

Genomic sequence of the CD163 gene locus in large white pigs

Bold and green highlighted exons

sgRNAs and cutting sites are indicated in bold italic

1	TCTTCATCCT	ATTAGAGACA	CTGCTATACA	GCAGAAATTG	ACACAACATT	GTAATCAAC
61	TATACTTTAA	TAAAATAAAA	AAAAGAAATA	CAAGTGCTTT	CTACAGACAA	TCTGCACAAG
121	TTATTTGTTA	GACATATTTG	ATTATAGAAT	TAATATTAAA	AGGGGTATA	ACAATCAAGC
181	ATTGATAATT	TAATTATGTT	TGCCTATTTT	ACTTTAGTTT	TTTGACATAA	CTGTGTAAC
241	ATTGCGATTT	TTTTATTCCT	AATGTAATTA	GTTCAAAACA	AAGTGCAGAA	ATTTAAAATA
301	TTCAATTCAA	CAACAGTATA	TAAGTCAATA	TTCCCCCTT	AAATTTTAC	AAATCTTTAG
361	GGAGTGTTTC	TCAATTTCTC	AATTTCTTTG	GTTGTTTCAT	GTCCCATATG	GAAGAAAACA
421	TGGGTGTGAA	AGGGAAGCTT	ACTCTTTTGA	TTACTTCCCT	TTTCTGGTTG	ACTCCACCTC
481	CATTATGAAG	CCTTTCTGTA	TTTTTGTGGA	AGTGAAATGA	TTTTTAGAAT	TCTTAGTGGT
541	TCTCTTCTTC	AGGAGAACAT	TTCTAGGTAA	TAATACAAGA	AGATTTAAAT	GGCATAAAAC
601	CTTGGA ATGG	ACAACTCAG	AATGGTGCTA	CATGAAACT	CTGGATCTGC	AG GTAAAAATC
	Exon 1					
661	TTCTCATTTA	TTCTATATTT	ACCTTTTAAT	AGAGTGTAGC	AATATTCCGA	CAGTCAATCA
721	ATCTGATTTA	ATAGTGATTG	GCATCTGGAG	AAGAAGTAAC	AGGGAAAAGG	CAATAAGCTT
781	ATAAGGGGAA	CTTTTATCTT	CCATAGAATC	AAAATTGAAG	ACGTGACTAG	AAGAAGGATT
841	AGATTTGGCA	TCAGTTTTGT	AAAATTGCTG	AGGTGAAATT	AAGTAAGGGA	TGAAAATTAA
901	CTAAATTGTG	TTGAGTATGA	AACTAGTAGT	TGTTAGAAAA	GATAGAACAT	GAAGGAATGA
961	ATATTGATTG	AAAGTTGATG	ACCTAGAGGA	CATTTAGACT	AACACCTCTG	AGTGTCAAAG
1021	TCTAATTTAT	GATTTACATC	GATGCGTTAA	ACTCATTTAA	CATTCTTACT	TTTTTCCCCT
1081	CAAGCATTTA	AGCTGAAGTA	TAACATTTCA	CATGAAAGCC	TGGATTATAA	ATGCACAGTT
1141	CAGTGACCTA	TCTCAGAGGA	GTGACTGCCA	TAGCATTTTT	TTTGTCTTTT	TGCCTTCAGA
1201	GCCACAGCAA	CGCGGGATCC	GAAGCCGCGT	CTGCGACCCA	CACCACAGCT	CACGGCAATG
1261	CCGGATCTTT	AACCCACTGA	GCGAGGCCGG	GGATCGAACC	CGCAGTCTCA	TGGTTCCTAG
1321	TAGGATTCGT	TAACCACTGC	GCCACGACGG	GAACTCCTAC	CATAGCATTT	TTACTTTTTAA
1381	GTTACTGTTG	GTTTAGAGTA	AGAAGGAGAA	ATGAGAGTGA	TGGAGCGTTT	GCTATATTTG
1441	GAGACAAGGT	CCTATATTGG	AGGTTCTCAA	ATATAAATTT	TGTCGCTTTT	TCCTCCAATG
1501	TATTGTTCAA	CTACTATTTA	GCAGGCCACT	GTGCCAGGTA	CTGGTGAAAC	TGGTGAACAT
1561	GATAGATGTA	ATTCATTCCC	TCATGGAAC	TTCCATCTAA	CAATGTGGAT	CAGGTAGGCT
1621	TGGAGATGAG	AATGCCAGTG	GTTGACTATG	ACTCTGTGGC	TGAAGGGAGA	GCTACTCACT
1681	TCGTAGTTTC	ATCAATGTCT	TTTTGGTTTT	CCAGGTTTTA	AGCCCTGCTC	TTGCAATTCT
1741	TTTCCCTTCT	CCAACCTTCT	TCTAATTTCT	CACCCCTAGG	ATGCCTATAA	ACATGAGTAT

1801	TTTCAAAGCT	ACTTCACTGA	GGTTATATGA	TCCTCGTGTG	AATTTTTCTT	GCCTGCCTTG
1861	CCATTTAGAA	GGAAGTGTTT	CCTGGAATTT	CCATTGTGGC	TTGGTGGTTA	AAGACCCTGC
1921	ATTGTCTCTG	TGAGGATGTG	GGTTCAATCT	CTGGCCTCAT	TCAGTGAGTG	GGTTAAGGAT
1981	CTGGTGTGCG	TGCAAGCTGT	GGCTAAGATC	CCACATTGCC	ATGGCTGTGG	TGTAGACTGG
2041	CACCTGGAGC	TCTGATTTGA	CCACAATCCT	AGGAACTTCA	GATGTTGCCA	TAAAAAGAAA
2101	AAAAAAGTTA	GGAAGGGTTT	TCTGTCTTGT	TTGACCTTT	GTTAATCTCA	AACCTTTGGA
2161	ACCATCTCTC	CTCCAAAACC	TCCTTTGGGT	AAGACTGTAT	GTTTGCCTTC	TCTCTTCTTT
2221	TCGCAGACTT	TAGAAGATGT	TCTGCCCATT	TAAGTTCCTT	CACTTTTGCT	GTAGTCGCTG
	Exon 2					
2281	TTCTCAGTGC	CTGCTTGGTC	ACTAGTTCTC	TTGGTGAGTA	CTTTGACAAA	TTTACTTGTA
2341	ACCTAGCCCA	CTGTGACAAG	AAACACTGAA	AAGCAAATAA	TTCTCCTGAA	GTCTAGATAG
2401	CATCTAAAAA	CATGCTTCAT	GGTTTCAAAG	GATCAGATAT	TAAAAACCCC	AAATAGGTAC
2461	AGAACCATGT	GGCTCTCTCC	CCCCAAACAA	ATAAACGTT	AGCATGGTTT	TCAAAAAAAT
2521	AAAATAACCT	TCACAGGAAA	AATGGATTTT	ACTTAAGATT	TGAAATAATA	TCTAACTAAA
2581	AAATAGGGAA	TAATGCAGAA	GAGGAGAAAC	CTCAGAATTG	TTGGGATGAA	GGAATTTTTTA
2641	GTAACACTAA	AAATTCAAGT	GCCAAAATTT	GTCTAAAATT	GTATTCAGGG	AAGCCAGATA
2701	TATATCAGTG	AAATCGCCAG	TTCCTATATT	AGCTAAAATA	ATCACAAGGC	TGTAGCAGAG
2761	ACAGTTCAGA	GAGAGGTGGA	GATGAGATTT	TTTTTTTTTA	AGTATAATTG	ATTTACAATG
2821	TTGTGGCAAT	TTCTGTTGTA	TAGCAAGAGA	TAGAATTATT	TTATGGTGGG	AGATAATAGA
2881	AAAATATATC	CATATCAATT	TCCATTTGAG	TAGATAAATT	TCAATTAGAG	TTCAACTAGC
2941	AATTAGTAGT	TTTGATACA	TGGTGAAAATA	TATTCATGGT	ATTTTGCATA	TATGTGTGAA
3001	ATAGGTAATA	AATTCCTCAT	AACTGTTCTT	TTTAGTCTCA	CCATCAGCCT	CTACTGATCT
3061	TAGGATTTTG	GAGAAACATA	CATAGTTCAT	CCCTATAAAA	TGCCATAAAA	TCTCATTTTT
3121	ACATTAAACC	ATCCAAGAGA	TTATATAAAT	TGACCTTATA	AAGAATATCA	GCCATAAAAT
3181	AAAGGTATCA	TAGTATGGGA	TTATTTAGCT	TTATTGGTTC	TATGTCACTG	CTTAATTTGA
3241	AACCTGTGAT	ATTGCTGTTT	GTTTTTGAAC	TCCTATGAAA	TAACATTCTC	CCATTGTACC
3301	ATGGATGGGT	CCAGAAACAT	TTCTCAAATC	TGGCTTTGAA	AAATAAATAA	GTAATCTAAA
3361	GAATAATAAT	TCTCTACTTG	CTCTTTGAAT	CTTGACCAAT	TGCTGCATTT	ACCTATTGTT
3421	ACAGGAGGAA	AAGACAAGGA	GCTGAGGCTA	ACGGGTGGTG	AAAACAAGTG	CTCTGGAAGA
	Exon 3					
3481	GTGGAGGTGA	AAGTGCAGGA	GGAGTGGGGA	ACTGTGTGTA	ATAATGGCTG	GGACATGGAT
3541	GTGGTCTCTG	TTGTTTGTAG	GCAGCTGGGA	TGTCCAAC TG	CTATCAAAGC	CACTGGATGG
3601	GCTAATTTTA	GTGCAGGTTT	TGGACGCATT	TGGATGGATC	ATGTTTCTTG	TCGAGGGAAT
3661	GAGTCAGCTC	TCTGGGACTG	CAAACATGAT	GGATGGGGAA	AGCATAACTG	TACTCACCAA
3721	CAGGATGCTG	GAGTAACCTG	CTCAGGTAAG	ACATACACAA	ATAAGTCAAG	CCTATACATG
3781	AAATGCTTTG	TGGGAAAAAA	TGTATAGATG	AGTTAAAAAC	AAAAAGGAAC	CAGTTTTTCTA

