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COMPOSITIONS AND METHODS OF USE THEREOF

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caaaacggtg caactctatt ctggacttta ttacttgatt ctgtcttctg tataactctg 1440

aagtccacca aaagtggacc ctctatattt cctccctttt tatagtctta taagatacat 1500

tatgaaaggt gaccgactct attttaaatc tcagaatttt aagttctagc cccatgataa 1560

ccttttttctt tgtaatttat gctttcatat atccttggtc ccagagatgt ttagacaatt 1620

ttaggctcaa aaattaaagc taacacagga aaaggaactg tactggctat tacataagaa 1680

acaatggacc caagagaaga aaaggaagaa agaaaggttt tttggttttt gttttgtttt 1740

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atccacctgc ctcggcctcc caaagtgctg ggattacggg tgtgagccac cgtgcccagc 2040

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tgtgtgtttt tcacatgtat tatagaatgc ttttgcatgg actatcctct tgtttttatt 2160

aaaaacaaat gatttttta aaagtcacaa aaacaattca ctaaaaataa atatgtcatt 2220

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<210> 18
<211> 2398
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<223> /note="Exon 5"

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<223> /note="Exon 6v2 - includes additional residue 878 at 3' end"

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<222> (879)..(2398)
<223> /note="Exon 7"

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tggagtcgtt ggtgaagttt ttcattcctc agaggagaaa atctgtggct ggggagattg 180

ttctcattac tggagctggg catggaatag gcaggcagac tacttatgaa tttgcaaaac 240

gacagagcat attggttctg tgggatatta ataagcgcgg tgtggaggaa actgcagctg 300

agtgccgaaa actaggcgtc actgcgcatg cgtatgtggt agactgcagc aacagagaag 360

agatctatcg ctctctaaat caggtgaaga aagaagtggg tgatgtaaca atcgtggtga 420

ataatgctgg gacagtatat ccagccgatc ttctcagcac caaggatgaa gagattacca 480

agacatttga ggtcaacatc ctaggacatt tttggatcac aaaagcactt cttccatcga 540

tgatggagag aaatcatggc cacatcgtca cagtggcttc agtgtgcggc cacgaaggga 600

ttccttacct catcccatat tgttccagca aatttgccgc tgttggcttt cacagaggtc 660

tgacatcaga acttcaggcc ttgggaaaaa ctggtatcaa aacctcatgt ctctgcccag 720

tttttgtgaa tactgggttc accaaaaatc caagcacaag attatggcct gtattggaga 780

cagatgaagt cgtaagaagt ctgatagatg gaatacttac caataagaaa atgatttttg 840

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gcgattttaa atcgtatgca gaatattcaa tttgaagcag tggttggcca caaaatcaaa 960

atgaaatgaa taaataagct ccagccagag atgtatgcat gataatgata tgaatagttt 1020

cgaatcaatg ctgcaaagct ttatttcaca ttttttcagt cctgataata ttaaaaacat 1080

tggtttggca ctagcagcag tcaaacgaac aagattaatt acctgtcttc ctgtttctca 1140

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gtgcttacat aaacatactt aaaaggtttt ctttaagata ttttatttt ccatttaaag 1260

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ctcctgagta gctgggacta caggcgcccg ccaccacacc cggctaattt tttgtatttt 2040

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tgtgtttttc acatgtatta tagaatgctt ttgcatggac tatcctcttg tttttattaa 2280

aaacaaatga ttttttaaa agtcacaaaa acaattcact aaaaataaat atgtcattgt 2340

gctttaaaaa aataacctct tgtagttata aaataaaacg tttgacttct aaactctg 2398

<210> 19
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<212> DNA
<213> Homo sapiens

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<223> /note="Exon 5"

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<221> misc_feature
<222> (950)..(2469)
<223> /note="Exon 7"

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aagccatgaa catcatccta gaaatccttc tgcttctgat caccatcatc tactcctact 120

