SEQUENCE LISTING

SEQ ID NO: 1 – OGT Sense DNA sequence/Nucleotide Sequence -coding (3141 nt):

ATGGCGTCTTCCGTGGGCAACGTGGCCGACAGCACAGAACCAACGAAACGTATGCTTTCCTTCCAAGGGT
TAGCTGAGTTGGCACATCGAGAATATCAGGCAGGAGATTTTGAGGCAGCTGAGAGACACTGCATGCAGCT
CTGGAGACAAGAGCCAGACAATACTGGTGTGCTTTTATTACTTTCATCTATACACTTCCAGTGTCGAAGG
CTGGACAGATCTGCTCACTTTAGCACTCTGGCAATTAAACAGAACCCCCTTCTGGCAGAAGCTTATTCGA
ATTTGGGGAATGTGTACAAGGAAAGAGGGCAGTTGCAGGAGGCAATTGAGCATTATCGACATGCATTGCG
TCTCAAACCTGATTTCATCGATGGTTATATTAACCTGGCAGCCGCCTTGGTAGCAGCGGGTGACATGGAA
GGGGCAGTACAAGCTTACGTCTCTGCTCTTCAGTACAATCCTGATTTGTACTGTGTTCGCAGTGACCTGG
GGAACCTGCTCAAAGCCCTGGGTCGCTTGGAAGAAGCCAAGGCATGTTATTTGAAAGCAATTGAGACGCA
ACCGAACTTTGCAGTAGCTTGGAGTAATCTTGGCTGTGTTTTCAATGCACAAGGGGAAATTTGGCTTGCA
ATTCATCACTTTGAAAAGGCTGTCACCCTTGACCCAAACTTTCTGGATGCTTATATCAATTTAGGAAATG
TCTTGAAAGAGGCACGCATTTTTGACAGAGCTGTGGCAGCTTATCTTCGTGCCCTAAGTTTGAGTCCAAA
TCACGCAGTGGTGCACGGCAACCTGGCTTGTGTATACTATGAGCAAGGCCTGATAGATCTGGCAATAGAC
ACCTACAGGCGGGCTATCGAACTACAACCACATTTCCCTGATGCTTACTGCAACCTAGCCAATGCTCTCA
AAGAGAAGGGCAGTGTTGCTGAAGCAGAAGATTGTTATAATACAGCTCTCCGTCTGTGTCCCACCCATGC
AGACTCTCTGAATAACCTAGCCAATATCAAACGAGAACAGGGAAACATTGAAGAGGCAGTTCGCTTGTAT
CGTAAAGCATTAGAAGTCTTCCCAGAGTTTGCTGCTGCCCATTCAAATTTAGCAAGTGTACTGCAGCAGC
AGGGAAAACTGCAGGAAGCTCTGATGCATTATAAGGAGGCTATTCGAATCAGTCCTACCTTTGCTGATGC
CTACTCTAATATGGGAAACACTCTAAAGGAGATGCAGGATGTTCAGGGAGCCTTGCAGTGTTATACGCGT
GCCATCCAAATTAATCCTGCATTTGCAGATGCACATAGCAATCTGGCTTCCATTCATAAGGATTCAGGGA
ATATTCCAGAAGCCATAGCTTCTTACCGCACGGCTCTGAAACTTAAGCCTGATTTTCCTGATGCTTATTG
TAACTTGGCTCATTGCCTGCAGATTGTCTGTGATTGGACAGACTATGATGAGCGAATGAAGAAGTTGGTC
AGTATTGTGGCTGACCAGTTAGAGAAGAATAGGTTGCCTTCTGTGCATCCTCATCATAGTATGCTATATC
CTCTTTCTCATGGCTTCAGGAAGGCTATTGCTGAGAGGCACGGCAACCTGTGCTTAGATAAGATTAATGT
TCTTCATAAACCACCATATGAACATCCAAAAGACTTGAAGCTCAGTGATGGTCGGCTGCGTGTAGGATAT
GTGAGTTCCGACTTTGGGAATCATCCTACTTCTCACCTTATGCAGTCTATTCCAGGCATGCACAATCCTG
ATAAATTTGAGGTGTTCTGTTATGCCCTGAGCCCAGACGATGGCACAAACTTCCGAGTGAAGGTGATGGC