3841	TAAGTCATCT	AGTCCATGTA	TAAAATTACC	CAATCCATTA	CTAAAAGACC	ACTTCTGGTA
3901	TTTTACACAT	GACAAAGCCC	ATATTA AAAA	AAAAAAATTC	AGAAGAGATT	CTGAATGCTA
3961	TAATAAATGA	GCAAGT GACT	AGCTTCAATT	TTATATTAGG	TCATTCTACC	TTCTACTTCT
4021	ACATGAAAAT	ATCATAATGT	CTAAGTTAAT	TCCTTG TCCC	CTTTCCCAAT	AAAGCACTGC
4081	TTTCATGCAC	TGGCCTATGA	ATCATGAACT	TTTTG C C C T T	TA ACTGATGA	TCAACTTACC
4141	AAATCAAGAA	ATAAATATTC	TTAGCACTGA	TCCTTTTTTG	TTGTTGTTGG	AGGAAGAATG
4201	TTTTGCAAAG	TAGAATTGCT	TTTTTCTGTT	TAACAGTGCT	ATTCATTTCA	TTTACATGGT
4261	CGTTTTAATT	TATAAAACAT	TTCATAAGTT	TCACCTCATA	TGCCCTTACA	ATAACTCAGG
4321	AAGTTATATG	TTAGACCTTT	CTGCTGACAA	ATCCCAGAGT	CATGTTTCTG	ACCCAGTTCA
4381	GATTCCTTGG	CTTCCCATTT	CTCTTTGCTC	ATGTCATTGA	CCTTTATGCA	GCCCTCTTAC
4441	CTCCCACCTT	TCTATTACAG	ACCATCTCCT	CCATAGGACT	GGTGTTAGAA	AGTACTAATC
4501	TCTACCCAGG	CATTGTGGTG	CAATGTGGGC	AGCACAGGCT	GGTATCTAGA	AAAATGCTGA
4561	AGTGAATTCC	AGCTCAGCTG	CTCGTTAATA	CTATTGTTTT	AAGTAAGCTG	TTCAATCCTT
4621	TGAAATTCAC	TTTCTGAGCA	CTCAGTGATA	TAATAAATGT	AGAGTTACTG	GTACACTGTC
4681	TGGTATGTAA	TAGGTGTTAA	AAATTAACCT	TAGTTTCCTC	ATGGGTCACT	GCTTCTCATT
4741	ACCTAGACAA	CTCATTTCTC	TTTCTTCCTC	TTTCTCTTTC	TCCATTCTCC	TCCTCCTTCT
4801	TCCTCTTCTT	CTTGTCTTTT	ATTGTTATTC	ATTTTGCTGA	GAAAGTTAAG	AAATAACAAC
4861	TCTAACCTCT	ACATCGACCA	CCTAGAGCAA	AGTTAAAAAT	AATAATAAAC	CTTGCCAGAC
4921	TCTTACTATA	ATTGTTGCTG	TCTATAGAGT	TGACTGTTTTA	AGTTAAGACA	TCAGTATAGT
4981	ATTTTTAATT	TTTGTGTTTT	TTTTTTCATA	CTTTTACATG	AGGATCCTTT	ATATAAGGAT
5041	GAGTTAAACA	AACTTGATTT	TTGAAGTTTA	TACCCCTGAG	GCTCAACTGC	ATAATAATAG
5101	AAAGGGATCC	ATAGCCTCTC	AAGGACTTAA	CTAGTTTCAT	GAGTTTTCAG	AATCTGAATT
5161	TCTGAGATTC	TCCACCCCAA	TTAAAGCTCA	AGCCTCAGAA	CATATATCCT	TCTCTTGGTA
5221	AATTCTATTC	TTATCACATG	CGTAATAATA	AAAAAGAGAG	ATGTTGGAGA	CAGATTTTTT
5281	TCCTCACATT	CTGTCTCTAC	TGTTTTCTAG	GTGTTTGATT	CTGTGTTATT	TAACCTCAGT
5341	TTGCTTATCT	GTGAAGTAGG	GATTATGGTA	ATAACATATA	ATGCTTAATG	TTGTAAAGAC
5401	TAAAGAAGAT	AGCATATGTA	ACACATTTGG	AACAGGGAAT	GCATATTTTG	ATTGTGAGCT
5461	CTTATTATTA	TTACCAATCA	GCCATAATAA	AAATCTTGTT	AAGTGGAGGT	CTTTGGATTT
5521	CAGAGCTTTT	AAAATCTAAT	TACTTTTTCA	AAAAAGAGCT	TCTTAGTGTT	TTTTTTTTTT
5581	AACCACAAAG	TGTTTCTATT	TTTTAGGTGT	CCCAAATTT	CATTCCAAAT	ATCTTTTTTCT
5641	CAGATATTTT	AGTCCTCATA	GAACACCTAG	GGATAGTGTA	TAGAGAAAAT	TTCTTTTATT
5701	AAAAAGCTGT	TCTTTGCTAA	AAATTGTAGC	AGGTACTTTT	GGGAGGGGGG	AAAACTTTGA
5761	TTCAGAACT	GCTAAGACAT	GGAGTGTTTT	GACTAATTTT	TCCTCAATTT	TTAATGTTTT
5821	TTATACCATA	GGGTACTTTT	GCAAAC TATT	ATGCATACTT	ATATATTTTT	ACTTTTTTCC

5881	TGTCTTTTAA	CTTCCAAATT	CAACTTCAGA	CAATTATTCA	TGCACTAAAC	TGTTGTAGTA
5941	AGAAAAGATTA	AAATTAATAA	ATTAACCATT	CAACAAATGA	CTGGTTTGCC	ATTTTTACTA
6001	CTTTGTTGTA	TGAACAATTT	TTTTTTCTAC	AAATGAATAC	TTTGAGTCTG	ATTTATCCAT
6061	TCCTACATAA	AAGTTTTTAC	TATATCTTAG	TATTGGAAGG	AAACAAAACA	AAACACAATG
6121	TAAATTTTAA	TCTATAAATT	TTGGGGGGGG	GTAAATATAC	ATAGATGAAA	GTCTTAACCA
6181	TTAATTAGAG	TCAAAAGATT	AAAATTCTCC	AATATGTGAA	CTTAGGCTGC	ATCCAAAATG
6241	AAGCATCATT	TTTAAGGACA	GCATCAAAAAG	TGACCAGAGG	AATTTTACTT	TCTTTCTTTT
6301	TTTTTTTTTT	TTTGAATTTT	AGTTTCTAAA	CTCACTTCTG	AATAAATACA	ACTTCTAAAT
6361	TCTCGTCTTT	TCTCTACTCT	AG ATGGATCT	GATTTAGAGA	TGAGGCTGGT	GAATGGAGGA
			Exon 4			
6421	AACCGGTGCT	TAGGAAGAAT	AGAAGTCAA	TTTCAAGGAC	GGTGGGGAAC	AGTGTGTGAT
6481	GATAACTTCA	ACATAAATCA	TGCTTCTGTG	GTTTGTAAC	AACTTGAATG	TGGAAGTGCT
6541	GTCAGTTTCT	CTGGTTCAGC	TAATTTTGA	GAAGGTTCTG	GACCAATCTG	GTTTGATGAT
6601	CTTGTATGCA	ATGGAAATGA	GTCAGCTCTC	TGGAACTGCA	AACATGAAGG	ATGGGGAAAG
6661	CACAATTGCG	ATCATGCTGA	GGATGCTGGA	GTGATTTGCT	TAA GTAAGGA	CTGACCTGGG
6721	TTTGTCTGT	TCTCCATGAG	AGGGCAAAAA	AAGGGGAGTA	AAAGTCTTAA	AAGCTCAAAC
6781	TGTTAAAAAC	ATAATGATGA	TTGCTTCTTT	TATCATCTTA	TTATTATCTA	ATTTCAGGTC
6841	GAAATCTAG	TACCTGTGCA	GTTTTTTACC	TTAACTGAAA	TTAAGATAAA	TAGGATAGGG
6901	AGGAAGGATG	AGCAGTGACA	TTTAGGTCCA	AGTCATGAGG	TTAGAAGGAA	ATGTTCAGAG
6961	AATAGCCCAT	TCCCTCAGCC	CTCAAAGAAA	GAAAGAAAGA	AAAAGAAAAA	AAAAAAGAAA
7021	GCTTAACTAG	AAAATTTTGT	TCTCTGGATG	TTTTAGAGGC	AAACCATCCC	TTTTATCATT
7081	CCTTACCTAC	AAAGCCCTTC	TCTTTAATCA	CATTGACCCA	CCCTTTCCTA	AACTATTAGT
7141	TCAAATTCAC	ATAATTGAAT	GCTTTTAAAA	CTTGGTTTCC	TCTTATAAAT	ATATTTATGT
7201	TGTAAGGAGG	CACTGTGTCT	TGTCTAGAGA	CTTTCATGTT	CTATGCTTGA	TTATGGGACA
7261	GGGACATGGC	TTTGTCTGCT	CCAGGATGTC	ACTCTCCTTT	TTTCACTTGA	GCTCCTAGTT
7321	TGAAGAAGAC	CTAGTAAGTC	TTGAACTCCA	GGGAGTCTTT	AGGAAACTAT	CCCTAGAGCA
7381	AAACTGTCCC	TGAATTCACC	CAGTGTCTTT	TTTTTTTTTT	TCAAATGAAG	GAACTTTAGT
7441	TCAAATAAAA	TTTAAAATAA	GGGAATTCTA	ATTCAGAATA	CTGGGAAATC	CAGGAGATTA
7501	CAATTGGCTT	CATGTGTGAT	TGGATTCAGC	ACTTCACCAA	TGTCATCAGG	GTTCTGGTTC
7561	TTTTTTTATT	TCTTGAATTG	GCTTTTTTTT	TTTTTTCCTT	GTTGAACAAT	ATGACTATCT
7621	ATACTTTGAA	CCACAAAGAA	AGTGATTCCCT	ACAGAAAAGA	CAGAATGTGT	TAGCTGAAGG
7681	AAGGGAATGG	GACTTGGGGT	AGAAAAA AAC	ACCTTCCGTA	TTCCTTAACC	TATCAAAAAT
7741	TTCTAGGTAC	CCCTAACTAA	AATCCTAATT	CAAGCATATT	GGAGGAACTT	GACAAATCCA
7801	GGAATAATAT	TATCCGTTAT	CAAATACATG	CACATCATTT	ACATTTCTCC	ATGTCTCTGC
7861	TCATGCAGTT	CCCGGCCCTA	ACTCTACCAA	AGTATTACTC	TCCATCTCCC	TCTTTTTTTT

