAG	AGCTGCTTGG	TTCTCTGGC
118141	CTGGGATGCT	TCTTCTCCC	CTTGTGCCGG	GCAGGACTGT	CCCAGGAAGG	CTCAAGGCAC
118201	GTTCTGGGCG	CCTCTCTGCC	CACGAAGCTT	GGTCACTGTG	TGGGCAGAAG	CCACTGACAC
118261	TGGCCAGTGC	TGGGCAGTGA	AGCCAAAGGC	CATTCCGCTT	GCCCATAGGA	CAGCCTTCTG
118321	AGGAGCTGCT	GACACCGGCC	AGTGCTGGGC	AGTGGAGCCC	TTGGCTATCC	TGCTCGCCCA
118381	TAAGACGGCC	TTCTTCAGGG	GCCCCACTGT	ATGTGATGCG	GTGCTGTGGG	AGCCCATCAA
118441	GGCTGGGGGG	CAGAGAGAGG	CTGCCAGTGA	GGTGCCCTGC	GGTCCACCTG	CTTCTGGCTG
118501	CAGCCCTCTC	TTGGGGCCTT	TTCTTGGTGG	ACGGCGTGCC	ACAGCCAGTG	CCTTCTGGAC
118561	GCCTCTTGCT	GGCCATCGGC	TTGGCCAGCA	AGCTGTGTTG	CTGCCAGAGC	ACCAAGGTAC
118621	CTGCAGGCTC	TCGTGACACT	CGGCTGTGGT	GATACTGGCC	TTGCCGCTCC	ACCCTGCCTG
118681	GTGACTCTGA	GAGCCTGGGA	GGTGGGCACG	AGGCCCTGGT	CCTCCAGTTC	TGCCACCCGG
118741	TCGGCTGTCT	GGCTCCCTTG	CAGCTGGGGA	GTGGCAGTTG	GGACCCTGTG	GCATCTGAGA
118801	TGTGCAATGT	CTCAGCCCTC	ACTGGTGTCT	CCTGCTCTCA	CAGGCACCCC	CACTCGCGGT
118861	ACCACGACCG	GGTCATCTTC	AGCCCCCACC	CCCAGCACTG	TGCAGACGAC	CACCACCACT
118921	GCCTGGACCC	CAACGCCGAC	CCCCTCTCTC	ACACCCAGCA	TCATCAGGAC	CACAGGCCCTG
118981	AGGCCCTACC	CTTCTCTGT	GCTTATCTGC	TGTGTCCTGA	ACGACACCTA	CTACGCACCA
119041	GGTACTCAGG	CTGTTACAT	CCTGTGCTTG	GGTGGCCGAG	GCTGGCCCCG	GCATGTACCA
119101	ATGGGTCAGG	TGCCAGGGCT	GAGATCGCAG	TAGAAGCGTC	TCAGGAGGCA	GCAGCCGTCG
119161	AGGGTGGCTG	TGTCCAGGGC	ACGGCTTCCC	TTGGGTGGCC	TCTGTGGGGA	CCTCCGCTGT
119221	GGGGACCTCC	ACGGGGTCCA	GCGGCTAGCC	CTGCCTCCGG	ATAGCCCTGC	CTCTGGACGG
119281	TGTGATCGTG	GGTCTGTCTC	CCTTCGCAGG	TGAGGAGGTG	TACAACGGCA	CATACGGAGA
119341	CACCTGTTAT	TTCGTCAACT	GCTCACTGAG	CTGTACGTTG	GAGTTCTATA	ACTGGTCTCTG
119401	CCCATCCACG	CCCTCCCCAA	CACCCACGCC	CTCCAAGTCG	ACGCCCACGC	CTTCCAAGCC
119461	ATCGTCCACG	CCCTCCAAGC	CGACGCCCGG	CACCAAGCCC	CCCGAGTGCC	CAGACTTTGA
119521	TCCTCCAGCA	CAGGTCACTG	GGCTGCAGGC	GGCTTTGTCC	CCATGGCACT	CTGCGAGCA
119581	TGTCCGGGCA	GCTGAGGCC	CAGGCACCAC	TTCTGTCTGG	TCGTGTGAGG	GCCGAGGCCT
119641	CCAGCAACCC	TTGGGTGCAG	GGTCTGCCGA	GCCCTCCACA	TTTTACCGT	GCCCCGCTGT
119701	GCCTGGCGAG	GTGGCTGGCT	GCAGTGAGGT	CCGTGGAAGC	CACTTCGGCC	TCCAGCCTCC
119761	CGGCTCAGCA	CCCGCCCTC	CTGAGCGCAG	ACCACCCCAT	CCTGTGCCGG	TCCCCCTGAC
119821	GTCCCTTGCC	TCCCGTCCCC	AGGAGAACGA	GACTTGGTGG	CTGTGCGACT	GCTTCATGGC
119881	CACGTGCAAG	TACAACAACA	CGGTGGAGAT	CGTGAAGGTG	GAGTGTGAGC	CGCCGCCCAT
119941	GCCCACCTGC	TCCAACGGCC	TCCAACCCGT	GCGCGTCGAG	GACCCCGACG	GCTGCTGCTG
120001	GCACTGGGAG	TGCGACTGTG	AGTCCGGGGC	CCCCAGGCC	TCCCCGCATC	TCCTGCCCTC
120061	TCCGTGGGTG	GGGGCTGCAG	GGCCCGTCTC	CCGGGGGCGG	AAGGGCTGAG	GCTCCTTGGG
120121	CACAGATCCC	ACTGAGGTGT	TCGCTGAGGC	TGGGTGACTT	CTGAGGGTCT	TCTCACAGCC
120181	CTGCTTTTGC	CTCATTGGGT	GGGGAGGGCC	TGGGCAGGTG	GAGGGCTTGC	CTGGTGGAGT
120241	TAGGGCTCCT	CCCTGGAACA	AGGGTGCTTC	TGAGGCAAGA	GGGGGCTGAG	TTGAAGTTTG
120301	AACCTGGTGC	CGTCCTGCAG	AATGGGCCAC	TGTGGGTGCG	CCAGGGCAAG	TGCAGCTCAG
120361	ACATCCCCGT	GCCCACGCAC	AGGAGTGGGG	TTTTTCAGGC	CCAGCTTCCT	GCTGGCTCTT
120421	CCTGACTATG	CCCCAGCCCA	GCCCTTGCAC	CCGACCCCGG	CCGAGGGGCA	CAGGTGGCAC
120481	GGCTCACTCC	GGCTCCCTTG	CAGGCTACTG	CACGGGCTGG	GGCGACCCGC	ACTATGTCAC
120541	CTTCGACGGA	CTCTACTACA	GCTACCAGGG	CAACTGCACC	TACGTGCTGG	TGGAGGAGAT
120601	CAGCCCCTCC	GTGGACAAC	TCGGAGTTTA	CATCGACAAC	TACCACTGCG	ATCCCAACGA

120661	CAAGGTGTCC	TGTCCCCGCA	CCCTCATCGT	GCGCCACGAG	ACCCAGGAGG	TGCTGATCAA
120721	GACCGTGCAT	ATGATGCCCA	TGCAGGTGCA	GGTAGGCACA	GCGTGGCCAC	AGGAGGCTGG
120781	CATGGAGGCG	GGTGCTGACA	TGGGCCCAA	TGCACCCTGG	TTCCCCAGGG	GCCAGAGGAC
120841	TGGGCTGTGG	GGGTGCCAAG	GCATAGCCTC	TCCTAGAGCT	GGGCTAGAAG	GTAGGATGGG
120901	GTGGGCGACT	GGCTCCGGGA	CATATCAGCT	CTTCCTGCAG	GCCCTCCAGG	TGTGTCCTGG
120961	GCCCCTCGAG	CCCTGGCACC	ATGCCACGCT	GGGCACAGTC	TCTGCAGCAG	AAGCTGCCTC
121021	CTGAGGACAG	AGTCAGGGAC	AGGGCTCTGC	ACACCCTTGG	CTGAGATGCC	CCTACTTGCA
121081	GGGGAATCAT	TGGTTCTGAG	GCTCAGGAGG	CCCCGGGAGC	CTGCGCCGGG	CTCCACAGTC
121141	CCCAGGTGCT	CCCAGGAGAG	CTCCTTCAC	GGCTCACCCA	TGGGACCAGG	GTCTGGTTGG
121201	GAGCAGTGGA	GTGGAAGCAA	GAAAGGGGGC	AGGAAAGCGG	GGTAGGCAGG	GCCCTCTCCC
121261	TACATGTGTA	GGTCAGAGAG	CAGGCGGGGT	GGGGCAGCCC	TGGAGCTCTC	ACAAGGAGAG
121321	GACCGAGGCA	GCTGCAGCTC	CCATGGTGTG	TCGGCCACAG	GTGCAGGTGA	ACAGGCAGGC
121381	GGTGGCACTG	CCCTACAAGA	AGTACGGGCT	GGAGGTGTAC	CAGTCTGGCA	TCAACTACGT
121441	GGTGGACATC	CCCGAGCTGG	GTGTCCTCGT	CTCCTACAAT	GGCCTGTCCT	TCTCCGTCAG
121501	GCTGCCCTAC	CACCGGTTTG	GCAACAACAC	CAAGGGCCAG	TGTGGTGAGT	TCCGTGACCC
121561	CCATGGCCCC	CGAGGCCCCC	ACGGCTCCCA	CCGTCCCCTG	TGCCCCCATG	TCCTGCCCCA
121621	GGGCGGGTGG	CCAGGCCAGG	CTGAGGCTGA	GGCTGCGTGT	AAACACCCAT	GGGCTGGCT
121681	GTGGGCTCT	TGCCCCGCTG	CTCGGGGCTG	CTGTGGCCAT	CACCCGGGTT	CAGTCTCTGT
121741	GAGGAGCCAA	CAGGAGGGGG	CCTGGCCTGG	TCTCTGCCCT	CGGCCCTGGC	TGGCCGGTCC
121801	TGGGCATCTG	GGCTGGAGAA	GGGCAGGGCT	TACCCTGTCT	GCAACGTGGC	CTCTCTCACT
121861	GATACAGGCA	CCTGCACCAA	CACCACCTCC	GACGACTGCA	TTCTGCCCAG	CGGGGAGATC
121921	GTCTCCAAC	GTGAGGCTGC	GGCTGACCAG	TGGCTGGTGA	ACGACCCCTC	CAAGCCACAC
121981	TGCCCCCACA	GCAGCTCCAC	GACCAAGCGC	CCGGCCGTCA	CTGTGCCCGG	GGGCGGTAAA
122041	ACGACCCAC	ACAAGGACTG	CACCCCATCT	CCCCTCTGCC	AGCTCATCAA	GGACAGGTGA
122101	CCCCGCCCC	GCCTGCCTGT	GGCCACGACA	CCAATAAGCT	GAGGGCCTCT	GTGCCCCAGC
122161	CCCCAGCTCT	TGCAAAGAGG	AAGGAGGCGC	CGCGTGGGGC	CTGGCGCTGG	GGCTGGGAAG
122221	GCACGGAGCC	GCGGAACCA	GATGAGGCGC	TAGGTCGCCG	TGGGGTCCAG	GACCCAGGCC
122281	CTTGGGTTCC	ACGGGGCTGA	GCTGCTACGT	GCGGCCTGTG	CCTTTGCTGA	ACTCCAGTCT
122341	CTCCTGGCTC	CCGGGAAGGT	GCAGGGCTGG	CCGAGTGTGA	GGCCCCGAGT	AAACCAGTCA
122401	ACCCAGGACA	GAGCTCAGGG	CTGATATTGG	GAGGGCAGAT	TTGGGCTTTG	ACAGAGAGGG
122461	GGTGCTCCTA	ACGCTGGCAG	TCATGGGGGG	TCAGCATCCT	GTCCCTGGAA	GTATAGGGGC
122521	CAGGTATAGG	CTGGGTGTCC	ATCTGCCAGG	GTTGCTGGAG	GGGGTCTGA	AGCTGATGAC
122581	CACATAGACG	TGGTTTCTAT	CTCTGGGAGC	CGGGCTGCAG	AGCCACCTTG	CTCGGCCATC
122641	CCTTGGTCTG	TCCCTGAGCT	GTCCCCCTGG	CTGGCCTGTC	CCTTGACCTT	CCATCAGCCA
122701	CAGGCGCCTC	TCTGGCGGGT	GCCGGACTCC	AGGAGGACAG	TCCGGGCAGA	GACGCTGGGG
122761	TAGAGAGCAG	GGGAGAGGCA	GGTGCCACCT	GAGTGTGACC	TGTGCCTCTC	CCTGCACAGC
122821	CTGTTTGCCC	AGTGCCACGC	ACTGGTGCCC	CCGCAGCACT	ACTACGATGC	CTGCGTGTTC
122881	GACAGCTGCT	TCATGCCGGG	CTCGAGCCTG	GAGTGCGCCA	GTCTGCAGGC	CTACGCAGCC
122941	CTCTGTGCCC	AGCAGAACAT	CTGCCTCGAC	TGGCGGAACC	ACACGCATGG	GGCCTGCTGT
123001	AAGTGCCCAT	CTGCCCCCTG	CCTGGAGCTG	GGGGCCTGCA	GGCCAGACGT	GGTCTCTAGG
123061	CTCTGCCAGG	TGCTGTGCCC	AGCCTGAAGC	TAGACCTAGA	TGGGCTGCGG	CCAGGGATGC
123121	AGAGATGGCG	GGTGTGAGAC	CAGGGCTGGG	GCCATGGGGT	GGGGAAGGCC	AGGCTGGAGG
123181	GGCTGAGGTG	CTGGGGCTTC	TGCCAGCATC	GCTAAATGCA	ACTGGGTGCC	CACCAACCCAG
123241	CTCGGGACAA	CCTCGAGGGT	GGAGGTTGAT	GCCCAGGCAG	CTGGTCAACC	TCTCCGTGT
123301	GTGGGGCACT	GGGCAGCTGT	CACTCAAGGG	GGTCCAGGCT	CCTCCGCCTG	ACATGAGGCA
123361	GCCCTCTGAC	CTCTGCCCAT	GTCCCTCAGT	GGTGGAGTGC	CCATCTCACA	GGGAGTACCA
123421	GGCCTGTGGC	CCTGCAGAAG	AGCCCACGTG	CAAATCCAGG	TATGTTGTTT	GAGGGTCCAC
123481	CAGGACCGTG	GGCTCGCCTT	CTGCAGTGCG	GAGGGTGGCA	TCATCTGGGC	ATAGCAGTCC
123541	CACCTGCCAG	CTCCCCAGCC	CCACCCCACC	TGTCTGACAA	TGCCCTCCCG	CCCCCAGCTC
123601	CTCCCAGCAG	AACAACACAG	TCCTGGTGGA	AGGCTGCTTC	TGTCCTGAGG	GCACCATGAA
123661	CTACGCTCCT	GGCTTTGATG	TCTGCGTGAA	GACCTGCGGT	ACGCCACCCA	CTCACACTGT
123721	CCCCTCCTGC	CTCCCTCCTG	CCTCCTCCTG	GGTGTCCACG	GAGGCTGGGA	CCAGGACGCT
123781	GACCACCCCC	CACCTCTGAT	CCCTGTTGCA	CAAGGACTCT	GCTAACACAA	CTTGCTCCTT
123841	GGGTGTCCAT	GGAGGCTGGG	ACCAGGAGGC	TGACCACCCC	CACCCCTGCT	CCCTGCTGCA
123901	CAAGGACTCT	GCTAACACAA	CTTGTTTCTT	CCCTCTTCCT	AGGCTGTGTG	GGACCTGACA
123961	ATGTGCCCAG	AGAGGTAGGC	CCCACCGTGT	TGCTGGGGGA	TCCTTCCACA	AATTCTGAAT
124021	TCTGGGGAGT	GAGGGATGGA	CATGAAAACC	TGGAGCCTCA	AAGATTGAGG	AATGAGGTCA
124081	TCTAAGTCCT	GGATGGCTGA	GTTGGCATGG	ACACCACCCA	CTCACCCACC	CATCCTTCCA
124141	CCCACCCACT	CATCCACCTG	TGCACCCATC	TACCCACTCA	CCTACCCCTC	CATCCTTCCA
124201	CCTACCTAGT	CATCACCCAC	TCATCTATGC	ACCCCCACCC	ACCCACTCAT	CCATCCATCC
124261	ATCCACCATC	CACCTACCCA	ACCATCCACC	CATCCATCCA	CCATCCATCT	ACCATCCACC

124321	ATCCACCCAA	CCATCCACCA	TCCATCCATC	CACCATCATC	CATCTACCAT	CCACCCACCC
124381	ACCTATCCAT	CCATCCATCC	ACCATCTGTC	TACCATCCAC	CCACCCACTC	ATCCATCCAT
124441	CCATCCACCA	TCTGTCTACC	ATCCACCCAC	CCACCTATCC	ATCCACCCAT	CCATCCATCC
124501	ATCCATCCAT	CCATCCATCC	ATCCATCCAC	CCACCATCTG	TCTACCATCC	ACCCACCCAC
124561	CTATCCACCC	ATCCACCCAC	CCATCCATCC	ACCCAACCAT	CCACCATCCA	TCCATCCATC
124621	CATCCATCCA	CCATCCATCT	ACCATCCACC	CTCCCATCCA	TCCACGCATC	CACCCAACCA
124681	TCCATCCATC	CATCCACCAT	CCACCCACCA	TCCACCCATT	TATCCATCCA	TTCTCCCTCC
124741	CTCCATTAC	CACCCATTGG	TCATATGATA	CTCTGTCTAG	AAGCTCTGAC	ATGACATCTT
124801	GGCCACCTCT	GTGCTGCCCC	TGCCTCCTAC	CTGTGGTAGC	AGCCATGTGG	ATGATTCCCTT
124861	AGCTAAATTC	TGTACAAACC	TGAGAGGCCT	GAGTGGAGAA	TTTGCCACGT	GCCAAGCCCC
124921	TGCTTGTCGA	TGCTGGTGAG	CAGGTAATGG	CTTTGTGATA	TCAGTGAATG	AGCAGCTACT
124981	GTCCTATCCC	AGAACCTGCC	TGGTGTGCTC	AGAAGTGAGG	AGGGACATGG	TTTTCCCCCA
125041	GGATCCCTCA	GCACTCTGCT	CAGGGTGGCT	GTTTCTCCCC	GCTGACCACA	GCTGCAGCTC
125101	CGGGGCTGTG	GTGAGGTGGG	GCCTGCCTGG	TGCCACCTGT	CCTCTCTACT	CACCCTTCTT
125161	TCCCTGCAGT	TTGGGGAGCA	CTTCGAGTTC	GACTGCAAGA	ACTGTGTCTG	CCTGGAGGGT
125221	GGAAGTGGCA	TCATCTGCCA	ACCCAAGAGG	TGCAGCCAGA	AGCCCGTTAC	CCACTGCGTG
125281	GAAGACGGCA	CCTACCTCGC	CACGGAGGTC	AACCCTGCCG	ACACCTGCTG	CAACATTACC
125341	GTCTGCAGTA	AGGCCATCCC	CTGGGGCCCC	TGCCACCTCT	CAGGGGTGCA	CACATCCCTG
125401	TAGGCTGGGC	TGCCTGCTGT	CCCCTCCTTG	GCAAGTGAGG	AAACAGCTGG	CTTGGGGGCC
125461	TCTGCTGTGC	CCCTTGAGAG	GGCTTGGGAG	GGGGCCGCTG	GGCCCAGTCC	AGGCATCCCT
125521	GCTGCAGGGC	CTGACCTGGG	TGGGGAGGGG	ACCCTTGGAG	GTGCTGGAGG	CCCGACCCTG
125581	TGCAAGTGGC	CCGGGGGCTT	TGCCTGGGAG	GAGCCACCCT	CACGGCCGCG	TGCGCACCCCT
125641	GTCTTCAGAG	TGCAACACCA	GCCTGTGCAG	TGGCCCCGGG	GGCTTGGCCT	GGGAGGAGCC
125701	ACCCTCACGG	CCGCGTGCAC	ACCCTGTCTT	CAGAGTGCAA	CACCAGCCTG	TGCAAAGAGA
125761	AGCCCTCCGT	GTGCCCCGTG	GGATTGGAAG	TGAAGAGCAA	GATGGTGCCT	GGAAAGGTGCT
125821	GTCCCTTTCTA	CTGGTGTGGT	AAGCAGGGCT	GGTGGGCAGG	GCAGGGAGGA	GCTGCCC GCC
125881	CGGGGTGGGG	TGGCTGTAAG	AGGGTTGGCT	CCCTCCTGGG	GGTCTCAGAT	TCTGGGGACA
125941	CAGATGGCTG	TACGCTTGGC	TGATGCACCC	ACCCCAGCCC	TGAGCGCTCG	CTCCATCCAC
126001	TGGGTGTGCA	CCGGGAGTGG	GGGTCTGGCC	AGGTGGCCGC	CCCGGGGCAG	TCTCCAACGA
126061	ACGGCCTTCT	CCGTTCTTTC	TCCCAAGAGT	CCAAGGGGGT	GTGTGTTTAC	GGGAATGCTG
126121	AGTACCAGGT	GAGCCCTGGG	CTGGGTGAGA	GGGAGGAGGG	GAGGAGGTCG	GCTGCAGCGT
126181	GGGGGTCTCTG	GCAGGCTGTT	GGGCTGGCTG	GGATGCTGGA	GAGGCCCTG	CCTCATGTCT
126241	CTCCCTGTGC	CCGAAGCCCG	GTTCTCCAGT	TTATTCTCTC	AAGTGCCAGG	ACTGCGTGTG
126301	CACGGACAAG	GTGGACAACA	ACACCCTGCT	CAACGTCATC	GCCTGCACCC	ACGTGCCCTG
126361	CAACACCTCC	TGCAGCCCTG	TAAGCGGCCA	CCCTCCTCCT	TCAGCCTGCC	CTTTTCCCTC
126421	CTCCCAGACA	AGCACCCGGG	CCCATGTCTG	CATCGTGACC	CTTTCTTTCC	TCCTTTCAAC
126481	GCCAACCTGT	CCCTGTCCCC	ACCTCTCCAT	CCTGACACCT	GCCCAGCCTG	GGGCCTCCTC
126541	CAGGTGGGGG	GGTCTCGGCA	GCCCTGCAGG	CTTTGTGTGG	TGTGGGGTAC	AGCCTGGGAG
126601	TTCAGTTGCA	GTGGCGTGTC	TATGTGCGCA	GGGCTTCGAA	CTCATGGAGG	CCCCCGGGGA
126661	GTGCTGTAAG	AAGTGTGAAC	AGACGCACTG	TATCATCAA	CGGCCCGACA	ACCAGCACGT
126721	CATCCTGAAG	GTAGGTGTGC	ACTGCCGGCC	CCGACGCGGC	CGGGTTGCTT	GAGCCCAGGG
126781	CAAGGCGCGG	GCCACCCAGG	ATCCCCCAGC	TGAGTCCTCC	CAGTCCTGGG	CGCAGCTGTG
126841	ATGGGCGCCC	TGGGGCTGCC	ATGACAAATG	AGCAGGCGTC	TTCAGGGCAG	AAAGGGATTTC
126901	TCTGTGTTCT	GCGGCCCAGA	AATCCATAGA	GCAAAGGGCC	TCAGGGCTGT	GCTCCCTCGG
126961	AGGCGCTAGG	CAAGGACCTT	TCCCAGCCTC	TGGTCACTCT	AGGTGCCCTT	TGGCTGTGAC
127021	CACGAGGTTT	CCTTCCCTGT	GTCTGCCTCT	CCTCTCCCTT	TTAAGGATTT	AGGCACCCCA
127081	AGCAGGATGA	TCTCATCTTA	GGATCCTTCA	CTTAATGACA	CCTTCAAAGA	CCCCCTTTCC
127141	AAGGCAGGTC	ACATTATAG	ATTGAGAGTT	AGAACACAGA	CAGACCTTTG	AGGGTTGTGT
127201	GGGCTCCAGG	CTGGTGCCTG	ATGTGGGGCC	CCGCCCATGT	CACTTGTCTT	GTGGCCCTGG
127261	GCCTACCCAG	GAAGCCTCCC	CGGCCAGGTG	TCTCCAGGGT	GTCTTCTCTG	CCGGGCTGGG
127321	GCTGGGCCTG	CTGCCCTCCC	TCACCAGAGC	TCCCTGCCCC	ACAGCCCGGG	GACTTCAAGA
127381	GCGACCCGAA	GAACAACCTG	ACATTCTTCA	GCTGCGTGAA	GATCCACAAC	CAGCTCATCT
127441	CGTCCGTCTC	CAACATCACC	TGCCCCAACT	TTGATGCCAG	CATTTGCATC	CCGGTGAGTT
127501	GGCCACCTGG	GGCCTGGCTG	TGTGTACTCT	GCCGGGAGTG	GGGGTGCCTG	GTGTTCTGGG
127561	GGGCTGGGGC	CCCAGTGCTG	CGACAGTGAC	CTCGGGCCTG	GTCTGAGCTG	CCGCAGGAGG
127621	CTTTGCCTGG	GGCTTTCTGC	AGCAGCTACC	CCCGCCACG	GCATCGTGGG	AAGGTGCTCT
127681	CATCCCCAGG	AATGTCCGGG	GGTCCCGGGC	TCATTCTCCT	TTCCCTCTAG	GGCTCCATCA
127741	CATTATGCCC	CAATGGATGC	TGCAAGACCT	GTGAGTACAG	GGCACAGCCT	GGGGGGTAGG
127801	CAGGGTGGGG	GCACAAGGGC	TGGTGCCCTC	AGCCCCGCCT	GGGGTGGCTG	GAGGCTGGAC
127861	AACGGCCTCT	GGGTGGGCAG	TGAGGGCTGG	GGGCTGAGGC	CGAGCCTGGG	GAGGGGACGC
127921	AGCGAGGGAG	AGCCTCCTCG	AAGATGTGGA	GGCCTGCCC	TAAGCCGCTG	CCCGCTCTCC

127981	CCAGGCACCC	CTCGCAATGA	GACCAGGGTG	CCCTGCTCCA	CCGTCCCCGT	CACCACGGAG
128041	GTTTCGTACG	CCGGCTGCAC	CAAGACCGTC	CTCATGAATC	ATTGCTCCGG	GTCTGCGGG
128101	ACATTTGTCA	TGTGAGTCCC	AGGCTGGGAG	TGTGCCTGGA	GGGGGTGGTG	GAGACCCCAG
128161	GGAGGCGAGA	GGCCAGCGCT	GGCCCCGGAA	GGTCACCCCT	CACTCCGCCC	TCCCCCAGG
128221	TACTCGGCCA	AGGCCCAGGC	CCTGGACCAC	AGCTGCTCCT	GCTGCAAAGA	GGAGAAAACC
128281	AGCCAGCGTG	AGGTGGTCCT	GAGCTGCCCC	AATGGCGGCT	CGCTGACACA	CACCTACACC
128341	CACATCGAGA	GCTGCCAGTG	CCAGGACACC	GTCTGCGGGC	TCCCCACCGG	CACCTCCCGC
128401	CGGGCCCGGC	GCTCCCCTAG	GCATCTGGGG	AGCGGGTGAG	CGGGGTGGGC	ACAGCCCCCT
128461	TCACTGCCCT	CGACAGCTTT	ACCTCCCCCG	GACCCCTGA	GCCTCCTAAG	CTCGGCTTCC
128521	TCTCTTCAGA	TATTTATTGT	CTGAGTCTTT	GTTTCAGTCCT	TGCTTTCCAA	TAATAAACTC
128581	AGGGGGACAT	GCTGTACTGT	GTGGTTTAGG	TTGGTGCTGC	AGGGGTGCGG	CTTGGCCACT
128641	GTGCATGGCG	GAGGCCACCA	GGCTCTGCGT	GCAGGACACG	GGGGCACCAC	ACACACGCCA
128701	CGCGGTTGGC	AAATCCCTTG	TACCAAATGC	AGAGGGGACG	TGGGGGCTGC	CTGCCCTCCG
128761	CTCCCCATTC	TCACCCTGGG	CAAAACCCCC	ACGGGGCTGT	CGAAATGTGG	TCAGATTCCC
128821	TTGTAGGAAT	CCCCCGGCC	TGAATCTGTG	AAAAGAGCCC	TGGGTTCTTT	CACAGCCATC
128881	TCACAGGCTT	TCCACGGTTG	GTGGGGCCTT	TGTGTAGCCC	CGAGGGTCAG	GTGGCCCTGG
128941	GGAGGGTGTG	TGTGTGTGTG	TGTGTGTGTG	TGTGTGTGTG	TGTGTAGCCC	CGAGGGTCAG
129001	GTGGTACTGG	GGAGAGTGTG	TGCGTGTGTG	TGTGTGTGTA	GCCCCGAGGG	TCAGGTGACC
129061	CTGGGGAGGT	GATGTGTGTG	TGTGTGTGTG	TGTGTAGCCC	CAAGGGTCAG	GTGGCCCTGG
129121	GGAGGGTGTG	TGTGTGTGTG	TGTAGCCCCG	AGGGTCAGGT	GGCCCTGGGC	AGAGGGTGTG
129181	TGTGTGTGTG	TGTGTGAGTG	CATAGCCCCG	GGGGTCGGGT	GGCCCTGGGG	AGGTGGTGTG
129241	TGTGTGTGTG	CGTGTGTGCG	TGCATGCACG	TGTGAGAATT	TGCTTTGCAC	ACGTGTCTGC
129301	ATGTGCCATG	TGTATGTGAT	GTGTGTGCAC	GTGTGTGCAT	GCATGTGCGT	GTGAGCATTT
129361	GCTTGTGTGC	ACACGTGTCT	GCATGTGCCA	TGTATGTGAT	GTGTGTGTGC	ACGTGTGTGT
129421	GTGCATGAGC	GTGTGAGCAT	TTGCTTGTGT	GCACACGTGT	CTGCATGTGC	CGTGTGTATG
129481	TGATGTGTGT	GCACGTGTGT	GTGTGCTAGC	GCCTGCTAGC	ATTTGCTTTG	GTGCACATGT
129541	GTCTGCATGT	GCCATGTGTA	TGTGAGATGC	GCCTTGTCTT	GGGTGCTTAC	ACTGGGAAAA
129601	TGGAGAAGGT	CTTAGTCCTC	AGGTCACTGT	CAGCTCCTGC	TGCCTAGTGA	CAAAAGGTGG
129661	CCAGGACCTG	GTGGCCCCGT	CAGGGCTTTG	GGGAGCTGCC	AGTCAGAGCC	GCCAATACCT
129721	TCAAACCTGC	AGAAGTTCTG	GTTGGCTCTG	CGGACCCAGC	TGGACAAGGG	GCACTGGCTG
129781	TGGACCCTGG	GCACAGTGCC	CACTCATGTT	GGAGAGCTGA	GCCCCGACT	TCTGGGTGGA
129841	GCCCATGGAG	GCTGCTTGGC	CCAGAGCAGG	TGCCTGGTGT	CTCCTGTCAA	AGGCAGCAGG
129901	TGTGTGTGGG	GAGGCCGAGG	CCTCTAAGCA	CAGTGATCCA	ACCTCGAGCA	TCCTCTGAGG
129961	TCAAAGGGGA	GGACATTTGT	CTCCAGACTA	CAAGGCTGTG	CCACACCCCT	TACATGTGAC
130021	GAAACCCTCA	GGAGGGCAGA	CACCTGGGCT	GGGCTCCACA	CTTCCAAAGC	CAGGGCACAA
130081	CGGGTCCTCA	GGGTGTGACA	GGTCCTCAGG	GCATGACGGA	TCCTCAGGTG	TGATGGGTCC
130141	CCTGGGCGTG	ACGGGTCTCT	AGGGTGCAAC	AGGTCCCACC	TCCTGCTGTC	CTGCCTCCCA
130201	AATAGTTGTA	CAGGCATGTG	GCACCATGAT	TGGCTAATTT	TTAAGAGCTT	TTTGCTTTTT
130261	GTTCTTATCT	TTCAAAAACA	TCCTTTGTTT	TACTAAAGTA	ACAGGCACGT	GATTTTTTGA
130321	TAGTTTTGTT	TGTTTTGCAG	AGACAGGGTC	TACTATGTT	GCCCAGGCTG	GTCTCAAACCT
130381	CCTTCCTGGG	TTCAAGTGAT	CCTCCCACCT	CAGCCACCCA	AAGTACCAGG	ATTACAAGCA
130441	TGAGCCACTG	ATCTTGGCTC	CTGGCAGGGG	GCTGAGGCCA	CTGCCCTCCC	CTAGCTGCCC
130501	TCCCCTAGCT	GCCCTCTCCC	CCATCTGACC	CCAGGGAGGG	CCGCGGTTGA	GCAGCAACCC
130561	TGGGCTCTGA	AGCCAGTTGG	GACATCCCAG	CTCATCAGCG	CCACCCCTGG	TCCCTGGAACC
130621	CGCTCAGGCC	TGGGGTCTTT	CAACTGCCCC	ACTTGGCCCA	GGACAGCCCC	CCAAAGGACC
130681	TGCTCATCCC	CTCTGGTGGC	CCCAGGAGCC	CACACTGTCT	AGGCCTAGGG	ACCTCCTGGG
130741	CAGTCAGTTG	GCCTGGGCCT	GCCATGGAGC	CCCTGAGGCC	ACCCTAGAGC	CTCTGGCATA
130801	GCCACGTGGG	GATTCTGGGT	GCTTCAGAAC	TGGCCCTTCC	ATGAAGCTGT	CAGCATGGAC
130861	CCCAGAGCCA	TCCTTGGGTC	ATTTTCAGGG	TGGCCTGTTT	CTGGCCCACC	CCCAAAACCT
130921	ATCACATCTC	TGCCTGGCTG	TGACCCTTGG	GCCCAGCAGT	CCCTGCACAG	GCCAGGAAAT
130981	GGGCAGGGCG	GGGTGGGGGC	ACTGCGGCCA	GAGACCTGGT	AAGGAAGAGG	TGGTCAGGCT
131041	CCCTCCAGTT	TCCTCATCTG	TCTCCCAGCT	TGCAGCTGCG	AAGAGGGGCT	TCCCCTGGTG
131101	ATGCAGCGTG	GACACGGGTA	CGGCTAGGCC	CCTGCCTGCT	CTTCCCTGCT	GTGCCCTTTA
131161	AAGCAGAGGC	TACCCGGGAA	GCTCCAGGAG	AGCATGAGCC	CTGACCCACG	TCCTTCCCCA
131221	GACAGCCCTG	CCCCTTCCCA	GAGCAGGCCC	CACCCCTTCC	CTAGAGGAGG	CCCCGCCCTT
131281	TCCCCAGAGC	AGGCCCCACC	CCTTCCCTAG	AGGAGGCCCC	GCCCCCTTCC	CAGAGCAGGC
131341	CCCACCCCTT	CCCTAGAGGA	GGCCCCGCC	CTTCCCCAGA	GCAGGCCCCA	CCCCTTCCCT
131401	AGAGGAGGCC	CCACCCCTTC	CCCAGAGCAG	GCCCCACCCC	TTCCCTAGAG	GAGGCCCCGC
131461	CCCTTCCCCA	GAGCAGGCCC	CACCCCTTCC	CTAGAGGAGG	CCCCGCCCTT	TCCCCAGAGC
131521	AGGCCCCACC	CCTTTCCTAG	GACAGGCCCC	GCCCCCTTCT	CCCACTCAGG	ATCTTCTTTT
131581	TGGGTTCTCT	GTGTCCAGAA	CTCCAGTGCA	GGTGTGAGG	GTGGGGAGGG	AGCTGCCCTT