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GATGGAATTCATATCCTTGTAAATATGAATGGCTATACTAAGGGCGCTCGAAATGAGCTTTTTGCTCTCA
GGCCAGCTCCTATTCAGGCAATGTGGCTGGGATACCCTGGGACGAGTGGTGCGCTTTTCATGGATTATAT
TATCACTGATCAGGAAACTTCGCCAGCTGAAGTTGCTGAGCAGTATTCCGAGAAATTGGCTTATATGCCC
CACACTTTTTTTATTGGTGATCATGCTAATATGTTCCCTCACCTGAAGAAAAAAGCAGTCATCGATTTTA
AGTCCAATGGGCACATTTATGACAATCGGATAGTTCTGAATGGCATCGACCTCAAAGCATTTCTTGATAG
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GCTCTTAATATGCCTGTTATTCCTATGAATACTATTGCAGAAGCAGTTATTGAAATGATTAACCGAGGAC
AGATTCAAATAACAATTAATGGATTCAGTATTAGCAATGGACTGGCAACTACTCAGATCAACAATAAGGC
TGCAACTGGAGAGGAGGTTCCCCGTACCATTATTGTAACCACCCGTTCTCAGTACGGGTTACCAGAAGAT
GCCATCGTATACTGTAACTTTAATCAGTTGTATAAAATTGACCCTTCTACTTTGCAGATGTGGGCAAACA
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GTGAAGCTGGGAACTGATCTAGAATACCTGAAGAAAGTTCGTGGCAAAGTCTGGAAGCAAAGAATATCTA
GCCCTCTGTTCAACACCAAACAATACACAATGGAACTAGAGCGGCTCTATCTACAGATGTGGGAGCATTA
TGCAGCTGGCAACAAACCTGACCACATGATTAAGCCTGTTGAAGTCACTGAGTCAGCATAA

SEQ ID NO: 2 – OGT Polypeptide Sequence

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MASSVGNVAD STEPTKRMLS FQGLAELAHR EYQAGDFEAA ERHCMQLWRQ EPDNTGVLLL        60
LSSIHFQCRR LDRSAHFSTL AIKQNPLLAE AYSNLGNVYK ERGQLQEAIE HYRHALRLKP       120
DFIDGYINLA AALVAAGDME GAVQAYVSAL QYNPDLYCVR SDLGNLLKAL GRLEEAKACY       180
LKAIETQPNF AVAWSNLGCV FNAQGEIWLA IHHFEKAVTL DPNFLDAYIN LGNVLKEARI       240
FDRAVAAYLR ALSLSPNHAV VHGNLACVYY EQGLIDLAID TYRRAIELQP HFPDAYCNLA       300
NALKEKGSVA EAEDCYNTAL RLCPTHADSL NNLANIKREQ GNIEEAVRLY RKALEVFPEF       360
AAAHSNLASV LQQQGKLQEA LMHYKEAIRI SPTFADAYSN MGNTLKEMQD VQGALQCYTR       420
AIQINPAFAD AHSNLASIHK DSGNIPEAIA SYRTALKLKP DFPDAYCNLA HCLQIVCDWT       480
DYDERMKKLV SIVADQLEKN RLPSVHPHHS MLYPLSHGFR KAIAERHGNL CLDKINVLHK       540
PPYEHPKDLK LSDGRLRVGY VSSDFGNHPT SHLMQSIPGM HNPDKFEVFC YALSPDDGTN       600
FRVKVMAEAN HFIDLSQIPC NGKAADRIHQ DGIHILVNMN GYTKGARNEL FALRPAPIQA       660
MWLGYPGTSG ALFMDYIITD QETSPAEVAE QYSEKLAYMP HTFFIGDHAN MFPHLKKKAV       720
