

SEQUENCE LISTING

ID	SEQUENCE
SEQ ID NO: 1	ATG TTCAGGACCA AACGATCTGC GTCGTCCGG CGTCTCTGGA GGAGCCGTGC GCCCGGCGGC GAGGACGAGG AGGAGGGCGC AGGGGGAGGT GGAGGAGGAG GCGA <u>GCTGCG</u> <u>GGGAGAAGGG</u> <u>GCGACG</u> GACA GCCGAGCGCA TGGGGCCGGT GGCGGCGGCC CGGGCAGGGC TGGATGCTGC CTGGGCAAGG CGGTGCGAGG TGCCAAAGGT CACCACCATC CCCACCCGCC AGCCGCGGGC GCCGGCGCGG CCGGGGGCGC CGAGGCGGAT CTGAAGGCGC TCACGCACTC GGTGCTCAAG AAAGTGAAGG AGCGGCAGCT GGAGCTGCTG CTCCAGGCCG TGGAGTCCCG CGGCGGGACG CGCACCGCGT GCCTCCTGCT GCCCGGCCGC CTGGACTGCA GGCTGGGCCC GGGGGCGCCC GCCGGCGCGC AGCCTGCGCA GCCGCCCTCG TCCTACTCGC TCCCCCTCCT GCTGTGCAAA GTGTTCAAGT GGCCGGATCT CAGGCATTCC TCGGAAGTCA AGAGGCTGTG TTGCTGTGAA TCTTACGGGA AGATCAACCC CGAGCTGGTG TGCTGCAACC CCCATCACCT TAGCCGACTC TGCGAACTAG AGTCTCCCCC CCCTCCTTAC TCCAGATACC CGATGGATTT TCTCAAACCA ACTGCAGACT GTCCAGATGC TGTGCCTTCC TCCGCTGAAA CAGGGGGAAC GAATTATCTG GCCCCTGGGG GGCTTTCAGA TTCCCAACTT CTTCTGGAGC CTGGGGATCG GTCACACTGG TCGGTGGTGG CATACTGGGA GGAGAAGACG AGAGTGGGGA GGCTCTACTG TGTCCAGGAG CCCTCTCTGG ATATCTTCTA TGATCTACCT CAGGGGAATG GCTTTTGCCT CGGACAGCTC AATTCGGACA ACAAGAGTCA GCTGGTGCAG AAGGTGCGGA GCAAAATCGG CTGCGGCATC CAGCTGACGC GGGAGGTGGA TGGTGTGTGG GTGTACAACC GCAGCAGTTA CCCCATCTTC ATCAAGTCCG CCACACTGGA CAACCCGGAC TCCAGGACGC TGTTGGTACA CAAGGTGTTC CCCGTTTCT CCATCAAGGC TTTCGACTAC GAGAAGGCGT ACAGCCTGCA GCGGCCCAAT GACCACGAGT TTATGCAGCA GCCGTGGACG GGCTTTACCG TGCAGATCAG CTTTGTGAAG GGCTGGGGCC AGTGCTACAC CCGCCAGTTC ATCAGCAGCT GCCCGTGCTG GCTAGAGGTC ATCTTCAACA GCCGGTAG
SEQ ID NO: 2	5'-GTCGCCCCCTTCTCCCCGCAG-3'
SEQ ID NO: 3	5'-GTCGCCCCCTTCTCCCCGCAGC-3'
SEQ ID NO: 4	5'-GTXGCCCCCTTCTCCCXGCAG-3', wherein X is 5-methyl 2'-deoxycytidine

SEQ ID NO: 5	5'-GTXGCCCCTTCTCCCXGCAGC-3', wherein X is 5-methyl 2'-deoxycytidine
SEQ ID NO: 6	5'-GTXYCCCCTTCTCCCXYCAG-3', whereby X is a nucleotide including a nitrogenous base selected from the group consisting of cytosine and 5-methylcytosine nucleoside or a 2'-O-methylcytosine nucleoside, and wherein Y is a nucleotide, selected from the group consisting of guanine and 5-methylguanine or a 2'-O-methylguanine nucleoside, optionally provided that at least one of the nucleotides X or Y comprises a methylated nitrogenous base
SEQ ID NO: 7	<p>5'-GTC* GCC CCT TCT CCC C*GC AGC-3'), whereby C* represents 5-methyl-2'-deoxycytidine.</p> <p>In some embodiments, at least one of the internucleotide linkages of the isotopically enriched SMAD7 antisense oligonucleotide is an <i>O,O</i>-linked phosphorothioate, <i>e.g.</i>, each of the 20 internucleotide linkages of SEQ ID NO: 5 can be an <i>O,O</i>-linked phosphorothioate.</p> <p>In some embodiments, the isotopically enriched SMAD7 antisense oligonucleotide is an antisense oligonucleotide comprising a nucleotide sequence of SEQ ID NO: 5, wherein each of the 20 internucleotide linkages is an <i>O,O</i>-linked phosphorothioate linkage</p>
SEQ ID NO: 8	5'-GTXGCCCCTTCTCCCXGCAG-3', wherein X is a 5-methyl-2'-deoxycytidine and wherein all internucleotide linkages are phosphorothioate linkages.
SEQ ID NO: 9	5'-GTXGCCCCTTCTCCCXGCAGC-3', wherein X is comprising 5-methyl-2'-deoxycytidine and wherein all internucleotide linkages are phosphorothioate linkages.