7921	TTTAATGATT	TTTATTTTTT	CTGTTATGAC	TGGTTTACAG	TGTTCTGTCA	ATTTTCTACT
7981	GTACAGCAAA	GTGACCCAGT	CACACATTCA	TATATACATT	CTTTTTCTCA	CATTATCCTC
8041	CATCAGGCTC	CATCACAAGT	GACTAGACAT	AGTCCCAGA	GCTATGCAGC	AGGATCTCAT
8101	TGCTGCTCCA	TTCCAAAGGC	AACAGTTCAC	ATCTATTAAC	CCCAGATTCC	CAGTCCACCC
8161	CACTCCCTTC	CCCTCCCTCT	TGGCAACCAC	AAGTCTGTTC	TCCAAGTTCA	TGAGTTTATT
8221	TTCTGTGGAA	AGTTTTATTT	GTGCAGTATG	TTAGATTCCA	GATATAAGTG	CTATCATATG
8281	GTATTTGTCC	TTCTCTTTCT	GACTGACTTC	ACAAAGTATG	AGAGTCTCTA	GTTCCATCCA
8341	TGTTACTGCA	AATGGCATT	TTAATCTCCA	TCTTTTTTTG	TTCATGTATA	TGTTACCCAG
8401	ATTCCTTGAC	TTTTCTACAT	CATCAAGATA	TTGTTGATCA	CTTCTTTGTA	GTGATTTCTG
8461	CCTTTCTCTG	ATGTCCTGTG	ACACTAGTCT	GGATTATTCA	TTTACCTGAA	ACCACATGTC
8521	TCTTATAATG	TGTATCCCAA	ATTAAATATG	TCTATTGTAA	TGTGTATCCC	AAATTAAATA
8581	TTTATCTTTC	TAAAAAAAAA	AATTTCTAGG	CCCCAATCA	GCATGTTTCT	TCTCAGTGTG
8641	TTTTATACAT	GCTGCAGAAT	CATAATAGAC	AGCATAATAG	ACAGCATAAC	AAAAACTAAA
8701	AATGCCAGGG	GAAAAAAGCA	ATTTACTGAT	TACAACATAT	TACTCAGAAT	CAAGTTCTGT
8761	TCTTTGAGGA	ATATTGATTG	GGGGAAAATG	AAAATAATGA	TGGGGAGGTC	CCTTTTCTCT
8821	TTGCTTTGCT	TTTAAACTAC	GGAAAGTAGC	AGAAAGGGGT	CAGGAATGTA	ATATAAACCA
8881	GGTAGTCCTG	GTAGGTAACG	CAGCCGGAGG	CAAAGTGAG	TGTTGAGTAT	TGAGGCAAAC
8941	TGGAGGGCAT	GGATACCACC	TAGACAGATG	CAAATATATA	TTTAACAGGG	AAAAAAGAAC
9001	CAAACAATTT	CAACAAAAAA	CCAAACAATT	CCAACAAAAT	TGGTCCAATA	AGCAAACCTC
9061	TAGATAAATT	TCAGTCCCTG	GATGTTTTGT	TAGGAATCT	TCCTACAATG	CGTGCTTTCC
9121	ATTCTGAAAA	GTCCTATCTA	CTTGCTGAT	CCACTTCTCC	TTCCATCCTA	AACGATTTTC
9181	AGTGGTAGTA	TATTACTGTT	GTCTCTGTCT	CTACTTATAT	ATCTTCCCCT	TTTCACTCAC
9241	TCCTCTCAGG	TACAGCTCTT	CAGTTTGCCC	TTATTCTTGT	TTCTTGTCA	ATGACTTGTT
9301	TTGTGTCCCT	CTTACAG ATG GAGCAGACCT GAAACTGAGA GTGGTAGATG GAGTCACTGA				
		Exon 5				
9361	ATGTTTCAGGA	AGATTGGAAG	TGAAATTCCA	AGGAGAATGG	GGAACAATCT	GTGATGATGG
9421	CTGGGATAGT	GATGATGCCG	CTGTGGCATG	TAAGCAACTG	GGATGTCCAA	CTGCTGTCAC
9481	TGCCATTGGT	CGAGTTAACG	CCAGTGAGGG	AACTGGACAC	ATTTGGCTTG	ACAGTGTTC
9541	TTGCCATGGA	CACGAGTCTG	CTCTCTGGCA	GTGTAGACAC	CATGAATGGG	GAAAGCATT
9601	TTGCAATCAT	AATGAAGATG	CTGGTGTGAC	ATGTTCTG	GT AAGTGAAAAC	AAAACACCGG
9661	AAGGACCTGT	GTTCTTCAGG	ATTAGGAATG	GATATGAGAT	AGGAGAAAAA	TTGTATCTAA
9721	TATTTTCTTT	GTTGGGAATT	CTTTTACAGT	TGTGACAAAT	CTTTAACATA	TTCTTCATTT
9781	GAGTAGTTTG	GAGGGTTGTC	TGACTGTTTT	CTATAATAAA	TGTCCCAAGT	GCTATGAGGT
9841	ACCACATTTT	AAATTCTAAT	TCTACCTGAA	GCTCCAAAAA	GACAAAATGT	TATAGGTCTT
9901	TTCTTTATAT	CTAATTTGCT	TATGGTTTTT	AGCCATTGAC	AATTTTTTTT	TTCTTAACTC

9961	TTGAAACTAT	AATCCTATTT	CTAACCAAAT	TCATGTTCTA	TACTGGCTCT	TCAAAAACCC	
10021	AGGAGATGGG	AAAGCCAGAA	TCTCCAGTGT	TTCAGCTTCT	GGGAAGGAGC	AAGTTTTTAA	
10081	ATGTGGGAGC	TAAATTCCAC	ATGTATCTAT	GGCCTAAGTG	TATGTTTATT	TTGCAG ATGG	
10141	ATCAGATCTG	GAAGTGAAGC	TTAAAGGTGG	AGGCAGCCAC	TGTGCTGGGA	CAGTGGAGGT	
	Exon 6						
10201	GGAAATTCAG	AAACTGGTAG	GAAAAGTGTG	TGATAGAAGC	TGGGGACTGA	AAGAAGCTGA	
10261	TGTGGTTTGC	AGGCAGCTGG	GATGTGGATC	TGCACTCAA	ACATCATATC	AAGTTTATTC	
10321	CAAACCAAG	GCAACAAACA	CATGGCTGTT	TGTAAGCAGC	TGTAATGGAA	ATGAAACTTC	
10381	TCTTTGGGAC	TGCAAGAATT	GGCAGTGGGG	TGGACTTAGT	TGTGATCACT	ATGACGAAGC	
10441	CAAATAC	TGCTCAG	GTA	AGAATTTCAA	TCAATGTGTT	AGGAAATTGC	ATTCTACTTT
10501	CTTTTACATG	TAGCTGTCCA	GTTTTCCCAG	CACCACTTGT	TGAAGAGACT	GTCTTTTCTT	
10561	CATCATATAG	TCCTACATCC	TTTGTCCATAA	ATTAATTGAC	CATAGGTGTG	TGGGTTTATA	
10621	TCTGGGCTCT	CTATTCTGTT	CCTTTGATCT	ATGTGTCTGT	TTTTATGCCA	GCACCATGCT	
10681	GTTTTGATTA	CTATAGCTTT	GTAGTATCAT	CTGAAGTCAG	GAAACATGAT	TCCTCCAGCT	
10741	TTGTTCTTCT	TTCTCAAGAT	TGTTTTGTCT	ATTCAGAGTT	TTATGTTCCCT	ATGCAGATTT	
10801	TATTTTTATT	TTTATTTTAT	TTTTATTTTT	TTTATTTTCC	CACTGTACGG	CAAGGGGGTC	
10861	AGGTTATCCT	TACATGTATA	CATTACAATT	ACAGTTTTTC	CCCCACCCTT	TCTTCTGTTG	
10921	CAACATGAGT	ATCTAGACAA	AGTTCTCAAT	GCTATTCAGC	AGGATCTCCT	TGTAAATCTA	
10981	TTCTAAGTTG	TGTCTGATAA	GCCCAAGCTC	CCGATCCCTC	CCACTCCCTC	CCCCTCCCAT	
11041	CAGGCAGCCA	CAAGTCTCTT	CTCCAAGTCC	ATGATTTTCT	TTTCTGAGGA	GATGTTCAAT	
11101	TGTGCTGGAT	ATTAGATTCC	AGTTATAAAG	GATATCATAT	GGTATTTGTC	TTTGTCTTTC	
11161	TGGCTCATT	CACTCAGGAT	GAGATTCTCT	AGTTCCATCC	ATGTTGCTGC	AAATGGCATT	
11221	ATGTCATTCT	TTTTTATGGC	TGAGTAGTAT	TCCATTGTGT	ATATATACCA	CCTCTTCTGA	
11281	ATCCAATCCT	CTGTCGATGG	ACATTTGGGT	TGTTTCCATG	TCCTGGCTAT	TGTGAATAGT	
11341	GCTGCAATGA	ACATGCGGGT	GCACGTGTCT	CTTTTAAGTA	GAGCTTTGTC	CGGATAGATG	
11401	CCCAAGAGTG	GGATTGCAGG	GTCATATGGA	AGTTCTATGT	ATAGATTTCT	AAGGTATCTC	
11461	CAAAGTGTCC	TCCATAGTGG	CTGTACCAGT	TTACATTCCC	AGCAGCAGTG	CAGGAGGGTT	
11521	CCCTTTTCTC	CACAGCCCCT	CCAGCACTTG	TTATTTGTGG	ATTTATTAAT	GATGGCCATT	
11581	CTGACTGGTG	TGAGGTGGTA	TCTCATGGTA	GTTTTGATTT	GCATTTCTCT	TATAATCAGC	
11641	GATGTTGAGC	ATTTTTTCAT	GTGTTTGTCTG	GCCATCTGTG	TATCTTCTTT	GGAGAAATGT	
11701	CTATTCAGGT	CTTTTGCCCA	TTTTTCCATT	GATTGATTGT	TTTTTTTGCT	GTTGAGTTGT	
11761	ATAAGTTGCT	TATATATTCT	AGAGATTAAG	CCCTTGTCAG	TTGCACCTAT	GCAGATTTTA	
11821	AAACTATTTT	CTCTAGTTCT	ATGAAAAATA	CCATTGGTAA	TTTGATAGGG	ATTGCCCTGA	
11881	ATCTGTAGAT	TGCCTTGGAT	AGTATTGCCA	TTTTAACAAT	ACTGAATCTT	CCAATTCGAG	
11941	AGCACAGTGT	ATCTTTCTTT	CTGTGTCATC	TTCAGTTCTT	CTCATCTGCA	TCTTATAGTT	