IDFKSNGHIY DNRIVLNGID LKAFLDSLPD VKIVKMKCPD GGDNADSSNT ALNMPVIPMN       780
TIAEAVIEMI NRGQIQITIN GFSISNGLAT TQINNKAATG EEVPRTIIVT TRSQYGLPED       840
AIVYCNFNQL YKIDPSTLQM WANILKRVPN SVLWLLRFPA VGEPNIQQYA QNMGLPQNRI       900
IFSPVAPKEE HVRRGQLADV CLDTPLCNGH TTGMDVLWAG TPMVTMPGET LASRVAASQL       960
TCLGCLELIA KNRQEYEDIA VKLGTDLEYL KKVRGKVWKQ RISSPLFNTK QYTMELERLY      1020
LQMWEHYAAG NKPDHMIKPV EVTESA                                           1046
```

SEQ ID NO: 3 – OGT antiparallel sequence/ OGT antisense DNA sequence

TTATGCTGAC TCAGTGACTT CAACAGGCTT AATCATGTGG TCAGGTTTGT TGCCAGCTGC
ATAATGCTCC CACATCTGTA GATAGAGCCG CTCTAGTTCC ATTGTGTATT GTTTGGTGTT
GAACAGAGGG CTAGATATTC TTTGCTTCCA GACTTTGCCA CGAACTTTCT TCAGGTATTC
TAGATCAGTT CCCAGCTTCA CAGCTATGTC TTCATATTCT TGTCTGTTTT TAGCAATAAG
CTCAAGACAA CCTAAGCAAG TGAGCTGGGA TGCTGCAACT CGAGAAGCAA GAGTCTCTCC
TGGCATAGTC ACCATGGGGG TCCCTGCCCA GAGGACATCC ATCCCTGTGG TGTGCCCATT
ACAGAGTGGA GTGTCCAAGC AGACATCAGC CAGCTGGCCT CTCCTGACGT GTTCCTCTTT
AGGAGCAACA GGTGAAAAAA TGATACGGTT CTGGGGCAGG CCCATGTTTT GTGCATACTG
TTGAATATTA GGTTCTCCTA CTGCTGGAAA ACGCAACAGC CAGAGTACAC TATTGGGAAC
ACGCTTCAGA ATGTTTGCCC ACATCTGCAA AGTAGAAGGG TCAATTTTAT ACAACTGATT
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AATGGTACGG GGAACCTCCT CTCCAGTTGC AGCCTTATTG TTGATCTGAG TAGTTGCCAG
TCCATTGCTA ATACTGAATC CATTAATTGT TATTTGAATC TGTCCTCGGT TAATCATTTC
AATAACTGCT TCTGCAATAG TATTCATAGG AATAACAGGC ATATTAAGAG CTGTGTTACT
GCTATCTGCA TTGTCTCCTC CATCAGGACA CTTCATCTTG ACAATTTTCA CATCTGGTAG
ACTATCAAGA AATGCTTTGA GGTCGATGCC ATTCAGAACT ATCCGATTGT CATAAATGTG
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TTCAGCTGGC GAAGTTTCCT GATCAGTGAT AATATAATCC ATGAAAAGCG CACCACTCGT
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TCGAGCGCCC TTAGTATAGC CATTCATATT TACAAGGATA TGAATTCCAT CCTGATGGAT
GCGATCAGCT GCTTTTCCAT TGCATGGAAT CTGAGAAAGA TCAATGAAAT GATTGGCTTC
TGCCATCACC TTCACTCGGA AGTTTGTGCC ATCGTCTGGG CTCAGGGCAT AACAGAACAC
CTCAAATTTA TCAGGATTGT GCATGCCTGG AATAGACTGC ATAAGGTGAG AAGTAGGATG