tggagtcgtt ggtgaagttt ttcattcctc agaggagaaa atctgtggct ggggagattg 180

ttctcattac tggagctggg catggaatag gcaggcagac tacttatgaa tttgcaaaac 240

gacagagcat attggttctg tgggatatta ataagcgcgg tgtggaggaa actgcagctg 300

agtgccgaaa actaggcgtc actgcgcatg cgtatgtggt agactgcagc aacagagaag 360

agatctatcg ctctctaaat caggtgaaga aagaagtggg tgatgtaaca atcgtggtga 420

ataatgctgg gacagtatat ccagccgatc ttctcagcac caaggatgaa gagattacca 480

agacatttga ggtcaacatc ctaggacatt tttggaatgg aaaggacatc agaagtaatt 540

acttggatgt atataggatc gaggacactt ttggacgaga ctctgagatc acaaaagcac 600

ttcttccatc gatgatggag agaaatcatg gccacatcgt cacagtggct tcagtgtgcg 660

gccacgaagg gattccttac ctcatcccat attgttccag caaatttgcc gctgttggct 720

ttcacagagg tctgacatca gaacttcagg ccttgggaaa aactggtatc aaaacctcat 780

gtctctgccc agtttttgtg aatactgggt tcaccaaaaa tccaagcaca agattatggc 840

ctgtattgga gacagatgaa gtcgtaagaa gtctgataga tggaatactt accaataaga 900

aaatgatttt tgttccatcg tatatcaata tctttctgag actacagaag tttcttcctg 960

aacgcgcctc agcgatttta aatcgtatgc agaatattca atttgaagca gtggttggcc 1020

acaaaatcaa aatgaaatga ataaataagc tccagccaga gatgtatgca tgataatgat 1080

atgaatagtt tcgaatcaat gctgcaaagc tttatttcac atttttcag tcctgataat 1140

attaaaaaca ttggtttggc actagcagca gtcaaacgaa caagattaat tacctgtctt 1200

cctgtttctc aagaatattt acgtagtttt tcataggtct gtttttcctt tcatgcctct 1260

taaaaacttc tgtgcttaca taaacatact taaaaggttt tctttaagat attttatttt 1320

tccatttaaa ggtggacaaa agctacctcc ctaaaagtaa atacaaagag aacttattta 1380

cacagggaag gtttaagact gttcaagtag cattccaatc tgtagccatg ccacagaata 1440

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ctcaacctgg acatatttta agattcagca tttgaaagat ttccctagcc tcttcctttt 1560

tcattagccc aaaacggtgc aactctattc tggactttat tacttgattc tgtcttctgt 1620

ataactctga agtccaccaa aagtggaccc tctatatttc ctccctttt atagtcttat 1680

aagatacatt atgaaaggtg accgactcta ttttaaatct cagaatttta agttctagcc 1740

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taaactctg 2469

<210> 20
<211> 1715
<212> DNA
<213> Homo sapiens

<220>
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<223> /note="Exon 1"

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<222> (276)..(383)
<223> /note="Exon 2"

<220>
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<222> (384)..(515)
<223> /note="Exon 3"

<220>
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<222> (516)..(622)
<223> /note="Exon 4"

<220>
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<222> (623)..(760)
<223> /note="Exon 5"

<220>
<221> misc_feature
<222> (761)..(1715)
<223> /note="Exon 6v3"

<220>
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<222> (878)..(1715)
<223> /note="Read-through from exon 6 into intron 6"

<220>
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<222> (1716)..(1715)
<223> /note="Read-through from exon 6 into intron 6"

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tggagtcgtt ggtgaagttt ttcattcctc agaggagaaa atctgtggct ggggagattg 180

ttctcattac tggagctggg catggaatag gcaggcagac tacttatgaa tttgcaaaac 240

gacagagcat attggttctg tgggatatta ataagcgcgg tgtggaggaa actgcagctg 300

agtgccgaaa actaggcgtc actgcgcatg cgtatgtggt agactgcagc aacagagaag 360

agatctatcg ctctctaaat caggtgaaga aagaagtggg tgatgtaaca atcgtggtga 420

ataatgctgg gacagtatat ccagccgatc ttctcagcac caaggatgaa gagattacca 480

agacatttga ggtcaacatc ctaggacatt tttggatcac aaaagcactt cttccatcga 540

tgatggagag aaatcatggc cacatcgtca cagtggcttc agtgtgcggc cacgaaggga 600

ttccttacct catcccatat tgttccagca aatttgccgc tgttggcttt cacagaggtc 660

tgacatcaga acttcaggcc ttgggaaaaa ctggtatcaa aacctcatgt ctctgcccag 720

tttttgtgaa tactgggttc accaaaaatc caagcacaag attatggcct gtattggaga 780

cagatgaagt cgtaagaagt ctgatagatg gaatacttac caataagaaa atgatttttg 840

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tatttcctct gttattttcc tacccagtct ataaaaagag agtgattcat tttctctacc 1380

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<210> 21
<211> 2290
<212> DNA
<213> Homo sapiens

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<222> (276)..(407)
<223> /note="Exon 3"

<220>
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<222> (408)..(514)
<223> /note="Exon 4"

<220>
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<222> (515)..(652)

<223> /note="Exon 5"

<220>
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<222> (653)..(770)
<223> /note="Exon 6v2 - includes additional residue 770 at 3' end"

<220>
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<222> (771)..(2290)
<223> /note="Exon 7"

<400> 21
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aagccatgaa catcatccta gaaatccttc tgcttctgat caccatcatc tactcctact 120

tggagtcgtt ggtgaagttt ttcattcctc agaggagaaa atctgtggct ggggagattg 180

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gacagagcat attggttctg tgggatatta ataaggtgaa gaaagaagtg ggtgatgtaa 300