131641	TCAGGTGGAG	GCAGGGTTGG	TGCCAACGGA	GGGGCAGGGA	GACGCAGGGG	CTCCCCCAA
131701	CCCCGTCCAG	TCACGGTGCA	GCCCCCGACT	TTATCCCCAG	CGCCCTCCTC	TTCTTCGCAT
131761	AACTCATGCC	CCCAGCTGGG	TCCTCCTGGG	TCTCCCTAGG	GGTGACTCGG	GCCAGGGGGCT
131821	ACCTGTTTCC	CCGGGCTCAC	CACAGTGGGC	TAAGCCTACA	GCAGAGGAGA	TAGGGAGCCC
131881	GCCAGCCAGG	TGGGCAGCCG	GCCACCCCTT	CGGAGTAGCT	GCACGGGTTG	GGGTCAAGTT
131941	CTCGCATTCT	CTGGAAGAAG	CTGGCTGTTC	TGTTCCACG	GCGGCCTCCC	TGTTTCTGGG
132001	AGCAGACGGA	AGGCCCCAGC	GCGCACTCCT	CCCTTCCGCC	CAGGTGAGAC	TTGCTGTTGT
132061	TCCGTGGGCT	GAAACAGGCC	ATGCGCCTGG	CTGTCGGGTG	CTCCGGGCGG	CACCAGCAAA
132121	TGACCACAAA	CCGGGGGCCG	AAAGCCACAG	GAAAGCTGTC	TCCCACAGTC	CCGGAGGCCG
132181	GAGTCTGAGG	TGCAGGCGTG	GCGGTGCCAC	AAGGCCGCTC	AGGCTCCGGG	GAAGATGCTT
132241	TTGGCCCTTC	CAGCTGCAGG	TGGCTCTGGG	CGTTCCTTGG	CTTGCGGCTG	CATCGCCCAT
132301	GCCCTGCCTC	CGTCTCCACG	GGGCTTCTCC	TGGGCGTTTC	TCCCTTTGCG	TCTCTTCTAA
132361	GGACATTGGT	CTTTGGATTT	AGGGCCCACC	TGATAATCCA	GGCTGATCTC	GTGAGGTCCT
132421	CAATCTAATC	ACATCTGCAA	AGACCCTTTT	TCTTTTTCTG	TTTTTGGAGA	CAGATTCTCG
132481	CTCTGTCACC	CAGGCTAGAG	TGCAGTGGTG	TGATATCGGC	TCACTGCAAC	CTCCGCCTCC
132541	CGGGTTCAAG	CGGTTCTCCT	GTCTCAGCCT	CCTGAGTAGC	TGGGATTACA	GGCGCCACC
132601	ACCACACCCA	GCTGATTTTG	TATTTTTAGT	AGAGATGAGA	TTTCACCATG	TTGGCCAGGC
132661	TGGTCTCGAA	CTCCTGACCC	CAGGTGATCT	GCCCCGCTCG	GCCTCCCAAA	ATGCTGGGAT
132721	TATAGGGGTG	AGCCACTGCA	CCTGGCCCCG	AGTCTTGGTG	GTTACAGGCA	GCAGGGTTCT
132781	GTCTGGTTCA	TGCTCCGTTT	GTGGCTGCGT	GGCTGGTGCC	CTCCACTACA	TCCGCTCACT
132841	CCAGGGCCTA	GGCTGTGGGA	GCAGCTATTG	CCTCCGTGGT	CACGGTGTGG	GGACGGGAGA
132901	CCGAGGGTCT	TGTCCATGTC	CCAGTCCCCT	GAGAGGTTCT	GGCTCTGCTC	AGACACCGAG
132961	TCCCTGGGGC	TGCTGTACCA	CCACCAGGCA	GGAGAGGGTG	CCAGAGACGT	GTGGAGGATT
133021	TAAAAACGGA	AGGATCTTAG	GTGCAGACAG	GTGTCTGATG	GGAGTCAACA	GCGTGTCTCA
133081	ACTCGCTATT	ATAAAAAGAG	CAAGCCCAGA	CTAGAAGGAA	GCCGTCTTAA	CCTGTTTAGG
133141	AACATCTGCC	CAGAAACTAC	AGCACACATC	GAACCCCTCC	GCTTGCTGGG	ACTTGAGAAT
133201	CACTCCCACA	GAAGCCAGCG	GACATGGGAG	ATGTTGGCGA	TGGCTGTGCC	TTCCCTCTAT
133261	GGGGGTGCTG	GAGGCTTCAC	CAAGTCCGTG	AGACAAGAGC	AAGAAGAAAT	GAAGACCAGC
133321	ATTGGGAAAC	AAAAGTGTCC	TGATTTGTTT	CATTTTAATT	TATTTTTTGT	AGAGACAGGG
133381	TTTTGCTATG	TTGCCAGAC	TGGCCTTGAA	CTCCTGGGCT	CAAGTGATCT	GCCTGCCTTG
133441	ACCTCCCAAA	GTGCTGGGAT	TACAGGTGTA	AGCCATTGTA	CCTGGCCTTT	ATTTTCATATA
133501	ATGTGATTAT	CAAGATGTAA	AAGCCAACTG	GCTGGGCACG	GTGGCTCACG	CCTGTATTCC
133561	CAGCATTTTG	GGAGGCTGAG	GCAGGCAGAT	CACCTGTGGT	TGGGAGTTCA	AGACCAGCCA
133621	GGCCAACATG	GTGAAACCCC	ATCTCTACTA	AAAATACTAA	AATTACCCGG	GAGGTGGTGG
133681	TGGTGGGCAC	CTGTAATCCC	AGGTACTCGG	GAGGCTGAGG	CAGGAGAATG	GCTTGAACCT
133741	GGGAGGCGGA	GGTTACAGTG	AGCCGAGATC	ACACCATTGC	ATTCCAGCCT	GGGTGACAGA
133801	GCAAGACTCT	GTCTCAAAAA	CAAAACAAAA	CAAAACAAACA	AACAAAGAAA	GAAACATGAA
133861	GATGTAAAAA	CCAAGAGAAT	TTTTGACTCT	ATTATTTGAA	CTAATGAGAG	GGTTCAGTAA
133921	TGTTGGAGAC	AAGGTTGATG	AGGGAAAAAA	CAATAGCGTA	TGTTTACACC	AGTAGAAACC
133981	AAGCTGAAAT	ATAATAGAAA	AATACTTCAT	TAACAGCAGC	CTCAAAACCT	ACGAAGATAC
134041	CTATGTAGAA	AACGTCAGAT	GGAAGGTGTC	CAGGCCACTA	TAACATTGCA	AAGGGCATAA
134101	AAGAAGACTT	GACTGATGGA	GACGTATGCC	ACGTTTCATGA	ATGAAAAGTG	TAAGTTTTGA
134161	AAATGAGAT	TAATTTTAAA	AAGTGAAAAA	CGAGGTCGAT	TCTCCGCAAA	ACGCTTTTCT
134221	CAATCCCAGC	TGAGTTTTTC	GTGGGATTTG	GCCGGCTGGT	CCAAAGGTCC	CAGTGGAAAG
134281	CCAGAGAGCC	AAGCAGAGCT	AAGTGAGTTT	CAGAGAAGAA	TCATGTGGGA	CGCCTGCCTC
134341	TAAGACAGCG	TGGCATTGGT	GCCGGGATAG	GCAAGTGGAT	GCCTGGAACA	GCCCATGTGC
134401	TTACGATGAT	GCTTTGAGGT	GGGTGGGTGC	TCCACATCTA	CAAGGAAGGA	GGGTTGTTCT
134461	CTGAGGGTGC	TGGGCCGGGC	TGTTCCCTGA	GTGTGCTGGG	CTGGGCTGTC	CCCTGAGTGT
134521	GCTGGGCTGG	GCTGTCCCCT	GAGTGTGCTG	GGCTGTCCCC	TGAGTGTGCT	GGGCCGGGGC
134581	TTCTCTACAT	GGGGAAAATT	AGGTGCCTGT	GTCACGCTCT	AAACAAAAAT	AAAACACCAG
134641	GTAGATTAAA	CAACTCAGAT	GTGAAAAGCT	AAACCTGAAA	ACATTTAGAA	GGAAAACAGG
134701	CATAATATTG	ATGACCTCAG	GGTAGGAAAG	GGTTTCTTAA	GTCATAAAG	TCACAAGCTA
134761	TCAAAGTAAA	GAGAGACGCA	TTTGACCACA	TTACATTTTA	AAAAGTGTGT	TTGAAAAAAG
134821	ACAACATAAC	TAAGTAAAAA	TACAAGCCAG	GGAGTGGAAG	GAGGTCATCT	CTGTGCATCC
134881	GGCGCTGAGG	CCGGAGTCCA	GGAGATCTAG	CGAACGTCAT	GGTCAGACAA	GCAGCCCAGG
134941	GTTGAGGCGG	GGGTCACACA	GGAGGAGACG	CGGACAGGCG	GGGGTCACAC	AGGAGGAAAC
135001	ACGGACAACA	CAGGGAGTAG	CCAGCAGGGA	GGCTCGGCCA	CTGGGACCCC	AGGAAGGGCG
135061	TGATAATCCT	TGAGACCAGC	TGAAGGTTCT	CACACCTCCA	GAGAGAACAT	GCTGGGGCGT
135121	TTAGGGGAGA	GCGGTTGGTC	AGGGCAGCCA	AGCTGAGGAC	ACAGTCCTGC	TTCTGGGCAC
135181	CCAGGGAGCT	GCCCACCCGG	GAGGATGGAG	ACTGGAAATG	GCCTGCATGC	TGGTCCACCA
135241	GGAACGGGCT	GCTCCTCTGG	GCATATTCAT	CCTCTGGATG	GGGCCAGCA	CTAAACCGGA

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139081	CACCCTCACT	CCTGCTCCTG	CTCAGGCGTC	TGGGGACAGA	GCATGTCCTT	GAGGGTGTGG
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139201	ACTTGGAAGG	GGGTGGCCTG	CAGGGATGGG	CAGCCCTGGG	GCGGTGGGAG	GGTGGCGTGT
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139441	CCCCCTCCT	GCCCCAACGG	CCGGCAGCAC	TAGTGGCCTG	CTTGGCCTCA	CCTCGCTGTG
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139561	CAAACCACAG	AGGCCAAAGA	GGGCGGGGCC	CCAGGAGGAT	GAGCCATGTT	GTCAGGAGGG
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139681	TGCTGTCACT	GCCTGCTTGA	GTCCCGGAGA	GCCATTACAC	TCCGTGCCTT	GCACCCGTGT
139741	CCTCCACACC	CAGGCCGGGT	CCTGGTGCAC	CCCGGGGTCC	CGGAGAGCTG	TTCACATCCG
139801	TGCCTTGCAC	CCGTGTCTCT	CACTCCCAGG	CCAGGTCTCT	GTGTACCCCA	GGGTTGGAGG
139861	GACAAGGAAG	AAGGCGTTCA	CACTGTGACC	TCCCCTGGGG	CTGCCAGCAC	CGGAGGGTCT
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139981	CTGGGTGGTC	GTGGTGCCCC	ACTCCTGTGT	GGGCCCAGAA	GTGACCTACG	AGTCCCCTCT
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140101	CTGGGAGCCC	CCACCCGCCC	AGGCTGGTGG	CGGCTGCTCA	GGGGTGACCT	GCAGGCAGGA
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140221	CAGCTGCCCC	AGCCTCCTCT	ACCTCCCTCT	TGGCCCAGGC	AGCAGCCTCG	GCTGCAGAGA
140281	CGTCTGGTCA	ACCCGAGGAG	GGCCTGGGAT	GTGGCCTTGG	TTGAGTCAAT	GTTTCCCTCT
140341	CTCCCCCGAG	GGGCTGGCCT	CTCCTCCCTG	GGGCGTGTTC	CCATGCTCCA	GTCCAGATGA
140401	GCCGTGTCTG	TTTTCCAGG	GAGACGAGAG	AATATCTTTT	CCTTTTCTTT	GAATAAATGT
140461	GCCATTGTG	GGCACCTGTG	CCAAGCGGTT	CCCAGGCCCC	AGAACCCTGC	CAGGCTGTGG
140521	TCCCTGACCG	CCCAGGGAAC	CTGGAAGTGC	CTGCACCTGG	AGCTGGGAGA	AGCTCTGGAT
140581	TAGCCCCCGA	GGGCAGGCAC	GCAATGCCGG	GGTCAGCCAG	GGGAAGCAGC	TGTCCACAGC
140641	TCCACAGGCT	GCATGCCAAC	CACGGCTGCA	TGGCTGGGAC	CTTCTCACCC	GCCAGGGCCT
140701	CTCCACCAAG	CAGCGCCTGC	CTGGCCACCC	CTGGACAGCC	CCTGGGTTGG	TCAGCGGGCT
140761	CCAGGCAGGC	CAGCAGGGTC	TGCCCACACC	ACCCAGTGAG	CGCTCTTGGA	GGGGATGGGG
140821	GGCCTGGCAC	ACAGTCAGGC	TCAATGAACA	TTTGAGAGAA	GAAGGAATGA	AGGGTCCCCC
140881	CCCACAGGCA	GCTGGATGGG	GGTCCGCTGT	GGCCCAGCAC	CATGTGCCCA	GCCCTCTCCC
140941	CCTGGCCACC	GTGAGGCCAC	CTCTTCTGTG	GTGGATGGCG	GCCTGGGCTG	TGAGCCCTGC
141001	GTCAGCCGTG	GACCCACCCT	CCCTCTCTTT	CCTTCTCTCT	TCTCTATCTC	TCTCCATCAT
141061	TTCTCTCCCT	CCCTCTTTCC	TTCTCTTGCT	TTCTTTCTCT	TTTCCCTTCT	ATCTCTTTTT
141121	TCTTTTTCTC	TCCCTTGTAC	CCTCCCTCTT	CCCTCCTTCC	TCCTGATTCC	CTCCTTCTCT
141181	CCTCTTCCCT	CTCTCTCTCC	CTCCTTCTTC	CTTCCCCCTC	CCCCTTCCCT	CCTCCCTCCG
141241	TCTTTCTTTC	CTTCCCTCCT	TTTTCTCTCT	CCCTCCCTCT	GCCTCCTCTG	TTTCTCTCAC
141301	TCCCTCTGCC	TCCTCTCTCT	CTCTCTCTTC	CTCCTCTCTC	TGTCTCTCTC	TCCCTCTGCC
141361	TCTTGTCTCT	GTCTCTTTCC	CTCCTTCTGC	CTCCTCTCTC	TGTCTCTCTC	CCTCCCTCTG
141421	CCTCCTCTCT	CTGTCTCTCC	TTCCATTAGT	ACATCATATG	GGATGCAATG	CTGGCTGAAG
141481	GCATGTGGGA	CAATTTTTTA	GACTGTCTCT	TTTCTCAATC	CCTCCATAAC	ATTACGGCCA
141541	CAGAGGCTTT	GGTCTGTCC	TGTCTGTGTC	CAGCATCACC	TGCAGTAAAA	TCCAGCCTCA
141601	GTCCCCCTTT	AGGACATGCG	GGGACAGAGC	TCCGTGGAAC	CCCAGCATGA	CATGCTGTTC
141661	ACCTCTTTAA	CGCTGCACCT	TTTCATACTG	TTAAAAATGG	AATCAGATTT	CCAATGTATG
141721	AACTTTGAGG	AATATATTCA	CACCATAACA	TGCTCTCTG	TCCTTTGGGC	CTTCTCAGAC
141781	CTGTTCTGTC	CACCTAGTGC	AGGTGCTGTC	AGCTTCAGCC	TCCTCCTCAG	AGACCAGACA
141841	TGTCCTACAA	TCTGGGGTCC	CTTGTCTGGC	CAGAGGGAGG	GACGTCAGGA	TGGGACAGGT
141901	ACTCCAAGAG	TTCTGACTTA	AACAGCCCAG	GAGGTGGTTC	CTTGGGGTGT	GGAAAGAGAG
141961	CAGGGGTGGT	TCAGGAGATA	GCCCGTGGCT	ATTGTTTCATG	TGGGGTCTGA	ATTACAGGCTG
142021	CTCACATCTG	GTTCTGCCCA	AGACTTAGCT	TCTCAACATC	TGCACCAGGA	ATAGAGGACC
142081	CACCTGCCCC	AGGGAGAGAT	GACTGACCTG	CCCCAGGGCC	AGAGGATGCA	CCTGCCCTGAG
142141	GACAGAGGGG	TGTGAGTCCT	GCCCTCTGCT	CATAGGCAAC	CCTGGAGCAT	GGGCTCAAGC
142201	CTTCTGAGAC	TTGGTGGGGG	CATGGGATTT	ACTCCCAGGC	AGGGCTCACC	TGGACCAGGG
142261	CCCTCCACTG	CCCCTGGTGC	TGAACCTAAC	CCCACCCCTG	AATACTGCCG	TGGGGTTGTC
142321	TATGAACATC	TCCCCCAGCT	CTCAGTGAGC	TCCCTGAGGG	CAAGACCTGT	TCCAGCCCCA
142381	TGAAGGCCCC	ATACATGTTG	TGGAATGAAT	AAATATGAGT	GAATGAGTAA	GTGAATATGA
142441	ATATCAATAA	TACAGTTGAA	CATGTATGAA	TGAATGAAGA	GAAATATGTG	AATGTAGATG
142501	GATGGGAATG	AATGGATGGG	AATGAGTGGA	TGAGTGAGTG	AACAGGAATG	AGTGGATGGG
142561	AATGAGTGGA	TGGGACTGAA	TGGATGGGGA	TAAGTGAATA	AGGATGAGGG	GATGTGAATG

142621	TAGATGGATG	GGAATGAGCA	CATGAATGAG	TGAACAGGAA	TGCATGGATG	GGAATGAGTG
142681	GATGGGAATG	TAGATGGATG	GGAATGTAGA	TGGATGGGAA	CGAGTGGATG	GGAATGAGTT
142741	GATGGGAATG	AGTGGATGGG	AACGAGTGGA	TGGAAACGAG	TGAATGGGAA	TGTAGATGGA
142801	TGGGAATGAG	TGGATGGGAA	CGAGTGAATG	GGAATGTAGA	TGGATGGGAA	CGAGTGGATG
142861	GGAACAAGTG	AATGGGAATG	TAGATGGATG	GGAATGAGTG	AATGGGAATG	AGTGGATGGA
142921	AATGTAGATG	GATGGGAATG	AGTGGATGGG	AATATAGATG	GATAGGAATG	AGTGGATGGG
142981	AATGTAGATG	GATGGGAATG	AGTGGATGGG	AATATAGATG	GATGGGAATG	AGCGGATGGG
143041	AATGTAGATG	GATAGGAATG	TAGACGGATG	GGAATGAGTG	GATGGGAATG	AGTGGATGGG
143101	AATGTAGATG	GTTGGGAATG	AGTGGATGGG	AATGTAGATG	GATGGGAATG	AGTGGATGGG
143161	AATGAGTGAT	GGGAATGTAG	ATGGTTGGAA	TGGATGGGAA	TGATGGATGG	TGTGATGGAT
143221	GGGAATGTAT	GGAATGAGTG	GATGGGAATG	AGTGGATGGG	AATGAGTGGG	TGGGAATGTA
143281	GATGGATGGG	AATGAGTGGG	TGGAAATGTA	GATGGATGGG	AATGAGTGGG	TGGGAATGAGT
143341	GGATGGTGAT	GGATGGGAAT	GAGTGGATGG	GAATGCGGAT	GGGAATGTAG	GTGGATGGGA
143401	ATGAGTGGAT	GGGAATGTGT	GGATGGGAAT	GATAGTGGAT	GGGATGGATG	TGGATGGGAA
143461	TGTAGATGGG	AATGAGTGGG	TGGGAATGAG	TGGATGGATG	GATGAATAGA	TGGGAATGAG
143521	TGGATGGGAA	TGAGTGGATG	GATGGATGAA	ATGAATAGTG	GGAATGAGTG	GATGGGAATG
143581	TAGATGATTG	GGAATGAATA	GATGGGAATG	AGTGATGGGA	ATGTAGATGG	ATGGAATGAG
143641	TGATGGGGAT	GGGGATGTAG	ATGATGGATG	GGAATGAGCG	GATGGGAATG	TAGATGGATG
143701	GGAATGAGAT	GGATGGGAAT	GAGTGGATGG	GAATGAGTGG	ATGGGAATGA	GCGGATGCAT
143761	GAATGAATGA	AGATGACTCA	ATGAATGAAC	AAACAAACAA	CAGTCTCCCA	CAGTGGCCTG
143821	TGGTGTGAGC	CCTGCTGCCA	GCCATGGAAA	CTGAGGCAGA	GAGGCTCCTG	GCTCAGCCCT
143881	GCCCAGCCTG	TCCAGCCCTT	GTGATGTTGG	ACCCTCCGGT	GCAGACCCAC	CAGTCATCTG
143941	CAGTGACGGG	TGGCAGTGGA	CGTGGGCTGA	GTCGCGGCGG	ACTGAGTCCT	GGTGGCCACT
144001	GCTTGATTTT	ATTGCTGGGC	AGTGCTCCCG	TGCAGGGTGT	ATTTGTCCAC	TCCCCCTTGG
144061	GGTGACGGGG	CTGTGCCTTC	GGTGCCTGTG	GCTTCAGTGC	CTGTGCCCGG	GAGAGGGCTC
144121	ATTCCTCATG	TTGGCTCCTG	TGGGCCCTTG	AGCCCTAGTA	TTCAGTTTAT	TGGCTGCTGT
144181	GTGTCTACCG	GGGCCGCCAT	AATGAATGCC	CACAACAGGT	GGCTTGAAAA	CATGGGAAT
144241	GTATCCTCTC	ACCGTTCAGG	AGGGCAGAAG	TCCCAGTTCT	GGGAGGCAGA	AGTGTGTGATT
144301	CCCACTGGAG	GCTTGAGTA	CCTCTGACAC	ACATACCCGG	CCTTTCCCTA	TGGGGACACA
144361	CATGGATGGT	GGACGACACC	ACCCAGATCG	TCCAAGAAGA	TTTCATCTGA	GATCCACATT
144421	ATACCTTCTG	CCAGCAAGGC	AGCCCTCCCA	GGTCCCAGGG	TTCAGGGTTT	GGGCTTATCT
144481	TTTGGGGGCC	ACCCTAATCC	TCCTATAGTC	CCAGAGGCCT	GATGGGACTC	ACAGCTCAGC
144541	CTAAATGGTC	CCCTGGGACA	GATGGACGGG	CAGTCCAGCA	GCCAGGCAGG	ATGGGAGGGA
144601	GGTCCACCCG	TGCTGGAGAG	CTCGGACCCC	TGGGCCAGCC	AGGGCCTGTG	CGAGGCCCAT
144661	GCACAGACAG	GAGCTGCTTG	GGAAGTCGTG	GTCCTAACCC	CTGATGCTGA	CACGCAACGT
144721	CTCCAGATGC	CCTGGTGGTG	GGGAGACATC	AGTCCCTCCC	AGCTGGTCAG	CCTGCGGACT
144781	ACTGAGCTGG	ACACCGTGAG	GAGCCATCTG	ACTCGACGGA	GGAAGCCCTC	ATGGGGGCGT
144841	GGGATGCTCT	GGGGCCTCTG	CACTGCCCCC	ACCCCCCGCG	ACCCTGAAAA	CGACGTCTGT
144901	GTGTGGTGCA	GCTAGCGTGG	ACCATGTCCC	ACGGAGGGCC	CACCCCTACC	AGGTCCGTCT
144961	TCTGGCATGG	CCATGGCTGG	GCCTTCCGCC	TCACCCGCTC	TGGGAGGGAG	CCCTGGCCTG
145021	CGCTGGAACA	CTCGGCCTCC	TCCGTGAGGG	GGTTTGTGCT	CGGACAACAT	GAAGGCAGAC
145081	GGATGCCTAG	CACAGCTGGC	TTGGTAAACA	GAGAATGTGC	CGTTTACTCC	CACATCCGCA
145141	GAGTAAATCC	CCACGGGCAG	TGCGCCGGGT	GCTGGGGACC	GGCAGTCTCC	ACTTTGGGGA
145201	GAGGACAGGC	AACAACGCCT	GACCCAGGGA	GTTTGGAGCT	GCACCTTGGT	CTGTGTGCGT
145261	AAGGCTCCTT	GGCTGCACCC	CACGCTGGGT	GAGGGCACTG	GGCTGGAGAT	GGGGCAGGTG
145321	GGCGACTGTC	CCGGTGGCCC	TCCAGCGCGG	TCCCCAAACC	GGGCCCTTCC	CACCACCCGG
145381	GGAGGACGCT	GCTTATGGCC	AGGCATCTTG	GGCAGCCCCA	GTGCACAAAG	TCAGGGCTCC
145441	TGGTGGCCCC	GGCAGGCTCT	GTGCATGGTG	GGACCACCTT	AGCCTTGCCT	CTTGCAAAAG
145501	AGCGCCCAGC	CCCCACCCCTG	CCCTCTTGTT	GGCTTTTCTG	GGAGGCCTGT	GGGGGGCCTT
145561	TCCAGTGCCC	TGGTGCCGCC	CCTGAGCTCT	GGGTCACTGC	CCAGAGGCGT	CTGAAGCAGA
145621	CACCTGCCCC	TGCCTCCCTG	AGCCCACGCT	ACCCGCTCTG	TATCCTATCT	AGAACTTTCA
145681	CGAGCCGACA	TTGTCTCTGT	TGCCAGCTCA	CTGTCCCCAC	GGAACAGCCA	TGCCACGAGG
145741	GTGGGGTCCC	TTTTGTTTGG	GGGGCAGAGC	TCAAGCTTTT	GGATCTGCTT	CAAGCCCAGA
145801	GCCACCCGTC	AGCTGAAATA	CTGAAAGGAG	GAAGGGGTGA	GAGGAGGAAG	GACTACGGGG
145861	TGGACAGGGC	TCTCAGCAGG	CACCCCTGCC	CCACTTCACA	GCAGCCCTGC	GGCCGGGGAC
145921	GGACTTTGGC	AGGGCTGGTG	GCAGCTGGGT	CAATCTGGGC	TTTTGGGAGG	CTCTGGTTCT
145981	GTGGACCCTC	TAGGGCTTGT	CCCCCGCCT	GTGACCTGAG	GTCTCCTGAG	CTCTGCATCT
146041	CAGTCTGCTC	TCGAGTTAAA	TGGGGACAGT	ATCACATGCT	ACAGAAGGCC	TGTGGCAAAA
146101	CGCTGTCTGT	AGAGACCCCA	GCACAGCTGC	AGCTCAGAAA	CAGCCACCGT	TGTGAAGAAG
146161	ATGCGTAAGA	GTCAGTTGAT	CATGACTACT	AGCCTTTTCT	TGAAGCCTGT	GTGTACAGGT
146221	AAAACCTGCTG	TGTAGCACAC	ACACACACAC	ACACACACAC	ACACACACAC	ACACACCCAC

146281	GAAAAGCACG	CAGCCAACTG	AGCCCAGGTC	TGACGCTGTC	TGTCCTGACT	CTAGGACACA
146341	CCCGGGTTCC	TGACATTAC	AGTGAACCTG	TGAGCTCTGG	AGCCAACGAG	AGACGTTATT
146401	GGCCAACGCA	CTGCCCTGGG	GCCGGGTCGC	TGGGGGGACC	CAGGTAGGAG	GCAGGGCTGG
146461	GGGAGCAGAA	AGGCAGGGAT	GGGGATGGAC	GTGGCTGATG	CTGTGACCTC	AGCCAGGACA
146521	GTCCCCGAGT	GGAGGAGGAG	GCTGGGCCCC	CCTAAGGCCG	CTCTTCCCCA	GCCTCCTGCC
146581	CCCCGGCCCCA	GGTCTTATCA	CCCTCACCCA	GCCCCGGCCT	CCCCTCTCGA	CCCCCAATCT
146641	GTTCCACCT	CCGTTGGAGG	AGGCTCCTGA	GGTGGGTGCC	CCTCTAGCCT	GCCTGCCCCCT
146701	GTCCAGGCCC	TGAGGGCTCC	AGAGGGGGGC	CGAGGCCTGG	GGGTCCCGAC	CTCCATGTGC
146761	CTCCCGTGTC	CCCCGCTGCA	GCCCCACACG	CACCCCACTG	TCCAGCCACA	CAGGCCGTCT
146821	GAGGCTGGGG	GCCCAGAGGC	AGACTGCCCC	AGATATGTGG	GCAGGGGTCA	GCGGGGCTCT
146881	CAGGACACCA	GCTGGGGGTG	AGGGGAGCAT	GGAGGGAGCG	TGGGACAGGC	TGAGCTGCCG
146941	AGGGAGCCAC	CCTGGAGCTC	TGGAGCCGGG	AGGCCTTGGG	AGACATCCCA	GGCTGGGTTC
147001	TGTCCCCCGA	TGTGGCAGGC	GTTGCACGCA	GGCTCGCTGT	GGCCTTGGGC	GAGGTGGCTT
147061	TCTGGGGAGG	GCAGTTCCCA	GGGAAGGAGG	GCCGAGCCCT	CGGCAGCCAA	CACTCGGGTG
147121	GCTTGGGACG	AAGGCCTCGG	TCCTGGTGGG	GCCTGGGCGA	CGCCCCCAGT	GCCCACCACG
147181	CAGGCCTATG	GTTGGTCAAG	GAGGTGGCCT	TCTCCTCCTA	CCCACTGTCT	CTACCTCAGC
147241	TTCCAGCAGG	TGCCAGTGC	TCACGCCGGC	CTCGAGCCTG	GA CTGGGGGC	TGCACCTGCC
147301	CCAACACTCT	CAATGTGTGG	CTGGGGAGTC	TGAGGCCAG	AGGCACCCAG	CCCATCCCCC
147361	CACAGAGCAG	GCCTCAGACC	TGCTGCCCTG	CTGTCTGGCC	GAGAGCACCA	CCCGGGGTGG
147421	AGCGGCCCGT	GAGCTGAGCC	CGGGTCATAA	GCCAGGCAGG	GGAGCAGGCT	TCCTGGGATC
147481	CGCCGACCCC	GTCCAGCTGC	TGCAGGGCCC	CATGCCTGCC	ACAGGATGCC	CCTGAGCCTG
147541	GGGCATGGCT	GTTGCCCTGC	AGGGGAGGCC	ATCTACTGGT	GCAGCTGTCC	TGCAGCTGGA
147601	CATGGCTTTG	AGATGACCTC	TGCAGGGTGG	GGTGCAGGGA	AAGGCCATCG	AAACCTGAGA
147661	CCCAACACAG	GGGAAGGTGG	GGGAAGGTGC	GGGGCCCAGC	TGCACAGCGG	GCTGGGACGC
147721	AGAGCCAGCC	TCCCACCCTG	GGCCTGTCCC	CTGATCTCCG	CCCAGTGTGG	ACTCCTTTTG
147781	GGCACAAGCTG	AGACCAACCC	AGCAGATAAG	CGGATTAGCA	TGGTGCATGC	CCCCAGGGTG
147841	CACAACCTGGC	TTTATCAGGG	CCCGGATGTT	GTCTCAGGTG	GAGCTGGGCA	GGCTTAGGTTG
147901	AGGTGGGTGT	TCCCAGGTCA	GATACGCTCT	GCCCAGCTCT	CACCCCTCAG	CCGGCGCAGG
147961	GCCAGGGGCC	TGGATCAGGG	GTTGCTCCA	GCTGCCTGCT	ATCTGGCTGC	CCGTGGCGGG
148021	CTCGGGGCAA	GGGTGTGCAG	GAGAGCCGGG	TCTTGGTGGC	TTTGTGCTCC	TACCCTGGGT
148081	TTCAAAGGCG	CTGCCTCCCT	TGTTCTTTGT	TCATTACAA	AATCCGTGAG	CGCCCCAGCA
148141	TGTGGGACAC	AGATGAAGGG	GCCGGGGGAG	GGTTGCCACT	GGGCCAGGGC	ACCGGGAGTG
148201	TCCCCACGTG	CCATTGCGCC	GAGTCCTTGG	CAGGGGGAAG	CCCTGCTCAG	AAACGGAGAA
148261	ACTGAGTCTT	GGGACATTTG	CTGTCTCGCT	CACTGTCAGA	GCCCCCTCCA	TCCCAAGACA
148321	GGCCTGGGCA	CCTGACAACC	GTGCAGGACC	GTGACATAAA	ATATGCCAGG	AAATCGGGTG
148381	GAGGAAACTC	AGACGTGAGG	GAATCAGGCT	GGCAGAGCCG	GGTGGGGAGA	GGGTGCTGGC
148441	ACAGGCAGGG	ACGCTCTAGG	TGCTGGTTTT	AGGGGCAGGG	CTGCCTGGGA	AGCCACCTGA
148501	GATGAGAGGG	AGAGAGGCCA	GGGGGACTTG	AAGAAGCCCA	GGGTGCTGGG	AGAACCTGGG
148561	GGCCAAGCAG	AGGAGGTGCC	TGGGGGCCAG	GCCAGGTGGG	CACAGACCCA	CAGCTACCCG
148621	GGCCCTCCTC	ATCTGCCCCA	CCCCAGAGCC	CACCTGCATC	CGCCACAGCT	GGCCTGGCTT
148681	TCTGCCCGAC	ACCTGCCAGG	TCAGGGGGCC	CCTGCTGGAA	GCCACACCCC	ACTCTGCCCA
148741	CCTCCCACCT	CCTCACTCCC	CCTGCCTGAG	CTCCTGCCAG	CCCTCACGGC	GCCCTCCTAA
148801	CCTCCACTCA	TCAGAGCCCT	GCCCTGTGCC	CCAGACTCGG	CTGGAGGCAC	CCCCAGGAAG
148861	CCCCCTGTGGG	AAGCAAGTCC	TGGTGTGCGT	CCTCACCCCA	CCCCCAGGG	AGCCACAGGC
148921	CCAGCTCCTG	GGTGTGTCCC	TCTGGGTGGG	GGCCTGGGGT	CACAGGCTGG	CCTGGAGCCA
148981	TGGAGACAGG	GGAGCTGCCT	GGCTGTGGGG	GAAAGGCAAA	CACCCTTTTG	TCTGTGGCCG
149041	CCTCTTCTGC	TCGGGGAAC	CTGGGGACAA	AGCCGGTGGG	CCAAGGAGCC	CCCGCTGTCT
149101	AGACAGCCCT	GCCCCACGAG	GCAGGCAGGG	GAGGGGGCGC	CCTGAGCAAA	CAAGCAGGTA
149161	CCAGGCGTCC	TGAGACTGCG	GGGCCAGGCC	AGGGTGGGCG	AGCGACGAGG	CCCGCGGGAG
149221	TGGGAGGGGG	CGCGGGATGC	TGTCCTTAGG	GACCCTGGGC	CCCAGCCGGG	GTTTCTCCCT
149281	GGTCTCTCTC	CTTCTTTTCT	GCTGGCCACC	ACCTCCAGGA	AGCCAGCTGG	ACCTGACCCT
149341	GCCTCCTGAG	GGCTCTAGGA	ACCCACCTCC	CAGGTCCAGC	CATGCACCAG	CCTGTCTCTG
149401	TGACCCTCAC	TGGCCTCAGG	GATCCCCCAG	TAAGGGGGCA	GCGGTGGGGA	CTCACCTGTG
149461	GGGCTTGAGT	GAGCCATGCC	CAAGACAAGA	GGCAGAGCCA	GGAGGTGCAG	GTGACGCTAT
149521	GGTCCCCAGC	TGCGTGGCGG	CTCTCTCCAG	GTGTGTGGGC	CTCCTGGTCC	CTTCGTGGTG
149581	TCTGGTGTCA	CCATGCACAG	CTCAGACCCC	TGCTGCAGTC	CCCAGGGATC	CACAGCCGCA
149641	CCTGCCCTTT	CCTCTTGCTT	CTCACTGCGC	CCCAGCCCCC	TGGCGGCTGC	TCACCAGCCT
149701	TCATGTCCTC	ACTGACGCCT	GCCCTGCACC	GGGACCACCC	TGTGTTCCCC	AGCTGTGCCC
149761	AGACCTGATG	GAAATTCTCA	GCAGCCCAGG	CCAGACCCAC	CTTCCCGCTC	TCCTGCCAGC
149821	TCTGAACGTT	GGGCCCCCTG	CACTGTTATT	CACATCTTAC	TCCATCAGTT	CCCAGCCCAG
149881	CCCCAGCCCC	TGCCCCTTCA	GATGCAAACC	CTGTGAGGGC	CAGAGCCTCC	CTGGTGTCTT

149941 CAC

Figure S3. DNA sequence of *HinfI* MUC2 PTS-TR2 fragment.