12001	TTAGAAGTAC	AGGTCTTTTG	CCTCCTAAGG	TGGGTTTTTTT	CCTAGGCATT	TTATTCTTTT
12061	CAATGTGATA	GTGAATGAAA	TTGTTTCCTT	AATTCTTTCT	CTCTCTTTTT	TAATGGCTTC
12121	ACCTGCAGCA	TATGGAAGTC	CCCAGGCTAG	GGATCAAATC	ACAGCTGCAG	CTATGTCCAT
12181	GCCACTGCCT	TGGCAACAGC	AGATCTGAGC	CACATCTGCC	ACTTACACTG	TAGCTTACAA
12241	TAATGCTGAA	TCCTTAACCC	ACTGCTAGAA	CCTGAATCCT	CACAGAAACA	ATGTCGGGGT
12301	CCTTACCTCT	CTGAGCCACA	ATGGGAAATC	TTCATTTTTT	TTTCTGATAA	TTTGTGTGTA
12361	GTGTATAGAA	ATGAAACAGG	TTTCAGCATA	TTAATTCTTA	TCCTGAAGTT	TTACCCAATT
12421	CATTGATAAA	CTCTAGTAGC	TTTTTGGTGG	TGTCTTTAGG	ATTTTCTATG	TATAGATTCA
12481	TGTTACCTGC	AAACAGTGCC	ATTATTACTT	CCTTTTTTCC	AAATTGGATT	CCTTTTATTT
12541	CTTTTTCTTC	TCTGCTGTGA	CTAGGATTTT	CAAAATCATG	TTGAATAAAA	GTAGCAAGAA
12601	TCAGCATCCT	TGCTTTGTTT	CTGACCTTAG	AAGAAACACA	TTCAGCATTT	AACTGTCGAG
12661	TATGATGTTA	GCTGTGGGCT	TATCATATAT	GGCATTATTT	ATTTTGAGGT	ATATTCCCTC
12721	TATACCCACT	TTGTTGAGAA	CTTTTTATCA	TGAATGGATG	TTAAACTTTG	TCTAAAGCTT
12781	TTTCTGCATC	TAGATAACCC	TATTATTTTT	CTTTTCTAAT	TTGTTTATGT	GGTGTATCAC
12841	ACTGATTTAT	TTGCAGATGT	GCATCCATTC	ATGTATCCCA	CTTGATCGTG	GTGTGTAATC
12901	TTTTTTAGTGT	ATTAGTGAAT	TTGGTTGCTA	GTATTTTGT	TGAGGATTTT	TGCATATACA
12961	TTCATCAGCG	GTATTGGATT	TTAAATCTTT	TGTATGTGTC	TTGTTTTGGT	ATCAGGGTAT
13021	CCTCTAGGGT	ATCCTCCTAG	AATGAGTTCA	GAAGGGTACA	TTTCTTTGGG	GAATATATTT
13081	GGTAGAATTC	ACTTTTGAAG	CTGTCTGGTC	CTGTTCTTTT	GTTTGTGGGG	AAGTTCTTTT
13141	TAAATTATTA	TTATTACTGA	TTCAATTTCA	TTACTGGTAA	TTGGACCATT	TATATTTTCT
13201	TTTTTTTCCCT	GGTTCAATCT	TGGGAGATTG	TATGTTTTTAA	AAATTTGTCC	AGTTCTTCTA
13261	GGTTGTTTAT	TTTATTGGAA	TGTAATTGTT	TGTTTATCTT	TTTTTTTGCA	TTTTCTAGGG
13321	CCGCACCCAT	GGCATATGGA	AGTTCCCAGG	CTAGGGGTCT	AATCGGAACT	GTAGCCACTG
13381	GCCTACCCCA	GAGCCACAGC	AACGTGGGAT	CTGAGCCGCA	TCTTCGACCT	ATACCACAGC
13441	TCACAACAAT	GCGGGATCCT	TAACCCACTG	AGCAAGGCCA	GGGATTGAAC	CTGCAACCTC
13501	ATGGTTCCCTA	GTTGGATTAG	TTAACCACTG	AGCCACGACG	GGAACTCCAA	TGGTATGTAA
13561	TTGTTTATAG	TGATCTCTTA	TGAGTCTTTA	TTTTTCTGTA	GTAATCATAA	CTTCTCTTAT
13621	TTCATTTTGA	TCTTATTGAC	TTGAGCCCTC	TGTTTTTTT	TTAGTACTC	TAGCTAAAGG
13681	TTTATCAATT	TTGTTTATTT	TTTTCAAGGA	TCTGGCTCTT	AATTTTATTC	AACTTTTCTA
13741	TTTATTTTAT	TCTCTATTTT	ATTTACTTCT	GTTTCTGATT	TTATGATTTT	TTTCTTTCTA
13801	CTAAGTTCAG	TTTTGGTTTG	TTCTTTTCTA	TTTCTTTTAA	GTGTAAGGTT	ATGTTGTGTA
13861	TTTGAGATTT	TTGTTTCTTG	AGGAAACAGG	CTTGCATATT	TGTAAACTTC	CCTCTTAGAA
13921	TAGTTTTTCT	TAAGTTCCAT	AGTTTTTTTT	TTTTATTTTG	TGGTTTTTAT	TTTTCCATTA
13981	TAGTTCATTT	ACAGTGTCTT	GCCAATTCCT	ACTATATAGC	AAAGTGACCC	AGTCATATAT

14041	ATATGTATAT	ATGTATATAT	ACACATACAT	ATACACATTA	TCCTCCATCA	TGTTCCATCA
14101	CAAGTGACTG	GATACAGTTC	CCTGTGCTAT	ATAGCAGGAT	CTCATTGCTT	ATCCACTCCA
14161	AATGTAATAG	TTTGCATCTA	TTAACCCCAG	ATGTCCCATA	GATTTGGAAT	TGTGTTTTTG
14221	TTTTCATTCG	TATTCAGGTT	TTTTTTAATT	TCCTCTTTGA	TTTCTTCAGT	AATCCATTTG
14281	TTGCTTAGTA	ATATATTGTT	TAGCCTCTGC	GTGTTTGTGG	TTTGTTGCAA	TTTTCTTCTT
14341	GTAGTTGATT	TCTAGTCTCT	TTGTGTTGTA	GTTGGAAAAG	ATGTATGATA	TGATTTCAAC
14401	TTTCCTAAAT	TTACCAAGGC	TTGTTTTGTG	GCCTAGCATG	TGATATATCC	TGAAGAATGT
14461	TCCATGTGCA	CATGAAAAAA	ATGAATATTC	TGCTGCTTTC	AAATGGAATG	CTCTCTCTAT
14521	TTCAATTATG	TCCATCTCTA	ATGTTTTGGG	AACATGTTCT	TTTGCTACCT	CATTTTGCCT
14581	AATTTGCTGT	TTTGGGTTCT	AAATATCTGG	TAGGTTGGTT	ACATTTTCCA	ACCTTGACAA
14641	AATAACCTTT	TGTTGAAACA	TCCTGTGCTT	CCCAGCAGCA	CACTCCTCTC	TGGTCACCAG
14701	AGCTATATGT	TCCAGGGGTG	CCCCCCTATG	CTGACTTTGT	GAGAACTTCT	TTTGCAGTTG
14761	GCTGACTACT	GTAGGTGGTC	TTGTAGGCAT	GGCTGGCCCC	CAGTCTGGTT	GTTTGCAAGA
14821	AGCTGCCTTG	TACAAAGGCT	GCCAGTCACT	TGTTGGTGGG	ACTGGGTCAT	GGGGTGGCTG
14881	GCTATAGAGA	CCAGGGTTGT	CTCAGGGGTA	GTGCTGTCTC	ATTTGTGGGT	TTAGCCACGT
14941	TTTGCAGTGG	GTGATTGTGG	TTCCAGGGTT	CCTAGATCTA	GTGTCAGCTT	GTGGGTACTG
15001	GGTCCCCAG	CTGCAGGGCC	TAGGAGCTTC	AGAGCTAGAG	CTAACCTCCT	GGTGGGTAGA
15061	CTGTGTCCTG	ACAAGGCAGG	TTGTAGTGTT	ACAGTGATCC	TGGGGCTAGT	ATCTATCCAC
15121	TGGGGGGTAA	GACTTGTCCC	AGGGCTAGCA	CCAGCTCTCT	GGTGGGTAGA	TCTAGGTCCT
15181	GGAGGTCTCG	GCTGCAGGGC	CAGGGATCCA	GGAGCTGGTG	TTGACTGGTT	GGTGGACAGG
15241	GCCAAGGCCC	AGAGTGTCCC	CAGGCTAGAT	CTACTTCAGT	GATGGGTGGA	TCTAGGTCCT
15301	GTATTTCTGG	CTACAGGGCT	CTGGGATCCC	AGAGTTGGTA	TGTCAGTCAA	CTGACATACA
15361	GGGCTGGAGG	CAGAGAGTCC	TGAGGCTGGT	GCCTGCCAC	TGGTGGGTGG	AGCTGGGATT
15421	CAGGGTCTCT	GACTGAAGTG	CCCTGGGGAT	CCCTGGGCTA	GTGCTGGCCC	ACTGGTGTGT
15481	GTTTGGTTGG	GTCCTGGCCA	TTCTGGTAGA	CAGGGCCATA	TTCCCATATT	CCAGGGTGGC
15541	TGTAGGCTCA	GGGAATCTCA	AGGCAACCTA	CTGCTGGTTA	GAGGAGTGTG	TGGGGAGGTG
15601	CTATGTCCCT	GTCCAGTTTG	TTGCTTGGCA	TGAAGCATCC	CAGTACTGGT	GCCAACAGGC
15661	TAATTAGTGG	GTCTGGGTCC	TGGTGCTAAT	AAGCTAGAGG	GAAGATTCAA	AAATGACATT
15721	TTTTTAACAC	CAGTGTCTTT	GTGGTAAAAT	GAACTCCCCA	GAATGGCTAC	CACCAGTGTG
15781	TATGTCCCCA	TGGTGAATTC	TAATTGCTCC	TGTCTCTTGA	AGTGGCTCTC	CAAGATCAAC
15841	AGGTGGGTCT	GATCTAAGCT	CCTTTCAAAT	TACTGCTTCT	GCCCTGGGTC	CCAGAACATG
15901	TGAGATTTTG	TGTGTCCTTT	AAGAGTGGAG	TCTCTATTTT	CCACTGCTCT	CTGGTTCTCC
15961	CAAAGTAAG	CCCTGCTGGC	TTTCAAAACT	TCTGGGAGCT	TGCCTTCTTG	GTATAGGACT
16021	CCTGGGCTAG	GGAGTCTAAT	GTTTGGCTTA	GACCCCTTAC	TGCTTGGGAA	GAATCTCTGC

