

SEQUENCE LISTING

<110> Henrik Ørum

<120> SPLICE SWITCHING OLIGOMERS FOR TNF SUPERFAMILY RECEPTORS AND
THEIR USE IN TREATMENT OF DISEASE

<130> 17121PCT00

<150> PCT/US2006/043651

<151> 2006-11-10

<150> US 11/595,485

<151> 2006-11-10

<150> US 60/862,350

<151> 2006-11-20

<160> 295

<170> PatentIn version 3.3

<210> 1

<211> 214

<212> DNA

<213> homo sapiens

<400> 1

tgcgcccc ctctgccgc tcctctgacc aacacctgot ttgtctgcag gcaccacagt 60

gctgttgccc ctggtcattt tctttggtct ttgcctttta tccctcctct tcattggttt 120

aatgtatcgc taccaacggt ggaagtccaa gctctactcc attggtgagt gggggctttg 180

ggagggagag ggagctggtg ggggtgaggg agga 214

<210> 2

<211> 129

<212> DNA

<213> homo sapiens

<400> 2

gggctgagag aggaagtga atttatgarg ctttctttct ttttcctcag tttgtgggaa 60

atcgacacct gaaaaagagg tgagatgaaa tgagagagtt actcccaa atgtccctgacc 120

attccttat 129

<210> 3

<211> 178

<212> DNA

<213> homo sapiens

<400> 3

acatttgagt ttgttttctg tagctgtctg agcttctctt ttctttctag gactgattgt 60

gggtgtgaca gccttgggtc tactaataat aggagtgggtg aactgtgtca tcatgaccca 120

ggtgaaaagt aagagtccat ccttccttcc ttcattccact tgttcaggaa gcttttgt 178

17121PCT00

<210> 4
<211> 135
<212> DNA
<213> homo sapiens

<400> 4
gatgtgctg aggaagtcaa tctcttactt gtccctctc ctctttatag agaagccctt 60
gtgcctgcag agagaagcca aggtggtgag tgtctccact gccctctccc cctcttcccc 120
tggtctcctt cccgg 135

<210> 5
<211> 20
<212> RNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 5
ccgcaguacc ugcagaccag 20

<210> 6
<211> 20
<212> RNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 6
guaccugcag accagagagg 20

<210> 7
<211> 20
<212> RNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 7
cugcagacca gagagguugc 20

<210> 8
<211> 20
<212> RNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 8
acugauggag uagacuucgg 20

17121PCT00

<210> 9	
<211> 20	
<212> RNA	
<213> artificial	
<220>	
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO	
<400> 9	
aguccuacuu acugauggag	20
<210> 10	
<211> 20	
<212> RNA	
<213> artificial	
<220>	
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO	
<400> 10	
ccaaaguccu acuuacugau	20
<210> 11	
<211> 20	
<212> RNA	
<213> artificial	
<220>	
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO	
<400> 11	
agauaaccag gggcaacagc	20
<210> 12	
<211> 20	
<212> RNA	
<213> artificial	
<220>	
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO	
<400> 12	
aggauagaag gcaaagaccu	20
<210> 13	
<211> 20	
<212> RNA	
<213> artificial	
<220>	
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO	
<400> 13	
ggcacauuaa acugaugaag	20

17121PCT00

<210> 14
 <211> 20
 <212> RNA
 <213> artificial

<220>
 <223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 14
 ggccuccacc ggggauaucg 20

<210> 15
 <211> 20
 <212> RNA
 <213> artificial

<220>
 <223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 15
 cuggagaaca aagaaacaag 20

<210> 16
 <211> 20
 <212> RNA
 <213> artificial

<220>
 <223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 16
 aucccuacaa acuggagaac 20

<210> 17
 <211> 20
 <212> RNA
 <213> artificial

<220>
 <223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 17
 ggcacgggau ccuacaaac 20

<210> 18
 <211> 20
 <212> RNA
 <213> artificial

<220>
 <223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 18
 cuucucaccu cuugacagg 20