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1  GATTGGAGAC GTCTGTGGAC CAGGCTGGGC AGCTAACATC TCTTGCAGAG CCACCATGTA
61 TCCTGATGTT CCCATTGGAC AGCTTGGACA AACAGTGGTG TGTGATGTCT CTGTGGGGCT
121 GATATGCAAA AATGAAGACC AAAAGCCAGG TGGGGTCATC CCTATGGCCT TCTGCCTCAA
181 CTACGAGATC AACGTTCACT GCTGTGAGTG TGTCACCCAA CCCACCACCA TGACAACCAC
241 CACCACAGAG AACCCAATC CGACACCAAT CACCACCACC ACTACGGTGA CCCCACCCCC
301 AACACCCACC AGCACACAGA GTACAACACC AACACCCATC ACCACCACCA ATACGGTAAC
361 CCCAACCCCA ACCCCCCTG GCACACAGAC CCCAACCCCG ACACCCATCA CCACCACCAC
421 CACTATGGTG ACCCCAACCC CAACAATCAC CAGCACACAG ACCCAACCC CGACACCCAT
481 CACCACCACT ACGGTGACCC CAACCCCAAC ACCCACCAGC ACACAGAGAA CAACACCGAC
541 ATCCATCACC ACCACCACCA CGGTGACCCC AACCCCAACA CCCACCGGCA CACAGACCCC
601 AACCACGACA CCCATCACCA CCACCACCAC GGTGACCCCA ACCCAACAC CCACCGGCAC
661 ACAGACCCCA ACAACGACAC CCATCAGCAC CACCACCACG GTGACCCCAA CCCCACACCC
721 CACTGGAACA CAGACCCTAA CCCCACACCC CATCACCACC ACCACTACGG TGACCCCAAC
781 CCCTACACCC ACCGGCACAC AGACCCCAAC ATCGACACCC ATCACCACCA CCACTACGGT
841 GACCCCAACA CCAACACCCA CTGGCACACA GACCCCAACC CTGACACCCA TCACCACCAC
901 CACTACGGTG ACCCAACCC CAACACCCAC CGGCACACAG ACCCAACCA CGACACCCAT
961 CACCACCACC ACTACGGTGA CCCCACCCCC AACACCCACC GGCACAAAGA GTACAACCCC
1021 GACATCCATC ACCACCACCA CTATGGTGAC CCAACCCCA CCACCCACTG GCACACAGAC
1081 CCCAACACG ACACCCATCA CCACCACCAC TACGGTGACC CCAACCCCAA CACCCACCGG
1141 CACACAGACC CCAACCCCGA CACCCATCAC CACCACCACC ACGGTGACCC CAACCCCAAC
1201 ACCCACCAGG ACACAGACCC CAACATCGAC ACCCATCACC ACCAACACTA CGGTGACCCC
1261 AACCACAACA CCAACCGGCA CACCGAGTAC AACCTTGACA CCCATCACCA CCACCACTAC
1321 GGTGACCCCA ACCCAACAC CCACCGGCAC ACAGACCCCA ACATCGACAC CCATCAGCAC
1381 CACCATATG GTGACCCCAA CCCCACACCC CACCGGCACA CAGACCCCAA CCCCTACACC
1441 CATCTCCACC ACCACTACGG TGACCCCAAC CCAACACCC ACCGGCACAC AGACCCCAAC
1501 CCGCACACCC ATCACCACCA CCACCACGGT GACCCCAACC CCAACACCCA CCGGCACACA
1561 GACCCCAACA TCGACACCCA TCACCACCAC CACTACGGTG ACCCAACCC CAACACCCAC
1621 CGGCACACAG ACCCAACCA CGACACCCAT CACCACCAAC ACCACGGTGA CCCCACCCCC
1681 GACACCCACC GGCACACAGA CCCAACCCAC GGTACTCATC ACCACCACCA CTACGATGAC
1741 ACCAACCCCA ACACCCACCA GCACAAAGAG TACAACCGTG ACACCCATCA CCACCACCAC
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1981 AACATCGACA CCCATCACCA CCACCACTAC GGTGACCCCA ACCCTACAC CCACTGGCAC
2041 ACAGACCCCA ACATCGACAC CCATCAGCAC CACCACTACG GTGACCCCAA CAGCAACACC
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2521 CACACAGGCC CCAACCCCAA CAGCCATCAC CACCACCACT ACGGGGACCC CAACCCCAAC
2581 ACCCACCAGG ACACAGACCC CAACCACGAC ACCCATCACC ACCACCACTA CGGTGACACC
2641 AACCACAACA CCCACCGGCA CACAGTCCCC AACCCCAACA GCCATCACCA CCACCACTAC
2701 GGTGACCCCA ACCCAACAC CCACCGGCAC ACAGACCCCA ACCACGACAC CCATCACCAC
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2821 CATCACCACC ACCACCACGG TGACACCAAC CCAACACCC ACTGGCACAC AGACCCCAAC
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3001 CGGCACACAG ACCCAACAT CGACACCCAT CACCACCACC ACCACGGTGA CCCCACCCCC
3061 AACACCCACC GGCACACAGA CCCAACAAC GACACCCATC AGCACCACCA CCACGGTGAC
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3241 CACCACCACC ACGGTGACCC CAACCCCAAC ACCCACCAGG ACACAGACCC CAACATCGAC
3301 ACCCATCACC ACCACCACCA CGGTGACCCC AACCCCAACA CCCACCGGCA CACAGACCCC
3361 AACCACGACA CCCATCACCA CCACCACCAC GGTGACCCCA ACCCAACAC CCACCGGCAC
3421 ACAGACCCCA ACATCGACAC CCATCACCAC CACCACCACG GTGACCCCAA CCCCACACCC
3481 CACCGGCACA CAGACCCCAA CCCCAGACACC CATCACCACC ACCACCACGG TGACCCCAAC

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3541	CCCAACACCC	ACCGGCACAC	AGACCCCAAC	CCCGACACCC	ATCACCACCA	CCACCACGGT
3601	GACCCCAACC	CCAACACCCA	CCGGCACACA	GACCCCAACA	TCGACACCCA	TCACCACCAC
3661	CACTACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACCA	CGACACCCAT
3721	CACCACCACC	ACCACGGTGA	CCCCAACCCC	AACACCCACT	GGCACACAGA	GTACAACCCT
3781	GACACCCATC	ACCACCACCA	CCACGGTGAC	ACCAACCCCA	ACACCCACCG	GCACACAGAC
3841	CCCAACATCG	ACACCCATCA	CCACCATCAC	TACGGTGACC	CCAACCCCAA	CACCCACCGG
3901	CACACAGACC	CCAACCCCGA	CACCCATCTC	CACCACCACT	ACAGTGACCC	CAACCCCAAC
3961	ACCCACCGGC	ACACAGACCC	CAACCATGAC	ACCCATCACC	ACCACCACCA	CGGTGACCCC
4021	AACCCCAACA	CCCACCGGCA	CACAGACCCC	AACAACGACA	CCCATCAGCA	CCACCACCAC
4081	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA	ACATCGACAC	CCATCACCAC
4141	CACCACTACG	GTGACCCCAA	CCCCAACACC	CACCGGCACA	CAGACCCCAA	CCACGACACC
4201	CATCACCACC	ACCACCACGG	TGACCCCAAC	CCCAACACCC	ACCGGCACAC	AGAGTACAAC
4261	CCTGACACCC	ATCACCACCA	CCACCACGGT	GACACCAACC	CCAACACCCA	CCGGCACACA
4321	GACCCCAACC	CCGACACCCA	TCTCCACCAC	CACTACGGTG	ACCCCAACCC	CAACACCCAC
4381	CGGCACACAG	ACCCCAACCA	TGACACCCAT	CACCACCACC	ACCACGGTGA	CCCCAACCCC
4441	AACACCCACC	GGCACACAGA	CCCCAACAAAC	GACACCCATC	AGCACCACCA	CCACGGTGAC
4501	CCCAACCCCA	ACACCCACCG	GCACACAGAC	CCCAAGATCG	ACACCCATCA	CCACCACCAC
4561	TAAGGTGACC	CCAACCCCAA	CACCCACCGG	CACACAGACC	CCAACCCCGA	CACCCATCAC
4621	CACCACCACC	ACGGTGACCC	CAACCCCAAC	ACCCACTGGC	ACACAGGCCCC	CAACCCAGC
4681	AGCCATCACC	ACCACCAGTA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA	CACAGACCCC
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4801	ACAGAGTACA	ACCCTGACAC	CCATCACCAC	CACCACCACG	GTGACACCAA	CCCCAACACC
4861	CACCGGCACA	CAGACCCCAA	CATCGACACC	CATCACCACC	ACCACTACGG	TGACCCCAAC
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Figure S4. Genomic sequence for BAC RP13-870H17 (Vector sequence removed, 8804bp)

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143881	gtggcaaagg	atcacagccc	tgtggctgag	cacagcacgc	tcacgccgtg	cggtcggggg
143941	gtgccaaagtc	tccagggagc	tcgcaggact	gcgttccttc	cagaggctcc	aggggagggg
144001	tcacgtcctc	gcctcttccc	gctctggagg	ccgcgtctct	tccccggcgg	accgtcctct
144061	acctgcagag	ccatcggggag	cctctgtctct	ccccgactgc	ctccctctcc	tcccgctgtc
144121	tctgtctgcc	tgacctcttt	ctctgaccct	cttgcttctt	tcacaagagc	ccttgtgggt
144181	acttcggggc	catccagata	atccaggaca	acctccccac	ccaaggccca	tcactctgtc
144241	caccagggtcc	cttcccccat	ggctccaggg	tttagaatgc	gggcatctct	ggggccatca
144301	ttcaggctaa	tgctgtcagt	atattaaaaa	ctgcatttct	atatgctagc	aacaaactag
144361	tagaaaagag	catcaaaaaa	ctgctactgc	ctagaaaataa	atttaacaaa	atgtcccat
144421	gacctctaca	ctaaaaactg	caaagaattg	cagaaattca	aaaggaccaa	aatatgtgga
144481	gatgtattaa	tatagttgaa	gactcaatat	tgttaaaatg	tcattttcct	ccaaactgat
144541	cggtaaattc	aatcccaata	aaaaatccag	ttttttttgg	gtggacattg	acaagcgctt
144601	tctaaaaattt	atacggccat	ggaaaagacc	tgggatagcc	atgacgatct	tgacgaagca
144661	gaaaaaaaaca	tttccaagac	ttagaatgaa	gctcttagtc	gagacggagt	gacattgata
144721	taaacttaga	cattcagatt	aatgagacga	actgagagca	cagaaatagg	ctgtcacctg
144781	taccgggcaa	acacaccgag	gaaaaccaag	agtgccagtg	tgtgtgtgtg	tgtgtgtgtg
144841	tgtgtgtgtt	cacagggtta	tgtgtctgta	tgtgtatgta	tttgtaggct	tgtgtatgtg
144901	tttctgtgtt	tgtgtgtttg	caggggttcta	tatgtgtttg	catgtgtgtg	tatgcaggtt
144961	gtgagtatgt	gcttgcgtgt	ttgtgtgttt	gaatggttgc	atgtgtttgc	atgtgcgtgt
145021	gtttgcaggg	ttctgtgtgt	gcacatctgc	ttgtttgcat	gtgtgtttgc	agggttgtgt
145081	ctctgtttgc	atgtgtgtgt	gtttgtgtat	gtatttgcag	ggttgtgtgt	gtgtctgttt
145141	gcatgtgtgt	gtttgcagag	ttatgtatgt	gtgtttccat	gtttgtgtgt	ttgcaagggt
145201	ctgtgtgtgt	ttgcatgtat	gtgtatgcag	gtgtgtgtgg	gcttgtgtgt	ttgcatgggt
145261	gtgtgcgtgt	ttgtgtgtgt	gcttgcattgt	tgtgtgtgct	ttgtgtgtgt	gcttgcattg
145321	tgtgtgtgct	tgatgtgtgt	gtgcgcttgt	gtgtgtgtgt	ttgcatggta	cgtgtgtgtg
145381	cttgtgtgtg	tgtttgcatg	gtatgtgtgt	gtgcttgcac	agtgtgtgtg	tgcttgcatt
145441	gtgtgtgtgt	gctttgtgtg	tgtgcttaca	tgggtgtgtg	gtgctttgtg	tgtgtgcttg
145501	catggtgtgt	gtgtgtgttt	gcatgggtgtg	tatgtgcgtg	tgtgtgtgtt	tgcatggcat
145561	gtgtgtgtgc	ttgtgtgtgt	gtgcttgcac	ggtgtgtgtg	tgcctgtgtg	tgtgtgcttg
145621	cgtggtgtgt	gtgtgtttgc	atggcggtgtg	tgtgtgcttg	tgtgtgtgtg	cttgcattgg
145681	gtgtgtgtgt	ttgcatgggtg	tgtgtgtgct	tgcattggcg	gtgtgcttgt	gtgtgtgtgc
145741	ttgcatgggtg	tgtgtgtgtg	tttgcattgg	gtgtgtgctg	ttgtgtgtgt	gtgtttgcac
145801	ggtgtgtgtg	tgcttgcattg	gtgtgtgtgt	gcttgtgtgt	gtgtgtttgc	atgggtgtgtg
145861	tgcttgtgtg	tgtgtgtttg	catggtgtgt	gtgtgtttgt	gtgtgtgtgt	ttgcatggag
145921	tgtgtgtgtg	tttgcattgg	gtgtgtgtgt	ttgcatgggtg	tgtgtgctgt	tgtgtgtgtt
145981	gtttgcattg	agtgtgtgtg	tgtttgcattg	gtgtgtgtgt	gtggactgct	actgctgcca

146041 tgtcgctgca gttcaatggg tttgtgcgtt gtgatcacac ggtcctgccc acagagctga
146101 atgggctatt ggggtttcct tgggtgagtc ccaggctgtg tgtgggggtga gtgtggggcc
146161 tttcttgac cgtttagcct ggcacgcgtt gccctctctc tctctcccag gaccacattc
146221 aggtgccagg gcctttaatc ctgtgtccct tgcctactt actccctctc cccagactgt
146281 gggacaggca cctggggcgc actgtggggg ctctgagatg cagggtgggtg ggccaggcct
146341 gccgagggga ggtgaggcga gcagagccct ttgaggggtga tggagcttgg ctggcccat
146401 ggcccgaacc cacctggcct aggggcgttg ctcagagcag gtgcacacag ggcttattca
146461 cctgtgcatt cttcaaacag tccagggtgtg agtgtgaggc tgtgaacaca ccgggggtgt
146521 gtctgccagg tggggccctg gacgggggtg cccccagcac ctctgggttt ccagcccca
146581 aaagtgggtg tctctgggcc cacctgctcc tggagctggg ctgcactga ccctgggaag
146641 acagcctccc ctgggcattt tggggacgct gggcccagcc catgcctcgt ggctcagctt
146701 ccctcagcca atactttcga gacatgtatt tcgagacatc cctggagaca tggccagtat
146761 atttgtatth tatatgaacc cggaaggctg gacctgaaga ggccccctgg gtgagggggc
146821 caggctgagc tcgagttccc cagggcctcc agcaagaaag gcaccaatg cctccttaca
146881 ggaggagcag gcgcatgtcc acagaagatc tgaagaaagc ccatcaaat attcgtgggt
146941 gtcttctcaa gacgaggggg gcaattttcg ctttacattt tgttccaatt tttattgtt
147001 gtaaaaaaca cataacataa agttgacgtt ttttgccact gctgggtgca cagtgcagtg
147061 ctgttaggac attcacactg ccgtgcggcc cgcagagcca ccatctccag aacatcttcg
147121 tcttgagaa ctgaagctct gtcttggtta acaccaggtc cccactcccc gtgcccagcc
147181 cctgcccagc cctggcggcc accatctgct ttctgtgtgt gtggatttgg cggccccagc
147241 cgctgggtga gtggaaccac gtggcggttg cccttccgtg gatggcttgt ctctccaagc
147301 caatgtcctt ggatccgcct acactgccgc ctatgccagg gcctccttcc ttttgggggc
147361 tgcttggtgc tccccggcac aatgggcctc acctgtttt ccccagatt cgtggacaga
147421 caccaggctg cttccacctc ttggctgtgg tcaacaagac tgctgaccct gctttcaatt
147481 ctttgtgatt ttgcatgag aaaaatacct tttaaatgca cggtcagaat ttggtggacg
147541 acaccccacc ctgcatgagc atttgggtgga cggcccacc tgcgcatgca tttggtggac
147601 gcccaccct gcgtatgcat ttggtggatg acgcccacc ctgtgttgat gccctctgt
147661 cctcccagg gtcagagggt ctaacctgtg cccaatgcc ctggttggtc tgggcccctg
147721 gaaaccacag cgagggcagc acgctctggc tggctctctc cccgaggccg acccggtg

Figure S5. Complete MUC2 genomic sequence for Rp13-870H17. Genomic sequence for MUC2 showing locations for Exons and Introns. Detailed information about the missing region in NG-6867 (Underlined), HinfI restriction sites (marked in bold pink) used in NG-7351 and the Sanger sequencing Contig (Marked with start and stop (Blue)).

1	CAACCCACAC	CGCCCCTGCC	AGCCACCATG	GGGCTGCCAC	TAGCCCGCCT	GGCGGCTGTG
61	TGCCTGGCCC	TGTCTTTGGC	AGGGGGCTCG	GAGCTCCAGA	CAGgtgagag	agcagacaca
121	ggggtctggg	gcctggcaga	gtgtcctggg	ggcagggcga	ggcgggagg	caagtgcggt
181	ctgggaggag	gagctggtcc	cagagtgcag	cctgcgcggc	tctgctgagg	ctcctggccc
241	gggttgggtcc	ctggaagccc	ccggccctgc	tgactttcaa	ggagctggaa	ggtcggggct
301	cccctgctat	tcctttgggg	ttgactgccc	gacgacagt	tgggtcctgg	ggccagcacc
361	aggtggaaac	agcaggtcag	gccccagtga	actgggtcat	tgtccatagg	ggaggaaggg
421	gtggccagga	tcccaccaga	aggccccatt	ctcaggtggc	agagaccctt	gaagagttgg
481	ggcagcacag	cccttgctgg	ggagcgggg	gcccagaatg	ccctctccta	catcccgttt
541	ggcaccgagc	cgcactcctc	accaggccgg	gggtagaagc	cctgagacc	ctgtggtggg
601	gtgaccaagg	cccagcagag	ggcccagga	taggaaggaa	cctttcccgg	ccagggggccc
661	tgtgctgggc	tcgaagctgc	ttccaggtgc	ttcttcagg	gccttctctc	gagggtagct
721	tgggcagcct	tccccctccg	gggcccactc	cccctcattc	cccgtgctc	cctcagAGGG
781	CAGAACCCGA	AACCACGGCC	ACAACGTCTG	CAGCACCTGG	GGCAACTTCC	ACTACAAGAC
841	CTTCGACGGG	GACGTCTTCC	GCTTCCCCGG	CCTCTGCGAC	TACAACTTCC	CCTCCGACTG
901	CCGAGGCTCC	TACAAGGAAT	TTGCTGTGCA	CCTGAAGCGG	GGTCCGGGCC	AGGCTGAGGC
961	CCCCGCCGGG	GTGGAGTCCA	TCCTGCTGAC	CATCAAGGAT	GACACCATCT	ACCTCACCCG
1021	CCACCTGGCT	GTGCTTAACG	GGGCCGTgtg	agtgtggtcg	gtggcacccc	tcccacatcc
1081	tagcaacggg	ggctgatgtt	tcccaaagg	atattccttg	tagccctaga	agacccttc
1141	cgccccagca	cacagctcag	gagaacagcc	ttgaggtttg	ggttcaggtc	actaattcat
1201	tcaacaaaca	ctgatgagcc	cccaccattc	cccccatagg	caaggggttt	cagttatccc
1261	tttgccctgtg	tgtccctgac	agccccctcc	ctcggagccc	accaggctcc	ggacagactt
1321	ggcacccttg	gaggctgcat	gtctctggtc	ctgtgcatgg	agtggccgtg	tgtgccctcc
1381	ccaggctaga	gttacagaag	ccggtgacag	gggctgtggg	acccccctcc	ccatccccag
1441	ctattgctcc	cctattgtct	ccagaacaat	gaggccctgt	aagtgcgttc	ccatccagcg
1501	cctgcccctc	ttctgcctgg	ggatttagtt	tcctgcaagg	ggccccagca	tgggcatggg
1561	caggcggttg	gaggccctca	ggcatgggca	tgggcaggcg	ggtgggtaga	ggccctcagg
1621	cgtgggtgca	ggcaggtggg	tagaggccct	caggcatggg	catgggcggg	cgggtgggta
1681	gaggccatca	ggtgtgggag	tgggtgggtg	gtagaggcc	ctcaggcatg	ggcgcgggcg
1741	ggtgggtggg	tagaggccct	caggcggtgag	tgcgggcggg	tgggtggata	gaagccgtca
1801	ggcatgggtg	caggcggttg	ggtagaggtc	ctcagggtgtg	ggcatgggca	ggtgggtggg
1861	tagaggccgt	cagggtgtggg	cgcggtggg	tgggttagagg	ccctcaggca	tgggtgcggg
1921	cgggtgggtg	ggtagaggcc	ctcaggcggtg	ggcgcggttg	ggtggataga	ggcgtcagg
1981	cgtaggtgag	ggcggtggg	tagaggctct	cagggtgtggg	cgcaggtggg	tgggtgggta
2041	gaggccctca	ggcatggcac	aggtgggtgg	gtagaggccc	tcaggcatgg	gcgcaggcgg
2101	gtgggtgggt	agggggccctc	aggcatgggt	gttggcaggt	gggtgggtag	aggctttcag
2161	gcatgggcag	gcaggtagag	gcccttgagg	accgaggcac	agaggctggg	gtgagtgcct
2221	ctacctggac	cagcaagggg	cactggcagg	aggtggggta	gggcccctga	cagtctcagg
2281	ggcagcctgg	ggggctctgg	ggggtttggg	accccatggg	gggatgttcc	accaagcagg
2341	gggcctggaa	gggggctggg	cagcctggtc	ctccctcctc	tcccaacctg	gtgccctcag
2401	ggcctctgag	gggggaccct	gcccaggacc	gtgccccgag	gagggagtgg	agaggagggg
2461	cgtgcaggca	ggaggtggct	ctgccgggga	agcccggcca	gcggagatgg	acaggtgctc
2521	tttggccact	gcctatgtcc	ctccacccca	gaggccggcc	aagttggtga	ccccagggca
2581	ggagctgggc	ctggcagagc	catctccacc	accccaggcg	cccagcttca	gtcccctctg
2641	ggcggcgggg	tcccgggagg	acaagctggg	gcgggggggc	ctgggtggtg	gacccaagag
2701	tgaccccgat	gtgcctccgc	cagGGTCAGC	ACCCGCACT	ACAGCCCCGG	GCTGCTCATT
2761	GAGAAGAGCG	ATGCCTACAC	CAAAGTCTAC	TCCCGCGCCG	GCCTCACCCCT	CATGTGGAAC
2821	CGGGAGGATG	CACTCATGgt	gtcaggggt	ccccggactc	gtggggctgg	tgggggctcc
2881	gtcaggcctc	tgggcagacc	ccaagggagg	gcagggaggg	cagtgtctctg	acccctcacc
2941	gagagggcat	gggtggggca	gggcctcggc	agcgcggggc	gtcgggtgctg	gacttggggg
3001	gcagcagcag	aagccgacct	ggccctgacc	ccccaggcc	tcagccttcc	cccaaacgca
3061	ctcggtctct	cagggacctg	ccctgccagg	ccgtcccttg	gctgctgacc	ccagccttcc
3121	tgccccacct	tcctctggct	caaacaagcc	acgagtcttg	ggggttctctg	gcggctgtgg
3181	gccgggcggg	aggccagctc	acctgtctcc	tcccgaaca	gCTGGAGCTG	GACATTAAGT
3241	TCCGGAACCA	CACCTGTGGC	CTCTGCGGGG	ACTACAACGG	CCTGCAGAGC	TATTCAGAAAT
3301	TCCTCTCTGA	CGgtgaggcc	cggagggctt	ggagggggca	gggtaggcta	cgggccccca
3361	ggagccctag	ctgaagggcc	gtgcatcccc	agGCGTGCTC	TTCAGTCCCC	TGGAGTTTGG
3421	GAACATGCAG	AAGATCAACC	AGCCCGATGT	GGTGTGTGAG	GATCCCGAGG	AGGAGGTGGC
3481	CCCCGCATCC	TGCTCCGAGC	ACgtgagctc	cctcggtctg	gggtgggggt	cctggcgagg
3541	ctggcctctg	aatagcatgc	tcaccctgcg	tctgtcccca	gCGCGCCGAG	TGTGAGAGGC
3601	TGCTGACCGC	CGAGGCCTTC	GCGGACTGTC	AGGACCTGGT	GCCGCTGGAG	CCGTATCTGC
3661	GCGCCTGCCA	GCAGGACCGC	TGCCGGTGCC	CGGGCGGTGA	CACCTGCGTC	TGCAGCACCG

Exon 1

Exon 2

Exon 3

Exon 4

Exon 5

Exon 6

3721	TGGCCGAGTT	CTCCCGCCAG	TGCTCCCACG	CCGGCGGCCG	GCCCGGGAAC	TGGAGGACCG
3781	CCACGCTCTG	CCgtaagccc	cggcgccttg	tgggcagggg	accccagggg	gaccccacgc
3841	tggtgctttc	cccaagcccc	ggtgggagct	gtgtctgcgc	cgggcacctt	gagctggggg
3901	gacactcacc	gcaccgggca	ccttgagctg	ggggaacact	caccgtgccg	ggcaccggga
3961	gctgggggga	cactcaccgt	gccgggcacc	ttgagctggg	gggacactca	ccgtgtctgg
4021	cactggggagc	tggggggaca	ctcactgagg	gcaccgggag	ctggggggac	actcaccgtg
4081	acgggcaccg	ggagctgggg	ggacactcac	cacgggcacc	gggagctggg	gggacactca
4141	ccacgggcac	cgggagctgg	ggggacactc	accgcaccgg	gcaccttgag	ctggggggaac
4201	actcaccgtg	ccgggcaccg	ggagctgggg	ggacactcac	cgtgccgggc	accttgagct
4261	gggggggacac	tcaccgtgcc	gggcaccggg	agctgggggg	acactcactg	agggcaccgg
4321	gagctggggg	gacactcact	gtgacgggca	ccgggagctg	gggggacact	caccacgggc
4381	accgggagct	gggggggacac	tcaccacggg	caccgggagc	tggggggaca	ctcaccacgg
4441	gcaccgggag	ctgggggggac	actcaccacg	ggcaccggga	gctgggggga	cactcactga
4501	gggcaccggg	agctgggggg	acactcaccg	cgccgggcac	tgggagctgg	ggggacactc
4561	actgagggca	ccgggagctg	gggggacact	caccgcgccg	ggcactggga	gctgggggga
4621	cactcactga	gggcaccggg	agctgggggg	acactcacca	cgccgggcac	cgggagctgg
4681	ggggacactc	accgtgggct	gagagccctt	ctcgggtgcac	ttcggggtgg	agcggctgct
4741	gtgccccagc	ctcaccctca	ctgcgtggcc	tctgcggttc	cagCCAAGAC	CTGCCCCGGG
4801	AACCTGGTGT	ACCTGGAGAG	CGGCTCGCCC	TGCATGGACA	CCTGCTCACA	CCTGGAGGTG
4861	AGCAGCCTGT	GCGAGGAGCA	CCGCATGGAC	GGCTGTTTCT	GCCCAGAAAG	tgcgtgtgga
4921	ggatggcccc	gccccggcac	tgcccaccag	atgagaggca	gccctggcct	ggggttctcg
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5161	cctgcccggc	ccctggcctg	gtgcctgagg	cctttgggag	cagctcgatt	gtcaggggca
5221	ggaaggtggc	ctggaggctg	gacccccatg	gccagacccc	aaccagggga	ccaggtgggg
5281	accgcaggcg	tcagcacagg	ggaccagtgg	tgcttgccgg	tgggaggcct	ggctggcagc
5341	ccctcgggtg	ggatttctgg	tctttctgag	ccagccgggg	tgacatcgcc	tccctggctg
5401	tcccagGCAC	CGTATATGAC	GACATCGGGG	ACAGTGGCTG	CGTTCCTGTG	AGCCAGTGCC
5461	ACTGCAGGCT	GCACGGACAC	CTGTACACAC	CGGGCCAGGA	GATCACCAAT	GACTGCGAGC
5521	AGTGgtgagt	cccggggcca	gggctgggca	cagcagaggc	tggggcggct	gagccctgac
5581	cctgtgcccc	gctgcccac	agTGTCTGTA	ACGCTGGCCG	CTGGGTGTGC	AAAGACCTGC
5641	CCTGCCCCGG	CACCTGTGCC	CTGGAAGGCG	GCTCCCACAT	CACCACCTTC	GATGGGAAGA
5701	CGTACACCTT	CCACGGGGAC	TGCTACTATG	TCCTGGCCAA	Ggtaggctgc	ccagggctctg
5761	gggcatgggg	cagagctggg	gctggcatcc	aggcccttgg	ctgtcccggg	gtgggtgggc
5821	tggctgtccc	tgaagcagag	ggtgcctgtg	ggctgtcctg	gggcaggtga	ccatgcttct
5881	gctctctggc	tggagaataa	gaagcaggcc	ttcctttcta	agccactgcc	gggtcctagg
5941	gtgcagggtg	ctgcccgtcc	cggccctcag	cagctgcact	gcctcttgcc	ccatcacagG
6001	GTGACCACAA	CGATTCTTAC	GCTCTCTTGG	GCGAGCTGGC	CCCCTGTGGC	TCCACAGACA
6061	AGCAGACCTG	CCTGAAGACG	GTGGTGCTGC	TGGCTGACAA	GAAGAAGAAT	gtgagtggtc
6121	ctgccccctc	cttctggagc	cccaggctcc	ccgagggggg	cccttctcag	ccctgagcaa
6181	cctcggcctt	ccctgcagGT	GGTGGTCTTC	AAGTCCGATG	GcAGTGTACT	GCTCAACGAG
6241	CTGCAGGTGA	ACCTGCCCCA	CGTGACCGgt	gagttgtgcc	ccagggaggg	gccccggccc
6301	ttcagactcc	actgggcctg	cagtgatctg	gacagtccag	ccacctcgga	cccaggaggc
6361	tgggtgggaa	ggttccacgg	ggggagggtc	cctgcggcac	ccagcaggct	ccgtcctggg
6421	tcctctgctg	gaggggggtg	tgggaggggtg	acaccctccc	gctgctcacc	tgggccaggc
6481	aggtcccggg	agccccgccc	ctcgccatgc	cccttactgt	gtccctcatc	gtgcccctgc
6541	ccacagCGAG	CTTCTCTGTC	TTCCGCCCGT	CTTCCTACCA	CATCATGGTG	AGCATGGCCA
6601	TTGGCGTCCG	GCTGCAGGTG	CAGCTGGCCC	CAGTCATGCA	ACTCTTTGTG	AACTGGACC
6661	AGGCCTCCCA	GGGGCAGGTG	CAGGgtaagt	ggccccaccg	gggttgcccc	aacaaaggcc
6721	cacagggggg	cctgctagcc	ccagactcct	cccaaccctg	tcctggcccc	tcagGCTCT
6781	GCGGGAACCT	CAACGGCCTG	GAAGGTGACG	ACTTCAAGAC	GGCCAGCGGG	CTGGTGGAGG
6841	CCACGGGGGC	CGGCTTTGCC	AACACCTGGA	AGGCACAGTC	AAGCTGCCAT	GACAAGCTGG
6901	ACTGGTTGGA	CGATCCCTGC	TCCCTGAACA	TCGAGAGCGg	tgaggctcgg	caacacgggc
6961	gccccacct	agcgtgccta	gggtaccggg	cccatggcct	ggaagggcag	acggggctcc
7021	cagcaggaag	catgggtggg	gaggggcaga	agtgaggtgg	ctctcctcca	ggggcagccc
7081	ggccccctgct	gcttcctgct	gtggctagtt	tatggcggcc	atggtggcag	cctgccaggt
7141	gacctggaag	agggcctggg	ctggtcccta	cctgccccgt	catgtccagg	atgctggggc
7201	cttgggggtg	agagacggga	ggtggtgggt	gccctgcagg	ggtttctatc	tagccaggag
7261	ctgcttgaaa	atttgactca	cggggaggaa	ggggcctggg	catcggtgca	cagagggaac
7321	catatctggg	gcctatggcag	ccaggcagca	ggggccaggg	gatctcacgg	gggtcccggg
7381	ccccgctgaa	gttccgatcc	cccactcccc	agCCAATACT	GCCGAGCACT	GGTGCTCCCT
7441	CCTGAAGAAG	ACAGAGACCC	CCTTTGGCAG	GTGCCACTCG	GCTGTGGACC	CTGCTGAGTA
7501	TTACAAGgtg	ggtgggaccc	acacccccag	gcccccatgc	catcgagggtg	gactcagggc