16081	AACTGTAATG	AATTATCTTC	CTATTTGTGG	GTTGCTGAGG	ATATGGTCTT	AACTGTTCTG
16141	TGTTCTACCC	CTCCTATCCA	TCTTGTGTGG	GTTCCCTTCTT	TATATCTTTA	GTTGTAGAAA
16201	AGTTTTTCTT	ATCAACAGTT	GCTCTGTAAA	TTGTAACCTG	GGTGTACACC	TAGTAGGAGG
16261	TGAGCTCAGG	GTCTTCCTAC	TCTGCCATCT	TGGCCATGTC	CTCTAAACAT	TTTGGTGTAT
16321	TTCACTGCAA	CCTTTTTTAAA	AATCTCAAAA	GTGAGCTGTG	ATTGGCTAGT	CTTGTGGATA
16381	ATCTCTAGCA	TTTGATGCTA	ATCATATTTA	TACAAATACT	TTGTTGAAAA	GTGATGCCTT
16441	TTTAACTATT	ATTAAAAAAC	GTATTGACAT	AACTATTGCT	ATTATACTGA	AAAGAAAAGAC
16501	CTTAGAGAAA	ATAGCATAAG	AGCAAAAACCA	TTAAACATGG	AGACATCTAG	TCATAGGGTG
16561	GAAATTTTAT	GTGGTGCATA	TCCCCTAACC	AGTGGCTTTA	CACCAGGCAC	ATCCTAACTA
16621	AGATCTGCTC	CCAAGTGTCT	TCCCTGATGC	TTTAAATTGT	GTTACATGGA	AACTATCCTT
16681	TGATGAAGAA	ATGCAACCTT	TTAAAATACA	ACATTGAAAC	TTTTGTGCTT	TAATTTTGCT
16741	TTTCAACATT	TTTTCTTTTT	AAAAGAAGAA	ATTTATTTGT	TTTTTTAAAT	TTAATGGCC
16801	ACGGCATATG	GAAGTTCTCA	GGCCAGGGAT	AGAATTCAAG	CCACAGGTGC	GACCCATGCC
16861	ACAACGCTG	CAACACCAGA	TCCTTTAACC	CACTGCACCA	GGCCAGGGAT	TGAAGCCTTG
16921	CCTTACTGAC	AATCTGAGCC	ACTTCAGTCA	GATAAAGAAA	TTTCTTCATT	AAGCAGAGTA
16981	TTCACATGGT	TTAAACTTCA	AAATATTTAAA	GTGTAAACTC	TTTCCCACC	ACTGTCCCCA
17041	GCTCACCAAC	TCTACTTACC	ACAGACAACT	GATGTGGTTA	GGGTATTTAA	ATAGTAAATC
17101	CAAGAAAATA	TAAACAAATC	CGTATATATA	GGTTTCACCC	CATTTTATTA	TCCTAATGTT
17161	GCATATCATA	TAAACTATAC	TGTCCCTTGG	GTATTCACTT	AGTAAAATAT	TTTGATCATA
17221	ATTTCCATATC	AGTATTTAAA	GAGCTTTCTG	AAATTATTTT	TGTATAACAT	TTCTTTTCTC
17281	ATCATCTATT	ATGTGCATTT	ATTTATATTT	TAACTTCTTT	TATTAGATGA	AATTATCTTC
17341	TGCTTCAGCT	TTTTTTTTTT	TTTAAAGAACA	CACAGTTGGG	TTTTTTAAGG	TTAATACCAC
17401	CTTTGTTTTT	TAAGTCATTA	AATTTGTTTT	TCTATTAATT	CACTTCTGAT	TCTTTGAAGT
17461	TTGATTTCTT	TTTAGCTTTT	AACTTCTTGA	GTTGTATGCT	TAATTAATTT	TGATTCTTTC
17521	CTATTTATTA	ATATACATAT	TTGAAGCTAT	AGGTTTTCCA	CTGAGTATAC	CAGTAGCTAT
17581	ATCGTATAAT	TGATGAACTG	ATCCTCTGTG	AGTCTGGGAC	ATAAACGTCC	TATGACTGTT
17641	ATGTGGTAGC	TGTGAATTGC	TCTTTTTAGA	TTATAAAGTT	CTCATCTTTT	ATAGTTGAAC
17701	AATTTTTGTC	CTGAATCAAA	TTTGTGGAT	ATTAATATCA	CATCTATTGC	TTTATTTATT
17761	TTCTATTCTC	ACTTTTAAACC	TCTGTGAATA	ATTTCACTCT	AGGTGCCTCA	CTTTTTTCAT
17821	AATAGAATTG	GGATTTATTT	TTAAAAGGAC	TCTGATTAAG	TAATTTTCTT	TTTCTGATAT
17881	GGGAGATATA	TTTGACCTTA	ACTTAGTCAC	ATTATGCATT	GTTCTCTTGT	CATGTTATGT
17941	ATACATAACA	TTTATTGTCA	TTATGGTACA	ACTAAAACA	TATTTCACTC	TGTGACCTTT
18001	ATGGGGACTC	AGCATTTGTT	TAGGAATGTG	GAAGTATATT	TGTATATCTG	ATAATTTCCCT
18061	TCCAAATTTA	AAAAGGTTTG	TATATTTTCA	TATTAACATA	TTTCATATTA	ATTAGCATGA

18121	ATTTACAGCTG	CATTAAGAGG	AAAACCACCT	GAGTGGTAAA	GAAAAAGTTT	TTTTTCTCT
18181	TTTTTTTTTT	TTTTTTTTTA	ATGGCCACAT	CTGTGGCATG	TGAAGTTCCC	AGGCTAGGGG
18241	KCGAATAGGA	GCTACAGCTG	CCAGCTTGCA	CCACAGCCAC	AACAATGCCA	GAGCCAAGCC
18301	TCATCTGCGA	CCTATACCAC	AACTCATGGC	AATGCTGGTT	CCTTAACCCC	CTGAGTGAGG
18361	CCTGGGGTCA	AACCCACATC	CTCATGGATA	CTAACCGGCT	TTGTTACCGC	TGAGCCATGA
18421	GGGAACTCC	CTTTTTCTCA	TTGAAAATAA	GTCAAATAGA	TAAGCAGCTT	AAGGCTGTTT
18481	GGGTGATTCT	GTGGTCCAGT	AATTATCAAA	TCCTACTGGA	CAAGAATAGA	GAATGTGCAA
18541	ATGAGGGAAC	GTGTTGGTGA	GATCAGGCTC	TGCCCACTGA	GCTATCCTCT	GTCATGGGCC
18601	CTGTGCTGTT	CTCAGAGCTG	TACTTCCTAG	GGCATTGTTC	TCATTTCAAT	TCTGAGTTCA
18661	GTGTGGAGAG	TATACGTGTG	TGGGGGCTGC	ACGCTTTTCA	CAACCCACTT	TCTGCTGATA
18721	CTGATTTAGG	GATCCTTGGA	TTGCTTTACA	GTTGAGTCAT	CATTAAGTAG	TGTCACTTGC
18781	CTTCAAAGTC	AGCAAATAA	TTGTCTCAA	ACTAGTAGGC	TTCTAGTGTA	TTTGCTTTAA
18841	TCCAATGCCA	TGTGAAAGTA	ACATGGTCAA	AGAATAAGTT	ATATACCTTG	ACCTACCCTG
18901	TGACCAGGCT	CTTCCTCTTA	ATTTATTGAC	CACTGCCTTA	AGGTCATTTG	AAACCATGGG
18961	TTTGGGAGGA	AGGCAAGGCC	TAAATCCCGT	CTTTGTTGGA	AGGCTCACTG	TCCTTGTCTT
19021	TAGAGCATCA	TTTTTTTTTA	AACTGGGGTA	CAGTTTATTT	ACAGTGTTGT	GTCAATTTCT
19081	GCTGTACAGC	ATAGTGACCC	AGTCATACAC	ATACATACAT	TCTTTTTCTC	ATACTATCTT
19141	CAATTTTATT	TTGTGCTAAG	TCTGCCATTT	TATCATCACC	TCAGTTTGAA	GGACAGGATA
19201	TTTAGAGTTT	GTTTTTTTTT	TCCCCCAAT	CCTGCAATTT	CTAAATTATA	AGACTCTCAA
19261	TTAGCCGTAT	ATAACAGCTG	CAGGCACAGG	ATGTCTCCCT	CACAAAATTG	GTATTTTCC
19321	TTCCATTTCT	TCTTGACAGT	TGGCTATTTT	TTGTCTGAGT	TCATCTCTCT	TTTTAAGTGT
19381	TAAAAAGGGC	AAGGAGGATT	CATGCTATGT	CAACATTATG	ATTTTTCTT	TTCTATACTT
19441	GATAAGAGTA	TACTTTTCCC	AAATGTCATC	CAACTTTTCA	GCATCAGTTT	GGACATGGTT
19501	TTCTTTTCAA	GGTGGTATTT	CTCTAATGTC	ACTTGAATAA	CAAGACTCGT	TAGTTCTCCA
19561	GGCTACAATA	TCCTAGTCTG	AGTATATTCT	GCATGTTAAT	TCTATTCAGC	CACATCCATA
19621	ATTTAGGTTT	TATTCCTGGA	ACACCTCACT	TTTTTTTTTT	TTTTGGTCTT	TTTATAGCCA
19681	TAACCATGGC	ATATGGAGGT	TCCCAGGCTA	GGGGTCTAAT	CTGAGCTTTA	GCCACTGGCC
19741	CATGCCACAG	CCACAGCCAT	GCCACATCTG	AGCCACATCT	GTGACCTTTT	CCACAGCTCA
19801	CAGAAACACC	AGATCCCTAA	CCCCTGAGT	GAGGCCAGGG	GTCAAACCTG	TAACCTCATG
19861	GTTCCTAGTC	AGATTCGTTT	CCTCTGTACC	ACGATGGGAA	TTCCTAATAC	CTCACTTATG
19921	ATAACACATT	CTGAATTATT	TAGGATTCTA	TTATACTGCA	TGTAATAGAA	ATCCCAAATA
19981	GCAAAATTTG	CAACTTAAGG	CAGGTTCCCTG	TCTTTACAAA	ATCATGTTTT	CCTTTGCTAT
20041	ATGTGCACTT	TGCTTTCTC	TGTGAATTCC	CTTTTTTGTT	ATATTTCTAT	AGCTTTTGGA
20101	AACACTTTTA	CTTATTTGGG	GGGGCCTAGA	TTTTTAACCC	TCTCCTTGTT	TTTCTAGAAA