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TTTTGGATGT TCATATGGTG GTTTATGAAG AACATTAATC TTATCTAAGC ACAGGTTGCC
GTGCCTCTCA GCAATAGCCT TCCTGAAGCC ATGAGAAAGA GGATATAGCA TACTATGATG
AGGATGCACA GAAGGCAACC TATTCTTCTC TAACTGGTCA GCCACAATAC TGACCAACTT
CTTCATTCGC TCATCATAGT CTGTCCAATC ACAGACAATC TGCAGGCAAT GAGCCAAGTT
ACAATAAGCA TCAGGAAAAT CAGGCTTAAG TTTCAGAGCC GTGCGGTAAG AAGCTATGGC
TTCTGGAATA TTCCCTGAAT CCTTATGAAT GGAAGCCAGA TTGCTATGTG CATCTGCAAA
TGCAGGATTA ATTTGGATGG CACGCGTATA ACACTGCAAG GCTCCCTGAA CATCCTGCAT
CTCCTTTAGA GTGTTTCCCA TATTAGAGTA GGCATCAGCA AAGGTAGGAC TGATTCGAAT
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GCCCTTCTCT TTGAGAGCAT TGGCTAGGTT GCAGTAAGCA TCAGGGAAAT GTGGTTGTAG
TTCGATAGCC CGCCTGTAGG TGTCTATTGC CAGATCTATC AGGCCTTGCT CATAGTATAC
ACAAGCCAGG TTGCCGTGCA CCACTGCGTG ATTTGGACTC AAACTTAGGG CACGAAGATA
AGCTGCCACA GCTCTGTCAA AAATGCGTGC CTCTTTCAAG ACATTTCCTA AATTGATATA
AGCATCCAGA AAGTTTGGGT CAAGGGTGAC AGCCTTTTCA AAGTGATGAA TTGCAAGCCA
AATTTCCCCT TGTGCATTGA AAACACAGCC AAGATTACTC CAAGCTACTG CAAAGTTCGG
TTGCGTCTCA ATTGCTTTCA AATAACATGC CTTGGCTTCT TCCAAGCGAC CCAGGGCTTT
GAGCAGGTTC CCCAGGTCAC TGCGAACACA GTACAAATCA GGATTGTACT GAAGAGCAGA
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AATATAACCA TCGATGAAAT CAGGTTTGAG ACGCAATGCA TGTCGATAAT GCTCAATTGC
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AAGGGGGTTC TGTTTAATTG CCAGAGTGCT AAAGTGAGCA GATCTGTCCA GCCTTCGACA
CTGGAAGTGT ATAGATGAAA GTAATAAAAG CACACCAGTA TTGTCTGGCT CTTGTCTCCA
GAGCTGCATG CAGTGTCTCT CAGCTGCCTC AAAATCTCCT GCCTGATATT CTCGATGTGC
CAACTCAGCT AACCCTTGGA AGGAAAGCAT ACGTTTCGTT GGTTCTGTGC TGTCGGCCAC
GTTGCCCACG GAAGACGCCA T

SEQ ID NOs: 4-11 – OGT antisense oligodeoxynucleotides

Coding region:

GTATCCCAGCCACATTGCC	"Code1PhT"	(SEQ ID NO: 4)
GCCTCTTCAATGTTTCCCTGT	"Code2PhT"	(SEQ ID NO: 5)
CTTCTGCCATCACCTTCACTC	"Code3PhT"	(SEQ ID NO: 6)

3'UTR region:

CCCTCCACATAACCATCCC	"3UTR1PhT"	(SEQ ID NO: 7)
GTGTCTCTCCCTACCATGC	"3UTR2PhT"	(SEQ ID NO: 8)

Introns:

CTCCTCTACCATCCCAAACTC	"INTR1PhT"	(SEQ ID NO: 9)
ATCCCAGCTACTCAGGAGGC	"INTR2PhT"	(SEQ ID NO: 10)
TTCCTCCTAGAGCCTCCCAC	"INTR3PhT"	(SEQ ID NO: 11)

SEQ ID NOs: 12-168 – OGT antisense oligodeoxynucleotides (coding region)

TTATGCTGACTCAGTGACTT	SEQ ID NO:	12
CAACAGGCTTAATCATGTGG	SEQ ID NO:	13
TCAGGTTTGTTGCCAGCTGC	SEQ ID NO:	14
ATAATGCTCCCACATCTGTA	SEQ ID NO:	15
GATAGAGCCGCTCTAGTTCC	SEQ ID NO:	16
ATTGTGTATTGTTTGGTGTT	SEQ ID NO:	17
GAACAGAGGGCTAGATATTC	SEQ ID NO:	18
TTTGCTTCCAGACTTTGCCA	SEQ ID NO:	19
CGAACTTTCTTCAGGTATTC	SEQ ID NO:	20
TAGATCAGTTCCCAGCTTCA	SEQ ID NO:	21
CAGCTATGTCTTCATATTCT	SEQ ID NO:	22
TGTCTGTTTTTAGCAATAAG	SEQ ID NO:	23
CTCAAGACAACCTAAGCAAG	SEQ ID NO:	24
TGAGCTGGGATGCTGCAACT	SEQ ID NO:	25
CGAGAAGCAAGAGTCTCTCC	SEQ ID NO:	26
TGGCATAGTCACCATGGGGG	SEQ ID NO:	27
TCCCTGCCCAGAGGACATCC	SEQ ID NO:	28
ATCCCTGTGGTGTGCCCATT	SEQ ID NO:	29
ACAGAGTGGAGTGTCCAAGC	SEQ ID NO:	30
AGACATCAGCCAGCTGGCCT	SEQ ID NO:	31
CTCCTGACGTGTTCCTCTTT	SEQ ID NO:	32
AGGAGCAACAGGTGAAAAAA	SEQ ID NO:	33
TGATACGGTTCTGGGGCAGG	SEQ ID NO:	34
CCCATGTTTTGTGCATACTG	SEQ ID NO:	35
TTGAATATTAGGTTCTCCTA	SEQ ID NO:	36
CTGCTGGAAAACGCAACAGC	SEQ ID NO:	37
CAGAGTACACTATTGGGAAC	SEQ ID NO:	38
ACGCTTCAGAATGTTTGCCC	SEQ ID NO:	39
ACATCTGCAAAGTAGAAGGG	SEQ ID NO:	40
TCAATTTTATACAACTGATT	SEQ ID NO:	41
AAAGTTACAGTATACGATGG	SEQ ID NO:	42
CATCTTCTGGTAACCCGTAC	SEQ ID NO:	43
TGAGAACGGGTGGTTACAAT	SEQ ID NO:	44
AATGGTACGGGGAACCTCCT	SEQ ID NO:	45
CTCCAGTTGCAGCCTTATTG	SEQ ID NO:	46
TTGATCTGAGTAGTTGCCAG	SEQ ID NO:	47
TCCATTGCTAATACTGAATC	SEQ ID NO:	48
CATTAATTGTTATTTGAATC	SEQ ID NO:	49
TGTCCTCGGTTAATCATTTC	SEQ ID NO:	50
AATAACTGCTTCTGCAATAG	SEQ ID NO:	51
TATTCATAGGAATAACAGGC	SEQ ID NO:	52
ATATTAAGAGCTGTGTTACT	SEQ ID NO:	53
GCTATCTGCATTGTCTCCTC	SEQ ID NO:	54
CATCAGGACACTTCATCTTG	SEQ ID NO:	55
ACAATTTTCACATCTGGTAG	SEQ ID NO:	56

SEQ ID NOs: 12-168 – OGT antisense oligodeoxynucleotides (coding region)

ACTATCAAGAAATGCTTTGA	SEQ ID NO:	57
GGTCGATGCCATTCAGAACT	SEQ ID NO:	58
ATCCGATTGTCATAAATGTG	SEQ ID NO:	59
CCCATTGGACTTAAAATCGA	SEQ ID NO:	60