Exon 7

Exon 8

Exon 9

Exon 10

Exon 11

Exon 12

Exon 13

Exon 14

7561	acccccagcc	ccccatgcc	cccgtgaggt	ggactcagag	cacccggttg	ggcccactgg
7621	ttgctgtgtg	tgcgtgtgag	cttgcacatg	tgagcgccgg	gccacactct	gcctccctgc
7681	ctcactgccc	gtccacattg	ctctgtcgcc	cagAGGTGCA	AATATGACAC	GTGTAAGTGT
7741	CAGAACAAATG	AGGACTGCCT	GTGCGCCGCC	CTGTCCTCCT	ACGCGCGCGC	CTGCACCGCC
7801	AAGGGCGTCA	TGCTGTGGGG	CTGGCGGGAG	CATGTCTGCA	gtgagtgccg	tccccgtggg
7861	ctgcatcctg	gggatggggg	ccgggctttg	agctcctggg	acggggctgg	gggccctgag
7921	cacgggtggt	ccaggagag	gggtcggccc	cctgcagcca	cggaccaggc	tccagcttcg
7981	tcagccggtg	gtagcaggaa	accagcaact	cctatagcaa	ggggcggcca	cgtagcaggg
8041	gcagaacctg	gggtgggcct	ggagctgtgg	cggccgagtg	tgggagtggg	tcccagagtg
8101	tgcactccct	ggccccctgg	ccaccctggg	gatgggagct	gggcgtctgg	ctcttcccgt
8161	ccctcacacc	accccggtgg	cctctgcagA	CAAGGATGTG	GGCTCCTGCC	CCAAGTGGCA
8221	GGTCTTCCTG	TACAACCTGA	CCACCTGCCA	GCAGACCTGC	CGCTCCCTCT	CCGAGGCCGA
8281	CAGCCACTGT	CTCGAGGGCT	TTGCGCCTGT	GGACGGCTGC	GGCTGCCCTG	ACCACACCTT
8341	CCTGGACGAG	AAGGGCCGCT	GCGTACCCCT	GGCCAAGTGC	TCCTGTTACC	ACCGCGGTCT
8401	CTACCTGGAG	GCGGGGGATG	TGGTCGTGAG	GCAGGAAGAA	CGATGgtggg	tacctgctcg
8461	ggggtcaggt	gtggcgtggg	ggcgggggag	ctccttctga	acctgcccc	agcggagacc
8521	tgggagtctc	tacctgggga	agctgagaca	cccaaggctg	aggggtgcct	ggggtggggg
8581	gcgctgagag	gcatcaggct	cacatctgcg	gggaagctgc	gggctgtctg	tggccgtcct
8641	gcatgggccc	cgctcatccc	tggccttttc	cacagTGTGT	GCCGGGATGG	GCGGCTGCAC
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8881	AAGATCCACA	TGGACTGCAG	CAACCTGACT	GCACTGGCCA	CCTCGAAGCC	CCGAGCCCTC
8941	AGCTGCCAGA	CGCTGGCCGC	CGGCTATgtg	cgtgttgggg	gcgctgctgt	gggaggggcag
9001	ggattccttg	ctggctgagc	ctggctcttg	tgctgtgccc	ccgctagggt	ctgggtgccc
9061	agtccctgag	acgcaggccc	tggtgatgct	gtccctggcc	ctgggaggga	agtggcagcc
9121	tgtgagccac	cggggcacag	gggccagtg	agggcccttg	gccggcagcc	ctcaccagtc
9181	tactgccct	gtggcggggc	caaggggag	gaagcctgag	cccaggccag	ggggagtggg
9241	gggaggtctg	ggacatgaca	gagactgcac	ggtcaggcct	ttcctggttg	cacatccaat
9301	cctgaccca	gggagggctg	cagcctcacc	tgtccacccc	tgaacccac	tctctggctg
9361	tccccagTAC	CACACAGAGT	GTGTGAGTGG	CTGTGTGTGC	CCCGACGGGC	TGATGGATGA
9421	CGGCCGGGGT	GGCTGCGTGG	TGGAGAAGGA	ATGCCCTTGC	GTCCATAACA	ACGACCTGTA
9481	TTCTTCCGGC	GCCAAGATCA	AGGTGGACTG	CAATACCTGg	taagctggcc	cggcctgtcc
9541	tggctgcctc	ccaggcccca	cgtgctccgc	aggggtggcc	actggagagc	ggtccaaggg
9601	gcaagtgcct	ctcctggggg	ttccgcctgg	gtcttgcgag	atcctgtggt	ggccccgtgc
9661	ccacgggcag	ggtggtctct	catgtcaact	gctggtcttg	aagccatggg	agaagggaca
9721	tttgagacca	cttttggggc	ctgcaggtgt	cctgtgtggg	aggcacaggg	agctgtctgc
9781	acggtgcccc	gggtctcctc	cagccaccca	tgagcaggtc	ctgggtccct	tcaggctcct
9841	ctcctgtcct	cctcagCACC	TGCAAGAGAG	GACGCTGGGT	GTGCACCCAG	GCTGTGTGCC
9901	ATGGCACCTG	CTCCATTTAC	GGGAGTGGCC	ACTACATCAC	CTTTGATGGG	AAGTACTACG
9961	ACTTTGACGG	ACACTGCTCC	TACGTGGCTG	TTCAGgtgtg	gtcacgggca	ctgcctggtc
10021	gggctgctta	tggtcaggga	ccctctgcct	gccccaaagt	cagtgcctag	ctccccgaga
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10261	tctcctcttg	gtcctcctct	gggtcctccc	tctctggat	cctccctcct	ctggatcctc
10321	cctcctcttg	gtcctcctc	ctctgggtcc	tccctcctct	gggtcctcct	ccaggtcctc
10381	ctctgggtcc	tccctcctct	gggtcctcct	ctgggtcctc	ctctgagtcc	tctctgtggg
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10561	tccttctctg	ggtgcacaag	gtgggtgcac	cagccatggg	gactgagggc	acctgtttgg
10621	ggagctgagt	aaaggccagg	gctaggccgc	tgccgcgcgc	gctctccaga	tccaaatccc
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10801	tggggcgggt	gtgccccggg	acacctgggg	tccagctgtc	ctggctgacc	ttgccctcct
10861	ggccccagG	ACTACTGCGG	CCAGAAGTCC	TCACTGGGCT	CATTGAGCAT	CATCAGCGAG
10921	AACGTCCCCT	GTGGCACTAC	GGGCGTACC	TGCTCCAAGG	CCATCAAGAT	CTTCATGGGG
10981	gtgagtgtct	ctggccctgg	ggacgcgtga	gccctgcggg	acccctagac	cagccagtga
11041	ctgggcctct	cctccgggca	gAGGACGGAG	CTGAAGTTGG	AAGACAAGCA	CCGTGTGGTG
11101	ATCCAGCGTG	ATGAGGGTCA	CCACGTGGCC	TACACCACGC	GGGAGGTGGG	CCAGTACCTG
11161	GTGGTGGAGT	CCAGCAGGGG	CATCATCGTC	ATCTGGGACA	AGAGGACCAC	CGTGTTCATC
11221	AAGCTGGCTC	CCTCCTACAA	Ggtgggctgc	ctccctgcct	gccctgcccc	ctcctggcca
11281	gccccccacc	ccctgccctg	gtgtttgcag	gacaagcccc	tgtcctccct	ccagccctt
11341	tttgagagccc	ctgtgatgct	tgtctcttgc	agGGCACCGT	GTGTGGCCTG	TGTGGGAAGT

Exon 15

Exon 16

Exon 17

Exon 18

Exon 19

Exon 20

Exon 21

Exon 22

Exon 23

11401	TTGACCACCG	CTCCAACAAC	GACTTCACCA	CGCGGGACCA	CATGGTGGTG	AGCAGCGAGC
11461	TGGACTTCGG	GAACAGCTGG	AAGGAGGCC	CCACCTGCCC	AGATGTGAGC	ACCAACCCCG
11521	AGCCCTGCAG	CCTGAACCCG	CACCGCCGCT	CCTGGGCCGA	GAAGCAGTGC	AGCATCCTCA
11581	AAAGCAGCGT	GTTCAGCATC	TGCCACAGCA	AGgtgggctg	gccggggccat	ggtggggcaa
11641	gtaggcagag	gagggctgta	ggtgggctgt	gactgtgggc	tggggccatg	ggcggggccg
11701	actaagcaga	gcagggctgt	aggtgggcta	tagctgtggg	cggggccatg	ggcggggccg
11761	actaagcaga	gcagggctgt	aggtggacta	tagctgtggg	cggggcatgg	cggggctaac
11821	taggcagagc	agggctgtag	gtgggctata	gctgtgggcg	gggccaatgg	cggggccgac
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12061	ttctccacat	gctccccaca	ccttcaggag	tcgccctgct	gcgtcacgca	ccacacggcg
12121	cttgtcctcc	agctttggct	ctggccgctg	cctcctttgg	tcacatgacc	gtataatcgg
12181	cctccccctc	gagaccctgg	gctggacccc	cggcctccct	ctgcctcccc	aggctcagat
12241	attcaccg	agggagaaa	gacatgtgtc	ccccatgcc	acacatcccc	agctacaggc
12301	agctggggag	gacgggttct	aggatggcca	tgttacagct	gaggatgcag	aggggttggg
12361	tgatgggtct	gcacagccac	ggcgggacag	gtgtctctgg	accctctccc	caaggttggc
12421	cctgccgggg	ccctggctgg	ctgggtgctg	gtaatgtgcc	ctgtcccagg	agcaggggcg
12481	gcctcagggt	cctgagctcc	agggcactgg	ggaagtccct	gctccatgag	ggcaggacgg
12541	gcccaggaca	gaccagggtg	ttctccccag	GTGGACCCCA	AGCCCTTCTA	CGAGGCCTGT
12601	GTGCACGACT	CGTGCTCCTG	TGACACGGGT	GGGGACTGTG	AGTGCTTCTG	CTCTGCCGTG
12661	GCCTCTACG	CCCAGGAGTG	TACCAAAGAG	GGGGCCTGCG	TGTTCTGGAG	GACGCCGGAC
12721	CTGTGCCgta	agagcctgcc	cgaactgcac	tcaggggccgg	gacgggggct	gggaggtgct
12781	gtattgcggg	ccggggtgac	actccttgct	catccagggt	atgggtgtgc	atcaccacc
12841	ctttccccga	cttctccagt	gtccttcttt	ggggccctgt	gggaccggg	ttggcagagc
12901	aagcttgatg	cgtctgcgtc	ccagcccccg	accccagatt	cgccctcacc	ccggcccagg
12961	cctgagccct	cctgcgtctg	accctggccc	tgtctcccc	aagCCATATT	CTGCGACTAC
13021	TACAACCCTC	CGCATGAGTG	TGAGTGGCAC	TATGAGCCAT	GTGGGAACCG	GAGCTTCGAG
13081	ACCTGCAGGA	CCATCAACGG	CATCCACTCC	AACATCTCCG	TGTCCTACCT	GGAGGgtgag
13141	caggggtggg	cgggcttcag	cgggggtgat	ggccgagggg	cctggaggct	gagtggggca
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13261	ggctacggcc	gacgggcctg	gcactgtggg	gctgaaggct	gatgtctgga	gacccatggg
13321	gacaccggga	gggaggcctg	accctcaggg	taccacagc	ccagggcagc	caggctcccc
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13681	tgggggtggg	agatccaggc	cctgcctttc	caatccccgg	ccttcccaga	ggggcatcct
13741	gcagagaagg	gcctgccagg	gtagggacgg	tgggtggggg	gtggtggact	gcggtgggtc
13801	caaccctatg	ccctgtgtcc	accagGCTGC	TACCCCGGT	GCCCCAAGGA	CAGGCCCATC
13861	TATGAGGAGG	ATCTGAAGAA	GTGTGTCACT	GCAGACAAGT	GTGGCTGCTA	TGTCGAGGAC
13921	ACCCACTACC	CACCTGGAGC	ATCGGTTCCC	ACCGAGGAGA	CCTGCAAGTC	CTGgtaccta
13981	agcccacgtg	gcagggggcc	tgggggagct	gcacatatgg	gcacatgagt	acacacacac
14041	gtgtgagcac	acagtgtaca	cagtacacag	acacacaacc	gttccacatg	ggtgcacatg
14101	cacacaaacg	cacacagcat	accacgtgca	cacacacggt	cacatgcatt	catggtgcac
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14221	cacacatgga	cacatgccta	gacgcagata	cccaggcata	cactcacggt	tacacactca
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14401	gcatggatgc	agacacgcag	gcgcacacac	acatgcacag	tgcacacgta	cacatgccta
14461	gacacagata	cccaggcaca	cacagtcaca	catgcatgga	cacagagtca	catgtgcaca
14521	catacacacg	tgtggacaga	cataggcaca	gtcacgtgca	cacatgcact	cacactcagt
14581	cacacatgaa	catgtgtcta	catgcatgga	cactgacacg	caaggacaca	cagtacacaca
14641	tgcacacatg	catagacaca	gacacccagg	cacacacagt	tacacagtca	cacatgcatt
14701	gatgcagaca	cgcagtcaca	cagtcacaca	tgcacacact	gcacacatgt	acacatgcct
14761	agacacagat	atgcaggcac	acacacatag	tcaaacatgc	acacatgcat	ggacacaaag
14821	tcacacgtgc	acacatgcac	acatgcatgg	acagacacag	gcacacacag	tcacgtgcac
14881	agatgcactc	acagtcacac	atgaacacat	gtcacatgc	ccagacactg	acagcaggc
14941	acacacagtc	acacatgtac	acgtgcctag	acacagatac	ccagacacac	acaattacac
15001	agtcgcacag	tcacacatgc	atggatgcag	acacacaggt	acacaaggct	acacagtcac
15061	ataatgcaca	catgcacaca	tgcatagata	cagacaccca	ggtacacact	cacggtgaca
15121	cagtcacaca	tgcacacatg	catggaggca	gacacacaag	cacacacagt	cacacagtca
15181	cacatgcaca	caggagccag	gctacagagg	taccagtccc	tcactgcggc	ggggggtctt

Exon 23

Exon 24

Exon 25

Exon 26

Sanger seq.
Contig Start



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15241 ctgttctcat cccatcctct gggctctggct ttttccttcc tctcctcgcc cctgctctgt
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15421 tgtcagtgga gtgggacttg tagccatgtg cttgctttgc agCGTGTGTA CCAACTCCTC
15481 CCAAGTCGTC TGCAGGCCGG AGGAAGgtaa gctgccctct gctgccagcc ctgcggtggc
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15901 cccccagGAA AGATTCTTAA CCAGACCCAG GATGGCGCCT TCTGCTACTG GGAGATCTGT
15961 GGCCCCAACG GGACGGTGGA GAAGCACTTC AACATCTGTT CCATTACGAC ACGCCCGTCC
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16081 ACCACCACCA CCACCCCGAC CTCCAGCACA Ggtaaggccc cctgggtccc tccatgcttc
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16261 gtggcattcc tctgcactga ggtgtgaggg ggcctgccct ggctcccctg gcctggtgca
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16501 tagccacaga aaaaagaaac tttttttaa aaaggcaaga ttttaaaaga tcttgaacta
16561 tataatgata tcctcttttc ttcctgcttt attgcagTTT TATCAACAAC TCCGAgtaag
16621 tgacggtgat gatattcatg atgacaagca ggggtgggagg agcgaagtct tataaaatca
16681 cctgcaggat gcttccttca gggccagat gtgaggctgg cggggctgga ctcctctgct
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17221 GGTCTGACTG GATCAATGAG GACCACCCCA GCAGTGGCAG CGACGACGGT GACCGAGAAA
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17461 GTGTCAATTG TTGCTGGCCC ATGGATAAGT GTATCACCAC TCCCAGCCCT CCAACTACCA
17521 CTCCCAGCCC TCCACCAACC AGCACGACCA CCCTTCCACC AACCACCACC CCCAGCCCTC
17581 CAACCACCAC CACAACCACC CCTCCACCAA CCACCACCC CAGCCCTCCA ATAACCACCA
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17761 GCCCTCCAAC AACCACCACA ACCACCCCTC CACCAACCAC CACTCCAGC CCTCCAACGA
17821 CTACGCCCAT CACTCCACCA GCCAGCACTA CCACCTTCC ACCAACCACC ACTCCCAGCC
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18001 CACCAACCAC CACAACCACC CCTCCACCAA CCACCACTCC CAGCCCTCCA ACAACCACCA
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18121 CAACAACGAC CACAACCACC CCTCCACCAA CCACCACTCC CAGCCCTCCA ACGACTACAC
18181 CCATCACTCC ACCAACCAGC ACTACCACCC TTCCACCAAC CACCACTCCC AGCCCTCCAC
18241 CAACCACCAC AACCACCCCT CCACCAACCA CCACTCCAG CCCTCCAACA ACCACCACTC
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18361 TAACCCTCAC TCCCAGCCCT CCAACAACCA CCATGACCAC CCCTTACCA ACCAACCC
18421 CCAGCTCTCC AATAACCACC ACAACCACCC CTTCCTCAAC TACCACTCCC AGCCTCCAC
18481 CAACCACCAT GACCACCCCT TCACCAACCA CCACTCCAG CCCTCCAACA ACCACCACTC
18541 CCACCTTCC ACCAACCACC ACTTCCAGCC CTCTAACAAC TACTCCTCTA CCTCATCAA
18601 TAACTCTCC TACATTTTCA CATTCTCAA CGACAACCC TACTACCCA TGCGTGCCTC
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18721 ACACAGAATT GATTGGAGAC GTCTGTGGAC CAGGCTGGGC AGCTAACATC TCTTGACAG
18781 CCACCATGTA TCCTGATGTT CCCATTGGAC AGCTTGGACA AACAGTGGTG TGTGATGTCT
18841 CTGTGGGGCT GATATGCAA AATGAAGACC AAAAGCCAGG TGGGGTCATC CCTATGGCCT
18901 TCTGCCTCAA CTACGAGATC AACGTTTCA GCTGTGAGTG TGTACCCAA CCCACCACCA
18961 TGACAACCAC CACCACAGAG AACCCAACCT CGACACCAAT CACCACCACC ACTACGGTGA
19021 CCCCACCCC AACACCACC AGCACACAGA GTACAACACC AACACCCATC ACCACCACCA

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Exon 27

Exon 28

Exon 29

Exon 30

CysD coding
region

TR1

Hifi site

CysD coding
region

Sanger seq.
Contig Stop

19081	ATACGGTAAC	CCCAACCCCA	ACCCCCACTG	GCACACAGAC	CCCAACCCCG	ACACCCATCA
19141	CCACCACCAC	CACTATGGTG	ACCCCAACCC	CAACAATCAC	CAGCACACAG	ACCCCAACCC
19201	CGACACCCAT	CACCACCACT	ACGGTGACCC	CAACCCCAAC	ACCCACCAGC	ACACAGAGAA
19261	CAACACCGAC	ATCCATCACC	ACCACCACCA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA
19321	CACAGACCCC	AACCACGACA	CCCATCACCA	CCACCACCAC	GGTGACCCCA	ACCCCAACAC
19381	CCACCGGCAC	ACAGACCCCA	ACAACGACAC	CCATCAGCAC	CACCACCACG	GTGACCCCAA
19441	CCCCAACACC	CACTGGAACA	CAGACCCTAA	CCCCAACACC	CATCACCACC	ACCACTACGG
19501	TGACCCCAAC	CCCTACACCC	ACCGGCACAC	AGACCCCAAC	ATCGACACCC	ATCACCACCA
19561	CCACTACGGT	GACCCCAACA	CCAACACCCA	CTGGCACACA	GACCCCAACC	CTGACACCCA
19621	TCACCACCAC	CACTACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACCA
19681	CGACACCCAT	CACCACCACC	ACTACGGTGA	CCCCAACCCC	AACACCCACC	GGCACAAAGA
19741	GTACAACCCC	GACATCCATC	ACCACCACCA	CTATGGTGAC	CCCAACCCCA	CCACCCACTG
19801	GCACACAGAC	CCCAACCACG	ACACCCATCA	CCACCACCAC	TACGGTGACC	CCAACCCCAA
19861	CACCCACCGG	CACACAGACC	CCAACCCCGA	CACCCATCAC	CACCACCACC	ACGGTGACCC
19921	CAACCCCAAC	ACCCACCGGC	ACACAGACCC	CAACATCGAC	ACCCATCACC	ACCAACACTA
19981	CGGTGACCCC	AACCCCAACA	CCAACCGGCA	CACCGAGTAC	AACCTTGACA	CCCATCACCA
20041	CCACCACTAC	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA	ACATCGACAC
20101	CCATCAGCAC	CACCACTATG	GTGACCCCAA	CCCCAACACC	CACCGGCACA	CAGACCCCAA
20161	CCCCTACACC	CATCTCCACC	ACCACTACGG	TGACCCCAAC	CCCAACACCC	ACCGGCACAC
20221	AGACCCCAAC	CCCGACACCC	ATCACCACCA	CCACCACGGT	GACCCCAACC	CCAACACCCA
20281	CCGGCACACA	GACCCCAACA	TCGACACCCA	TCACCACCAC	CACTACGGTG	ACCCCAACCC
20341	CAACACCCAC	CGGCACACAG	ACCCCAACCA	CGACACCCAT	CACCACCAAC	ACCACGGTGA
20401	CCCCAACCCC	GACACCCACC	GGCACACAGA	CCCCAACCCAC	GGTACTCATC	ACCACCACCA
20461	CTACGATGAC	ACCAACCCCA	ACACCCACCA	GCACAAAGAG	TACAACCGTG	ACACCCATCA
20521	CCACCACCAC	TACTGTGACC	CCAACCCCAA	CACCCACCGG	CACACAGAGT	ACAACCCCTGA
20581	CACCCATCAC	CACCACCACT	ACGGTGACCC	CAACCCCAAC	ACCCACCGGC	ATACAGACCC
20641	CAACAACGAC	ACCCATCAGC	ACCACCACCA	CCGTGACCCC	AACCCCAACA	CCCACCGGCA
20701	CACAGACCCC	AACATCGACA	CCCATCACCA	CCACCACTAC	GGTGACCCCA	ACCCCTACAC
20761	CCACTGGCAC	ACAGACCCCA	ACATCGACAC	CCATCAGCAC	CACCACTACG	GTGACCCCAA
20821	CAGCAACACC	CACCGGCACA	CAGACCCCAA	CCCTGACACC	CATCACCACC	ACCACTACGG
20881	TGACCCCAAC	CCCAACACCC	ACCGGCACAA	AGAGTACAAC	CCCGACATCC	ATCACCACCA
20941	CCACTACGGT	GACCCCAACC	CCAACACCCA	CTGGCACACA	GACCCCAACC	ACGACACCCA
21001	TCACCACCAC	CACCACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACCC
21061	CGACACCCAT	CACCACCACC	ACCACGGTGA	CCCCAACCCC	AACACCCACC	AGCACACAGA
21121	CCCCAACATC	GACACCCATC	ACCACCACCA	CTACGGTGAC	CCCAACCCCA	ACACCCACTG
21181	GCACACAGAC	CCCAACCACG	ACACCCATTA	CCACGACCAC	CACGGTGACC	CCAACCCCAA
21241	CACCCACCGG	CACACAGGCC	CCAACCCCAA	CAGCCATCAC	CACCACCACC	ACGGGGACCC
21301	CAACCCCAAC	ACCCACCGGC	ACACAGACCC	CAACCACGAC	ACCCATCACC	ACCACCACTA
21361	CGGTGACACC	AACCCCAACA	CCCACCGGCA	CACAGTCCCC	AACCCCAACA	GCCATCACCA
21421	CCACCACTAC	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA	ACCACGACAC
21481	CCATCACCAC	CACCACCACG	GTGACCCCAA	CCCCGACACC	CACCGGCACA	CAGAGTACAA
21541	CCCTGACACC	CATCACCACC	ACCACCACGG	TGACACCAAC	CCCAACACCC	ACTGGCACAC
21601	AGACCCCAAC	ATCGACACCC	ATCACCACCA	CCATTACGGT	GACCCCAACC	CCAACACCCA
21661	CCGGCACACA	GACCCCAACC	CCGACACCCA	TCTCCACCAC	CACTACGGTG	ACCCCAACCC
21721	CAACACCCAC	CGGCACACAG	ACCCCAACAT	CGACACCCAT	CACCACCACC	ACCACGGTGA
21781	CCCCAACCCC	AACACCCACC	GGCACACAGA	CCCCAACAAAC	GACACCCATC	AGCACCACCA
21841	CCACGGTGAC	CCCAACCCCA	ACACCCACCG	GCACACAGAC	CCCAACATCG	ACACCCATCA
21901	CCACCACCAC	CACGGTGACC	CCAACCCCAA	CACCCACCGG	CACACAGACC	CCAACCACGA
21961	CACCCATCAG	CACCACCACC	ACGGTGACCC	CAACCCCAAC	ACCCACCGGC	ACACAGACCC
22021	CAACATCGAC	ACCCATCACC	ACCACCACCA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA
22081	CACAGACCCC	AACCCCGACA	CCCATCACCA	CCACCACCAC	GGTGACCCCA	ACCCCAACAC
22141	CCACCGGCAC	ACAGACCCCA	ACATCGACAC	CCATCACCAC	CACCACCACG	GTGACCCCAA
22201	CCCCAACACC	CACCGGCACA	CAGACCCCAA	CCCCGACACC	CATCACCACC	ACCACCACGG
22261	TGACCCCAAC	CCCAACACCC	ACCGGCACAC	AGACCCCAAC	CCCGACACCC	ATCACCACCA
22321	CCACCACGGT	GACCCCAACC	CCAACACCCA	CCGGCACACA	GACCCCAACA	TCGACACCCA
22381	TCACCACCAC	CACTACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACCA
22441	CGACACCCAT	CACCACCACC	ACCACGGTGA	CCCCAACCCC	AACACCCACT	GGCACACAGA
22501	GTACAACCCT	GACACCCATC	ACCACCACCA	CCACGGTGAC	ACCAACCCCA	ACACCCACCG
22561	GCACACAGAC	CCCAACATCG	ACACCCATCA	CCACCATCAC	TACGGTGACC	CCAACCCCAA
22621	CACCCACCGG	CACACAGACC	CCAACCCCGA	CACCCATCTC	CACCACCACC	ACAGTGACCC
22681	CAACCCCAAC	ACCCACCGGC	ACACAGACCC	CAACCATGAC	ACCCATCACC	ACCACCACCA
22741	CGGTGACCCC	AACCCCAACA	CCCACCGGCA	CACAGACCCC	AACAACGACA	CCCATCAGCA
22801	CCACCACCAC	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA	ACATCGACAC
22861	CCATCACCAC	CACCACTACG	GTGACCCCAA	CCCCAACACC	CACCGGCACA	CAGACCCCAA

Exon 30

TR2

22921	CCACGACACC	CATCACCACC	ACCACCACGG	TGACCCCAAC	CCCAACACCC	ACCGGCACAC
22981	AGAGTACAAC	CCTGACACCC	ATCACCACCA	CCACCACGGT	GACACCAACC	CCAACACCCA
23041	CCGGCACACA	GACCCCAACC	CCGACACCCA	TCTCCACCAC	CACTACGGTG	ACCCCAACCC
23101	CAACACCCAC	CGGCACACAG	ACCCCAACCA	TGACACCCAT	CACCACCACC	ACCACGGTGA
23161	CCCCAACCCC	AACACCCACC	GGCACACAGA	CCCCAACAAC	GACACCCATC	AGCACCACCA
23221	CCACGGTGAC	CCCAACCCCA	ACACCCACCG	GCACACAGAC	CCCAAGATCG	ACACCCATCA
23281	CCACCACCAC	TAAGGTGACC	CCAACCCCAA	CACCCACCGG	CACACAGACC	CCAACCCCGA
23341	CACCCATCAC	CACCACCACC	ACGGTGACCC	CAACCCCAAC	ACCCACTGGC	ACACAGGCCC
23401	CAACCCAGC	AGCCATCACC	ACCACAGTA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA
23461	CACAGACCCC	AACCACGACA	CCCATCACCA	CCACCACCAC	GGTGACCCCA	ACCCCAACAC
23521	CCACCGGCAC	ACAGAGTACA	ACCCTGACAC	CCATCACCAC	CACCACCACG	GTGACACCAA
23581	CCCCAACACC	CACCGGCACA	CAGACCCCAA	CATCGACACC	CATCACCACC	ACCACTACGG
23641	TGACCCCAAC	CCCAACACCC	ACCGGCACAC	AGACCCCAAC	CCCGACACCC	ATCTCCACCA
23701	CCAGTACGGT	GACCCCAACC	CCAACACCCA	CCGGCACACA	GACCCCAACC	ATGACACCCA
23761	TCACCACCAC	CACCACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACAA
23821	CGACACCCAT	CAGCACCACC	ACCACGGTGA	CCCCAACCCC	AACACCCACC	GGCACACAGA
23881	ACCCAACATC	GACACCCATC	ACCACCACCA	CTACGGTGAC	CCCAACCCCA	ACACCCACCG
23941	GCACACAGAC	CCCAACCATG	ACACCCATCA	CCACCACCAC	CACGGTGACC	CCAACCCCAA
24001	CACCCACTGG	CACACAGGCC	CCAACCCCAA	CAGCCATCAC	CACCACCACC	ACGGTGACCC
24061	CAACCCCAAC	ACCCACCGGC	ACACAGACCC	CAACCACGAC	ACCCATCACC	ACCACCACCA
24121	CGGTGACCCC	AACCCCAATA	CCCACCGGCA	CACAGAGTAC	AACCCCTGACA	CCCATCACCA
24181	CCACCACCAC	GGTGACACCA	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA	ACCCCGATAC
24241	CCATCTCCAC	CACCACTACG	GTGACCCCAA	CCCCAACACC	CACCGGCACA	CAGACCCCAA
24301	CCATGACACC	CATCACCACC	ACCACCACGG	TGACCCCAAC	CCCAACACCC	ACCGGCACAC
24361	AGACCCCAAC	AACGACACCC	ATCAGCACCA	CCACCACGGT	GACCCCAACC	CCAACACCCA
24421	CCGGCACACA	GACCCCAACA	TCGACACCCA	TCACCACCAC	CACTACGGTG	ACCCCAACCC
24481	CAATACCCAC	CGGCACACAG	ACCCCAACCA	CGACACCCAT	CACCACCACC	ACCACGGTGA
24541	CCCCAACCCC	AACACCCACT	GGCACACAGG	CCCCAACCCC	AACAGCCATC	ACCACCACCA
24601	CTACGGTGAC	CCCAACCCCA	ACACCCACCG	GCACACAGAC	CCCAACCACG	ACACCCATCA
24661	CCACCACCAC	CACGGTGACC	CCAACCCCAA	TACCCACCGG	CACACAGAGT	ACAACCCTGA
24721	CACCCATCAC	CACCACCACC	ACGGTGACAC	CAACCCCAAC	ACCCACCAGC	ACACAGACCC
24781	CAACCCCGAC	ACCCATCTCC	ACCACCACTA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA
24841	CACAGACCCC	AACCATGACA	CCCATCACCA	CCACCACCAC	GGTGACCCCA	ACCCCAACAC
24901	CCACCGGCAC	ACAGACCCCA	ACAACGACAC	CCATCAGCAC	CACCACCACG	GTGACCCCAA
24961	CCCCAACACC	CACCGGCACA	CAGACCCCAA	CATCGACACC	CATCACCACC	ACCACTACAG
25021	TGACCCCAAC	CCCAACATCC	ACCGGCACAC	AGACCCCAAC	CACGACACCC	ATCACCACCA
25081	CCACCACGGT	GACCCCAACC	CCAACACCCA	CTGGCACACA	GGCCCAACCC	CCAACAGCCA
25141	TCACCACCAC	CAGTACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACCA
25201	CGACACCCAT	CACCACCACC	ACTACGGTGA	CACCAACCCC	AACACCCACC	GGCACACAGT
25261	CCCCAACCCC	AACAGCCATC	ACCACCACCA	CTACGGTGAC	CCCAACCCCA	ACACCCACCG
25321	GCACACAGAC	CCCAACATCG	ACACCCATCA	CCACCACCAC	TACGGTGACC	CCAACCCCAA
25381	CACCCACCGG	CACACAGACC	CCAACCCCGA	CACCCATCTC	CACCACCACC	ACGGTGACCC
25441	CAACCCCAAC	ACCCACCGGC	ACACAGACCC	CAACCACGAC	ACCCATCACC	ACCACCACCA
25501	CGGTGACCCC	AACCCCGACA	CCCACCGGCA	CACAGACCCC	AACCACGGTA	CTCATCACCA
25561	CCACCACTAC	GATGACCCCA	ACCCCAACAC	CCACCAGCAC	AAAGAGTACA	ACCGTGACAC
25621	CCATCACCAC	CACAACCTACG	GTGACCGCAA	CCCCAACACC	CACCGGCACA	CAGACCCCAA
25681	CCATGATACC	CATCAGCACC	ACCACTACGG	TGACCCCAAC	CCCAACACCC	ACCACTGGAA
25741	GCACGGGGCC	CCCCACCCAC	ACAAGCACAG	CACCCATTGC	TGAGTTGACC	ACATCCAATC
25801	CTCCGCCTGA	GTCCCTCAACC	CCTCAGACCT	CTCGGTCCAC	CTCTTCCCCT	CTCACGGAGT
25861	CAACCACCT	TCTGAGTACC	CTACCACCTG	CCATTGAGAT	GACCAGCACG	GCCCCACCT
25921	CCACACCCAC	GGCACCCACG	ACCACGAGCG	GAGGCCACAC	ACTGTCTCCA	CCGCCAGCA
25981	CCACCACGTC	CCCTCCAGgt	aagcagagct	gcttggttcc	tctggcctgg	gatgcttctt
26041	cctcccccttg	tgccggggcag	gactgtccca	ggaaggctca	aggcacgttc	tgggcgcctc
26101	tctgcccacg	aaagcttggtc	actgtgtggg	cagaagccac	tgacactggc	cagtgtctggg
26161	cagtgaagcc	aaaggccatt	ccgcttgccc	ataggacagc	cttctgagga	gctgtctgaca
26221	ccggccagtg	ctgggacgtg	gagcccttgg	ctatcctgct	cgcccataag	acggccttct
26281	tcaggggccc	actgctatgt	gatgcggtgc	tgtgggagcc	catcaaggct	ggggggcaga
26341	gagaggctgc	cagtgaggtg	cctgcgggtc	cacctgcttc	tggctgcagc	ccctccttgg
26401	ggcctttttcc	tggtggacgg	cgtgccacag	ccagtgcctt	ctggacgcct	cttgtctggc
26461	atcggtttgg	ccagcaagct	gtgttgctgc	cagagcacca	ggtcacctgc	aggctctcgt
26521	gacactcggc	tgtggtgata	ctggccttgc	cgctccaccc	tgcttgggtga	ctctgagagc
26581	ctgggaggtg	ggcacgaggc	cctggtcctc	cagttctgccc	acccggtcgg	ctgtcttggt
26641	cccttgacgc	tggggagtg	cagttgggag	cctgtggcat	ctgagatgtg	caatgtctca
26701	gccctcactg	gtgtctcctg	ctctcacagG	CACCCCACT	CGCGGTACCA	CGACCGGGTC