20161	TAGAGTTTAT	AATTTTATTT	CTTCATTTAC	TTGATACTTT	CAAGAGATTT	CCAGGAAAAA
20221	AATTATGGAA	ATACTGTCTC	TGTGCCTGCC	AAGTTCAAAC	TAAGAATTGT	ATAATCTGTT
20281	TTAATTCTTA	AGCATTTATA	GATGACAAGG	CTTTGTGTCT	GATAGGGGCC	AGCGAACTCA
20341	GTAAGAGGG	AAGATGAGAA	AGATAATGGC	AAGAATTTAT	CCCTGAAGTG	TAGTTTTGAC
20401	AAACCAGTCA	CAAAGAGGTC	TAAGAAAATTT	TGGTCACAAA	GTTGTTTTGA	ATCCCAGGCA
20461	TTTTATTTGC	AATGATTGCA	TATGTTCTGG	AAAGGACATC	TGAACCTAAG	AAATAGTTCA
20521	TTTGCATTGT	GTTATATTTT	ACTAAGGTCT	GAGAAAATAAT	CTTGAGATGA	GAATGAACTC
20581	TACTTCTTCA	GAGTCTGGAA	GGAATAAATT	ATGAAAATGT	ATTAATGCTT	CTTTAAACCA
20641	TATTGTATAT	TTATCTATTA	CTAAACAAAA	AGAAGTAGCT	CTATTTATTT	ATTTATTTAT
20701	TTATTTATTT	ATGTCTTTTG	TCTCTTTAGG	GCCACACCTG	TGGCATATGG	AGGTTCCCAG
20761	GCTAGAGGTC	CAATTGGAGA	TGTAGCAGCC	AGCCTATGCC	AGAGCCACCG	CAACACGGGA
20821	TCTGAGCCAC	GTCTGTGACT	TACACCACAG	CTCACAGCAA	CGCCTGATCC	TCAACCCACT
20881	GAGCGAGGCC	AGGGATCGAA	CCCATGTCCT	CATGGATGCT	AGTTGGGTTC	ATTAACTGCT
20941	GAGCCATGAT	GGGAACTCCA	AATTAATTAT	TTCTTATATT	TGTTCTTCAT	ATATTCATTT
21001	CTATAGAAAAG	AAATAAATAC	AGATTCAGTT	AATGATGGCA	GGTAAAAGCT	TAACCTATTA
21061	ATCAAAGGAG	TTAATCCAGG	CACAAAAAATT	CAATTCATGG	CTCTCTGTTA	AAATTTAGGT
21121	ATAGGTTTAG	CAGGAAGAAA	AGGTTAGTAG	ATGCAGACTA	TTACATTTAG	AATGGATGGA
21181	CAATGAAGTC	CTACTATACA	GCACAGGGAA	CTATATCCAA	TCTCTTGGGA	TAGAATATGA
21241	TGGAAGACAA	AATCAGAACA	AGAGAGTATA	TATATATGTG	TGTGTGTGTG	TGTGTGTGTG
21301	TGTGTGTGTG	TGTGTGTGTG	ACTGGGTCAC	CCTGCGGCAC	AGCAGAAATT	GGCAGAACAT
21361	TGTAAATCAA	CTATACTTTA	ATAGGAAAAA	TACTTTTAAG	GGCTAAATTT	CCAATATTCT
21421	AACCATGTAC	ACAGAGTAAA	TGTCATAAAG	ATGCCAGTCT	GTGTAGAGAT	TGATGTGTTA
21481	CTAGCAGATT	CATGAAATAA	AGGCTGAGGA	TGTAGTCCCC	AAGTCACTTC	TGAGTGGAAG
21541	AATTTCTCCT	TTGTCCTGGA	CTCAAATATT	TTAGGATAAA	GGAAAAAAGA	AGATATTTAT
21601	AGAAGGGACT	TGTTTTCAAG	TACTTGACAA	AATTTACCA	TTAAAGAGAA	ATTTGTGGGA
21661	GTTCCCATCG	TGGCTCAGTG	GAAACAAATC	CAACTAGGAA	CCATGAGGTT	GTGGGTTTGA
21721	TCCCTGGCCT	CACTCAGTGG	GTAAAGGATC	CGGTGTTGCC	GTGAGCTGTG	GTGTAGGTTG
21781	CAGACACGGT	TCTGATCCTG	CGTTGCTGTG	GCTGTGGCTG	TGGTGTAGGC	CAGCAGCAAA
21841	CAGCTCTGAT	TAGACCCCTA	GCCTGGAAAC	CTCCATATGC	CACAGGTGCA	GCCCTAAAAA
21901	GACAAAAAAA	GAGAAAAGAC	AAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAA	AAAAAAAAAN
21961	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN
22021	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNA	GAACCACCAG	AGGTATTTAT
22081	TTGTTTTTGC	CTTTTTTCAC	TGACTGTTTT	TTGTTTGTTT	GTTTGAGACT	GATCTAGAAG
22141	ACTAGAGATT	ACAAGAAATA	TGGATTTGGC	TCACTCTAAG	AAACTGCTTT	CATTCCAAGG

22201	TTTGGGTCTA	TCCAAAAGTG	GAATAGAATC	ATATGAATAC	TAGTTTATGA	GTATTTAGTG
22261	AGAGGAATTT	CAAGCTCAAA	TAATGATTCA	GCAAGATTAA	ATTAAGGAGG	GAATTTTCCT
22321	TGTGGCTGAG	TGGGTAAAGG	ACCCAATGTT	GTCTCTGTGA	GGATGTAGGT	TCCATCCTGG
22381	GCTTTGCTCA	TTAGGTTAAG	GATCTGGCAT	TGCTGCAGCT	CAGACCCAGT	GCTGCCCTGG
22441	TTGTGGCTTA	GGCCAAAGCT	GCAGCTCCAA	TTCAATCTCT	GGCCTGGGAA	CCTCCATGTG
22501	CTACAAGGTG	CGGCCTTAAA	AGGAAAAAAA	AAAAAATTAA	ATCAAGGACT	CAAGAGTCTT
22561	TCATTATTTG	TGTTGTGGAA	GCTATATTTG	TTTTAAAGTC	TTAGTTGTGT	TTAGAAAAGCA
22621	AGATGTTCTT	CAACTCAAAT	TTGGGAGGGA	ACTTGTTTCA	TACATTTTTA	ATGGATAAGT
22681	GGCAAAATTT	TCATGCTGAG	GTGATCTATA	GTGTTGTAAT	GCAGAATATA	GTCAGATCTT
22741	GAACATTTTA	GGAAGTTGGT	GAGGGCCAAT	TGTGTATCTG	TGCCATGCTG	ATAAGAATGT
22801	CAAGGGATCA	CAAGAATTCG	TGTTATTTGA	CAGCAGTCAT	CTTTAAAAGG	CATTTGAGAA
22861	AGTCCAATTT	CAAATGCATT	TCCTTTCTTT	AAAAGATAAA	TTGAAGAAAA	TAAGTCTTTA
22921	TTTCCCAAGT	AAATTGAATT	GCCTCTCAGT	CTGTTAAAAG	AAACTCTTAC	CTTGATGATT
22981	GCGCTCTTAA	CCTGGCAAAG	ATTGTCTTTA	AAATCTGAGC	TCCATGTCTT	CTGCTTTATT
23041	TCTGGTGTGC	CTTTGACTCC	AGATTACAGT	AAATGGAGGA	CTGAGTATAG	GGCTAAAAAG
			GAT T cut.	sgSL27		
23101	TAGAGAGAAT	GGATGCATAT	TATCTGTGGT	CTCCAATGTG	ATGAATGAAG	TAGGCAAATA
23161	CTCAAAGGAA	AGAGAAAGCA	TGCTCCAAGA	ATTATGGGTT	CCAGAAGGCA	AAGTCCCAGA
23221	ATTGTCTCCA	GGGAAGGACA	GGGAGGTCTA	GAATCGGCTA	AGCCCACTGT	AGGCAGAAAA
				sgSL26	cut. C TGT	
23281	ACCAAGAGGC	ATGAATGGCT	TCCCTTTCTC	ACTTTTCACT	CTCTGGCTTA	CTCCTATCAT
23341	GAAGGAAAAAT	ATTGGAATCA	TATTCTCCCT	CACCGAAATG	CTATTTTTCA	GCCCACAGGA
				CAC C cut.	sgSL25	Exon 7
23401	AACCCAGGCT	GGTTGGAGGG	GACATTCCCT	GCTCTGGTGC	TGTTGAAGTA	CAACATGGAG
23461	ACACGTGGGG	CACCGTCTGT	GATTCTGACT	TCTCTCTGGA	GGCGGCCAGC	GTGCTGTGCA
23521	GGGAACTACA	GTGCGGCACT	GTGGTTTCCC	TCCTGGGGGG	AGCTCACTTT	GGAGAAGGAA
23581	GTGGACAGAT	CTGGGCTGAA	GAATTCCAGT	GTGAGGGGCA	CGAGTCCCAC	CTTTCACCTT
23641	GCCCAGTAGC	ACCCCGCCCT	GACGGGACAT	GTAGCCACAG	CAGGGACGTC	GGCGTAGTCT
23701	GCTCAA GTGA	GACCCAGGGA	ATGTGTTTAC	TTTGTT CCCA	TGCCATGAAG	AGGGTAGGGT
				sgSL28	cut.	GG GTA
23761	TAGGTAGTCA	CAGACATCTT	TTTAAAGCCC	TGTCTCCTTC	CAG GATACAC	ACAAATCCGC
					Exon 8	
23821	TTGGTGAATG	GCAAGACCCC	ATGTGAAGGA	AGAGTGGAGC	TCAACATTCT	TGGGTCCCTG
23881	GGGTCCCTCT	GCAACTCTCA	CTGGGACATG	GAAGATGCC	ATGTTTTATG	CCAGCAGCTT
23941	AAATGTGGAG	TTGCCCTTTC	TATCCCGGGA	GGAGCACCTT	TTGGGAAAGG	AAGTGAGCAG
24001	GTCTGGAGGC	ACATGTTTCA	CTGCACTGGG	ACTGAGAAGC	ACATGGGAGA	TTGTTCCGTC
24061	ACTGCTCTGG	GCGCATCACT	CTGTTCTTCA	GGCAAGTGG	CCTCTGTAAT	CTGCTCAG GT
24121	AAGAGAATAA	GGGCAGCCAG	TGATGAGCCA	CTCATGACGG	TGCCTTAAGA	GTGGGTGTAC