TGACTGCTTTTTTCTTCAGG	SEQ ID NO:	61
TGAGGGAACATATTAGCATG	SEQ ID NO:	62
ATCACCAATAAAAAAAGTGT	SEQ ID NO:	63
GGGGCATATAAGCCAATTTC	SEQ ID NO:	64
TCGGAATACTGCTCAGCAAC	SEQ ID NO:	65
TTCAGCTGGCGAAGTTTCCT	SEQ ID NO:	66
GATCAGTGATAATATAATCC	SEQ ID NO:	67
ATGAAAAGCGCACCACTCGT	SEQ ID NO:	68
CCCAGGGTATCCCAGCCACA	SEQ ID NO:	69
TTGCCTGAATAGGAGCTGGC	SEQ ID NO:	70
CTGAGAGCAAAAAGCTCATT	SEQ ID NO:	71
TCGAGCGCCCTTAGTATAGC	SEQ ID NO:	72
CATTCATATTTACAAGGATA	SEQ ID NO:	73
TGAATTCCATCCTGATGGAT	SEQ ID NO:	74
GCGATCAGCTGCTTTTCCAT	SEQ ID NO:	75
TGCATGGAATCTGAGAAAGA	SEQ ID NO:	76
TCAATGAAATGATTGGCTTC	SEQ ID NO:	77
TGCCATCACCTTCACTCGGA	SEQ ID NO:	78
AGTTTGTGCCATCGTCTGGG	SEQ ID NO:	79
CTCAGGGCATAACAGAACAC	SEQ ID NO:	80
CTCAAATTTATCAGGATTGT	SEQ ID NO:	81
GCATGCCTGGAATAGACTGC	SEQ ID NO:	82
ATAAGGTGAGAAGTAGGATG	SEQ ID NO:	83
ATTCCCAAAGTCGGAACTCA	SEQ ID NO:	84
CATATCCTACACGCAGCCGA	SEQ ID NO:	85
CCATCACTGAGCTTCAAGTC	SEQ ID NO:	86
TTTTGGATGTTCATATGGTG	SEQ ID NO:	87
GTTTATGAAGAACATTAATC	SEQ ID NO:	88
TTATCTAAGCACAGGTTGCC	SEQ ID NO:	89
GTGCCTCTCAGCAATAGCCT	SEQ ID NO:	90
TCCTGAAGCCATGAGAAAGA	SEQ ID NO:	91
GGATATAGCATACTATGATG	SEQ ID NO:	92
AGGATGCACAGAAGGCAACC	SEQ ID NO:	93
TATTCTTCTCTAACTGGTCA	SEQ ID NO:	94
GCCACAATACTGACCAACTT	SEQ ID NO:	95
CTTCATTCGCTCATCATAGT	SEQ ID NO:	96
CTGTCCAATCACAGACAATC	SEQ ID NO:	97
TGCAGGCAATGAGCCAAGTT	SEQ ID NO:	98
ACAATAAGCATCAGGAAAAT	SEQ ID NO:	99
CAGGCTTAAGTTTCAGAGCC	SEQ ID NO:	100
GTGCGGTAAGAAGCTATGGC	SEQ ID NO:	101
TTCTGGAATATTCCCTGAAT	SEQ ID NO:	102
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GCTCCCTGAACATCCTGCAT	SEQ ID NO:	107
CTCCTTTAGAGTGTTTCCCA	SEQ ID NO:	108
TATTAGAGTAGGCATCAGCA	SEQ ID NO:	109
AAGGTAGGACTGATTCGAAT	SEQ ID NO:	110
AGCCTCCTTATAATGCATCA	SEQ ID NO:	111
GAGCTTCCTGCAGTTTTCCC	SEQ ID NO:	112
TGCTGCTGCAGTACACTTGC	SEQ ID NO:	113
TAAATTTGAATGGGCAGCAG	SEQ ID NO:	114
CAAACTCTGGGAAGACTTCT	SEQ ID NO:	115
AATGCTTTACGATACAAGCG	SEQ ID NO:	116

SEQ ID NOs: 12-168 – OGT antisense oligodeoxynucleotides (coding region)