Exon 30

TR2

Hifi site

Exon 31

26761	ATCTTCAGCC	CCCACCCCCA	GCACTGTGCA	GACGACCACC	ACCAGTGCCT	GGACCCCAAC
26821	GCCGACCCCA	CTCTCCACAC	CCAGCATCAT	CAGGACCACA	GGCCTGAGGC	CCTACCCTTC
26881	CTCTGTGCTT	ATCTGCTGTG	TCCTGAACGA	CACCTACTAC	GCACCAAGta	ctcaggctgt
26941	tcacatcctg	tgcttgggtg	gccgaggctg	gccccggcat	gtaccaatgg	gtcagggtgcc
27001	agggctgaga	tcgcagtaga	agcgtctcag	gaggcagcag	ccgtcgaggg	tggctgtgtc
27061	cagggcacgg	cttcccttgg	gtggcctctg	tggggacctc	cgctgtgggg	acctccacgg
27121	ggtccagcgg	ctagccctgc	ctccggatag	ccctgcctct	ggacggtgtg	atcgtgggtc
27181	tgtctccctt	cgcagGTGAG	GAGGTGTACA	ACGGCACATA	CGGAGACACC	TGTTATTTTCG
27241	TCAACTGCTC	ACTGAGCTGT	ACGTTGGAGT	TCTATAACTG	GTCTTGCCCA	TCCACGCCCT
27301	CCCCAACACC	CACGCCCTCC	AAGTCGACGC	CCACGCCTTC	CAAGCCATCG	TCCACGCCCT
27361	CCAAGCCGAC	GCCCGGCACC	AAGCCCCCG	AGTGCCCAAG	CTTTGATCCT	CCCAGACAGg
27421	tcagtgggct	gcaggcggct	ttgtcccat	ggcactctgc	gcagcatgtc	cgggcagctg
27481	aggccccagg	caccacttcc	tgtgtgtcgt	ctgaggggccg	aggcctccag	caacccttgg
27541	gtgcagggtc	tgccgagccc	tccacatttt	caccgtgccc	cgctgtgcct	ggcgagggtg
27601	ctggctgcag	tgaggtcctg	ggaagccact	tcggcctcca	gcctcccggc	tcagcacccg
27661	cccctcctga	gcgcagacca	ccccatcctg	tgccgggtccc	cctgacgtcc	cttgccctccc
27721	gtccccagGA	GAACGAGACT	TGGTGGCTGT	GCGACTGCTT	CATGGCCACG	TGCAAGTACA
27781	ACAACACGGT	GGAGATCGTG	AAGGTGGAGT	GTGAGCCGCC	GCCCATGCCC	ACCTGCTCCA
27841	ACGGCCTCCA	ACCCGTGCGC	GTCGAGGACC	CCGACGGCTG	CTGCTGGCAC	TGGGAGTGCG
27901	ACTgtgagtc	cggggccccc	aggccctccc	cgcactctcct	gccctctccg	tgggtggggg
27961	ctgcaggggc	cgtctcccgg	gggcggaagg	gctgaggctc	cttgggcaca	gatcccactg
28021	aggtgttcgc	tgaggctggg	tgacttctga	gggtcttctc	acagccctgc	ttttgcctca
28081	ttgggtgggg	agggcctggg	cagggtggagg	gcttgccctgg	tggagttagg	gctcctccct
28141	ggaacaaggg	tgttctctag	gcaagagggg	gctgagttga	agtttgaacc	ctggtccgtc
28201	ctgcagaatg	ggccactgtg	ggtgcgccag	ggcaagtgca	gctcagacat	ccccgtgccc
28261	acgcacagga	gtgggggtttt	caggccccag	cttcctgctg	gctcttccctg	actatgcccc
28321	agcccagccc	ttgcacccga	ccccggccga	ggggcacagg	tggcacggct	cactccggct
28381	cccttgagG	CTACTGCACG	GGCTGGGGCG	ACCCGCACTA	TGTCACCTTC	GACGGACTCT
28441	ACTACAGCTA	CCAGGGCAAC	TGCACCTACG	TGCTGGTGGA	GGAGATCAGC	CCCTCCGTGG
28501	ACAATTTCGG	AGTTTACATC	GACAACCTACC	ACTGCGATCC	CAACGACAAG	GTGTCCTGTC
28561	CCCGCACCT	CATCGTGCGC	CACGAGACCC	AGGAGGTGCT	GATCAAGACC	GTGCATATGA
28621	TGCCCATGCA	GGTGCAgta	ggcacagcgt	ggccacagga	ggctggcatg	gaggcggggtg
28681	ctgacatggg	ccccaatgca	ccctgggtcc	ccagggggcca	gaggactggg	ctgtgggggt
28741	gccaaggcat	agcctctcct	agagctgggc	tagaaggtag	gatgggggtg	gcgactggct
28801	ccgggacata	tcagctcttc	ctgcaggccc	tccagggtgtg	tcctgggccc	ctcgagccct
28861	ggcaccatgc	cacgctgggc	acagtctctg	cagcagaagc	tgccctcctga	ggacagagtc
28921	agggacaggg	ctctgcacac	ccttggctga	gatgccccta	cttgcagggg	aatcattggg
28981	tctgaggctc	aggaggcccc	gggagcctgc	gccgggctcc	acagtcccca	ggtgctccca
29041	ggagagctcc	ttcactggct	cacccatggg	accagggtct	ggttgggagc	agtggagtgg
29101	aagcaagaaa	gggggacagga	aagcggggta	ggcaggggccc	tctccctaca	tgtgtagggtc
29161	agagagcagg	cggggtgggg	cagccctgga	gctctcacia	ggagaggacc	gaggcagctg
29221	cagctcccat	ggtgtgtcgg	ccacagGTGC	AGGTGAACAG	GCAGGCGGTG	GCACTGCCCT
29281	ACAAGAAGTA	CGGGCTGGAG	GTGTACCAAGT	CTGGCATCAA	CTACGTGGTG	GACATCCCCG
29341	AGCTGGGTGT	CCTCGTCTCC	TACAATGGCC	TGTCCTTCTC	CGTCAGGCTG	CCCTACCACC
29401	GTTTGGCAA	CAACACCAAG	GGCCAGTGTG	gtgagttccg	tgaccccat	ggcccccgag
29461	gccccacgg	ctcccaccgt	cccctgtgcc	cccatgtcct	gccccagggc	gggtggccag
29521	gccaggctga	ggctgaggct	gcgtgtaaac	acccatgggc	ctggctgtgg	gcctcttgcc
29581	ccgtgtctcg	gggctgtgtg	ggccatcacc	cgggttcagt	ctctgtgagg	agccaacagg
29641	agggggcctg	gcctgggtctc	tgccctcggc	cctggctggc	cggtcctggg	catctgggct
29701	ggagaagggc	agggcttacc	ctgtctgcaa	cgtggcctct	ctcactgata	cagGCACCTG
29761	CACCAACACC	ACCTCCGACG	ACTGCATTCT	GCCCAGCGGG	GAGATCGTCT	CCAAGTGTGA
29821	GGCTGCGGCT	GACCAAGTGGC	TGGTGAACGA	CCCTCCAAG	CCACACTGCC	CCCACAGCAG
29881	CTCCACGACC	AAGCGCCCG	CCGTCACTGT	GCCCAGGGGGC	GGTAAAACGA	CCCCACACAA
29941	GGACTGCACC	CCATCTCCCC	TCTGCCAGCT	CATCAAGGAC	AGgtgacccc	gcccaggcct
30001	gcctgtggcc	acgacaccaa	taagctgagg	gcctctgtgc	cccagcccc	agctcttgca
30061	aagaggaagg	aggcagcgcg	tggggcctgg	cgctggggct	gggaaggcac	ggagccgcgg
30121	aaccaggatc	aggcgctagg	tcgccgtggg	gtccaggacc	caggcccttg	ggttccacgg
30181	ggctgagctg	ctacgtgcgg	cctgtgcctt	tgtgaactc	cagtctctcc	tggctcccgg
30241	gaaggtgcag	ggctggccga	gtgtgaggcc	cggagtaaac	cagtcaacc	aggacagagc
30301	tcagggtcga	tattgggagg	gcagatttgg	gctttgacag	agagggggtg	ctctaaccgc
30361	tggcagtcag	gggggggtcag	catcctgtcc	ctggaagtat	agggggcaga	tataggctgg
30421	gtgtccatct	gccagggttg	ctggaggggg	tcctgaagct	gatgaccaca	tagacgtggt
30481	ttctatctct	gggagccggg	ctgcagagcc	accttgctcg	gcatccctt	ggtctgtccc
30541	tgagctgtcc	ccctggctgg	cctgtccctt	gaccctccat	cagccacagg	cgcctctctg

Exon 31

Exon 32

Exon 33

Exon 34

Exon 35

Exon 36

30601	gcggggtgccg	gactccagga	ggacagtccg	ggcagagacg	ctggggtaga	gagcagggga
30661	gaggcaggtg	ccacctgagt	gtgacctgtg	cctctccctg	cacagCCTGT	TTGCCCAGTG
30721	CCACGCACTG	GTGCCCCCGC	AGCACTACTA	CGATGCCTGC	GTGTTTCGACA	GCTGCTTCAT
30781	GCCGGGCTCG	AGCCTGGAGT	GCGCCAGTCT	GCAGGCCTAC	GCAGCCCTCT	GTGCCCAGCA
30841	GAACATCTGC	CTCGACTGGC	GGAACCACAC	GCATGGGGCC	TGCTgtaagt	gccccatctgc
30901	ccctgccctg	gagctggggg	cctgcaggcc	agacgtggtc	tctaggctct	gccaggtgct
30961	gtgcccagcc	tgaagctaga	cctagatggg	ctgcggccag	ggatgcagag	atggcggggtg
31021	tgagaccagg	gctggggcca	tgggggtggg	aaggccaggc	tggaggggct	gaggtgctgg
31081	ggcttctgcc	agcatcgcta	aatgcaactg	ggtgccccacc	accagctcg	ggacaacctc
31141	gaggggtggag	gttgatgccc	aggcagctgg	tcaccctcct	ccgtgtgtgg	ggcactgggc
31201	agctgtcact	caaggggggtc	caggctcctc	cgcctgacat	gaggcagccc	tctgacctct
31261	gccccatgtcc	ctcagTGGTG	GAGTGCCCAT	CTCACAGGGA	GTACCAGGCC	TGTGGCCCTG
31321	CAGAAGAGCC	CACGTGCAAA	TCCAGgtatg	ttgtttgagg	gtccaccagg	accgtgggct
31381	cgccttctgc	agtgcggagg	gtggcatcat	ctgggcatag	cagtcccacc	tgccagctcc
31441	ccagccccac	cccacctgtc	tgacaatgcc	ctcccggccc	cagCTCCTCC	CAGCAGAACA
31501	ACACAGTCCT	GGTGAAGGC	TGCTTCTGTC	CTGAGGGCAC	CATGAACTAC	GCTCCTGGCT
31561	TTGATGTCTG	CGTGAAGACC	TGCGgtacgc	caccactca	cactgtcccc	tcctgcctcc
31621	ctcctgcctc	ctcctgggtg	tccacggagg	ctgggaccag	gacgctgacc	acccccacc
31681	tctgatccct	gttgccacaag	gactctgcta	acacaacttg	tctcctgggt	gtccatggag
31741	gctgggacca	ggaggctgac	cacccccacc	cctgctccct	gctgcacaag	gactctgcta
31801	acacaacttg	tttcttccct	cttcctagGC	TGTGTGGGAC	CTGACAATGT	GCCCAGAGAG
31861	gtaggcccca	ccgtgttgct	gggggatcct	tccacaaatt	ctgaattctg	gggagtgagg
31921	gatggacatg	aaaacctgga	gcctcaaaga	ttgaggaatg	aggctcatcta	agtcctggat
31981	ggctgagttg	gcatggacac	caccactca	cccaccatc	cttccacca	cccactcatc
32041	cacctgtgca	cccatctacc	cactcaccta	cccctccatc	cttccaccta	cctagtcatc
32101	acccactcat	ctatgcaccc	ccaccacccc	actcatccat	ccatccatcc	accatccacc
32161	tacccaacca	tccacccatc	catccaccat	ccatctacca	tccaccatcc	acccaaccat
32221	ccaccatcca	tccatccacc	atcatccatc	taccatccac	ccaccacact	atccatccat
32281	ccatccacca	tctgtctacc	atccaccac	ccactcatcc	atccatccat	ccaccatctg
32341	tctaccatcc	acccacccac	ctatccatcc	acccatccat	ccatccatcc	atccatccat
32401	ccatccatcc	atccacccac	catctgtcta	ccatccaccc	acccacctat	ccaccatcc
32461	acccacccat	ccatccaccc	aaccatccac	catccatcca	tccatccatc	catccaccat
32521	ccatctacca	tccaccctcc	catccatcca	cgcatccacc	caaccatcca	tccatccatc
32581	caccatccac	ccaccatcca	cccatttatc	catccattct	ccctccctcc	attcaccacc
32641	cattgggtcat	atgatactct	gtctagaagc	tctgacatga	catcttggcc	acctctgtgc
32701	tgcccatgcc	tcctacctgt	ggtagcagcc	atgtggatga	ttccttagct	aaattctgta
32761	caaacctgag	aggcctgagt	ggagaatttg	ccacgtgcc	agccccctgct	tgtcgatgct
32821	ggtgagcagg	taatggcttt	gtgatatcag	tgaatgagca	gctactgtcc	tatcccagaa
32881	cctgcctggt	gtgctcagaa	gtgaggaggg	acatggtttt	ccccaggat	ccctcagcac
32941	tctgctcagg	gtggctgttt	ctccccgctg	accacagctg	cagctccggg	gctgtggtga
33001	ggtggggcct	gcctggtgcc	acctgtcctc	tctactcacc	cttctttccc	tgcagTTTG
33061	GGAGCACTTC	GAGTTCGACT	GCAAGAACTG	TGTCTGCCTG	GAGGGTGGAA	GTGGCATCAT
33121	CTGCCAACCC	AAGAGGTGCA	GCCAGAAGCC	CGTTACCCAC	TGCGTGGAA	ACGGCACCTA
33181	CCTCGCCACG	GAGGTCAACC	CTGCCGACAC	CTGCTGCAAC	ATTACCGTCT	GCAgtaaggc
33241	catccccctg	ggcccatgcc	acctctcagg	ggtgcacaca	tccctgtagg	ctgggctgcc
33301	tgtgttcccc	tccttggtgca	gtgaggaaac	agctggcttg	ggggcctctg	ctgtgccccct
33361	tgagagggtc	tgggaggggg	ccgctgggcc	cagtccaggc	atccctgctg	cagggcctga
33421	cctgggtggg	gaggggaccc	ttggagggtg	tggaggccc	accctgtgca	gtggccccgg
33481	gggctttgcc	tgggaggagc	caccctcacg	gccgcgtgcg	caccctgtct	tcagagtga
33541	acaccagcct	gtgcagtggc	ccggggggct	tggcctggga	ggagccacc	tcacggccgc
33601	gtgcacaccc	tgtcttcagA	GTGCAACACC	AGCCTGTGCA	AAGAGAAGCC	CTCCGTGTGC
33661	CCGCTGGGAT	TCGAAGTGAA	GAGCAAGATG	GTGCCTGGAA	GGTGCTGTCC	TTTCTACTGG
33721	TGTGgtaagc	agggctggtg	ggcagggcag	ggaggaggct	gccgcccggg	gtgggggtggc
33781	tgtaaagggg	ttggctccct	cctgggggtc	tcagattctg	gggacacaga	tggctgtacg
33841	cttggctgat	gcaccacccc	cagccctgag	cgctcgctcc	atccactggg	tgtgcaccgg
33901	gagtgggggt	ctggccagggt	ggccgccccg	gggcagtcctc	caacgaacgg	ccttctccgt
33961	tctttctccc	aagAGTCCAA	GGGGGTGTGT	GTTACCGGGA	ATGCTGAGTA	CCAGgtgagc
34021	cctgggctgg	gtgagaggga	ggaggggagg	aggtcggctg	cagcgtgggg	gtcctggcag
34081	gctgttggg	tgggtgggat	gctgggagg	cccctgcctc	atgtctctcc	ctgtgcccga
34141	agCCCGTTTC	TCCAGTTTAT	TCCCTCAAGT	GCCAGGACTG	CGTGTGCACG	GACAAGGTGG
34201	ACAACAACAC	CCTGCTCAAC	GTCATCGCCT	GCACCCACGT	GCCCTGCAAC	ACCTCCTGCA
34261	GCCCTgtaag	cggccaccct	cctccttcag	cctgcccctt	tccctcctcc	cagacaagca
34321	cccgggcca	tgtctgcatc	gtgacccttt	ctttcctcct	ttcaacgcca	acctgtccct
34381	gtccccacct	ctccatcctg	acacctgccc	agcctggggc	ctcctccagg	tgggggggtc

Exon 37

Exon 38

Exon 39

Exon 40

Exon 41

Exon 42

Exon 43

Exon 44

34441	tccggcagccc	tgcaggcttt	gtgtggtgtg	gggtacagcc	tgggagttca	gttgcagtgg
34501	cgtgtctatg	tgcgcagGGC	TTCGAAC TCA	TGGAGGCCCC	CGGGGAGTGC	TGTAAGAAGT
34561	GTGAACAGAC	GCACTGTATC	ATCAAACGGC	CCGACAACCA	GCACGTCATC	CTGAAGgtag
34621	gtgtgcactg	ccggccccga	cgcgcccg	ttgcttgagc	ccagggcaag	gcgcgggcca
34681	cccaggatcc	cccagctgag	tcctcccagt	cctgggcgca	gctgtgatgg	gcgccctggg
34741	gctgccatga	caaatagagca	ggcgtcttca	gggcagaaag	ggattctcct	ggttctgcgg
34801	cccagaaatc	catagagcaa	agggcctcag	ggctgtgctc	cctcggaggc	gctaggcaag
34861	gacctttccc	agcctctggt	cactctaggt	gcccttggc	tgtgaccacg	aggtttcctt
34921	ccctgtgtct	gcctctcctc	tcccttttaa	ggatttaggc	accccaagca	ggatgatctc
34981	atcttaggat	ccttcactta	atgacacctt	caaagacccc	ctttccaagg	caggtcacat
35041	tcatagattc	agagttagaa	cacagacaga	cctttgaggg	ttgtgtgggc	tccaggctgg
35101	tgcctgatgt	ggggccccgc	ccatgtcact	tgtcctgtgg	ccctgggcct	caccaggaag
35161	cctccccggc	caggtgtctc	caggggtgtct	tcctggccgg	gctggggctg	ggcctgctgc
35221	cctccctcac	cagagctccc	tgccccacag	CCCGGGGACT	TCAAGAGCGA	CCCGAAGAAC
35281	AACTGCACAT	TCTTCAGCTG	CGTGAAGATC	CACAACCAGC	TCATCTCGTC	CGTCTCCAAC
35341	ATCACCTGCC	CCAACTTTGA	TGCCAGCATT	TGCATCCCGg	tgagttggcc	acctggggcc
35401	tggctgtgtg	tactctgccg	ggagtggggg	tgcctggtgt	tctggggggc	tggggcccca
35461	gtgctgcgac	agtgacctcg	ggcctggtct	gagctgccgc	aggaggcttt	gcctggggct
35521	ttctgcagca	gctacccccg	cccacggcat	cgtgggaagg	tgctctcatc	cccaggaatg
35581	tccgggggtc	ccgggctcat	tctcctttcc	ctctagGGCT	CCATCACATT	CATGCCCAAT
35641	GGATGCTGCA	AGACCTgtga	gtacagggca	cagcctgggg	ggtaggcagg	gtggggggcac
35701	aagggtggt	gccctcagcc	ccgcctgggg	tggctggagg	ctggacaacg	gcctctgggt
35761	gggcagtgag	ggctgggggg	tgaggccgag	cctggggagg	ggacgcagcg	aggagagacc
35821	tcctcgaaga	tgtggaggcc	ctgccctaag	ccgctgcccg	ctctccccag	GCACCCCTCG
35881	CAATGAGACC	AGGGTGCCCT	GCTCCACCGT	CCCCGTCACC	ACGGAGGTTT	CGTACGCCGG
35941	CTGCACCAAG	ACCGTCCTCA	TGAATCATTG	CTCCGGGTCC	TGCGGGACAT	TTGTCATgtg
36001	agtcccaggc	tgggagtgtg	cctggagggg	gtggtggaga	ccccagggag	gcgagaggcc
36061	agcgtggcc	ccggaaggtc	acccctcact	ccgccctccc	cccagGTACT	CGGCCAAGGC
36121	CCAGGCCCTG	GACCACAGCT	GCTCCTGCTG	CAAAGAGGAG	AAAACCAGCC	AGCGTGAGGT
36181	GGTCCTGAGC	TGCCCAATG	GCGGCTCGCT	GACACACACC	TACACCCACA	TCGAGAGCTG
36241	CCAGTGCCAG	GACACCGTCT	GCGGGCTCCC	CACCGGCACC	TCCCGCCGGG	CCCGGCGCTC
36301	CCCTAGGCAT	CTGGGGAGCG	GGTGAGCGGG	GTGGGCACAG	CCCCCTTCAC	TGCCCTCGAC
36361	AGCTTTACCT	CCCCCGGACC	CTCTGAGCCT	CCTAAGCTCG	GCTTCCTCTC	TTCAGATATT
36421	TATTGTCTGA	GTCTTTGTTT	AGTCCTTGCT	TTCCAATAAT	AAACTCAGGG	GGACATGC

Exon 45

Exon 46

Exon 47

Exon 48

Exon 49

3'UTR

Figure S6. MUC6 genomic sequence (Reverse Complement).

1	GGCAGCAGCA	GGCCTGCCGG	CCCCAGCGCG	AGCTCCTCTC	CACTGTGCAC	CATGGTCCAG
61	CGGTGGCTGC	TGCTGTCTCTG	CTGCGGAGCC	CTGCTCAGCG	CTGgtgagtg	aggtcgaggg
121	gcgccagaca	ctgcggtgcc	ctcagagggg	ccctgtgtgc	gggggtctct	gggccttctc
181	gcctcgacaa	ctcggctggc	ccacatggac	gctgatggac	gggaggcccc	agctcggtc
241	cgtgaccagc	ccccgctgcc	aggcccgggt	ccccccagca	gccgcggtgc	tgggctctgc
301	caattggggg	cagggacccc	atggggcctg	ggcagggacg	ccctcctgtg	agctggcaca
361	gcagccagcg	ggggaggacg	ctcagctgga	gtgggggtccg	gcactcccg	gggaacagt
421	ggcaggtgtg	ctggtgcccc	gccctggcgc	tctccctccc	cgagtgggg	cctgagtcct
481	gagaggtctc	tggagtgtgg	gggacagagg	cacagtctct	gctggggcct	gggcctcggt
541	tcctagtcta	cagaagtggg	ggacgctgcc	tccccgtgtg	tggccgccgt	ggggggaaga
601	ggggggaagg	tgtacggcca	tcctgggctc	agaaccgccg	caggcagcct	ggcctctccc
661	ccgcgctccc	ctaccagct	cgggcaggat	ccaggaggga	ctgacatcct	ggatcctctg
721	ccaaccgcct	gccctgcggc	tgtctcaggt	gaccatcagt	ccctccccag	ggccccagaa
781	ggagccagcc	ccaaggggtc	cctctgtggc	cgcagcctga	gacctgggga	gacctctctt
841	gccgaccaag	gcaccagccc	aagggcctct	gtgttccgtg	ctcctccttc	ctctccaagc
901	tggcccgacc	ctcctccaca	gccgggagcc	ccctgggggtg	gacgctggcg	tgacagagct
961	cgccctcgga	gctgctgcca	acctgggcgc	ctcgggctca	gagcacagt	ggaccccccc
1021	aggggtgtcc	cactgtaggg	cgacccaagc	ccacccacc	ccttctctcc	tttgaagccc
1081	cttccccacc	acgccgggca	ccacccttca	accgtgggag	atgtgggggt	ctctgagctc
1141	gctccccacc	acgccgggca	ccacccttca	actgtaggag	atatgggggt	ctctgagccc
1201	gctccctacc	acgccgggca	ccacccttca	accgtgggag	atgtgggggt	ctctgagccc
1261	tcccagcggg	gccctctgct	tgggacccca	gccccctacc	gcacacctgg	cacagcttgg
1321	ggacaagtgc	caggaagtgg	ggctaaactt	gcagcagagt	gcgacccta	gtccctcggg
1381	ccaccaccct	ggagccaggg	agggaggtgt	ggtgaggccc	agagaggctg	gaggtctggg
1441	ctgtgggcag	tgcagagggg	ggagggccaa	gtgggggtgt	ccaccgtca	ccccagcaaa
1501	taatctctga	gcgccatctc	tgccaacatg	ggaggggcct	cagccagcag	agtgtgggg
1561	cggacacagc	ggctgcaggg	ctgggcgcgg	gtgggcccgg	aggcaggggt	ggcgggccgc
1621	caagcgtgca	gaagggaacg	tgcgcacctg	ccgcctcgtg	ctcgtccagg	ggctgagagg
1681	ccgggggtgg	cggaccaacc	cgcccagatg	cccatgcgcc	tggccaagg	atcagccgag
1741	gggaagcaca	gccagtctgg	gcaggaacgc	aggagtctcc	cgctggactt	cagagctgga
1801	ggcagccgac	ttggagccag	tggactcggg	gaacctctg	cgggtggggc	agggcgaggg
1861	cggcgggggg	cgcagggggg	gcagcaatga	ggcaccacc	cggggcagtg	aagccagcct
1921	ggcagggctg	agggcaccga	aacacaggcc	cgaggtgtct	gtgctacagc	ggggacggcc
1981	cccaagtgcc	acccccatc	ggaaaggtgg	agaaactgag	ttgcaggggg	cattgcccag
2041	gggagaccgg	tcacagctct	gcagcctcca	gaggtgctgg	cccaggggca	ggcagccaac
2101	tgtcctctcc	gctcagagct	ctcccacccc	tccccacca	gaggccagcg	agggcccat
2161	cccaggaacc	actgagttcc	atggctgagg	gttcggtgtg	ctgcgcactc	ctgcagcagg
2221	tgtcttgagc	cctgtggatc	atccctggaa	ggaatggcgg	ggggctgagg	accatgacac
2281	ctactgggac	ccccaggagg	gggatgagtg	agggggtagg	tgtcgcag	gctcagggcc
2341	cagcatgagc	cacccccaca	ccagtctgga	gtaaactcag	cttactctgg	ggataagcca
2401	ggtgcaaccc	atcagaaaac	gatctcaagg	ccaaagggga	ccacagccaa	atatgtgtcc
2461	catatagcca	aggttggcat	tcttcttaaa	tccagtcact	caaataccca	acctcctgcc
2521	tgtgccagac	aggactcacc	caggcgccca	aggggcaggc	agcctggctc	ctccctggac
2581	cgcggttaac	accatctccc	agctgacagg	cccctgcccc	tgcgtcaccg	gagacacagg
2641	tgtccagcgg	taatgggggc	agcatcaagt	aagtcccaga	aagtgggcag	agcctgggg
2701	gagagcacag	gtgaggagtg	gcaggaatgg	gatctctgag	ctacatctgg	aaggaggtgc
2761	tgtgagtgcc	ctgctaacca	atgggcaggg	gcaaggagg	tcccggcccc	aagaaggggc
2821	tggagaggtc	acgggtcctg	ctcaggtgcc	gcaccaccac	tcagacatcg	ggggctcgtg
2881	ggagccacag	gaagggtcat	agtctcggag	gcagggtccg	gggagttacc	cagaggtggg
2941	aaaagtctcc	ctctgggtac	aggggggtgg	acgtgggggg	tgttggcccc	acccagcct
3001	ctgggagtca	gggtgggacg	tccccgctg	ccctgccctg	gagtcaccgt	gactgggcta
3061	tctggatgtt	tctctgacaa	cagtggcctc	agtgccaggc	ctgacatcaa	ggctgtctca
3121	aggctgacgt	gcaggaaagc	ggccatgttt	agagccccgg	agccaccgag	agcagggaga
3181	accggctgtg	gggccttggc	gcagaccctt	cagggaaacc	aggcgcccaa	gctggggagg
3241	cgggcacagc	ccactttgtt	ggctccgccg	ccaagcccc	gccacccgca	ccagcccctc
3301	ctagccccac	ccagaagccc	cagggatgag	taccctgcac	acagggtgcc	cgccatctgc
3361	cgaaccccg	ggggctgacg	gctgaactgg	gactgagtgg	acaaacgagg	gagtgaacga
3421	gagcagggaa	ggaagctggg	gctcgtgaag	gacagcatgg	gaggccaagc	gcttggcttg
3481	ctgttgaggc	ctcagagccc	acgggccatg	gacacttctc	gcacgccgag	tgtgtgcagg

Exon 1

3541	gaaacggg	gagcagcc	gagcagag	gagcggcg	ctcagggac	acggggtag	Exon 2
3601	cccacacc	ctgcggtc	cgtccaca	gGTCTGG	ACACCTCC	CACCAGCC	
3661	GGCTCCAG	GGCTGAAG	CTCTCCAC	ACAGgta	acacagcg	cactgatc	
3721	gccgccc	ccacccagg	ccggtgtg	ggagagagg	gcccggag	caggtcac	
3781	ccaagaca	cacatcca	acacatata	gcaccaac	gaacacac	gcacatac	
3841	ccaacaca	cacatacca	atatacac	gcacacac	ctgacacac	catacacat	
3901	tacatgac	atgcatgag	acacgtcac	cacacacca	acactctac	cagacacac	
3961	acccaacac	catgcacac	cacccaac	acacaac	cacacaaac	cacctgaca	
4021	acacatgc	acacaccca	cacccatgc	cacacatcc	agacatgca	acatgcac	
4081	ttacaacac	cacgacttac	acatgtgc	gcacccaac	cacacacac	acatacac	
4141	atgcaccct	tgtacacac	ctacacac	gagacacg	cccaacac	ctacacac	
4201	cccgaatg	cacacatgc	ctcgacac	atgcccag	cacacaaac	cacatgtgc	
4261	tgcaacaca	tcacacac	ccaacaca	tgcaggtg	tatctcac	gcctacac	
4321	ccctccaac	cacacacac	cacaatgc	acatggac	acctgacac	tatgcacac	
4381	cccagacac	gcacatacg	gcacacac	gcacacac	aacacacac	cgtgtacca	
4441	cacacacgt	tgtgcacat	cccacagcg	tgtgactcc	tggccagg	tataccatag	
4501	cactcaggt	catcggatg	ctggggttt	cacagcctg	cccaactca	aaaaccctg	
4561	cccagggag	cgagtgcct	ctctgcctg	cccagccctg	cctggccagg	atggtgggga	
4621	cacagggct	tgtgagcact	gctctctct	tagCCCCG	CAAAGGCC	TGCTCCACG	Exon 3
4681	GGGGGGCT	TCACTTCT	ACCTTCGAC	ACCACGTGT	CGACTTCTC	GGGACGTGC	
4741	ACTACATCT	CGCGGCCAC	TGCAAGGAC	CCTTCCCCA	CTTCAGTGT	CAGCTGCGG	
4801	GAGGCCCAG	CGGGAGCAT	TCGCGGATC	TCGTGGAGC	GGGGGCTCC	GTCGTCACT	
4861	TGAGCGAAG	CATCATCTC	GTCAAGGAC	TCGGgtagg	caggtggg	ggggcccg	
4921	ggctcgggg	ccggaggact	gaggatcgac	caccgacttc	ccttgccca	cagGGTCAT	Exon 4
4981	AGCCTGCC	ATACCAGCA	TGGACTCCAG	ATCACACC	TCGGCCAG	CGTGCGGCT	
5041	GTGGCCAAG	AGCTGGAGC	GGAGCTGGAA	GTCTGTGGG	GTCTGTACAG	CCACCTCAT	
5101	gtgaggagag	aagggccagg	gtgggctgg	agaccgcag	caggggggg	caggtgggac	
5161	ttgggagggg	ctgccctcct	tgggggtccc	agccagccct	caggtgcca	tgcagcagg	
5221	cccttcgtgc	caagcagtg	tgacccctga	ccagcaacat	gagccaggac	tgggttttgt	
5281	gggtgactcg	gcttctccac	tggaaaatta	gcctcccata	agaagaggca	gatgagcagg	
5341	tggggggatg	gtgggggctc	tgggtccagg	agcaggaact	gagagccctc	cacagcagat	
5401	gagggggccc	ctggccccc	ggcccccagc	agagccgtct	cccgcagGT	CTGGTGGAG	Exon 5
5461	GGAAGTAC	GGGTCAAGT	TGCGGGCTC	GCGGGAAC	TGACGGGA	GTGACCAAC	
5521	AGTTTGTCA	TGAGGAGG	aggtggggg	agggctggg	ggcctctgg	gggcctctag	
5581	gtggggggca	gggcagggg	gcctctgagg	cccagcccc	acggtgctga	ccccattct	
5641	gcaccccag	CAAGTTCCT	GAACCCACA	AGTTTGCTG	CCTCCAGA	CTGGACGAC	Exon 6
5701	CCGGCGAG	CTGCACCTT	CAGGACATC	CCAGCACCC	CGTCCGGC	GCCCAGCAC	
5761	taagcaagg	ggctccagg	ggggctgacc	ccaggtctga	cagggctgcc	gagaccacca	
5821	agggccccc	caagcagcc	catcacagac	gccctgccc	acctccccag	tcgtggtgg	
5881	atggggtgtg	gcctttgccc	ccatgaccct	gagtggccc	cccagGCCC	GATCTGCAC	Exon 7
5941	CAGCTGCTG	CCCTGGTGG	CCCTGAGTG	AGCGTGCCA	AGGAGCCCT	CGTGCTAAG	
6001	TGCCAGGCG	ACGTGGCCG	AGCCCCCAG	CCAGGCCAC	AGAACAGCA	TTGTGCCAC	
6061	CTGTCCGAG	ACTCCCGCA	GTGCAGCAT	GTGGCCAGC	CGGTCCGCC	CTGGCGGAG	
6121	CCCGGCTGT	GCTgtgagtc	caggggaagg	agagggagg	gcaggaagg	cgagggctcc	
6181	agaccagct	ctcccagccc	ctggactgcc	tgacgtgacg	cctgcatccc	tcctggtctg	
6241	agagacagga	gatcctcgct	gctgcttcta	gatggaggaa	gggctgggct	aagtccctca	
6301	tcaagctggg	gtggggcagg	gaggggtggg	gggggtggga	ccctctcacc	ggagccgcgt	
6361	gtgcccacag	CCGTGGGTCA	GTGCCCCGCC	AACCAGGTGT	ACCAGGAGTG	CGGCTCGGC	Exon 8
6421	TGCGTGAAG	CCTGCTCCA	CCCGCAGCAC	AGCTGCTCCA	GCTCCTGCAC	CTTCGGGTGC	
6481	TTCTGCCCG	AAGgtgagg	cagtcgcagg	cactctctct	ccccgggacc	cctagagaga	
6541	acccagagac	aaggggacgt	cagaccccac	ccaccccgac	ccaggtcacc	ccaacattct	
6601	gctgcctgag	tcccagctct	ggcgctctt	gccctgggac	aggcttttcc	cgctggagc	
6661	cttacagcct	gcaggtcccc	cagccacggc	cacccctgca	aaccacggg	cgggtgaggg	
6721	tgctcactgc	ggtctaggag	ctgccgagg	aaggcagggt	ttgagccggg	cccaagggac	
6781	agttacacgt	ccctgcctgc	tggaggccac	cactcaccag	gaacctggg	cgggcacatt	
6841	ggcacgagg	gctgtgcacg	cccagggcct	gacatagagt	tgcgaatgca	agtgcagctg	
6901	gagagaggtc	atggcccagg	ctagaggggg	cgtctccctg	gagccaggct	ggaggggctg	
6961	ctccctggag	ccaggctgga	gggggcgtct	ccctggagcc	aggctggagg	gggcgtctcc	
7021	ctggagccag	ggaggggaga	gtgggaggca	gtcagtccca	cccaagcccc	aagaagaccc	Exon 9
7081	tctcctgcag	GTACGGTCCT	GAATGACCTC	TCCAATAACC	ACACCTGCGT	GCCCGTCACC	
7141	CAGTGCCCT	GTGTGCTCCA	CGGCGCCATG	TATGCCCCCG	GGGAGGTCAC	AATAGCTGCC	