24181	CTAGGAGTTC	CCATTGTGGC	TCAGTGGTAA	CAAACCTCGAC	TGGTATCCAT	GAGGGTATGG
24241	GTTTGATCCC	TGGCCTTGCT	CAATGGGTTA	AGGATCCAGC	ATTGCTGTGA	GCTGTGGTAT
24301	AGGTTGCAGA	CTCTGCTCAG	GTCCCATGTT	GCTGTGATTG	TGGTGTAGGC	TGACTGTTGC
24361	AGCTTCAATT	TGACCCCTAG	CCCGGAATT	TCCATAGGCC	ACACGTGCAG	CACTAAGGAA
24421	GGAAAAAAAA	AAAAAAAAAA	AAAAGAGTGG	GTGTGCCTAT	AGTGAAGAAC	AGATGTAAAA
24481	GGGAAGTGAA	AGGGATTCCC	CCATTCTGAG	GGATTGTGAG	AAGTGTGCCA	GAATATTAAC
24541	TTCATTTGAC	TTGTTACAGG	GAAAGTAAAC	TTGACTTTCA	CGGACCTCCT	AGTTACCTGG
24601	TGCTTACTAT	ATGTCTTCTC	AGAGTACCTG	ATTCATTCCC	AGCCTGGTTG	ACCCATCCCC
24661	CTATCTCTAT	GGCTATGTTT	ATCCAGAGCA	CATCTATCTA	ACACTCCAGC	TGATCTTCCT
24721	GACACAGCTG	TGGCAACCCT	GGATCCTTTA	ACCAACTGTG	CCAGGCTGGA	GATCAAACCT
24781	AAGCCTCTGC	AGCAACCCAA	GCTGCTGCAG	TCAGATTTTT	AACCCCTGT	GCCACTGTGG
24841	GTATCTCCGA	TATTTTGTAT	CTTCTGTGAC	TGAGTGGTTT	GCTGTTTGCA	GGGAACCAGA
						Exon 9
24901	GTCAGACACT	ATCCCCGTGC	AATTCATCAT	CCTCGGACCC	ATCAAGCTCT	ATTATTTTCAG
24961	AAGAAAATGG	TGTTGCCTGC	ATAG GTGAGA	ATCAGTGACC	AACCTATGAA	AATGATCTCA
25021	ATCCTCTGAA	ATGCATTTTA	TTCATGTTTT	ATTTCCCTCT	TGCAG GGAGT	GGTCAACTTC
						Exon 10
25081	GCCTGGTCGA	TGGAGGTGGT	CGTTGTGCTG	GGAGAGTAGA	GGTCTATCAT	GAGGGCTCCT
25141	GGGGCACCAT	CTGTGATGAC	AGCTGGGACC	TGAATGATGC	CCATGTGGTG	TGCAAACAGC
25201	TGAGCTGTGG	ATGGGCCATT	AATGCCACTG	GTTCTGCTCA	TTTTGGGGAA	GGAACAGGGC
25261	CCATTTGGCT	GGATGAGATA	AACTGTAATG	GAAAAGAATC	TCATATTTGG	CAATGCCACT
25321	CACATGGTTG	GGGGCGGCAC	AATTGCAGGC	ATAAGGAGGA	TGCAGGAGTC	ATCTGCTCGG
25381	GTAAGTTCTG	CACATCACTT	CGGGTTACAA	TGATTTAAGA	AACAACCTAAG	GTGGGGCAAA
25441	GGGTAGTGAG	GCATATCCAT	CAGAGCAAAT	TCCTTGAAAT	ACGGACTCAG	AGGAAACCAT
25501	TGTGAGATTG	AGGTTCCCAG	AGGTGTGGAT	TTAATGAATT	AGTGTTACCT	CATGTACAAG
25561	GTAGTATACT	ACCAGAAAGA	TAAAAATTCA	GAAGCGAGTT	TGCAGCAAAA	CTCATAGGGA
25621	GAACTTCTTT	TATAAATAAT	ATGAAGCTGG	ATATTTAGTG	CACCACCTGA	TGACCACTTT
25681	ATTAATAAAT	AAAGAGTTCC	TGTTGTGGCG	CAGCGGAAAT	GAATCCGACA	AATAATCATG
25741	AGTTTGCGGG	TTTGATCCCT	GACCTCGCTC	AGTGGGTTGG	GGATCTGGTG	TTGCCATGAG
25801	CTGTGGTGTA	GGTCGCAGAT	GCTGCTTGA	TCCCGCTTTG	CTGTGGCTGT	GGTATAGTCT
25861	TGTGGCTACA	GCTCCGATTT	GACCGCTAGC	CTGGGAACCT	CCATATGCTG	CGGGGGTGGC
25921	CCTCAAAGC	AAAATAAATA	AATAAGTAAA	TAAATAAGTA	GTTTAAAAAG	GACAAGAAGA
25981	AATATATTTG	GTATTATATT	CTACAGAGAC	AAAGATAATC	ACCATGCCCC	ATTGATTTTT
26041	CAAGGCATAT	AAATGAGACG	TCATGGGAGC	AAAAATGGTC	ATAATACAAT	GCCCTTGTTT
26101	TGTGTACATG	GTAAGATTTT	AGAAAGCATT	GTGAAGTAGA	AAAGTGTACT	CAGTTATAAT
26161	ATATTGGAGA	AAACAGTACT	ATGAGAAGTA	AAAAAATCTA	CATGCCGGAA	TTTATTTTTT

26221	TAATGTCTCT	TTAGAGTCGC	ACATGCGGCA	TGTGGAGGTT	CCCAGGCTAG	GGGTCGAATC
26281	AGAGCTATAG	CCACTGGCTT	ATGGCACAGC	CACAACAACG	CTAGATCTGA	GCCACATCAG
26341	AGACCTATAC	TATAGCTCAT	GGCAATGCCA	GATCCTTAAC	CTACTGAGCC	AAGCCATGGG
26401	TCAAATCCAG	GTCCTCATGG	ATCCTAGGCA	AATTCATTTT	TGCTGAGCCA	CGAAGGGAAC
26461	TCCTCAGAAG	TGATTTTGAT	GTTACTTTCT	TTTCATGACA	AATCTGGTAA	AGTACATACA
26521	CATAGAACT	GAAGTGTCAG	AAAGGGAAAT	ATTTCATTTT	AAGGTAATGT	ATACAAAACA
26581	GTGGTTTTAC	CATCTGAGTA	TCTTGCTAAA	TTTTAACTAT	CAAGGACAAT	TGCCAAAAAA
26641	AAAAAAAAAA	GAGAGAGAGA	GAGAACAGAA	TAGGGTTATG	AAGCTAAAAT	CACAGGGTTA
26701	TGAAGCTAAA	ATCACAGTAA	TTTAGGGAGA	AAAAAATCCA	AAGCATGTAA	TTGATAAAAG
26761	GCTCTGAGCC	TTTGTTTGAG	ATTTAGAATT	CAACTTGGAA	ATACCGGTGG	TATTTTAAAG
26821	CAGTCCATAA	GTATAAAATC	CAAGGCTAAA	AAGCCAGAAG	GTATTTGTAG	AACAAATATA
26881	TTTTAATAAG	CTCTACCAAG	TCATCCAGAA	GCTACTAAAG	AATTACTGGT	CACTGACATA
26941	GTGTACCTGT	TTTCAAGGCC	ATTCTTACAT	CAGAATAAAG	GGAGAGCACC	CTCTGAATCT
27001	TCAGAAAAGA	TGTGAAAGTG	CTAATTCTCT	ATTTCATCCC	AGAGTTCATG	TCTCTCAGAC
					Exon 11	
27061	TGATCAGTGA	AAACAGCAGA	GAGACCTGTG	CAGGGCGCCT	GGAAGTTTTT	TACAACGGAG
27121	CTTGGGGCAG	CGTTGGCAGG	AATAGCATGT	CTCCAGCCAC	AGTGGGGGTG	GTATGCAGGC
27181	AGCTGGGCTG	TGCAGACAGA	GGGGACATCA	GCCCTGCATC	TTCAGACAAG	ACAGTGTCCA
27241	GGCACATGTG	GGTGGACAAT	GTTCAGTGTC	CTAAAGGACC	TGACACCCTA	TGGCAGTGCC
27301	CATCATCTCC	ATGGAAGAAG	AGACTGGCCA	GCCCCTCAGA	GGAGACATGG	ATCACATGTG
27361	CCAGTGAGTA	TCCATTCTTT	AGCGCCACTG	TTATCTTCTG	ATCTACCTAA	GCAGAAGTGT
27421	TATAACCTTT	AGATAATCCC	TATTCTACCT	GGATGATGAG	ATTCATTCTC	TTAATTTGG
27481	TGTGCAGGTA	TTCAGGATCA	GTGATCATTT	TCCCAAAGAC	CATCATGCTC	TGATGGTCTT
27541	CTCAAAAGTT	CTAATCAGTT	GCTTCTCCCG	TGAACAGTTG	AGGAGCAGAG	AATATGTAAT
27601	TCAGAAATTTG	ACTATTGAAT	CATCCCATTT	TTCTTTCACA	TAGTCTTTTG	TTGCACTGAG
27661	TATAAGGAGA	GAAGCAGTCA	GAAAGATCAA	TCCTGAATTA	TTTCTCCATT	CTACATCTGT
27721	TTTAAATTTT	AAAAAAAAATT	GTTATAGGTG	ATTTACAATG	TCTGTCAATT	TCTGCTCTAC
27781	AGCAAAGTGA	CCCAGTTATT	TACATATACA	TTCTTTTTTCT	CATATTTTTTA	AACCGGGAGA
27841	TTTCTATCCA	CCTGGCAGTT	TGAGGGAATT	TAACATTATG	CATTTATGTT	AACTTTATTC
27901	ACCTGATGTT	TTCTAAGTCA	TACTGAGATT	CTTATGTCCA	GGATGGAATA	CACCTGGTTT
27961	GCTGGAAAGA	CATGTGCTTT	CATAAAGATG	AATTTTGGAA	AAAATATAAA	ATTTAAAAGT
28021	CCCATTAAT	AAGCAAAGTT	TTAAGAGATT	TCAAAAAAAAA	TTTCATCTCT	CTCTTTTCCT
28081	CTTTGACCTC	TTGGGCACGT	TCATCTTCTC	AAATATGATC	TTGGTGTTTC	TGACTTTTCA
28141	GACAAAATAA	GACTTCAAGA	AGGAAACACT	AATTGTTCTG	GACGTGTGGA	GATCTGGTAC
	Exon 12					
28201	GGAGGTTCCCT	GGGGCACTGT	GTGTGACGAC	TCCTGGGACC	TTGAAGATGC	TCAGGTGGTG