AACTGCCTCTTCAATGTTTC	SEQ ID NO:	117
CCTGTTCTCGTTTGATATTG	SEQ ID NO:	118
GCTAGGTTATTCAGAGAGTC	SEQ ID NO:	119
TGCATGGGTGGGACACAGAC	SEQ ID NO:	120
GGAGAGCTGTATTATAACAA	SEQ ID NO:	121
TCTTCTGCTTCAGCAACACT	SEQ ID NO:	122
GCCCTTCTCTTTGAGAGCAT	SEQ ID NO:	123
TGGCTAGGTTGCAGTAAGCA	SEQ ID NO:	124
TCAGGGAAATGTGGTTGTAG	SEQ ID NO:	125
TTCGATAGCCCGCCTGTAGG	SEQ ID NO:	126
TGTCTATTGCCAGATCTATC	SEQ ID NO:	127
AGGCCTTGCTCATAGTATAC	SEQ ID NO:	128
ACAAGCCAGGTTGCCGTGCA	SEQ ID NO:	129
CCACTGCGTGATTTGGACTC	SEQ ID NO:	130
AAACTTAGGGCACGAAGATA	SEQ ID NO:	131
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ACATTTCCTAAATTGATATA	SEQ ID NO:	134
AGCATCCAGAAAGTTTGGGT	SEQ ID NO:	135
CAAGGGTGACAGCCTTTTCA	SEQ ID NO:	136
AAGTGATGAATTGCAAGCCA	SEQ ID NO:	137
AATTTCCCCTTGTGCATTGA	SEQ ID NO:	138
AAACACAGCCAAGATTACTC	SEQ ID NO:	139
CAAGCTACTGCAAAGTTCGG	SEQ ID NO:	140
TTGCGTCTCAATTGCTTTCA	SEQ ID NO:	141
AATAACATGCCTTGGCTTCT	SEQ ID NO:	142
TCCAAGCGACCCAGGGCTTT	SEQ ID NO:	143
GAGCAGGTTCCCCAGGTCAC	SEQ ID NO:	144
TGCGAACACAGTACAAATCA	SEQ ID NO:	145
GGATTGTACTGAAGAGCAGA	SEQ ID NO:	146
GACGTAAGCTTGTACTGCCC	SEQ ID NO:	147
CTTCCATGTCACCCGCTGCT	SEQ ID NO:	148
ACCAAGGCGGCTGCCAGGTT	SEQ ID NO:	149
AATATAACCATCGATGAAAT	SEQ ID NO:	150
CAGGTTTGAGACGCAATGCA	SEQ ID NO:	151
TGTCGATAATGCTCAATTGC	SEQ ID NO:	152
CTCCTGCAACTGCCCTCTTT	SEQ ID NO:	153
CCTTGTACACATTCCCCAAA	SEQ ID NO:	154
TTCGAATAAGCTTCTGCCAG	SEQ ID NO:	155
AAGGGGGTTCTGTTTAATTG	SEQ ID NO:	156
CCAGAGTGCTAAAGTGAGCA	SEQ ID NO:	157
GATCTGTCCAGCCTTCGACA	SEQ ID NO:	158
CTGGAAGTGTATAGATGAAA	SEQ ID NO:	159
GTAATAAAAGCACACCAGTA	SEQ ID NO:	160
TTGTCTGGCTCTTGTCTCCA	SEQ ID NO:	161
GAGCTGCATGCAGTGTCTCT	SEQ ID NO:	162
CAGCTGCCTCAAAATCTCCT	SEQ ID NO:	163
GCCTGATATTCTCGATGTGC	SEQ ID NO:	164
CAACTCAGCTAACCCTTGGA	SEQ ID NO:	165
AGGAAAGCATACGTTTCGTT	SEQ ID NO:	166
GGTTCTGTGCTGTCGGCCAC	SEQ ID NO:	167
GTTGCCCACGGAAGACGCCAT	SEQ ID NO:	168

SEQ ID NOs: 169-171 - OGT siRNA

OGTRNA1:	**GCAUGUUAUUUGAAAGCAA**	**19mer, pos. 740**	(SEQ ID NO: 169)
OGTRNA2:	**GCACAAUCCUGAUAAAUUU**	**19mer, pos. 1948**	(SEQ ID NO: 170)