7201	TGCCAAACCT	Ggtgagtga	gcgcggag	gggtcttgg	cgccggcag	gggttccact	
7261	ggcctagggc	aggcaggggt	gtgctgtctg	gctccagcgg	ccctgcccac	catgccgcta	
7321	cccccacgcc	caccacagC	CGGTGCACCC	TGGGCCGCTG	GGTGTGCACG	GAGCGGCCGT	Exon 10
7381	GCCCCGGACA	CTGCTCCCTG	GAAGGTGGCT	CCTTTGTTAC	CACATTTGAC	GCCAGGCCCT	
7441	ACCGCTTCCA	CGGCACCTGC	ACCTACATCC	TCCTCCAGgt	aggacgagcc	ctgtggcccg	
7501	tggggagggg	cgctcccgggt	gacccacccc	gtgtctgagc	cccggcccct	cgcagAGCCC	Exon 11
7561	CCAGCTTCCC	GAGGACGGTG	CCCTCATGGC	TGTGTACGAC	AAGTCCGGCG	TCTCACACTC	
7621	CGAGACCTCC	CTGGTGGCTG	TGGTCTACCT	CTCCAGGCAG	gtaaggcctt	tcctgcgccc	
7681	atccctgcc	gcaggggtcc	gctccctggt	gcctgcaccc	tgactcaggg	caccctctct	
7741	ccagGACAAA	ATTGTGATCT	CTCAGGACGA	GGTGGTCACC	AACAACGGAG	AAGCCAAGTG	Exon 12
7801	GCTGCCATAC	AAGACTCgta	cgctcctggcc	cagtctgttg	ccccccagag	ttgtgccttc	
7861	ggggcgggct	gcagtgggtg	gggagggagc	ccagacggcc	cactgagcac	tgctgcctgc	
7921	agGCAACATC	ACGGTCTTCA	GGCAGACGTC	CACCCACCTC	CAGATGGCCA	CCAGCTTCGG	Exon 13
7981	GCTGGAGCTC	GTGGTCCAGC	TGCGCCCCAT	CTTCCAGGCC	TATGTCACTG	TTGGGCCCCA	
8041	GTTCAGAGGT	CAGACCAGAG	gtgagtccct	gcctctccag	gtggccctgt	tgctcatcc	
8101	ctacagggtc	tggccatgac	caggggagga	gaaagggtcca	agagaggttc	acacaaccct	
8161	ctgtgtccgg	ggagccccc	ggggtaaacg	gcacgtgttg	cccacgcagc	ctctcacc	
8221	gggtgtgttt	agaggaagga	cgggagctcc	agggcgtgtg	ggcaggaatg	ggtgcaggag	
8281	ggatgggttc	aagctcaggt	cacgccccgc	cggtcagGG	CTCTCGGGCA	ACTTCAACGG	Exon 14
8341	GGACACAACG	GATGACTTCA	CCAATAGCAT	GGGTATCGCC	GAGGGCACCG	CCTCGCTGTT	
8401	TGTGGACTCC	TGGCGGGCGG	GGAAGTGTCC	GGCCGCTCTG	GAGCGTGAGA	CTGACCCCTG	
8461	CTCCATGAGC	CAGCTCAACA	gtgagtgtcc	ggccccccac	tcccctggct	ggccccccag	
8521	cgcccacagt	tctgacagac	ccctggactg	gaccacaggc	ccagctgcc	gggtgggggg	
8581	tccctgggag	gagccgtagc	tggaaatggga	ggggccggga	ctcacgccc	ggcctgtcat	
8641	ccccagAGGT	GTGTGCAGAG	ACCCACTGCT	CCATGCTGCT	GAGGACAGGC	ACGGTGTTCG	Exon 15
8701	AGAGGTGCCA	CGCCACAGTG	AACCCTGCAC	CCTTCTACAA	Ggtgagggcc	cgagggcgct	
8761	ttgggagggc	tgcaggggag	gctgtgtgtg	ctgacaagg	ctcaggcacc	caagggcata	
8821	ggtttgggac	ccccatgtcc	ccagggcagg	gtgcctgcca	ccagcccatt	ctggctctct	
8881	gcccgcagAG	GTGCGTGTAC	CAGGCCTGCA	ACTACGAGGA	GACCTTTCCC	CACATCTGTG	Exon 16
8941	CCGCCCTGGG	CGACTACGTA	CACGCCTGCT	CCTTGCGGGG	CGTCTGCTC	TGGGGCTGGA	
9001	GAAGCAGTGT	GGACAAGTGC	Agtgagtgcc	cgacgggggt	taagcgggg	cacggcaggc	
9061	tgggctcacg	agggggtgtc	ctgggacccc	aagctctgag	gctctgcagt	gcccggcagg	
9121	caggggaacc	cgagattgcc	ctcccggccg	ccccctccc	gagagtctga	tgcccgggtc	
9181	ccccacagCC	ATCCCCTGCA	CGGGTAACAC	CACCTTCAGC	TACAACAGCC	AAGCCTGTGA	Exon 17
9241	GCGCACCTGC	CTGTCGCTGT	CGGACCGTGC	CACCGAGTGC	CACCACAGCG	CCGTGCCCCG	
9301	GGACGGTTGC	AACTGCCCCG	ATGGCACCTA	CCTGAACCAA	AAGGGCGAGT	GTGTGCGCAA	
9361	GGCCACAGTG	CCGTGCATAC	TGGAGGGTTA	CAAGTTCATC	CTGGCCGAGC	AGTCCACTGT	
9421	CATCAACGGC	ATCACCTGgt	gagggaccgg	gcagggggcc	ggcgggggg	ccctgccagg	
9481	tcccggggtc	tcacgcagcc	tctctcttgc	agCCACTGCA	TCAACGGGCG	GCTGAGTTGC	Exon 18
9541	CCGCAGCGGC	CACAGATGTT	CCTGGgtacg	tcacgcagcg	ctggccgcag	gctgggactg	
9601	tgagggggcc	cggttctctc	tgagtgtcct	gaccgcgcac	ccctctttcc	tgagCCTCC	
9661	TGCCAGGCC	CTAAGACCTT	CAAGTCCTGC	AGCCAGTCCT	CCGAGAACAA	GTTTGGGGCA	Exon 19
9721	GCCTGTGCC	CCACATGCCA	GATGCTGGCC	ACCGGTGTTG	CCTGCgtaag	ggggcgcgcg	
9781	aggagcaggg	acaatgcccg	ggccccagct	gaacatgag	ggggtttcca	cagaactccg	
9841	ggagacctgg	ccgcattctg	ccctgcagcg	ggtgcctggg	gctggccacg	aggtggaagc	
9901	ggccctgtgg	ccaggcagct	ggaggccccg	ggggctcgtc	tcaggggctc	cctaaggaca	
9961	gtgggcacca	gctcggggag	ggtgggctgc	ccatgtgtgg	gagtgggtac	agcagcccag	
10021	ccgtgtgcac	tgggtcccag	gaccttccac	gaggtggggg	aagctttgct	aaggcagtaa	
10081	gccagctgc	ccacaaaggc	cacagagcag	ggctgtattc	agggagagga	cctgggagac	
10141	acgccgggca	gtctcagagg	ggcccagggc	tgggcagcag	ctggctgagg	ccaccctccc	
10201	aggagctgct	gacctgcctc	cctccagGTG	CCCACCAAGT	GTGAGCCTGG	CTGTGTCTGC	Exon 20
10261	GCCGAGGGCC	TCTACGAGAA	TGCCGACGGG	CAGTGTGTGC	CCCCCGAGGA	GTGCCCATGT	

10861	CCGGGGTCAC	ATGCTCACGG	GCCATCAAGA	TCTTCCTGGG	Ggtgagcagc	cgggcagact	Exon 22
10921	ctggcagggc	aggacgggcg	gtagggggcc	ctgccacaca	gctggatccc	gcgcactgga	
10981	gcctccaggt	cctgccccga	gatgcagccc	tccccgcctg	cctctccttg	aggggtgcct	
11041	gctgcccctc	cctggccaga	cgctcaggac	cacgggtgct	tgtgccccac	aaggtttcag	
11101	ggactgcaga	atgtctcccg	ggcagagggg	agggactctc	caggaagccc	gagcttcagc	
11161	cctcagccct	gttccaggca	tgccaggccc	ttctgcccc	agctggctct	cagcaggcgc	Exon 23
11221	tcctgtgcat	ggccttaaca	gacctgggca	gctctgtctc	tgagagctcg	gtccagcacg	
11281	gctgtgccag	gggccggggg	agacagacag	gcagtcctat	gccaacccca	ccccacagGG	
11341	CCTGTCCGTG	GTGCTGGCGG	ACAGAACTA	CACGGTCACC	GGGGAGGAGC	CCCACGTGCA	
11401	GCTCGGGGTG	ACGCCGGGTG	CGCTGAGCCT	TGTCGTGGAC	ATCAGCATCC	CCGGGAGGTA	
11461	CAACCTGACG	CTCATCTGGA	ACAGGCACAT	GACCATCCTC	ATCAGGATCG	CCCGTGCCTC	Exon 24
11521	CCAGgtaccg	cacgccctct	gcctcctccc	aggccctccc	tgatgcaggg	gtggagacag	
11581	atggcacggc	ccctgggccc	ggcctgatgc	caccgtctgc	agGATCCCCCT	CTGCGGCTTG	
11641	TGTGGCAACT	TCAACGGGAA	CATGAAGGAC	GACTTCGAGA	CGCGCAGCAG	GTACGTGGCA	
11701	TCCAGCGAGC	TGGAGTTGGT	GAACCTCGTG	AAGGAGAGCC	CGCTGTGCGG	GGACGTGAGC	
11761	TTCGTGACAG	ACCCCTGCAG	TCTCAATGCC	TTCCGGCGCT	CCTGGGCCGA	GCGCAAGTGC	Exon 25
11821	AGCGTCATCA	ACAGCCAGAC	CTTTGCCACC	TGCCACAGCA	AGgtgggcac	cgggcacgag	
11881	ggctgtgcgc	ctgcccctcc	acaaatgtcc	ggtgggggcg	ggggaagggg	cggggaagcc	
11941	aggcacgggt	ctccctccgt	gggatccag	accagccagg	tcagggtgca	gagagtttca	
12001	gaccctctgc	ctgagtgcag	ggccctgatg	tggggccgac	tcgtgcactg	tggctgttaa	
12061	gcagcccccc	ggcctccacc	caccagatgc	caatagcacc	cccagacagt	gccacgagtc	Exon 26
12121	ccctggggca	gcatcgccctg	gtgggcccc	tgctcaggag	ctgggtggtca	gggagacctc	
12181	caggatgcag	ggcgtgcact	tcccagccca	gggcgtgatc	cggccatcgc	ggcgcagtaa	
12241	gaactgagag	gatgggggca	ccccgcgggg	gaacagcatg	gactggccc	gctgaatgtg	
12301	agcgtgacgt	ggggggagca	gagaccctgg	gtgggactgc	agtggccgtg	gttagcgcca	
12361	gcggcatctt	ggtcccgatg	gcgggtctca	aggcgtgagc	tcgggtcagg	cctccgtggc	Exon 26
12421	agcatcggct	ccgggagcgt	ggctagcgg	cagggtgag	gtccacgtgg	tgccgctcac	
12481	ccagtccacg	cgcccttacc	gccacactcc	ggcctgacca	cactgagggc	ctgcagggtg	
12541	gcaaagcctg	atgccccgcc	atcccccgcc	agccagacac	tgactggcac	acacccctgc	
12601	agGTATACCA	CCTGCCCTAC	TACGAGGCCT	GCGTGCGCGA	CGCATGTGGG	TGTGACAGTG	
12661	GCGGGGACTG	TGAGTGTCTG	TGCGATGCCG	TGGCTGCCTA	CGCCCAAGCC	TGTCTGGACA	Exon 26
12721	AGGGTGTGTG	CGTGGACTGG	AGGACCCCGG	CCTTCTGCCg	tgagtgacca	ccccctccac	
12781	aggttgtctc	agcccctgcc	acccagcgcc	actaaggggc	ggcgcagggc	tgcccttgcc	
12841	cacaggcccc	tctccctgga	caggcgccgg	gctgtgccct	gcggggccac	cctggccctc	
12901	ccgcagcccc	cagctgcccc	ggggaggctt	caccaagagg	gcccagacct	tccccgcccc	
12961	cactcaggtt	ccatgcatgc	ccaggggaac	caccgggtca	gggccagggc	cagggccagg	Exon 26
13021	aacccaccca	gctgacagct	cccttcctcc	cagCCATCTA	CTGCGGCTTC	TACAACACGC	
13081	ACACGCAGGA	CGGCCATGGC	GAGTACCAGT	ACACACAGGA	GGCCAACTGC	ACGTGGCACT	
13141	ACCAGCCCTG	CCTCTGCCCC	AGCCAGCCAC	AGAGCGTCCC	AGGCAGCAAC	ATCGAAGgtg	
13201	ccaggtgacc	gggaggcaac	gcagatacac	aggggggacc	attcactcat	tcatgcacat	
13261	tcattcattc	acacgcattc	attcattcac	acattcattc	atgctcatta	attcacacat	Exon 26
13321	tcattaattt	gcacacattc	attcacacac	actcacgcac	attcacattc	attcatgcag	
13381	attcatgcat	tcattcacgc	atattcattc	attcacgcac	atttgttcac	ccactcacac	
13441	acactcattg	acattcattc	acacattcatt	tcacgcagtc	actacacaca	cattcattca	
13501	tgctcattca	cgcagtcaca	ttcccgcaga	ttcatgcaca	ttcattcacg	cacattcact	
13561	cacgcacatt	cacgcacact	catgcacatt	cactccattc	atccattcat	tcacccacac	Exon 26
13621	acactcattc	aacatattca	cgctcattca	cattcattca	cgcacattca	ctcaacacat	
13681	tcacattcat	tcatgctcat	tcacacattt	actcaccac	attcatgcac	attcacgcac	
13741	tcatgcattc	atttacgcac	atttgttcac	tcacgcacat	tactcatgc	acattcacgc	
13801	acattcattc	aacattcact	cacgcacatt	cacccatgca	cattcattca	cacatattca	
13861	ttcattcatt	catgtttgct	tattcattca	tgcacattcg	ctcatacaca	cacgcacatt	Exon 26
13921	catgcattca	tttgacacatt	cattctttca	cacacacagt	cactcagcag	atgggtcctg	
13981	agcacctctg	tcctccaggc	cggctccagg	tcaggggacc	tggccttaca	caaaacaaac	
14041	agtccctgcaa	cctggagctt	ccctcccagc	cagggagagg	tgcttaagga	ggcagacca	
14101	gtgtcggccg	aggcgccccc	catggagagg	agaaaggcag	gctgggggtg	gagagccaca	
14161	ggcttctgtg	ccacacaggg	tggttggggc	ccttggtggg	aggcagatgt	gagggcgagg	Exon 26
14221	atgggaaagg	tgaggagggg	agccaggaaa	gtgtccagag	gagcagccag	gagcagcctt	
14281	gtgcccagaa	cccttaagaa	agccagggca	gcgggcagag	ccagcgagt	aggggcgcgg	
14341	gctgcagagg	gcagagggag	cgggtggagg	gtgcggggct	gtagagggca	gatggagtga	
14401	gtgaggggag	cggggctgta	gagggcagaa	ggagcgagt	gggcgcgggg	ctgcagaggg	
14461	cagagcaagc	gagtgagggg	cacagggctg	cagagggcag	agggagt	tgaggggcgc	

14521	ggggctgtag	agggcagagg	gagcgagtga	ggggcggtggg	ctgcagagggg	cagagcgagt	
14581	gaggggcgcg	gggctgcaga	gggcagagggg	agcgagttag	agggcgggggg	ctgcagagggg	
14641	cagaggggagc	gagtgagggg	caccgggctg	cagaggggtg	tggggtacac	agacttggtg	
14701	ggtgggggtgt	ggccgggagg	gaggggtctt	tgtgaggcct	gtggctgccc	caaggcagag	
14761	gtctgaatgc	agagggtcct	gggattaaca	ggtcctggcc	caagtgggtg	aggaggggtg	
14821	tgtctggagc	catccggaca	cacagaggac	agatgtgttg	gggctcagga	gggcaatgca	
14881	gggcacctgc	atcggggagc	acagaagagg	ggccagtgtc	tgagggtccag	ggggaggtga	
14941	ggactggaag	atggcaccga	agccccagcc	ccgggtgata	agcagggtat	gagagaccaa	
15001	ggcctgagga	aggcatggca	ggaaaggagg	ggcttagagc	aagggtgcgcg	ggtgaaactg	
15061	taatcccagc	actctgggag	gccgaggcag	gaagatcacc	tcagggtcaag	agtttgagac	
15121	cagcctggcc	aacgtggcga	agccccatca	ctactaaaaa	tacaaaaaatt	agccgggctg	
15181	catggcacat	gcctgcaatc	gcagctacct	gggaggctgg	ggcaggagaa	tcatgtgaat	
15241	ccaggaggca	gaggttgtag	tgagcgaaga	ttgtgccact	gcactccagc	ctgggcgaca	
15301	gagcgagact	ctgtctcaaa	aaaaaaaaaa	aaaaaaagca	gagaggaagg	aggccgccag	
15361	ggcaggaaac	acgcagggtg	gcctggctgg	ccaccagtca	cacagaccct	ggccgttctc	
15421	caccctagGC	TGCTACAAC	GCTCCAGGA	TGAGTACTTC	GACCACGAGG	AGGGGGTGTG	Exon 27
15481	CGTGCCCTGC	Agtaagtcca	gtcggctgcc	ctgagaacct	tgcccctgcc	tgcattgcagg	
15541	cagaacgcac	gtccacatcc	cacaaacaag	ggagagagcc	ctcgggggct	gtgagccctt	
15601	acgtgagctc	tgggactcca	ctctccagga	ccctggcccc	ttgggtctcc	agagactcag	
15661	gcagcctcca	gcccatggca	gcagagagaa	aaaaacacag	cactgaacct	cactgggccc	
15721	tcccatcccc	tcttccacca	gtccccagct	ccccctacct	tcaccaggcc	tgccagggtg	
15781	cctgggggtat	agagtgggaa	tcatcctggg	aaggagaaag	ggagagaggg	gaggggtgggc	
15841	tcccagcccc	tccagtcccc	tccaccacag	ccttggtgag	catctctgac	tcaggccctc	
15901	ggagctccca	gaggccccac	gggggtggga	ggcttagaga	accacaggga	gctgacccca	
15961	tcttcttgca	gTGCCGCCCA	CCACGCCGCA	GCCACCCACC	ACGCCGCAGC	TGCCACCCAC	Exon 28
16021	AGgtaatgtc	acgcacacta	ggtgccaagg	tgacgcaggc	cctttcctgg	gctcccctcg	
16081	gttccctgga	caaatctgtc	gggtgggaag	cagggagggg	gcaggcagta	cctgtgccct	
16141	tctcaggtct	aacctggcaa	tcagagttgg	ggaggagctc	agcccacagc	agcaaacgag	
16201	cctggtcccc	atggccctgg	ctggaccac	ggatgagcac	agagtggggc	ctcaacagg	
16261	gacccccgcc	atgcaggagg	cccagccagg	agccaggctg	cactcagagt	gccacaggcc	
16321	agccctcaac	tgacatcat	tggcccctgc	agggctgccc	ggcttcaggg	ccaagcaggc	
16381	agaggggagg	gtgctcccca	aggatatgcc	ggtaccctgc	agccctgatg	gcatgtccgc	
16441	ccaccagGC	TCACGGCCCA	CGCAAGTCTG	GCCCATGACG	GGAACCTCCA	CCACCATCGG	Exon 29
16501	GCTTCTCAGC	TCCACCGGAC	CCTCACCCAG	CTCTAATCAC	ACCCCTGCCA	GCCCCACCCA	
16561	GACACCCCTC	CTTCCAGCCA	CGCTCACATC	CTCCAAGCCC	ACAGCCTCCT	CGGGAGgtaa	
16621	ggagcctcca	gctgagccca	tggagagggc	agctgcagga	ggtcctagg	acacctctgg	
16681	ggtgggctta	gggatggccc	tgcttcctgg	ctcacatctg	ccactaagca	gattcccagc	
16741	gtagaacttc	ctatgcttgg	gagccaaact	ggggattttt	cggaaaaaact	tttaaagaca	
16801	agctggtcat	ggcatggggc	attccttgct	gctggctgct	gtcactagaa	accgtgtggg	
16861	acctgcaggg	cctctgccag	gcagcctgcc	cctgccccac	accgagcagg	gccccatctg	
16921	ctgcccaggg	accctggagg	ggacaggacg	acagtccgtt	cagctaagca	aggggtggcg	
16981	caggagcagc	cgcagcccca	taagcatgtg	gtcactgccc	cagctctggc	caccacagcc	
17041	aggagtacgg	tgggaggacc	taacaaaggc	aagaggaaga	gcccctccaa	ggaggctgag	
17101	tcccggacag	caggccaggg	atcccagaag	cagggcaggg	ggctgggaca	gaagccttcg	
17161	aaatgcaggc	ccacagcaag	gggatgttcc	gggcggctgt	cctctgcagA	ACCACCTAGA	Exon 30
17221	CCAACACGG	CCGTACCCCC	ACAAGCCACA	TCAGGGCTGC	CTCCCACAGC	CACACTGAGA	
17281	TCGACAGCCA	CAAAACCCAC	AGTGACCCAG	GCCACAACCA	GGGCCACGGC	GTCGACCGCC	
17341	AGCCCAGCCA	CGACGTCCAC	AGCTCAGTCC	ACAACACGGA	CCACAATGAC	ACTACCAACC	
17401	CCAGCCACAT	CAGGGACAAG	CCCCACGCTG	Cgtaagtcat	ggcgccatgg	gatgccagca	
17461	ctgccgaagg	caccgggtcc	caccaccagc	tcacattcag	tgattcagcc	ataaagaaga	
17521	ccccgtattt	cccagagggc	aagcgagaag	gcagcccaaa	agtgtaggct	ggagctggag	
17581	gcaaggaagg	ccgcctggca	ctcacaagg	caggcctggg	gagcagaggt	gcaggagggg	
17641	ggggggccacc	accacggcca	cagggaaacca	gaaggggata	aagtagggcc	tgggttccag	
17701	tcacagagcg	gcagctgcac	tgaaggagtc	agcacgcagc	tcagggcagg	atgtggagca	
17761	agtccagggtg	agatggagac	aatggggcag	gctggagtgc	ccagcagggg	ccatgtcaca	
17821	ggaacagagg	cacagacagg	caagaaaaag	gtcacataga	caaaaggacg	ggccagcgga	
17881	ggtcagggtga	gagaaacaaa	aacaataacg	atgacaactt	caccaattcc	cacagCAAAA	
17941	TCGACCAATC	AGGAACTGCC	AGGAACAACG	GCCACCCAGA	CGACAGGCC	ACGTCCAACC	Exon 31
18001	CCAGCAAGCA	CCACAGGCCC	AACCACCCCA	CAGCCAGGAC	AACCCACGAG	GCCCACAGCC	
18061	ACAGAGACCA	CTCAAACAAG	AACGACTACT	GAATACACAA	CGCCCCAAAC	CCCACACACC	
18121	ACACACTCCC	CGCCTACGGC	GGGGAGTCCC	GTCCCTTCCA	CAGGTCTCTG	CAGTGAACA	

18181 TCTTTCCATG CCACCACTAC CTATCCAACC CCATCACACC CTGAGACCAC ACTTCCCCT
18241 CACGTTCCAC CTTTCTCCAC CTCCTTGGTG ACTCCAAGTA CTCACACAGT CATCACCCCT
18301 ACCCAGGCAC AGATGGCCAC ATCTGCCTCC AACCCTCAG CGCCAACAGG TACCATTCT
18361 CCACCAACAA CGCTCAAGGC CACAGGGTCC ACCCACACAG CCCACCAAT AACGCCGACC
18421 ACCAGTGGGA CCAGCCAAGC CCACAGCTCA TTCAGCACAA AAAAAACACC TACCTCGCTA
18481 CATTACACACA CTTCTCCAC ACACCATCCT GAAGTCACCC CAACTTCTAC TACCACGATT
18541 ACTCCAACC CCACTAGTAC ACGCACCAGA ACCCTGTGG CCCACACCA CTCAGCCACC
18601 AGCAGCAGGC CACCACCACC CTTACCACA CACTCCCCAC CTACAGGGAG CAGTCCCTTC
18661 TCTTCCACAG GTCCCATGAC GGCAACATCC TTCAAGACCA CCACTACCTA TCCAACCCCA
18721 TCACTCCCTC AGACCACTCT TCTCACTCAC GTTCCACCTT TCTCAACCTC TTTGGTGACT
18781 CCAATTACTC ACACAGTCAT CACCCCTACC CACCCACAGA TGTCCACTTC TGCCTATATC
18841 CACTCAACGC CAACAGGCAC GATTGCTCCA CCAACAACAG TTAAGGCCAC AAGGTCCACC
18901 TACACAGCCC CACTAATGAC GGCAACCACC AGTAGGATCA GCCAAGCCCA CAGCTCAATC
18961 AGCACAGCCA AAACCTCTAC ATCCCTCCAC TCACATGCTT CCTCCACACA CCATCCTGAA
19021 GTCACCCCAA CTTCTACCAC CAACGTGACT CCCAAGTCCA CCAGTAGAGG CACCAGCACC
19081 CCTGTGACCC ACACCACCTC GGCCACCAGT AGCAGGCCAC CCACACCCAT CACAACACAC
19141 TCTTACCTA CCAGGAGCAG TCCCTCTCT TCCACAGGTC GTATGACTGC AACATCTCTC
19201 AAGACCACCA CTACCTATCC AACCCTATCA CAAGCTCACA TCACACTTCC CATTCTGTT
19261 CCACCTTTCT CCACCTCATC GGTGACTCCA AGTACTCACA CAGTCATCAC CCAACCCAC
19321 CCACAGATGT CCACTTCTGC CTCCAACCAC TCAACGTCAA CAGGCACCAT TCCTCCACTG
19381 ACAACGCTCA TGGCCACAGG GTCCACACAC ACAGCCCCAC TAATAACAGT GACCACCAGT
19441 AGGACCAGCC AAGTCCACAG CTCCTTCAGC ACAGCCAAAA CCTCTACATC CCTCCTCTCC
19501 CATGCTTCCT CCACACACCA TCCAGAAATC ACCACAAATT CTACCACCAC CATTACTCCC
19561 AACCCTACTA GTACAGGCAC CGGAACCCCT GTGGCCACA CCACCTCAGC CACCAGCAGC
19621 AGGCCACCAC CACCTTTCAC CACACATCC CCACCTACAG AGAGCAGTCC CCTCTCTCCC
19681 ACAGTGCTTA TGACTCCAAC ATCCTTCAAG ACCACCACTA CCTATCCAAC CACATCACAC
19741 CCTCAGACCA CACTTCCCAC ATCAGTTCCA CTTTCTCCA GCTCGTCAGT GCTCCAAGT
19801 ACTCACACAG TCATCACCCC TACCCATGCA CAGATGTCCA CTTCTGCCTC GATCCACTCA
19861 ACGCCAACAG GTACCATTC TCCACTGACA ACGCTCACGG CCACAGGGTC CACACACACA
19921 GCCTACCAA TGACGGGGAC AACCATTCTGG ACCACCAAG CCCACAGCTC ATTCAGCATA
19981 GCCAAACCT CTACATCCAT CCTCTCACAT GCTTCTCCA CACACCATCC GGAAACCACA
20041 CCAACTTCTA CCACCAACAT TACTCCCAAG TCCACTAGTG CAGGAACCAG CACCCCTGTG
20101 GCCACACCA CTTGGCCAC CAGCAGCAGG CCACCCACAC CTTTACCAC AACTCCCCA
20161 CCTACAGGGA GCAGTCCCAT CTCTTCCACA GGTCTATGA CTGCAACATC CATCAAGACC
20221 ACCACGACCT ATCCAACCCC ATCACACCT CAGACCACAC TTACCACTCA TGTTCACCT
20281 TTCTCCACCT CATCAGTCAC TCCAAGTACT CACACAGTCA TCACCCCTAC CCACGCACAA
20341 ATGTCCACTT CTGCTTCGAT CCACTCAACG CCAACAGGCA CCGTTCTCTC ACTGACAACG
20401 CGCATGCCCA CAGGGTCGAC ACACACAGGC CCACCAATGA CGGGGACCAT TATTCAGACA
20461 AGCAAAGCTC ACAACTCATT CAGCACAGGC AAAACTTCTA CATCTCTCCA CTCACATGCT
20521 TCCTCCACAC ACCATCCTGA AACCACACCA ACTTCTACCA CCAACATTAC TCCAAGTCC
20581 ACTAGTGCAG GAACCAGCAC CCCTGTGGCC CACACCACCT TGGCCACCAG CAGCAGGCTA
20641 CCCACAACCT TCACCACACA CTTCCACCT ACAGGGAGCA GTCATGTCTC TTCCACAGGT
20701 CCTATGACTG CAACATCCTC CCAGACCACC ACTACCCATC CAACCCCATC ACACCTCAG
20761 ACCACACTTC CCACTACAT TCCACCTTTC TCCACCTCCT TGGTGACTCC AAGTACTCAC
20821 ACAGTCATCA CCCCTACCCA CGCACAAGTG TCCACTTCTG CCTCCATCCA CTCAACACCA
20881 ACAGGCACCA TTCCTCCACC TACAACGGTA AAGGCCACAG GCACAGGGTC CACGCACACA
20941 GCACCACGAA TGACAGTGAC CACCAGCGGG ACCAGCCAAG CGCACAGCTC TTTCAGCACA
21001 GCCAAACCT CCACATCCCT AACTCACAT GCTTCTTCAA CACTCCATCC TGAAGTCACC
21061 CCAACTTCTA CCACCACCAT CACCCCAAC CCCACCAATA CAGGCATCAG AACGCCTGTG
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21721 CCTATGACTG CAACATCCTT CCAGACCACC ACTACCTATC CAACACCATC ACTCTCTCAG
21781 ACCACTCTTC CCACTTACGT TCCACCTTTC TCCACCTCCT TGGTGACTCC AAGTACTCAC

Exon 31

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 24301 CACCCTCAGA CCACACTTCC CACTCACGTT CCATCTTTCT CCACCTCCTT GGTGACTCCA
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Exon 31

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Exon 31

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Exon 31

Exon 32

Exon 33

32821	ACCGTCCAAC	ACCTCCCAGC	CCCTGAACTT	GGCCCCAGCC	CTGCTGGGCC	CAGAACCCTG
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32941	ACCTGTGCCG	AGATGGGGGC	AAGAGGCCCA	GGCAGCCACC	AGCACAGAGA	AGAGGAGATC
33001	CCCAGAGTCA	GGGAGGGCAG	AGGGTGGCAG	CGAGGGCAGG	GCAGCCGCCC	CCGCTCCCAG
33061	CCAGGCAGAA	GGCCCCACC	AGCACCACAC	CCATCCCCAG	CAGCCTGTCC	TTGGGAGAGG
33121	GCGTCACCCG	GTCAGAGACT	CCAAATAAAC	CGGTTCTTGT	CAAGGCA	

Figure S7. Complete MUC2 mRNA sequence.