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gccacgaagg gattccttac ctcatcccat attgttccag caaatttgcc gctgttggct 540

ttcacagagg tctgacatca gaacttcagg ccttgggaaa aactggtatc aaaacctcat 600

gtctctgccc agtttttgtg aatactgggt tcaccaaaaa tccaagcaca agattatggc 660

ctgtattgga gacagatgaa gtcgtaagaa gtctgataga tggaatactt accaataaga 720

aaatgatttt tgttccatcg tatatcaata tctttctgag actacagaag gtttcttcct 780

gaacgcgcct cagcgatttt aaatcgtatg cagaatattc aatttgaagc agtggttggc 840

cacaaaatca aaatgaaatg aataaataag ctccagccag agatgtatgc atgataatga 900

tatgaatagt ttcgaatcaa tgctgcaaag ctttatttca catttttca gtcctgataa 960

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acacagggaa ggtttaagac tgttcaagta gcattccaat ctgtagccat gccacagaat 1260

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ctaaactctg 2290

<210> 22
<211> 2470
<212> DNA
<213> Homo sapiens

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<223> /note="Exon 2"

<220>
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<222> (384)..(515)
<223> /note="Exon 3"

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<223> /note="Exon 3'"

<220>
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<222> (588)..(694)
<223> /note="Exon 4"

<220>
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<222> (695)..(832)
<223> /note="Exon 5"

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<222> (833)..(950)
<223> /note="Exon 6v2 - includes additional residue 950 at 3' end"

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<221> misc_feature
<222> (951)..(2470)
<223> /note="Exon 7"

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ttctcattac tggagctggg catggaatag gcaggcagac tacttatgaa tttgcaaaac 240

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agtgccgaaa actaggcgtc actgcgcatg cgtatgtggt agactgcagc aacagagaag 360

agatctatcg ctctctaaat caggtgaaga aagaagtggg tgatgtaaca atcgtggtga 420

ataatgctgg gacagtatat ccagccgatc ttctcagcac caaggatgaa gagattacca 480

agacatttga ggtcaacatc ctaggacatt tttggaatgg aaaggacatc agaagtaatt 540

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gtctctgccc agtttttgtg aatactgggt tcaccaaaaa tccaagcaca agattatggc 840

ctgtattgga gacagatgaa gtcgtaagaa gtctgataga tggaatactt accaataaga 900

aaatgatttt tgttccatcg tatatcaata tctttctgag actacagaag gtttcttcct 960

gaacgcgcct cagcgatttt aaatcgtatg cagaatattc aatttgaagc agtggttggc 1020

cacaaaatca aaatgaaatg aataaataag ctccagccag agatgtatgc atgataatga 1080

tatgaatagt ttcgaatcaa tgctgcaaag ctttatttca catttttca gtcctgataa 1140

tattaaaaac attggtttgg cactagcagc agtcaaacga acaagattaa ttacctgtct 1200

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acacagggaa ggtttaagac tgttcaagta gcattccaat ctgtagccat gccacagaat 1440

atcaacaaga acacagaatg agtgcacagc taagagatca agtttcagca ggcagcttta 1500

tctcaacctg gacatatttt aagattcagc atttgaaaga tttccctagc ctcttccttt 1560

ttcattagcc caaaacggtg caactctatt ctggacttta ttacttgatt ctgtcttctg 1620

tataactctg aagtccacca aaagtggacc ctctatattt cctccctttt tatagtctta 1680

taagatacat tatgaaaggt gaccgactct attttaaatc tcagaatttt aagttctagc 1740

cccatgataa ccttttttctt tgtaatttat gctttcatat atccttggtc ccagagatgt 1800

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atatgtcatt gtgctttaaa aaaataacct cttgtagtta taaaataaaa cgtttgactt 2460

ctaaactctg 2470

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<223> /note="Exon 5"

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tggagtcgtt ggtgaagttt ttcattcctc agaggagaaa atctgtggct ggggagattg 180

ttctcattac tggagctggg catggaatag gcaggcagac tacttatgaa tttgcaaaac 240

gacagagcat attggttctg tgggatatta ataagcgcgg tgtggaggaa actgcagctg 300

agtgccgaaa actaggcgtc actgcgcatg cgtatgtggt agactgcagc aacagagaag 360

agatctatcg ctctctaaat caggtgaaga aagaagtggg tgatgtaaca atcgtggtga 420

ataatgctgg gacagtatat ccagccgatc ttctcagcac caaggatgaa gagattacca 480

agacatttga ggtcaacatc ctaggacatt tttggatcac aaaagcactt cttccatcga 540

tgatggagag aaatcatggc cacatcgtca cagtggcttc agtgtgcggc cacgaaggga 600

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aatactaaaa caccaataga gctttttttt ttgctttttt ttttttaga cagagtctca 960

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ggaagtttgg ttgggattgc actgaatcta tagagcaatt ggggagtatt gacatatcaa 1560

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<210> 34
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<210> 54
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<210> 75
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oligonucleotide"

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oligonucleotide"

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