OGTRNA3:	**GCCCUAAGUUUGAGUCCAA**	**19mer, pos. 959**	(SEQ ID NO: 171)

SEQ ID NOs: 172 - OGT shRNA
shOGT (TRCN0000035064): 5′-GCCCTAAGTTTGAGTCCAAAT-3′ (SEQ ID NO: 172)

SEQ ID NO: 173 – OGT Sense DNA sequence/Nucleotide Sequence – full sequence, including regulatory regions, introns, and with coding sequence shown in bold and underlined (49836nt):

```
   1 attgtccttt cacatctggt tgctcataaa agcaaaacct accattcgag tgttcaattc
  61 tagtgtgaag tgttttacca tgggagcaaa agcttgagct tgaaagataa cagtcattat
 121 ggctatctgg gacaagaaaa aaaccatcta gcacatttgc tcacttttct tctgcctgtc
 181 agtgtatgat tgcccccagc accattatta ttttgcaggt tttttcagct cctctgtaag
 241 gcttgtcaca accatagtgt cactactttg gacagaatca tcaactcttg caaccccagg
 301 aggacagtca ggattagaat tcaaatgaca gtgggtactt tcagacacac acatagacaa
 361 ctgcacctgt gagtccacag aagttccttt agattctgta ttggaggtag taatgatgaa
 421 agtgtcttca ggaatgtctt catggcttgc tcttgggctc tgcattgtaa ctccttacag
 481 gtaccaatga acaagccatt cagagatgga tccacaaaga tctctggagc aacgaccagg
 541 tcctgctcta cccgattctc agctttgggg atagaattcc cagaaacatc tgtgtccgga
 601 gttggttcct tccagtgggt tcttggtctt gctgacttca agaatgaagc cgtggacctt
 661 cgcggtgagt gttacagctc tttaaaggta gcacagaccc aaagagtgag cggcagcaag
 721 atttattgtg aagagcaaaa gaacaaagct tccatagcgt gaaagggtac ccaagcaggt
 781 tgccagtggg gctgggggcg gccagcattt attcctttat ttgtccccgc ccacatcctg
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 901 tttacaattc tttagctaga cacagagcgc taattggtgc attttacaga gtgctgattg
 961 gtgcatttac aatcctttag ctagaaacag agcgctgatt ggtgcgtttt gtttttgttt
1021 tttttttga gacagagtct cgctctgtcg cccaggctgg agtgcagtgg tgcaatctca
1081 gctcactgca acctccgcct cctgggttca tgccattctc atgcctcagc ctcccaagta
1141 gctgggacta caggtgcccg ccaccacgcc tgactaattt tttgtatttt tagtagagac
1201 ggggtttcac catgttagcc aggatggtct ccatctcctg acctcatgat ctgcctgctt
1261 cagcctccca aagtgctggg attacaggtg tgagccactg cacctggctg gtgcattttt
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