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2581 ACCAGGCTG TGTGCCATGG CACCTGCTCC ATTTACGGGA GTGGCCACTA CATCACCTTT
2641 GATGGGAAGT ACTACGACTT TGACGGACAC TGCTCCTACG TGGCTGTTCA GGACTACTGC
2701 GGCCAGAACT CCTCACTGGG CTCATTGAGC ATCATCACCG AGAACGTCCC CTGTGGCACT
2761 ACGGGCGTCA CCTGCTCCAA GGCCATCAAG ATCTTCATGG GGAGGACGGA GCTGAAGTTG
2821 GAAGACAAGC ACCGTGTGGT GATCCAGCGT GATGAGGGTC ACCACGTGGC CTACACCACG
2881 CGGGAGGTGG GCCAGTACCT GGTGGTGGAG TCCAGCACGG GCATCATCGT CATCTGGGAC
2941 AAGAGGACCA CCGTGTTTCAT CAAGCTGGCT CCCTCCTACA AGGGCACCGT GTGTGGCCTG
3001 TGTGGGAAC TTAGACCACG CTCCAACAAC GACTTCACCA CGCGGGACCA CATGGTGGTG
3061 AGCAGCGAGC TGGACTTCGG GAACAGCTGG AAGGAGGCCC CCACCTGCCC AGATGTGAGC
3121 ACCAACCCCG AGCCCTGCAG CCTGAACCCG CACCGCCGCT CCTGGGCCGA GAAGCAGTGC
3181 AGCATCCTCA AAAGCAGCGT GTTCAGCATC TGCCACAGCA AGGTGGACCC CAAGCCCTTC
3241 TACGAGGCCCT GTGTGCACGA CTCGTGCTCC TGTGACACGG GTGGGGACTG TGAGTGCTTC
3301 TGCTCTGCCG TGGCCTCCTA CGCCCAGGAG TGTACCAAAG AGGGGGCCTG CGTGTTCCTG
3361 AGGACGCCGG ACCTGTGCCC CATATTCTGC GACTACTACA ACCCTCCGCA TGAGTGTGAG
3421 TGGCACTATG AGCCATGTGG GAACCGGAGC TTCGAGACCT GCAGGACCAT CAACGGCATC
3481 CACTCCAACA TCTCCGTGTC CTACCTGGAG GGCTGCTACC CCCGGTGCCC CAAGGACAGG
3541 CCCATCTATG AGGAGGATCT GAAGAAGTGT GTCAGTGCAG ACAAGTGTGG CTGCTATGTC
3601 GAGGACACCC ACTACCCACC TGGAGACTCG GTTCCCACCG AGGAGACCTG CAAGTCCTGC
3661 GTGTGTACCA ACTCTCCCA AGTCGTCTCG AGGCCGGAGG AAGGAAAGAT TCTTAACCA
3721 ACCCAGGATG GCGCCTTCTG CTACTGGGAG ATCTGTGGCC CCAACGGGAC GTTGGAGAA
3781 CACTTCAACA TCTGTTCCAT TACGACACGC CCGTCCACCC TGACCACCTT CACCACCATC
3841 ACCCTCCCCA CCACCCCCAC CACCTTCACC ACTACCACCA CCACCACCAC CCCGACCTCC

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3901	AGCACAGTTT	TATCAACAAC	TCCGAAGCTG	TGCTGCCTCT	GGTCTGACTG	GATCAATGAG
3961	GACCACCCCA	GCAGTGGCAG	CGACGACGGT	GACCGAGAAA	CATTTGATGG	GGTCTGCGGG
4021	GCCCCTGAGG	ACATCGAGTG	CAGGTCGGTC	AAGGATCCCC	ACCTCAGCTT	GGAGCAGCTA
4081	GGCCAGAAGG	TGCAGTGTGA	TGTCTCTGTT	GGGTTTCATTT	GCAAGAATGA	AGACCAAGTTT
4141	GGAAATGGAC	CATTTGGACT	GTGTTACGAC	TACAAGATAC	GTGTCAATTG	TTGCTGGCCC
4201	ATGGATAAGT	GTATCACCAC	TCCCAGCCCT	CCAACCTACCA	CTCCCAGCCC	TCCACCAACC
4261	AGCACGACCA	CCCTTCCACC	AACCACCACC	CCCAGCCCTC	CAACCACCAC	CACAACCACC
4321	CCTCCACCAA	CCACCACCCC	CAGCCCTCCA	ATAACCACCA	CGACCACCCC	TCCACCAACC
4381	ACCACTCCCA	GCCCTCCAAT	AAGCACCACA	ACCACCCCTC	CACCAACCAC	CACTCCCAGC
4441	CCTCCAACCA	CCACTCCCAG	CCCTCCAACC	ACCACTCCCA	GCCCTCCAAC	AACCACCACA
4501	ACCACCCCTC	CACCAACCAC	CACCTCCAGC	CCTCCAACGA	CTACGCCCCT	CACTCCACCA
4561	GCCAGCACTA	CCACCCTTCC	ACCAACCACC	ACTCCCAGCC	CTCCAACAAC	CACCACAACC
4621	ACCCCTCCAC	CAACCACCAC	TCCCAGTCCT	CCAACGACTA	CGCCCATCAC	TCCACCAACC
4681	AGCACTACTA	CCCTTCCACC	AACCACCACC	CCCAGCCCTC	CACCAACCAC	CACAACCACC
4741	CCTCCACCAA	CCACCACTCC	CAGCCCTCCA	ACAACCACCA	CTCCCAGTCC	TCCAACAATC
4801	ACCACAACCA	CCCCTCCACC	AACCACCACC	CCCAGCCCTC	CAACAACGAC	CACAACCACC
4861	CCTCCACCAA	CCACCACTCC	CAGCCCTCCA	ACGACTACAC	CCATCACTCC	ACCAACCAGC
4921	ACTACCACCC	TTCCACCAAC	CACCACTCCC	AGCCCTCCAC	CAACCACCAC	AACCACCCCT
4981	CCACCAACCA	CCACTCCCAG	CCCTCCAACA	ACCACCCTC	CCAGCCCTCC	AATAACCACC
5041	ACAACCACCC	CTCCACCAAC	CACCACTCCC	AGCTCTCCAA	TAACCACCAC	TCCCAGCCCT
5101	CCAACAACCA	CCATGACCAC	CCCTTCACCA	ACCACCACCC	CCAGCTCTCC	AATAACCACC
5161	ACAACCACCC	CTTCCTCAAC	TACCACTCCC	AGCCCTCCAC	CAACCACCAT	GACCACCCCT
5221	TCACCAACCA	CCACTCCCAG	CCCTCCAACA	ACCACCACGA	CCACCCTTCC	ACCAACCACC
5281	ACTTCCAGCC	CTCTAACAAC	TACTCCTCTA	CCTCCATCAA	TAATCCTTCC	TACATTTTCA
5341	CCATTCTCAA	CGACAACCCC	TACTACCCCA	TGCGTGCCCT	TCTGCAATTG	GACTGGCTGG
5401	CTGGATTCTG	GAAAACCCAA	CTTTCACAAA	CCAGGTGGAG	ACACAGAATT	GATTGGAGAC
5461	GTCTGTGGAC	CAGGCTGGGC	AGCTAATCAT	TCTTGACAGG	CCACCATGTA	TCCTGATGTT
5521	CCCATTGGAC	AGCTTGGACA	AACAGTGGTG	TGTGATGTCT	CTGTGGGGCT	GATATGCAAA
5581	AATGAAGACC	AAAAGCCAGG	TGGGGTGCATC	CCTATGGCCT	TCTGCCCTCA	CTACGAGATC
5641	AACGTTTCAGT	GCTGTGAGTG	TGTCACCCAA	CCCACCACCA	TGACAACCAC	CACCACAGAG
5701	AACCCAACCTC	CGACACCAAT	CACCACCACC	ACTACGGTGA	CCCCAACCCC	AACACCCACC
5761	AGCACACAGA	GTACAACACC	AACACCCATC	ACCACCACCA	ATACGGTAAC	CCCCAACCCCA
5821	ACCCCCACTG	GCACACAGAC	CCCAACCCCG	ACACCCATCA	CCACCACCAC	CACTATGGTG
5881	ACCCAACCCC	CAACAATCAC	CAGCACACAG	ACCCAACCCC	CGACACCCAT	CACCACCACC
5941	ACGGTGACCC	CAACCCCAAC	ACCCACCAGC	ACACAGAGAA	CAACACCGAC	ATCCATCACC
6001	ACCACCACCA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA	CACAGACCCC	AACCACGACA
6061	CCCATCACCA	CCACCACCAC	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA
6121	ACAACGACAC	CCATCAGCAC	CACCACCACG	GTGACCCCAA	CCCCAACACC	CACTGGAACA
6181	CAGACCCTAA	CCCCAACACC	CATCACACC	ACCACTACGG	TGACCCCAAC	CCCTACACCC
6241	ACGGGCACAC	AGACCCCAAC	ATCGACACCC	ATCACACCA	CCACTACGGT	GACCCCAACA
6301	CCAACACCCA	CTGGCACAAC	GACCCCAACC	CTGACACCCA	TCACCACCAC	CACTACGGTG
6361	ACCCAACCCC	CAACACCCAC	CGGCACACAG	ACCCAACCCA	CGACACCCAT	CACCACCACC
6421	ACTACGGTGA	CCCCAACCCC	AACACCCACC	GGCACAAGA	GTACAACCCC	GACATCCATC
6481	ACCACCACCA	CTATGGTGAC	CCCAACCCCA	CCACCCACTG	GCACACAGAC	CCCAACCACG
6541	ACACCCATCA	CCACACCAC	TACGGTGACC	CCAACCCCAA	CACCCACCGG	CACACAGACC
6601	CCAACCCCGA	CACCCATCAC	CACCACCACC	ACGGTGACCC	CAACCCCAAC	ACCCACCGGC
6661	ACACAGACCC	CAACATCGAC	ACCCATCAC	ACCAACACTA	CGGTGACCCC	AACCCCAACA
6721	CCAACCGGCA	CACCGAGTAC	AACCTGACA	CCCATCACCA	CCACCCTAC	GGTGACCCCA
6781	ACCCAACAC	CCACCGGCAC	ACAGACCCCA	ACATCGACAC	CCATCAGCAC	CACCACTATG
6841	GTGACCCCAA	CCCCAACACC	CACCGGCACA	CAGACCCCAA	CCCCTACACC	CATCTCCACC
6901	ACCACTACGG	TGACCCCAAC	CCCAACACCC	ACCGGCACAC	AGACCCCAAC	CCCGACACCC
6961	ATCACACCA	CCACCACGGT	GACCCCAACC	CCAACACCCA	CCGGCACACA	GACCCCAACA
7021	TCGACACCCA	TCACCACCAC	CACTACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG
7081	ACCCAACCA	CGACACCCAT	CACCACCAAC	ACCACGGTGA	CCCCAACCCC	GACACCCACC
7141	GGCACACAGA	CCCCAACACC	GGTACTCATC	ACCACCACCA	CTACGATGAC	ACCAACCCCA
7201	ACACCCACCA	GCACAAAGAG	TACAACCGTG	ACACCCATCA	CCACCACCAC	TACTGTGACC
7261	CCAACCCCAA	CACCCACCGG	CACACAGAGT	ACAACCCCTGA	CACCCATCAC	CACCACCACC
7321	ACGGTGACCC	CAACCCCAAC	ACCCACCGGC	ATACAGACCC	CAACAACGAC	ACCCATCAGC
7381	ACCACCACCA	CCGTGACCCC	AACCCCAACA	CCCACCGGCA	CACAGACCCC	AACATCGACA
7441	CCCATCACCA	CCACCACTAC	GGTGACCCCA	ACCCCTACAC	CCACTGGCAC	ACAGACCCCA
7501	ACATCGACAC	CCATCAGCAC	CACCACTACG	GTGACCCCAA	CAGCAACACC	CACCGGCACA
7561	CAGACCCCAA	CCCTGACACC	CATCACCACC	ACCACTACGG	TGACCCCAAC	CCCAACACCC
7621	ACCGGCACAA	AGAGTACAAC	CCCGACATCC	ATCACCACCA	CCACTACGGT	GACCCCAACC
7681	CCAACACCCA	CTGGCACACA	GACCCCAACC	ACGACACCCA	TCACCACCAC	CACCACGGTG
7741	ACCCAACCCC	CAACACCCAC	CGGCACACAG	ACCCCAACCC	CGACACCCAT	CACCACCACC
7801	ACCACGGTGA	CCCCAACCCC	AACACCCACC	AGCACACAGA	CCCCAACATC	GACACCCATC
7861	ACCACCACCA	CTACGGTGAC	CCCAACCCCA	ACACCCACTG	GCACACAGAC	CCCAACCACG

7921	ACACCCATTA	CCACGACCAC	CACGGTGACC	CCAACCCCAA	CACCCACCGG	CACACAGGCC
7981	CCAACCCCAA	CAGCCATCAC	CACCACCACT	ACGGGGACCC	CAACCCCAAC	ACCCACCGGC
8041	ACACAGACCC	CAACCACGAC	ACCCATCACC	ACCACCACTA	CGGTGACACC	AACCCCAACA
8101	CCCACCGGCA	CACAGTCCCC	AACCCCAACA	GCCATCACCA	CCACCACTAC	GGTGACCCCA
8161	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA	ACCACGACAC	CCATCACCAC	CACCACCACG
8221	GTGACCCCAA	CCCCGACACC	CACCGGCACA	CAGAGTACAA	CCCTGACACC	CATCACCACC
8281	ACCACCACGG	TGACACCAAC	CCCAACACCC	ACTGGCACAC	AGACCCCAAC	ATCGACACCC
8341	ATCACCACCA	CCATTACGGT	GACCCCAACC	CCAACACCCA	CCGGCACACA	GACCCCAACC
8401	CCGACACCCA	TCTCCACCAC	CACTACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG
8461	ACCCCAACAT	CGACACCCAT	CACCACCACC	ACCACGGTGA	CCCCAACCCC	AACACCCACC
8521	GGCACACAGA	CCCCAACAAAC	GACACCCATC	AGCACACCCA	CCACGGTGAC	CCCCAACCCA
8581	ACACCCACCG	GCACACAGAC	CCCAACATCG	ACACCCATCA	CCACCACCAC	CACGGTGACC
8641	CCAACCCCAA	CACCCACCGG	CACACAGACC	CCAACCACGA	CACCCATCAG	CACCACCACC
8701	ACGGTGACCC	CAACCCCAAC	ACCCACCGGC	ACACAGACCC	CAACATCGAC	ACCCATCACC
8761	ACCACCACCA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA	CACAGACCCC	AACCCCGACA
8821	CCCATCACCA	CCACCACCAC	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA
8881	ACATCGACAC	CCATCACCAC	CACCACCACG	GTGACCCCAA	CCCCAACACC	CACCGGCACA
8941	CAGACCCCAA	CCCCGACACC	CATCACCACC	ACCACCACGG	TGACCCCAAC	CCCAACACCC
9001	ACGGGCACAC	AGACCCCAAC	CCCGACACCC	ATCACCACCA	CCACCACGGT	GACCCCAACC
9061	CCAACACCCA	CCGGGCACACA	GACCCCAACA	TCGACACCCA	TCACCACCAC	CACTACGGTG
9121	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACCA	CGACACCCAT	CACCACCACC
9181	ACCACGGTGA	CCCCAACCCC	AACACCCACT	GGCACACAGA	GTACAACCCCT	GACACCCATC
9241	ACCACCACCA	CCACGGTGAC	ACCAACCCCA	ACACCCACCG	GCACACAGAC	CCCAACATCG
9301	ACACCCATCA	CCACCATCAC	TACGGTGACC	CCAACCCCAA	CACCCACCGG	CACACAGACC
9361	CCAACCCCGA	CACCCATCTC	CACCACCACT	ACAGTGACCC	CAACCCCAAC	ACCCACCGGC
9421	ACACAGACCC	CAACCATGAC	ACCCATCACC	ACCACCACCA	CGGTGACCCC	AACCCCAACA
9481	CCCACCGGCA	CACAGACCCC	AACAACGACA	CCCATCAGCA	CCACCACCAC	GGTGACCCCA
9541	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA	ACATCGACAC	CCATCACCAC	CACCACTACG
9601	GTGACCCCAA	CCCCAACACC	CACCGGCACA	CAGACCCCAA	CCACGACACC	CATCACCACC
9661	ACCACCACGG	TGACCCCAAC	CCCAACACCC	ACCGGCACAC	AGAGTACAAC	CCTGACACCC
9721	ATCACCACCA	CCACCACGGT	GACACCAACC	CCAACACCCA	CCGGCACACA	GACCCCAACC
9781	CCGACACCCA	TCTCCACCAC	CACTACGGTG	ACCCCAACCC	CAACACCCAC	CGGCACACAG
9841	ACCCCAACCA	TGACACCCAT	CACCACCACC	ACCACGGTGA	CCCCAACCCC	AACACCCACC
9901	GGCACACAGA	CCCCAACAAAC	GACACCCATC	AGCACACCCA	CCACGGTGAC	CCCAACCCCA
9961	ACACCCACCG	GCACACAGAC	CCCAAGATCG	ACACCCATCA	CCACCACCAC	TAAGGTGACC
10021	CCAACCCCAA	CACCCACCGG	CACACAGACC	CCAACCCCGA	CACCCATCAC	CACCACCACC
10081	ACGGTGACCC	CAACCCCAAC	ACCCACTGGC	ACACAGGCCC	CAACCCCAAG	AGCCATCACC
10141	ACCACCAGTA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA	CACAGACCCC	AACCACGACA
10201	CCCATCACCA	CCACCACCAC	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC	ACAGAGTACA
10261	ACCCTGACAC	CCATCACCAC	CACCACCACG	GTGACACCAA	CCCCAACACC	CACCGGCACA
10321	CAGACCCCAA	CATCGACACC	CATCACCACC	ACCACTACGG	TGACCCCAAC	CCCAACACCC
10381	ACGGGCACAC	AGACCCCAAC	CCCGACACCC	ATCTCCACCA	CCAGTACGGT	GACCCCAACC
10441	CCAACACCCA	CCGGGCACACA	GACCCCAACC	ATGACACCCA	TCACCACCAC	CACCACGGTG
10501	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACAA	CGACACCCAT	CAGCACCACC
10561	ACCACGGTGA	CCCCAACCCC	AACACCCACC	GGCACACAGA	ACCCCAACATC	GACACCCATC
10621	ACCACCACCA	CTACGGTGAC	CCCAACCCCA	ACACCCACCG	GCACACAGAC	CCCAACCATG
10681	ACACCCATCA	CCACCACCAC	CACGGTGACC	CCAACCCCAA	CACCCACTGG	CACACAGGCC
10741	CCAACCCCAA	CAGCCATCAC	CACCACCACT	ACGGTGACCC	CAACCCCAAC	ACCCACCGGC
10801	ACACAGACCC	CAACCACGAC	ACCCATCACC	ACCACCACCA	CGGTGACCCC	AACCCCAATA
10861	CCCACCGGCA	CACAGAGTAC	AACCCTGACA	CCCATCACCA	CCACCACCAC	GGTGACACCA
10921	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA	ACCCCGATAC	CCATCTCCAC	CACCACTACG
10981	GTGACCCCAA	CCCCAACACC	CACCGGCACA	CAGACCCCAA	CCATGACACC	CATCACCACC
11041	ACCACCACGG	TGACCCCAAC	CCCAACACCC	ACCGGCACAC	AGACCCCAAC	AACGACACCC
11101	ATCAGCACCA	CCACCACGGT	GACCCCAACC	CCAACACCCA	CCGGCACACA	GACCCCAACA
11161	TCGACACCCA	TCACCACCAC	CACTACGGTG	ACCCCAACCC	CAATACCCAC	CGGCACACAG
11221	ACCCCAACCA	CGACACCCAT	CACCACCACC	ACCACGGTGA	CCCCAACCCC	AACACCCACT
11281	GGCACACAGG	CCCCAACCCC	AACAGCCATC	ACCACCACCA	CTACGGTGAC	CCCAACCCCA
11341	ACACCCACCG	GCACACAGAC	CCCAACCACG	ACACCCATCA	CCACCACCAC	CACGGTGACC
11401	CCAACCCCAA	TACCCACCGG	CACACAGAGT	ACAACCCTGA	CACCCATCAC	CACCACCACC
11461	ACGGTGACAC	CAACCCCAAC	ACCCACCAGC	ACACAGACCC	CAACCCCGAC	ACCCATCTCC
11521	ACCACCACTA	CGGTGACCCC	AACCCCAACA	CCCACCGGCA	CACAGACCCC	AACCATGACA
11581	CCCATCACCA	CCACCACCAC	GGTGACCCCA	ACCCCAACAC	CCACCGGCAC	ACAGACCCCA
11641	ACAATCGACAC	CCATCAGCAC	CACCACCACG	GTGACCCCAA	CCCCAACACC	CACCGGCACA
11701	CAGACCCCAA	CATCGACACC	CATCACCACC	ACCACTACAG	TGACCCCAAC	CCCAACATCC
11761	ACGGGCACAC	AGACCCCAAC	CACGACACCC	ATCACCACCA	CCACCACGGT	GACCCCAACC
11821	CCAACACCCA	CTGGGCACACA	GGCCCAACCC	CCAACAGCCA	TCACCACCAC	CAGTACGGTG
11881	ACCCCAACCC	CAACACCCAC	CGGCACACAG	ACCCCAACCA	CGACACCCAT	CACCACCACC

11941	ACTACGGTGA	CACCAACCCC	AACACCCACC	GGCACACAGT	CCCCAACCCC	AACAGCCATC
12001	ACCACCACCA	CTACGGTGAC	CCCAACCCCA	ACACCCACCG	GCACACAGAC	CCCAACATCG
12061	ACACCCATCA	CCACCACCAC	TACGGTGACC	CCAACCCCAA	CACCCACCGG	CACACAGACC
12121	CCAACCCCGA	CACCCATCTC	CACCACCACT	ACGGTGACCC	CAACCCCAAC	ACCCACCGGC
12181	ACACAGACCC	CAACCACGAC	ACCCATCACC	ACCACCACCA	CGGTGACCCC	AACCCCGACA
12241	CCCACCGGCA	CACAGACCCC	AACCACGGTA	CTCATCACCA	CCACCACTAC	GATGACCCCA
12301	ACCCCAACAC	CCACCAGCAC	AAAGAGTACA	ACCGTGACAC	CCATCACCAC	CACAACTACG
12361	GTGACCGCAA	CCCCAACACC	CACCGGCACA	CAGACCCCAA	CCATGATACC	CATCAGCACC
12421	ACCACTACGG	TGACCCCAAC	CCCAACACCC	ACCACTGGAA	GCACGGGGCC	CCCCACCCAC
12481	ACAAGCACAG	CACCCATTGC	TGAGTTGACC	ACATCCAATC	CTCCGCCTGA	GTCTCAACC
12541	CCTCAGACCT	CTCGGTCCAC	CTCTTCCCTT	CTCACGGAGT	CAACCAACCCT	TCTGAGTACC
12601	CTACCACCTG	CCATTGAGAT	GACCAGCACG	GCCCCACCCT	CCACACCCAC	GGCACCCACG
12661	ACCACGAGCG	GAGGCCACAC	ACTGTCTCCA	CCGCCCAGCA	CCACCACGTC	CCCTCCAGGC
12721	ACCCCCACTC	GCGGTACCAC	GACCGGGTCA	TCTTCAGCCC	CCACCCCCAG	CACTGTGCAG
12781	ACGACCACCA	CCAGTGCTTG	GACCCCAACG	CCGACCCAC	TCTCCACACC	CAGCATCATC
12841	AGGACCACAG	GCCTGAGGCC	CTACCCTTCC	TCTGTGCTTA	TCTGCTGTGT	CCTGAACGAC
12901	ACCTACTACG	CACCAGGTGA	GGAGGTGTAC	AACGGCACAT	ACGGAGACAC	CTGTTATTTT
12961	GTCAACTGCT	CACTGAGCTG	TACGTTGGAG	TTCTATAACT	GGTCTTGCCC	ATCCACGCCC
13021	TCCCCAACAC	CCACGCCCTC	CAAGTCGACG	CCCACGCCCT	CCAAGCCATC	GTCCACGCCC
13081	TCCAAGCCGA	CGCCCGGCAC	CAAGCCCCCC	GAGTGCCCAG	ACTTTGATCC	TCCCAGACAG
13141	GAGAACGAGA	CTTGGTGGCT	GTGCGACTGC	TTCATGGCCA	CGTGCAAAGTA	CAACAACACG
13201	GTGGAGATCG	TGAAGGTGGA	GTGTGAGCCG	CCGCCCATGC	CCACCTGCTC	CAACGGCCTC
13261	CAACCCGTGC	GCGTCGAGGA	CCCCGACGGC	TGCTGCTGGC	ACTGGGAGTG	CGACTGCTAC
13321	TGCACGGGCT	GGGGCGACCC	GCACTATGTC	ACCTTCGACG	GACTCTACTA	CAGCTACCAG
13381	GGCAACTGCA	CCTACGTGCT	GGTGGAGGAG	ATCAGCCCCT	CCGTGGACAA	CTTCGGAGTT
13441	TACATCGACA	ACTACCACTG	CGATCCCAAC	GACAAGGTGT	CCTGTCCCCG	CACCCTCATC
13501	GTGCGCCACG	AGACCCAGGA	GGTGGTGATC	AAGACCGTGC	ATATGATGCC	CATGCAGGTG
13561	CAGGTGCAGG	TGAACAGGCA	GGCGGTGGCA	CTGCCCTACA	AGAAGTACGG	GCTGGAGGTG
13621	TACCAAGTCTG	GCATCAACTA	CGTGGTGGAC	ATCCCCGAGC	TGGGTGTCTT	CGTGTCTTAC
13681	AATGGCCTGT	CCTTCTCCGT	CAGGCTGCCC	TACCACCGGT	TTGGCAACAA	CACCAAGGGC
13741	CAGTGTGGCA	CCTGCACCAA	CACCACCTCC	GACGACTGCA	TTCTGCCCAG	CGGGGAGATC
13801	GTCTCCAACT	GTGAGGCTGC	GGCTGACCAG	TGGCTGGTGA	ACGACCCCTC	CAAGCCACAC
13861	TGCCCCCACA	GCAGCTCCAC	GACCAAGCGC	CCGGCCGTCA	CTGTGCCCCG	GGGCGGTAAA
13921	ACGACCCAC	ACAAGGACTG	CACCCCATCT	CCCCTCTGCC	AGCTCATCAA	GGACAGCCTG
13981	TTTGCCAGT	GCCACGCACT	GGTGCCCCCG	CAGCACTACT	ACGATGCCTG	CGTGTTTCGAC
14041	AGCTGCTTCA	TGCCGGGCTC	GAGCCTGGAG	TGCGCCAGTC	TGCAGGCCTA	CGCAGCCCTC
14101	TGTGCCCAGC	AGAACATCTG	CCTCGACTGG	CGGAACCACA	CGCATGGGGC	CTGCTTGGTG
14161	GAGTGCCCAT	CTCACAGGGA	GTACCAGGCC	TGTGGCCCTG	CAGAAGAGCC	CACGTGCAAA
14221	TCCAGCTCCT	CCCAGCAGAA	CAACACAGTC	CTGGTGGAAG	GCTGCTTCTG	TCCTGAGGGC
14281	ACCATGAAC	ACGCTCCTGG	CTTTGATGTC	TGCGTGAAGA	CCTGCGGCTG	TGTGGGACCT
14341	GACAATGTGC	CCAGAGAGTT	TGGGGAGCAC	TTCGAGTTCG	ACTGCAAGAA	CTGTGTCTGC
14401	CTGGAGGGTG	GAAGTGGCAT	CATCTGCCAA	CCCAAGAGGT	GCAGCCAGAA	GCCCCGTTACC
14461	CACTGCGTGG	AAGACGGCAC	CTACCTCGCC	ACGGAGGTCA	ACCCTGCCGA	CACCTGCTGC
14521	AACATTACCG	TCTGCAAGTG	CAACACCAGC	CTGTGCAAAG	AGAAGCCCTC	CGTGTGCCCG
14581	CTGGGATTGG	AAGTGAAGAG	CAAGATGGTG	CCTGGAAGGT	GCTGTCTTTT	CTACTGGTGT
14641	GAGTCCAAGG	GGGTGTGTGT	TCACGGGAAT	CTGAGTACC	AGCCCGGTTT	TCCAGTTTAT
14701	TCCTCCAAGT	GCCAGGACTG	CGTGTGCACG	GACAAGGTGG	ACAACAACAC	CCTGCTCAAC
14761	GTCATCGCCT	GCACCCACGT	GCCCTGCAAC	ACCTCCTGCA	GCCCTGGCTT	CGAACTCATG
14821	GAGGCCCCCG	GGGAGTGCTG	TAAGAAGTGT	GAACAGACGC	ACTGTATCAT	CAAACGGCCC
14881	GACAACCAGC	ACGTCACTCT	GAAGCCCGGG	GACTTCAAGA	GCGACCCGAA	GAACAACCTGC
14941	ACATTCTTCA	GCTGCGTGAA	GATCCACAAC	CAGCTCATCT	CGTCCGTCTC	CAACATCACC
15001	TGCCCCAAC	TTGATGCCAG	CATTTGCATC	CCGGGCTCCA	TCACATTTCAT	GCCCAATGGA
15061	TGCTGCAAGA	CCTGCACCCC	TCGCAATGAG	ACCAGGGTGC	CCTGCTCCAC	CGTCCCCGTC
15121	ACCACGGAGG	TTTCGTACGC	CGGCTGCACC	AAGACCGTCC	TCATGAATCA	TTGCTCCGGG
15181	TCCTGCGGGA	CATTTGTCAT	GTACTCGGCC	AAGGCCCAGG	CCCTGGACCA	CAGCTGCTCC
15241	TGCTGCAAAAG	AGGAGAAAAC	CAGCCAGCGT	GA GGTGGTCC	TGAGCTGCCC	CAATGGCGGG
15301	TCGCTGACAC	ACACCTACAC	CCACATCGAG	AGCTGCCAGT	GCCAGGACAC	CGTCTGCGGG
15361	CTCCCCACCG	GCACCTCCCG	CCGGGCCCCG	CGCTCCCCCTA	GGCATCTGGG	GAGCGGGTGA
15421	GCGGGGTGGG	CACAGCCCCC	TTCACTGCCC	TCGACAGCTT	TACCTCCCCC	GGACCTCTG
15481	AGCCTCCTAA	GCTCGGCTTC	CTCTCTTCAG	ATATTTATTG	TCTGAGTCTT	TGTTCAGTCC
15541	TTGCTTTCCA	ATAATAAAT	CAGGGGGACA	TGC		

Figure S8. Complete MUC6 mRNA sequence (reverse complement).