17121PCT00

<210> 19
 <211> 20
 <212> RNA
 <213> artificial

 <220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

 <400> 19
 uggagucguc ccuucucacc 20

 <210> 20
 <211> 20
 <212> RNA
 <213> artificial

 <220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

 <400> 20
 cuccaacaau cagaccuagg 20

 <210> 21
 <211> 20
 <212> RNA
 <213> artificial

 <220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

 <400> 21
 caaucagacc uaggaaaacg 20

 <210> 22
 <211> 20
 <212> RNA
 <213> artificial

 <220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

 <400> 22
 agaccuagga aaacggcagg 20

 <210> 23
 <211> 20
 <212> RNA
 <213> artificial

 <220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

 <400> 23
 ccuuacuuuu ccucugcacc 20

 <210> 24

17121PCT00

<211> 20
 <212> RNA
 <213> artificial

 <220>
 <223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

 <400> 24
 gagcagaacc uuacuuuucc 20

 <210> 25
 <211> 20
 <212> RNA
 <213> artificial

 <220>
 <223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

 <400> 25
 gacgagagca gaaccuuacu 20

 <210> 26
 <211> 20
 <212> RNA
 <213> artificial

 <220>
 <223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

 <400> 26
 ucagcagacc cagugauguc 20

 <210> 27
 <211> 20
 <212> RNA
 <213> artificial

 <220>
 <223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

 <400> 27
 augaugcagu ucaccagucc 20

 <210> 28
 <211> 20
 <212> RNA
 <213> artificial

 <220>
 <223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

 <400> 28
 ucaccagucc uaacaucagc 20

 <210> 29
 <211> 20

17121PCT00

<212> RNA
<213> artificial

<220>
<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 29
ccucugcacc aggaugaugc 20

<210> 30
<211> 20
<212> RNA
<213> artificial

<220>
<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 30
uucucuacaa ugaagagagg 20

<210> 31
<211> 20
<212> RNA
<213> artificial

<220>
<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 31
ggcuucucua caaugaagag 20

<210> 32
<211> 20
<212> RNA
<213> artificial

<220>
<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 32
uguaggcagg agggcuucuc 20

<210> 33
<211> 20
<212> RNA
<213> artificial

<220>
<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 33
acucaccacc uggcaucuc 20

<210> 34
<211> 20
<212> RNA

17121PCT00

<213> artificial

<220>

<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 34

gcagagggau acucaccacc

20

<210> 35

<211> 16

<212> DNA

<213> artificial

<220>

<223> LNA-2'-deoxy-ribonucleosidephosphorothioate chimeric mouse targeted SSO

<400> 35

caatcagacc taggaa

16

<210> 36

<211> 16

<212> DNA

<213> artificial

<220>

<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 36

caacaatcag acctag

16

<210> 37

<211> 16

<212> DNA

<213> artificial

<220>

<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 37

cagacctagg aaaacg

16

<210> 38

<211> 16

<212> DNA

<213> artificial

<220>

<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 38

agcagacca gtgatg

16

<210> 39

<211> 16

<212> DNA

17121PCT00

<213> artificial

<220>

<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 39

ccagtcctaa catcag

16

<210> 40

<211> 16

<212> DNA

<213> artificial

<220>

<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 40

caccagtcct aacatc

16

<210> 41

<211> 16

<212> DNA

<213> artificial

<220>

<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 41

ctgcaccagg atgatg

16

<210> 42

<211> 16

<212> DNA

<213> artificial

<220>

<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 42

acttttctctc tgcacc

16

<210> 43

<211> 16

<212> DNA

<213> artificial

<220>

<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 43

ccttactttt cctctg

16

<210> 44

<211> 16

<212> DNA

<213> artificial

17121PCT00

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 44
 cagaacctta cttttc 16

<210> 45
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 45
 agagcagaac cttact 16

<210> 46
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 46
 gagagcagaa ccttac 16

<210> 47
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 47
 accttacttt tcctct 16

<210> 48
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 48
 cttctctaca atgaag 16

<210> 49
 <211> 16
 <212> DNA
 <213> artificial

17121PCT00

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 49
ccttgccatc tctttg 16

<210> 50
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 50
tcaccacctt ggcac 16

<210> 51
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 51
actcaccacc ttggca 16

<210> 52
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 52
gatactcacc accttg 16

<210> 53
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 53
ctacaatgaa gagagg 16

<210> 54
<211> 16
<212> DNA
<213> artificial

<220>

17121PCT00

<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 54
ctctacaatg aagaga

16

<210> 55
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 55
agggatactc accacc

16

<210> 56
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 56
cagagggata ctcacc

16

<210> 57
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 57
cgcagagggga tactca

16

<210> 58
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 58
gaacaagtca gaggca

16

<210> 59
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

17121PCT00

<400> 59
gaggcaggac ttcttc 16

<210> 60
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 60
cgcagtacct gcagac 16

<210> 61
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 61
agtacctgca gaccag 16

<210> 62
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 62
ggcaacagca ccgcag 16

<210> 63
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 63
ctagcaagat aaccag 16

<210> 64
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

17121PCT00

<400> 64
gcacatta aa ctgatg 16

<210> 65
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 65
cttcgggcct ccaccg 16

<210> 66
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 66
cttactgatg gagtag 16