28261 **TGCCGACAGC TGGGCTGTGG CTCAGCTTTG GAGGCAGGAA AAGAGGCCGC ATTTGGCCAG**

28321 **GGGACTGGGC CCATATGGCT CAATGAAGTG AAGTGCAAGG GGAATGAAAC CTCCTTGTGG**

28381 **GATTGTCCTG CCAGATCCTG GGGCCACAGT GACTGTGGAC ACAAGGAGGA TGCTGCTGTG**

28441 **ACGTGCTCAG** GTGAGGGCAG AGAGTCTGGA TTGAGCTTGG AAGCTCTGGC AGCAAAGAGA

28501 GGGTGGGCGG TGACCTGCAT TGGGTAAAGA TTGGAAGGTC CAGCCTAAGG ATCTGGTGGT

28561 GGGGGGAGAC ATGATGTTTC AGTCTGAAGA ATGATGAAAA CCTGTGTTGT TACGCATGGG

28621 CCTTCACCGA GGAAAGGAAC ATAACCTACA TGTATCCTCC TGCAGAGGGA GGAAGAATA

28681 GGGGATTCTA GTTTTGTGTG GGAAGGAGCA GTTTACTTGG TTCAGGAGGC ACTAAAGGCT

28741 CAGATAGGAA ACAGAGATCT GTTCCATTCT TACTCCAGA ACTGATTCTC TTCTCTTTTC

28801 TCCTACAG**AA ATTGCAAAGA GCCGAGAATC CCTACATGCC ACAG**GTATAT AAAAAAGTTT

Exon 13

28861 AAGAACATGG GACCCATTGT CTGCATTTTG TGGAATCCCT CTTATTAAGA CATTCTGGGT

28921 CAGAAGTTCT GAGGATTTGA CATTACTTTC AGCTATCTGT TATCTTACCC AAGAGAGGGA

28981 TGGTAACTAG GAACCCAGGT CTTTTAGCTA AGACATTATC ACCTCTTGTG ATGTTTACTT

29041 GTTCTCAG**GT CGCTCATCTT TTGTTGCACT TGCAATCTTT GGGGTCATTC TGTTGGCCTG**

Exon 14

29101 **TCTCATCGCA TTCCTCATTG GGAATCAGAA GCGAAGACAG AGGCAGCGGC TCTCAG**GTCT

29161 GAACAAAATT ACGGTCTCTC TAATGTTTCT ATGGGATAAG AAGCCTCTCT GGATAATAAA

29221 ACAAAAAAAT TACATTCAAG TATCAGTTGG CCAGAAAGAG GGAACCTAGA AGAGGTTTAA

29281 GCAGTTTCTC CGAAACAGGG AACAAAGAATT CAGAGAAGAA AAGGCACATT GGCTGTACTG

29341 ATGATACCTG CACTCGCTAT GTATGTTTAA TGGGGGACAG TAGAGAATTG ATAGTTTAGA

29401 AGGAGTATGC TTATATGGTT CTGGATGAAT CCTGTATCCC CCCAACATT TATTTTCTCT

29461 TACTATATAC TTATTACTAA TTAACTCTT CTGTCAAGCC GTGTGCTAGG TTCTGAAGAT

29521 GGTTCACTG TGGATACTCA AGTGCTTTTG TTTTCATGGA ATTTCCAGTT TAGTGAAGA

29581 GATAAATATG TAAACAAATA AATTGCAATG TTTTATTATA CATTTCGTGTG AATAAGGAAC

29641 AAAGGAGGCA CAGAGAATAA AGTAATTACT GAAAGGGGAA GGGGAGTATC AGAGACTTCT

29701 AAGTTTGGAG GCAGATTTTG AAGACAGAAA TCAAAGTACT GGGTAAGATG CATTTCAGGA

29761 AAGAAGAAAA ATATGTACAC GTGTAGAGAA GCTTAAAAGA GGGCACATTT GTTGTTTTGG

29821 AGGGGAGTAC AAGTTGAGTT AAAGAGAGAA GTTTCTGTTA AGGCTGAAGA ATAGGAAGA

29881 TACACGTAGC GATGCTCTGT GTTGATGAT AAGAAGAGTC GGAGTTATTA AAGAGTATGA

29941 GATAGGGGAG TGAGATAGGC AGGCAGGTCC TTAGAAAGTT CTGTTTGGAA ATGGGATGTC

30001 GGAGGGGTTG AAAGAGAACC ATATATTGAC AAGGAGAGCA TTTTGAAGTA GTTGTGATGA

30061 AAGATAAAAT GGAATTTATA GTGAGAATGG CTGGGAAAGG ATAGATTTTA TACAAATCTC

30121 CAATGAATTA CAGAAGAATG CTACCTGTCT TTGGGGAAGA AACAGGGTTA TCCGATGGCA

30181 TCCTGTTGCG TTTGAGTTCG TGACATCATG AGGGAAAGGC TTGGCAGCGT TTAATCGGTA

30241 CTGTGTGGTA ACTTATATGG AAAAAAATAT GAGAAGGAAT GAGTGTGTGT ATAACAAAT

30301	TACTTAGCTG	TATGCCTGAA	ATTAATACAA	TTTTATAAGT	CAACTCTACT	CCAATAAAAC
30361	AAACAAATAA	ATAAATAAATT	TTAACTACCT	GAACAAAAAA	AAAAGAATGG	ACTGGAGACA
30421	AGTCAAAAGT	ATGGATGATG	ACTACGTTAT	GCTTGCACTG	CTGGGGAAAA	GCACACATAG
30481	GGAGGGAACG	TTTTATTATG	ACCCAGTCCC	TAACCTATGA	CCTCTGTTAT	CAGTTTTCTC
						Exon 15
30541	AGGAGGAGAG	AATTCTGTCC	ATCAAATTCA	ATACCGGGAG	ATGAATTCTT	GCCTGAAAGC
30601	AGATGAAACG	GATATGCTAA	ATCCCTCAGG	TCCGTGGGTT	CTTTGAGGGC	CTGTAGCCCT
30661	GGGGTTCAGA	TCAGCAGCTG	CAGTTGAGGT	TGAGGCATGC	TACTTTGCAC	AGCAGTAGAA
30721	AGAAATCTCA	ACTGTAATAG	GAAGCTTGGG	ATGCATATGA	GGAAGAAAGG	CAAGAATGAA
30781	CCACAAATTA	TTCTTAGGGA	AGATAAAAAAT	TGCAGTCATG	GGGAGACCTC	TGGCTGAGAG
30841	GGCCGTGATT	ATTTCTGACA	GAGGGATTAT	GGAGTAGAAT	ATGATGGCTT	GGACCTTTTT
30901	TCACTAAAAC	AAGTCAGTCT	TCTCAAAGGT	AGTTTAGCTT	TTCATATATC	TTTCTCAGTT
30961	TCTTCCATTC	CCATTTCTCG	CCATTTTCCT	TTCTCTAACT	TTTATTTATT	ATATTTTTTC
31021	CTAAAAGTTT	AAATTTTCTA	TATCTTTATC	CCTTCAGAAG	CCATCCCTAG	TCACAGGACT
31081	AGTTTTATTT	CCCATTATGT	AATGCTTCTT	TCTCTGTCTG	TTGACTTCTA	TTTAGAACCA
31141	GTGCACTAAA	TCTGCCTCTA	GGAACATACC	TCTGCTAGGT	TGCAAGAAAT	ATCCCATTC
31201	CCACTCACTC	TGTGAAGACT	CAATGCTTCT	CAATATTCCT	TACCTCCTGA	GAGGGACTTG
31261	CCTCACTTCT	TTAATCCAAG	GGACTCGATT	TTTGCCAAAA	CTAAGTCAGG	AAAACCTACA
31321	TAAGACATAG	GAAAGACTTG	CTGTGCTTCT	TAAACCCAC	TGTTTGTTTT	CCTAATTGTG
31381	AACAGTATTT	TTAAAGTTCA	AAGAGCTTCT	AAGGCACTTG	AGGGGAGATC	TGATTTATTT
31441	CCCAGTAATT	ATTTTATTCC	TTTCAGAAAA	TTCCAATGAA	TAAGATGGTT	TTAATGATGT
31501	GGGACTAATT	TTTGTGTCTA	AATCTCTTCC	TATTTCTGGA	TGAAAAAAG	GAGACCACTC
						Exon 16
31561	TGAAGTACAA	TGA AAAGGAA	AATGGGAATT	ATAACCTGGT	GAGGTGAGTA	AAAAGAATTT
31621	ATTCATCATT	GCTGAAAACA	GGTACATTCC	TTTTGAAAGT	TGGGAACTCC	TCTGGTATTA
31681	GAAAAAATAA	AAAGAACGTA	TATACACATA	TATTTCCATG	TCTATGTTTA	TGTTTGTA
31741	TCCATATTCA	GAATATGCAA	CAACTTTTTA	TAACATGAC	TTCAGTCCAT	CTTTTAGTTA
31801	CATATATATT	CTAAACAACA	ACTATTGCTA	AGAGAAGCTG	GGTAAGTAAA	TGTGAATAAA
31861	TCTTCTAAAG	ATATTACAGG	AAGTTCCTGC	TGCGGCTCAG	TGGGTTAAGG	ACTTGATGTC
31921	TTTGTGAAGA	TGAGGGCTCG	AGCCCTGGCC	TCACTCAGTG	AGTTAAGGAT	CTAGCATTGC
31981	TGTAAGCTGC	AGCGTAGGTT	GCAGATGGGG	CTCAGATCCA	GTGTTGCTGT	GGCTGTGGCC
32041	TCAGTTGCAG	CTCTGATTCA	ACCCTTAGGC	GAGGAACTTC	CATATGCAGC	AAATGTGGCC
32101	ATTAAAAATA	AACAAAAAAC	ATTATAGGAG	TCATTTTATA	AAAGAGATAA	GACGTTTCTA
32161	TAGTTATATA	GTGCATACTC	TGGTAAAGAT	AGTATAGGAT	ACTATAGGAA	TATAGAAAGC
32221	TTGCCTATGA	AAATTTGGGA	AGATTGTGGA	AAAGACATCT	CAAAATATGG	CATAGAAAAG
32281	AATCATATCT	TTGAGGAACA	GTAAGTTTTT	CATTCAAAAC	CGTGTATTGA	ACATACTTAT

32341	GGTGACAAAT	GGTGTCTTGA	GTAATAAAAA	TTCAGTGATA	AAAGATGCTC	TTGACAAAGA
32401	CATGGCTGTT	GAATAGAAGG	TCTCACTGTC	AATGTGTGGG	AATTATGGAC	AGCCTATGTG
32461	GACACAGGGA	ATAGATGAGA	CTCTAGGCTG	GAAGGCTGCA	TTGAGCCCAG	TAATGAATGG
32521	TCCTGTCTGA	TATATTTTCAT	GCTCATATTT	TATTTTAGGG	ACTATTGGGG	AGGTGGTGGG
32581	CTTTGGAAGA	TTAAGCTGAG	GCAAGACACA	ATCAGATTGC	CTTTTATAAT	TTACTTTCAG
32641	GAGGAAAATC	TAATAAAGA	AAAAAAGTGA	ATAAGGCAAG	AAACATAAGT	TATACATCAA
32701	AAAGAAAAGG	TAGTGGAGTT	CCTGTTGTGG	CTCAGTGGTT	AATGAACCCT	GCTAGGAACC
32761	ATGAGGTTGT	GGGTTTCGATC	CCTGGCCTTG	CTCAGTGGGT	TAAGGATCCA	GCGATGCCAT
32821	GAGTTGTGGT	GTAGGTCGCA	GACCGTGGCT	TGGGTCCCGC	ATTGCTGTGG	CTATGGTGT
32881	GGCTGGCAGC	TGCAGACAGC	TCTGATTA			