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1  ATGGTCCAGC  GGTGGCTGCT  GCTGTCCTGC  TGC GGAGCCC  TGCTCAGCGC  TGGTCTGGCT
61  AACACCTCCT  ACACCAGCCC  AGGCCTCCAG  AGGCTGAAGG  ACTCTCCACA  GACAGCCCCG
121  GACAAAGGCC  AGTGCTCCAC  GTGGGGGGCT  GGTCACTTCT  CCACCTTCGA  CCACCACGTG
181  TACGACTTCT  CGGGGACGTG  CAACTACATC  TTCGCGGCCA  CCTGCAAGGA  CGCCTTCCCC
241  ACCTTCAGTG  TCCAGCTGCG  GCGAGGCCCA  GACGGGAGCA  TCTCGCGGAT  CATCGTGGAG
301  CTGGGGGCCT  CCGTCGTAC  TGTGAGCGAA  GCCATCATCT  CAGTCAAGGA  CATCGGGGTC
361  ATCAGCCTGC  CCTATACCAG  CAATGGACTC  CAGATCACAC  CCTTCGGCCA  GAGCGTGC GG
421  CTGGTGGCCA  AGCAGCTGGA  GCTGGAGCTG  GAAGTCGTGT  GGGGTCCTGA  CAGCCACCTC
481  ATGGTTCTGG  TGGAGCGGAA  GTACATGGGT  CAGATGTGCG  GGCTCTGCGG  GAACTTTGAC
541  GGGAAGGTGA  CCAACGAGTT  TGTCAGTGAG  GAGGGCAAGT  TCCTGGAACC  CCACAAGTTT
601  GCTGCCCTCC  AGAAGCTGGA  CGACCCCGGC  GAGATCTGCA  CCTTCAGGA  CATCCCCAGC
661  ACCCAGTCC  GGCAGGCCCA  GCACGCCCGG  ATCTGCACCC  AGCTGCTGAC  CCTGGTGGCC
721  CCTGAGTGCA  GCGTGTCCAA  GGAGCCCTTC  GTGCTAAGCT  GCCAGGCGGA  CGTGGCCGCA
781  GCCCCCAGC  CAGGCCACA  GAACAGCAGT  TGTGCCACCC  TGTCGGAGTA  CTCCCGCCAG
841  TGCAGCATGG  TGGGCCAGCC  GGTCCGCCGC  TGGCGGAGCC  CCGGCCTGTG  CTCCGTGGGT
901  CAGTGCCCGG  CCAACCAGGT  GTACCAGGAG  TCGGGCTCGG  CCTGCGTGAA  GACCTGCTCC
961  AACCCGACG  ACAGCTGCTC  CAGCTCCTGC  ACCTTCGGGT  GCTTCTGCCC  GGAAGGTACG
1021  GTCCTGAATG  ACCTCTCAA  TAACCACACC  TCGTGCCCG  TCACCCAGTG  CCCCTGTGTG
1081  CTCCACGGCG  CCATGTATGC  CCCCAGGGAG  GTCACAATAG  CTGCCTGCCA  AACCTGCCGG
1141  TGCACCCTGG  GCCGCTGGGT  GTGCACGGAG  CGGCCGTGCC  CCGGACACTG  CTCCCTGGAA
1201  GGTGGCTCCT  TTGTTACCAC  ATTTGACGCC  AGGCCCTACC  GCTTCCACGG  CACCTGCACC
1261  TACATCCTCC  TCCAGAGCCC  CCAGCTTCCC  GAGGACGGTG  CCCTCATGGC  TGTGTACGAC
1321  AAGTCCGGCG  TCTCACACTC  CGAGACCTCC  CTGGTGGCTG  TGGTCTACCT  CTCCAGGCAG
1381  GACAAAATTG  TGATCTCTCA  GGACGAGGTG  GTCACCAACA  ACGGAGAAGC  CAAGTGGCTG
1441  CCATAAAGA  CTCGAACAT  CACGGTTTTC  AGGCAGACGT  CCACCCACCT  CCAGATGGCC
1501  ACCAGCTTCG  GGCTGGAGCT  CGTGGTCCAG  CTGCGCCCCA  TCTTCCAGGC  CTATGTCACT
1561  GTTGGGCCCC  AGTTCAGAGG  TCAGACCAGA  GGGCTCTGCG  GCAACTTCAA  CGGGGACACA
1621  ACGGATGACT  TCACCACTAG  CATGGGTATC  GCCGAGGGCA  CCGCCTCGCT  GTTTGTGGAC
1681  TCCTGGCGGG  CGGGGAAGTG  TCCGGCCGCT  CTGGAGCGTG  AGACTGACCC  CTGCTCCATG
1741  AGCCAGCTCA  ACAAGGTGTG  TGCAGAGACC  CACTGCTCCA  TGCTGCTGAG  GACAGGCACG
1801  GTGTTGAG  GGTGCCACGC  CACAGTGAAC  CCTGCACCCT  TCTACAAGAG  GTGCGTGTAC
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1921  CACGCCTGCT  CCTTGCGGGG  CGTCTGCTC  TGGGGCTGGA  GAAGCAGTGT  GGACAACTGC
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2041  TGCCTGTCGC  TGTGCGACCG  TGCCACCGAG  TGCCACCACA  GCGCCGTGCC  CGTGGACGGT
2101  TGCAACTGCC  CCGATGGCAC  CTACCTGAAC  CAAAAGGGCG  AGTGTGTGCG  CAAGGCCCAG
2161  TGCCCGTGCA  TACTGGAGGG  TTACAAGTTC  ATCCTGGCCG  AGCAGTCCAC  TGTCATCAAC
2221  GGCATCACCT  GCCACTGCAT  CAACGGGCGG  CTGAGTTGCC  CGCAGCGGCC  ACAGATGTTC
2281  CTGGCCTCCT  GCCAGGCCCC  TAAGACCTTC  AAGTCTGCA  GCCAGTCTC  CGAGAACAAG
2341  TTTGGGGCAG  CCTGTGCCCC  CACATGCCAG  ATGCTGGCCA  CCGGTGTTGC  CTGCGTGGCC
2401  ACCAAGTGTG  AGCCTGGCTG  TGTCTGCGCC  GAGGGCCTCT  ACGAGAATGC  CGACGGGCAG
2461  TGTGTGCCCC  CCGAGGAGTG  CCCATGTGAG  TTCTCGGGGG  TCTCTACCC  TGGAGGAGCT
2521  GAGTCCACA  CTGACTGCAG  GACCTGTCTC  TGCTCAAGGG  GGAGGTGGGC  CTGTACGACG
2581  GGCACCCACT  GCCATCCAC  CTGCAACCCT  TACGGGGAGG  GCCACGTCAT  CACCTTCGAC
2641  GGCCAGCGCT  TCGTATTCGA  CGGCAACTGC  GAGTACATCC  TGGCCACGGA  CGTCTGTGGT
2701  GTCAACGACT  CACAGCCCAC  CTTCAAGATC  CTGACAGAGA  ACGTCATCTG  TGGGAACTCC
2761  GGGGTACAT  GCTCACGGGC  CATCAAGATC  TTCCTGGGGG  GCCTGTCCGT  GGTGCTGGCG
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2881  GCGCTGAGCC  TTGTCGTGGA  CATCAGCATC  CCGGGAGGT  ACAACCTGAC  GCTCATCTGG
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3001  TTGTGTGGCA  ACTTCAACGG  GAACATGAAG  GACGACTTCG  AGACGCGCAG  CAGGTACGTG
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3121  AGCTTCGTGA  CAGACCCCTG  CAGTCTCAAT  GCCTTCCGGC  GCTCCTGGGC  CGAGCGCAAG
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3241  TACTACGAGG  CCTGCGTGCG  CGACGCATGT  GGGTGTGACA  GTGGCGGGGA  CTGTGAGTGT
3301  CTGTGCGATG  CCGTGGCTGC  CTACGCCCAA  GCCTGTCTGG  ACAAGGGTGT  GTGCGTGGAC
3361  TGGAGGACCC  CGGCCTTCTG  CCCCATCTAC  TGCGGCTTCT  ACAACACGCA  CACGCAGGAC
3421  GGCCATGGCG  AGTACCAGTA  CACACAGGAG  GCCAACTGCA  CGTGGCACTA  CCAGCCCTGC
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3661	TGGCCCATGA	CGGGAACCTC	CACCACCATC	GGGCTTCTCA	GCTCCACCGG	ACCCTCACCC
3721	AGCTCTAATC	ACACCCCTGC	CAGCCCCACC	CAGACACCCC	TCCTTCCAGC	CACGCTCACA
3781	TCCTCCAAGC	CCACAGCCTC	CTCGGGAGAA	CCACCTAGAC	CAACCACGGC	CGTCACCCCA
3841	CAAGCCACAT	CAGGGCTGCC	TCCCACAGCC	ACACTGAGAT	CGACAGCCAC	AAAACCCACA
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4021	CCCACGCTGC	CAAAATCGAC	CAATCAGGAA	CTGCCAGGAA	CAACGGCCAC	CCAGACGACA
4081	GGCCACGTC	CAACCCAGC	AAGCACCACA	GGCCCAACCA	CCCCACAGCC	AGGACAACCC
4141	ACGAGGCCCA	CAGCCACAGA	GACCACTCAA	ACAAGAACGA	CTACTGAATA	CACAACGCCC
4201	CAAACCCAC	ACACCACACA	CTCCCCGCT	ACGGCGGGGA	GTCCCGTCCC	TTCCACAGGT
4261	CCTGTCACTG	CAACATCTTT	CCATGCCACC	ACTACCTATC	CAACCCCATC	ACACCCTGAG
4321	ACCACACTTC	CCACTCACGT	TCCACCTTTC	TCCACCTCCT	TGGTGACTCC	AAGTACTCAC
4381	ACAGTCATCA	CCCCTACCCA	CGCACAGATG	GCCACATCTG	CCTCCAACCA	CTCAGCGCCA
4441	ACAGGTACCA	TTCCTCCACC	AACAACGCTC	AAGGCCACAG	GGTCCACCCA	CACAGCCCCA
4501	CCAATAACGC	CGACCACCAG	TGGGACCAGC	CAAGCCCACA	GCTCATTTCAG	CACAAACAAA
4561	ACACCTACCT	CGCTACATTC	ACACACTTCC	TCCACACACC	ATCCTGAAGT	CACCCCAACT
4621	TCTACTACCA	CGATTACTCC	CAACCCCACT	AGTACACGCA	CCAGAACCCC	TGTGGCCAC
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4741	GGGAGCAGTC	CCTTCTCTTC	CACAGGTCCC	ATGACGGCAA	CATCCTTCAA	GACCACCACT
4801	ACCTATCCAA	CCCCATCACT	CCCTCAGACC	ACTCTTCTCA	CTCACGTTCC	ACCTTTCTCA
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5041	GCCCACAGCT	CAATCAGCAC	AGCCAAAACC	TCTACATCCC	TCCACTCAGA	TGCTTCTCTCC
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5161	AGAGGCACCA	GCACCCCTGT	GACCCACACC	ACCTCGGCCA	CCAGTAGCAG	GCCACCCACA
5221	CCCATCACAA	CACACTCTTC	ACCTACCAGG	AGCAGTCCCC	TCTCTTCCAC	AGGTCGTATG
5281	ACTGCAACAT	CTCTCAAGAC	CACCACTACC	TATCCAACCC	CATCACAAGC	TCACATCACA
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5581	ACATCCCTCC	TCTCCCATGC	TTCTCCACA	CACCATCCAG	AAATCACCAC	AAATTCTACC
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5761	AGTCCCCTCT	CTCCACAGG	TCCTATGACT	CCAACATCCT	TCAAGACCAC	CACTACCTAT
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6481	CCTCCACTGA	CAACGCGCAT	GCCCACAGGG	TCGACACACA	CAGGCCCCACC	AATGACGGGG
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12301	AGCAGGCTAA	CCACACCCTT	CACCACACAC	TCCTCACCTA	CAGGGAGCAG	TCCCTTCTCT
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12721	ACCTCAACTT	CTACCACCAA	CATCACCCCC	AACCCACCA	GTACAGGAAC	CCCACCAATG
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13081	CCAACCCCAT	CACACCCTCA	CACCACACTT	CCCCTCACG	TTCCATCTTT	CTCCACCTCC
13141	TTGGTGACTC	CAAGTACTCA	CATAGTCATC	ACCCCTACCC	ACGCACAGAT	GGCCACTTCT
13201	GCCTCCATCC	ACTCAATGCC	AACAGGCACT	ATTCTCTCC	CGACCACGAT	CAAGGCCACA
13261	GGGTCCACCC	ACACAGCCCC	ACCAATGACG	GCAACCACCA	GTGGGACCAG	CCAATCCCCA
13321	AGCTCATTTA	GCACGGCCAA	AACTTCTACA	TCCCTACATT	CACACATTTT	CTCAACACAT
13381	CATCTGAAG	TCACCCCAAG	TTCTACCACC	ACCATCACCC	CCAAGCCAC	CAGTACAGGC
13441	ACCAGAACCC	CTGTGGCCCA	CACCACCTCG	GCCACCAGCA	CAGGCTTACC	CATACCTTTC
13501	ACCACACATT	CCCCACCTAC	AGGGAGCAGT	CCCCTCTCTT	CCACAGGTCC	TATGACTGCA
13561	ACATCCTTTC	AGACCACCAC	TACCTATCCA	ACCCCATCAC	ACCCTCAGAC	CACACTTCCC
13621	ACTCACCTTC	CACCTTTCTC	CACCTCCTTG	GTGACTCCAA	GTACTCACAC	AGTCATCATC
13681	ACTACCCACA	CACAGATGGC	CACCTTCTGCC	TCCATCCACT	CAACGCCAAC	AGGCACCGTT
13741	CCTCCACCAA	CAACGCTCAA	GGCCACAGGG	TCCACCCACA	CAGCGCCAAC	AATGACGCCG
13801	ACCACCAGCG	GGACGAGCCA	AGCCCTGAGC	TCATTCAACA	CAGCCAAAAC	CTCTACATCC
13861	CTACATTAC	AACTTCTCTC	CACACACCTT	CCTGAAGTCA	CCCCAACTTC	TACCACCATC
13921	ACCCCAATC	CCACCAGTCC	AGGAACCGGC	ACCCCTGTGG	CCCACACCAC	CTCAGCCACC
13981	AGCAGCAGGC	TAACCACACC	CTTACCACCA	CACCTCTCAC	CTACAGGGAG	CAGTCCCTTC
14041	TCTTCCACAG	GTCCTATGAC	TGCAACATCC	TTCAAGACCA	CCACTACCTA	TCCAACCCCA
14101	TCACACCCTC	AGACCACACT	TCCCACTCAC	GTTCCACCTT	TCTCCACCTC	TTTGGTGACT
14161	CCAAGTACTC	ACACAGTCAT	CACCCCTACC	CATGCACAGA	TGGCCACTTC	TGCTCCATC
14221	CACTCAATGC	CAACAGGCAC	GATTCTCTCA	CCGACAACGC	TCAAGGCCAC	AGGGTCCACC
14281	CACACAGCGC	CAACAATGAC	GCTGACCACC	AGCGGGACCA	GCCAAGCCCT	GAGCTCATTA
14341	AACACAGCCA	AAACCTCTAC	ATCCCTACAT	TCACACACTT	CCTCCACACA	CCATGCTGAA
14401	GCCACCTCAA	CTTCTACCAC	CAACATCACC	CCCAACCCCA	CCAGTACAGG	AACCCACCA
14461	ATGACAGTGA	CCACCAGTGG	GACCAGCCAA	TCCCGAAGCT	CATTTAGCAC	GGCCAAAACC

14521	TCTACATCCC	TACATTACACA	CACTTCCTCC	ACACACCATC	CTGAAGTCAC	CTCAACTTCT
14581	ACCACCAGCA	TCACCCCCAA	CCACACCAGT	ACAGGCACCA	GAACCCCTGT	GGCCCACACC
14641	ACGTCGGCCA	CCAGCAGCAG	GCTACCCACA	CCCTTCACCA	CACACTCCCC	ACCTACAGGG
14701	ACCACTCCCA	TCTCTTCCAC	AGGTCCTGTC	ACTGCAACAT	CCTTCCAGAC	CACCACTACC
14761	TATCCAACCC	CATCACACCC	TCACACCACA	CTTCCCCTC	ACGTTCCATC	TTTCTCCACC
14821	TCCTTGGTGA	CTCCAAGTAC	TCACACGGTC	ATCATCCCTA	CCCACACACA	GATGGCCACT
14881	TCTGCCTCCA	TCCACTCAAT	GCCAACAGGC	ACCATTCTC	CACCGACCAC	GATCAAGGCC
14941	ACAGGGTCCA	CCCACACAGC	CCCACCAATG	ACACCGACCA	CCAGTGGGAC	CAGCCAATCC
15001	CCAAGCTCAT	TTAGCACGGC	CAAACTTCT	ACATCCCTAC	CTTACCACAC	TTCTTCAACA
15061	CACCATCCTG	AAGTCACCCC	AACTTCTACC	ACCAACATCA	CCCCCAAACA	CACCAGTACA
15121	GGCACCAGAA	CCCCTGTGGC	CCACACCACC	TCGGCCAGCA	GCAGCAGGCT	ACCCACACCC
15181	TTCACCACAC	ACTCCCCACC	TACAGGGAGC	AGTCCCTTCT	CTTCCACAGG	TCCTATGACT
15241	GCAACATCCT	TCCAGACCAC	CACTACCTAT	CCAACCCCAT	CACACCCTCA	GACCACACTT
15301	CCCACTCACG	TTCCACCTTT	CTCCACCTCC	TTGGTGACTC	CAAGTACTCA	CACAGTCATC
15361	ATCACTACCC	ACACACAGAT	GGCCACTTCT	GCCTCCATCC	ACTCAACGCC	AACAGGCACC
15421	GTTCTCCAC	CAACAACGCT	CAAGGCCACA	GGGTCCACCC	ACACAGCCCC	ACCAATGACA
15481	GTGACCACCA	GTGGGACCAG	CCAAACCCAC	AGCTCATTCA	GCACAGCTAC	AGCCTCTTCT
15541	TCCTTCATAT	CCTCCTCGTC	TTGGCTGCCT	CAGAACTCTA	GCTCAAGGCC	ACCGTCATCA
15601	CCTATCACCA	CACAACCTCC	CCACTTGAGT	TCTGCAACCA	CTCCTGTTTC	CACAACATAAT
15661	CAGCTGTCTT	CCTCATTTTC	TCCCAGTCTT	TCTGCCCCCT	CTACTGTTTC	TTCTTATGTG
15721	CCCTCCTCCC	ACTCCTCTCC	CCAGACTTCA	TCGCCTTCTG	TTGGCACATC	TTCTCTTTTC
15781	GTGTCCGCCC	CCGTGCACTC	CACAACCCTG	AGCTCGGGGT	CACACTCCTC	ATTGTCCACT
15841	CATCCCACGA	CTGCATCAGT	GTCTGCATCT	CCTCTTTTTT	CTTCTTCTCC	AGCTGCCTCT
15901	ACTACCATTA	GGGCCACTCT	CCCCCACACT	ATCTCCTCTC	CTTTCACCTT	CTCTGCTCTA
15961	CTCCCCATAT	CCACTGTTAC	CGTGTCTCCC	ACCCCATCCA	GCCACCTAGC	CTCCAGCACC
16021	ATTGCATTTT	CGTCCACGCC	CAGGACCACG	GCCAGCACCC	ACACCGCCCC	TGCCTTCTCC
16081	TCTCAGTCCA	CCACCTCGCG	GTCCACTTCT	CTCACCACCC	GAGTTCCCAC	ATCAGGCTTT
16141	GTGTCACTCA	CCTCGGGGGT	GACGGGTATC	CCCACCTCTC	CAGTCACCAA	CCTTACCACC
16201	AGGCACCCTG	GTCCACCTT	GTCGCCTACC	ACACGGTTCC	TGACCAGCTC	CCTCACTGCC
16261	CATGGAAGCA	CCCCTGCTTC	TGCCCCGGTA	TCTTCTCTCG	GGACACCTAC	GCCCACCTCA
16321	CCCGGGGTCT	GCAGTGTGCG	GGAGCAGCAG	GAGGAGATCA	CGTTCAAGGG	GTGCATGGCG
16381	AACGTGACGG	TAACCCGCTG	TGAGGGCGCC	TGCATTTCCG	CTGCCAGCTT	CAACATCATC
16441	ACCCAGCAGG	TGGATGCCCG	CTGCAGCTGC	TGCCGCCCCC	TCCACTCCTA	TGAGCAGCAG
16501	CTGGAGCTGC	CCTGCCCCGA	TCCCAGCACG	CCTGGCCGGC	GGCTCGTACT	CACCCTGCAG
16561	GTGTTACGCC	ACTGCGTGTG	CAGCTCTGTG	GCCTGTGGAG	AC	

Figure S9.

MUC2 PTS-TR2 units showing common and unique repeats.

Common TR

	n	% (n=98)
PTSTPITTTTTVTPPTPTGTQT	13	13.3
PTTTPISTTTTTVTPPTPTGTQT	8	8.2
TTLTPITTTTTVTPPTPTGTQT	6	6.1
PTPTPISTTTTTVTPPTPTGTQT	6	6.1
PTTTPITTTTTTVTPPTPTGTQS	6	6.1
PTPTPITTTTTTVTPPTPTGTQT	5	5.1
PTLTPITTTTTVTPPTPTGTQT	5	5.1
PTPTAITTTTTTVTPPTPTGTQT	4	4.1
PTTTPITTTTTTVTPPTPTGTQT	4	4.1
PTTTPITTTTTTVTPPTPTGTQA	3	3.1
PTTTLITTTTTVTPPTPTSTKS	2	2.0
PTTTPITTTTTTVTPPTPTGTQS	2	2.0
TTPTSITTTTTTVTPPTPTGTQT	2	2.0
Total No.	66	

Unique TR

TR No.	
1	PTPTPITTTTTVTPPTPTSTQS
2	TTPTPITTTNTVTPPTPTGTQT
3	PTPTPITTTTTVTPPTITSTQT
4	PTPTPITTTTT*VTPPTPTSTQR
8	LTPTPITTTTTVTPPTPTGTQT
10	PTLTPITTTTTVTPPTPTGTQT
11	PTTTPITTTTTTVTPPTPTGTKS
12	TTPTSITTTTTVTPPTPPPTGTQT
15	PTSTPITTTITVTPPTPTGTPT
17	PTSTPISITTTVTPPTPTGTQT
21	PTTTPITTTITVTPPTPTPTGTQT
23	TTVTPITTTTTTVTPPTPTGTQS
24	TTLTPITTTTTVTPPTPTGTQT
27	PTSTPISITTTTVTPATPTGTQT
28	PTLTPITTTTTVTPPTPTGTKS
31	PTPTPITTTTTVTPPTPTSTQT
34	PTPTAITTTTTGTPTPTPTGTQT
39	PTSTPITTTITVTPPTPTPTGTQT
53	PTSTPITTTITVTPPTPTPTGTQT
63	PRSTPITTTTTVTPPTPTPTGTQT
64	PTPTPITTTTTVTPPTPTGTQA
65	PTPAAITTTSTVTPPTPTPTGTQT
69	PTPTPISITTTVTPPTPTPTGTQT
71	PTTTPISITTTTVTPPTPTPTGTQN
73	PTLTPITTTTTVTPPTPTPTGTQA
77	PTPIPISTTTTVTPPTPTPTGTQT
80	PTSTPITTTTTTVTPPTPTPTGTQT
84	TTLTPITTTTTVTPPTPTSTQT
88	PTSTPITTTTTTVTPPTSTGTQT
90	PTPTAITTTSTVTPPTPTPTGTQT
97	TTVTPITTTTTTVTATPTPTGTQT
98	PTMIPISITTTTVTPPTPTTGST
Total No.	32

Figure S10

MUC6 Tandem repeats.



Comments to the sequence of the MUC6 repeat units. **a** All repeats aligned with consensus amino acid at each position are marked by grey shading. None of the full length repeats are the the samebut the 83aa repeats are identical. **b** Consensus sequence as obtained from the present sequencing and compared to the one described by Toribara *et al.* Identical amino acids between the two sequences are bold and different amino acids underlined. **c** Analysis of sequence homology for each repeat compared to the consensus sequence as described here. More than 90% sequence homology were observed between most repeats and the minimal homology to reference consensus repeat is 81.7%.

Repeat	Homology % against ref.
1	90.5
2	83.4
3	81.7
4	84.6
5	84.6
6	88.9
7	91.7
8	90.5
9	89.9
10	93.5
11	91.7
12	93.5
13	91.1
14	91.7
15	90.5
16	91.7
17 (141)	94.3
18 (83)	91.6
19	91.1
20	91.7
21 (141)	93.6
22 (83)	91.6
23	91.1
24 (106)	94.3

Figure S11

Comparison of MUC2 PTS-TR2.

TR No	98TR from RP13-870H17	TR No	105TR from CH17-246P12
1	PTTPTITTTTTVPTPTPTSTQS U	1	PTTPTITTTTTVPTPTPTSTQS U
2	TTTPTITTTNVPTPTPTGTQT U	2	TTTPTITTTNVPTPTPTGTQT U
3	PTTPTITTTTTVPTPTPTSTQS U	3	PTTPTITTTTTVPTPTPTSTQS U
4	PTTPTITTTTTVPTPTPTSTQS U	4	PTTPTITTTTTVPTPTPTSTQS U
5	TTTPTITTTTTVPTPTPTGTQT U	5	TTTPTITTTTTVPTPTPTGTQT U
6	PTTPTITTTTTVPTPTPTGTQT U	6	PTTPTITTTTTVPTPTPTGTQT U
7	PTTPTITTTTTVPTPTPTGTQT U	7	PTTPTITTTTTVPTPTPTGTQT U
8	TTTPTITTTTTVPTPTPTGTQT U	8	TTTPTITTTTTVPTPTPTGTQT U
9	PTTPTITTTTTVPTPTPTGTQT U	9	PTTPTITTTTTVPTPTPTGTQT U
10	PTTPTITTTTTVPTPTPTGTQT U	10	PTTPTITTTTTVPTPTPTGTQT U
11	PTTPTITTTTTVPTPTPTGTQT U	11	PTTPTITTTTTVPTPTPTGTQT U
12	TTTPTITTTTTVPTPTPTGTQT U	12	TTTPTITTTTTVPTPTPTGTQT U
13	PTTPTITTTTTVPTPTPTGTQT U	13	PTTPTITTTTTVPTPTPTGTQT U
14	PTTPTITTTTTVPTPTPTGTQT U	14	PTTPTITTTTTVPTPTPTGTQT U
15	PTTPTITTTTTVPTPTPTGTQT U	15	PTTPTITTTTTVPTPTPTGTQT U
16	TTTPTITTTTTVPTPTPTGTQT U	16	TTTPTITTTTTVPTPTPTGTQT U
17	PTTPTITTTTTVPTPTPTGTQT U	17	PTTPTITTTTTVPTPTPTGTQT U
18	PTTPTITTTTTVPTPTPTGTQT U	18	PTTPTITTTTTVPTPTPTGTQT U
19	PTTPTITTTTTVPTPTPTGTQT U	19	PTTPTITTTTTVPTPTPTGTQT U
20	PTTPTITTTTTVPTPTPTGTQT U	20	PTTPTITTTTTVPTPTPTGTQT U
21	PTTPTITTTTTVPTPTPTGTQT U	21	PTTPTITTTTTVPTPTPTGTQT U
22	PTTPTITTTTTVPTPTPTGTQT U	22	PTTPTITTTTTVPTPTPTGTQT U
23	PTTPTITTTTTVPTPTPTGTQT U	23	PTTPTITTTTTVPTPTPTGTQT U
24	PTTPTITTTTTVPTPTPTGTQT U	24	PTTPTITTTTTVPTPTPTGTQT U
25	PTTPTITTTTTVPTPTPTGTQT U	25	PTTPTITTTTTVPTPTPTGTQT U
26	PTTPTITTTTTVPTPTPTGTQT U	26	PTTPTITTTTTVPTPTPTGTQT U
27	PTTPTITTTTTVPTPTPTGTQT U	27	PTTPTITTTTTVPTPTPTGTQT U
28	PTTPTITTTTTVPTPTPTGTQT U	28	PTTPTITTTTTVPTPTPTGTQT U
29	PTTPTITTTTTVPTPTPTGTQT U	29	PTTPTITTTTTVPTPTPTGTQT U
30	PTTPTITTTTTVPTPTPTGTQT U	30	PTTPTITTTTTVPTPTPTGTQT U
31	PTTPTITTTTTVPTPTPTGTQT U	31	PTTPTITTTTTVPTPTPTGTQT U
32	PTTPTITTTTTVPTPTPTGTQT U	32	PTTPTITTTTTVPTPTPTGTQT U
33	PTTPTITTTTTVPTPTPTGTQT U	33	PTTPTITTTTTVPTPTPTGTQT U
34	PTTPTITTTTTVPTPTPTGTQT U	34	PTTPTITTTTTVPTPTPTGTQT U
35	PTTPTITTTTTVPTPTPTGTQT U	35	PTTPTITTTTTVPTPTPTGTQT U
36	PTTPTITTTTTVPTPTPTGTQT U	36	PTTPTITTTTTVPTPTPTGTQT U
37	PTTPTITTTTTVPTPTPTGTQT U	37	PTTPTITTTTTVPTPTPTGTQT U
38	PTTPTITTTTTVPTPTPTGTQT U	38	PTTPTITTTTTVPTPTPTGTQT U
39	PTTPTITTTTTVPTPTPTGTQT U	39	PTTPTITTTTTVPTPTPTGTQT U
40	PTTPTITTTTTVPTPTPTGTQT U	40	PTTPTITTTTTVPTPTPTGTQT U
41	PTTPTITTTTTVPTPTPTGTQT U	41	PTTPTITTTTTVPTPTPTGTQT U
42	PTTPTITTTTTVPTPTPTGTQT U	42	PTTPTITTTTTVPTPTPTGTQT U
43	PTTPTITTTTTVPTPTPTGTQT U	43	PTTPTITTTTTVPTPTPTGTQT U
44	PTTPTITTTTTVPTPTPTGTQT U	44	PTTPTITTTTTVPTPTPTGTQT U
45	PTTPTITTTTTVPTPTPTGTQT U	45	PTTPTITTTTTVPTPTPTGTQT U
46	PTTPTITTTTTVPTPTPTGTQT U	46	PTTPTITTTTTVPTPTPTGTQT U
47	PTTPTITTTTTVPTPTPTGTQT U	47	PTTPTITTTTTVPTPTPTGTQT U
48	PTTPTITTTTTVPTPTPTGTQT U	48	PTTPTITTTTTVPTPTPTGTQT U
49	PTTPTITTTTTVPTPTPTGTQT U	49	PTTPTITTTTTVPTPTPTGTQT U
50	PTTPTITTTTTVPTPTPTGTQT U	50	PTTPTITTTTTVPTPTPTGTQT U
51	PTTPTITTTTTVPTPTPTGTQT U	51	PTTPTITTTTTVPTPTPTGTQT U
52	PTTPTITTTTTVPTPTPTGTQT U	52	PTTPTITTTTTVPTPTPTGTQT U
53	PTTPTITTTTTVPTPTPTGTQT U	53	PTTPTITTTTTVPTPTPTGTQT U
54	PTTPTITTTTTVPTPTPTGTQT U	54	PTTPTITTTTTVPTPTPTGTQT U
55	PTTPTITTTTTVPTPTPTGTQT U	55	PTTPTITTTTTVPTPTPTGTQT U
56	PTTPTITTTTTVPTPTPTGTQT U	56	PTTPTITTTTTVPTPTPTGTQT U
57	PTTPTITTTTTVPTPTPTGTQT U	57	PTTPTITTTTTVPTPTPTGTQT U
58	PTTPTITTTTTVPTPTPTGTQT U	58	PTTPTITTTTTVPTPTPTGTQT U
59	PTTPTITTTTTVPTPTPTGTQT U	59	PTTPTITTTTTVPTPTPTGTQT U
60	PTTPTITTTTTVPTPTPTGTQT U	60	PTTPTITTTTTVPTPTPTGTQT U
61	PTTPTITTTTTVPTPTPTGTQT U	61	PTTPTITTTTTVPTPTPTGTQT U
62	PTTPTITTTTTVPTPTPTGTQT U	62	PTTPTITTTTTVPTPTPTGTQT U
63	PTTPTITTTTTVPTPTPTGTQT U	63	PTTPTITTTTTVPTPTPTGTQT U
64	PTTPTITTTTTVPTPTPTGTQT U	64	PTTPTITTTTTVPTPTPTGTQT U
65	PTTPTITTTTTVPTPTPTGTQT U	65	PTTPTITTTTTVPTPTPTGTQT U
66	PTTPTITTTTTVPTPTPTGTQT U	66	PTTPTITTTTTVPTPTPTGTQT U
67	PTTPTITTTTTVPTPTPTGTQT U	67	PTTPTITTTTTVPTPTPTGTQT U
68	PTTPTITTTTTVPTPTPTGTQT U	68	PTTPTITTTTTVPTPTPTGTQT U
69	PTTPTITTTTTVPTPTPTGTQT U	69	PTTPTITTTTTVPTPTPTGTQT U
70	PTTPTITTTTTVPTPTPTGTQT U	70	PTTPTITTTTTVPTPTPTGTQT U
71	PTTPTITTTTTVPTPTPTGTQT U	71	PTTPTITTTTTVPTPTPTGTQT U
72	PTTPTITTTTTVPTPTPTGTQT U	72	PTTPTITTTTTVPTPTPTGTQT U
73	PTTPTITTTTTVPTPTPTGTQT U	73	PTTPTITTTTTVPTPTPTGTQT U
74	PTTPTITTTTTVPTPTPTGTQT U	74	PTTPTITTTTTVPTPTPTGTQT U
75	PTTPTITTTTTVPTPTPTGTQT U	75	PTTPTITTTTTVPTPTPTGTQT U
76	PTTPTITTTTTVPTPTPTGTQT U	76	PTTPTITTTTTVPTPTPTGTQT U
77	PTTPTITTTTTVPTPTPTGTQT U	77	PTTPTITTTTTVPTPTPTGTQT U
78	PTTPTITTTTTVPTPTPTGTQT U	78	PTTPTITTTTTVPTPTPTGTQT U
79	PTTPTITTTTTVPTPTPTGTQT U	79	PTTPTITTTTTVPTPTPTGTQT U
80	PTTPTITTTTTVPTPTPTGTQT U	80	PTTPTITTTTTVPTPTPTGTQT U
81	PTTPTITTTTTVPTPTPTGTQT U	81	PTTPTITTTTTVPTPTPTGTQT U
82	PTTPTITTTTTVPTPTPTGTQT U	82	PTTPTITTTTTVPTPTPTGTQT U
83	PTTPTITTTTTVPTPTPTGTQT U	83	PTTPTITTTTTVPTPTPTGTQT U
84	PTTPTITTTTTVPTPTPTGTQT U	84	PTTPTITTTTTVPTPTPTGTQT U
85	PTTPTITTTTTVPTPTPTGTQT U	85	PTTPTITTTTTVPTPTPTGTQT U
86	PTTPTITTTTTVPTPTPTGTQT U	86	PTTPTITTTTTVPTPTPTGTQT U
87	PTTPTITTTTTVPTPTPTGTQT U	87	PTTPTITTTTTVPTPTPTGTQT U
88	PTTPTITTTTTVPTPTPTGTQT U	88	PTTPTITTTTTVPTPTPTGTQT U
89	PTTPTITTTTTVPTPTPTGTQT U	89	PTTPTITTTTTVPTPTPTGTQT U
90	PTTPTITTTTTVPTPTPTGTQT U	90	PTTPTITTTTTVPTPTPTGTQT U
91	PTTPTITTTTTVPTPTPTGTQT U	91	PTTPTITTTTTVPTPTPTGTQT U
92	PTTPTITTTTTVPTPTPTGTQT U	92	PTTPTITTTTTVPTPTPTGTQT U
93	PTTPTITTTTTVPTPTPTGTQT U	93	PTTPTITTTTTVPTPTPTGTQT U
94	PTTPTITTTTTVPTPTPTGTQT U	94	PTTPTITTTTTVPTPTPTGTQT U
95	PTTPTITTTTTVPTPTPTGTQT U	95	PTTPTITTTTTVPTPTPTGTQT U
96	PTTPTITTTTTVPTPTPTGTQT U	96	PTTPTITTTTTVPTPTPTGTQT U
97	PTTPTITTTTTVPTPTPTGTQT U	97	PTTPTITTTTTVPTPTPTGTQT U
98	PTTPTITTTTTVPTPTPTGTQT U	98	PTTPTITTTTTVPTPTPTGTQT U
99	PTTPTITTTTTVPTPTPTGTQT U	99	PTTPTITTTTTVPTPTPTGTQT U
100	PTTPTITTTTTVPTPTPTGTQT U	100	PTTPTITTTTTVPTPTPTGTQT U
101	PTTPTITTTTTVPTPTPTGTQT U	101	PTTPTITTTTTVPTPTPTGTQT U
102	PTTPTITTTTTVPTPTPTGTQT U	102	PTTPTITTTTTVPTPTPTGTQT U
103	PTTPTITTTTTVPTPTPTGTQT U	103	PTTPTITTTTTVPTPTPTGTQT U
104	PTTPTITTTTTVPTPTPTGTQT U	104	PTTPTITTTTTVPTPTPTGTQT U
105	PTTPTITTTTTVPTPTPTGTQT U	105	PTTPTITTTTTVPTPTPTGTQT U

Unique repeats only found in 98TR

Unique repeats only found in 105TR

U= unique shared TR units with identical amino acid sequence

* = One aa less

Shared TRs with identical DNA sequence are (marked in GREY)

Sequences from RP13-807H17 and CH17 -246P12 TR units were compared and coordinated by means of unique (U) shared repeat units (unique referred to as TR' units present one time in both BAC sequences). Shared TR with identical aa sequence are marked in bold and identical DNA sequence highlighted in grey. Fifteen unique non-shared repeat units are marked in green (RP13-870H17) and 16 red (CH17-246P12). Sixty-four of the TR units are identical when comparing both sequences, 18 of these are homologous, but unique repeats (only present one time). Note that some of the repeat units share the aa sequence, but not the DNA sequence (marked in bold).

Figure X1