<210> 67
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 67
cctacttact gatgga 16

<210> 68
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 68
gtcctactta ctgatg 16

<210> 69
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 69

17121PCT00

tccctacaaa ctggag 16

<210> 70
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 70
ggcacgggat ccctac 16

<210> 71
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 71
ctctttgaca ggcacg 16

<210> 72
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 72
ctcacctctt tgacag 16

<210> 73
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 73
ccttctcacc tctttg 16

<210> 74
<211> 16
<212> DNA
<213> artificial

<220>
<223> LNA-2'deoxy-ribonucleosidephosphorothioate chimeric human
targeted SSO

<400> 74

17121PCT00

ccacaatcag tcctag 16

<210> 75
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 75
cagtcctaga aagaaa 16

<210> 76
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 76
agtagacca aggctg 16

<210> 77
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 77
ccactcctat tattag 16

<210> 78
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 78
caccactcct attatt 16

<210> 79
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 79
ctgggtcatg atgaca 16

<210> 80
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 80
acttttcacc tgggtc 16

<210> 81
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 81
tcttactttt cacctg 16

<210> 82
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 82
tggactctta cttttc 16

<210> 83
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 83
aggatggact cttact 16

<210> 84
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 84
aaggatggac tcttac 16

17121PCT00

<210> 85
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 85
 cttctctata aagagg 16

<210> 86
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 86
 ccttggcttc tctctg 16

<210> 87
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 87
 tcaccacctt ggcttc 16

<210> 88
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 88
 actcaccacc ttggct 16

<210> 89
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 89
 gacactcacc accttg 16

17121PCT00

<210> 90
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 90
tgtggtgcct gcagac 16

<210> 91
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 91
ggtgcctgca gacaaa 16

<210> 92
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 92
ggcaacagca ctgtgg 16

<210> 93
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 93
caaagaaaat gaccag 16

<210> 94
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 94
atacattaaa ccaatg 16

<210> 95

17121PCT00

<211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 95
 gcttggactt ccaccg 16

<210> 96
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 96
 ctcaccaatg gagtag 16

<210> 97
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 97
 cactcaccaa tggagt 16

<210> 98
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 98
 cccactcacc aatgga 16

<210> 99
 <211> 16
 <212> DNA
 <213> artificial

<220>
 <223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 99
 cccccactca ccaatg 16

<210> 100
 <211> 16

17121PCT00

<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 100
aaagccccca ctcacc 16

<210> 101
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 101
tttcccacaa actgag 16

<210> 102
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 102
ggtgtcgatt tcccac 16

<210> 103
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 103
ctctttttca ggtgtc 16

<210> 104
<211> 16
<212> DNA
<213> artificial

<220>
<223> 2'O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 104
ctcacctctt tttcag 16

<210> 105
<211> 16
<212> DNA

17121PCT00

<213> artificial

<220>

<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 105

tcatctcacc tctttt

16

<210> 106

<211> 16

<212> DNA

<213> artificial

<220>

<223> 2'-O-Me-ribonucleoside-phosphorothioate mouse targeted SSO

<400> 106

gctattacct taaccc

16

<210> 107

<211> 214

<212> DNA

<213> Mus musculus

<400> 107

cccctagtct ctgctgtggc ctcacactga gcaacctctc tggctctgcag gtactgcggt 60

gctgttgccc ctggttatct tgctaggtct ttgccttcta tcctttatct tcatcagttt 120

aatgtgccga tatccccggt ggaggccga agtctactcc atcagtaagt aggactttgg 180

ggatataggg tgttggtgga gatacgggag gggt 214

<210> 108

<211> 129

<212> DNA

<213> Mus musculus

<400> 108

gcgttgaaag ggaagtgaag ttcacacac cttgtttctt tgttctccag tttgtaggga 60

tcccgtgcct gtcaaagagg tgagaaggga cgactccagc ttccctgact actccttcca 120

acgcctgat 129

<210> 109

<211> 178

<212> DNA

<213> Mus musculus

<400> 109

caccagccac cctggaacct ttgtttctga gtaccctgcc gttttcctag gtctgattgt 60

tggagtgaac tcaactgggtc tgctgatgtt aggactgggtg aactgcatca tcctgggtgca 120

gaggaaaagt aaggttctgc tctcgctcctg tttcccgccc cacgtcccta ccctaaca 178

17121PCT00

<210> 110
 <211> 135
 <212> DNA
 <213> Mus musculus

<400> 110
 ctgttctgaa gaagtcctgc ctctgacttg ttccccctctc ttcattgtag agaagccctc 60
 ctgcctacaa agagatgcca aggtggtgag tatccctctg cggtcctcct ccccttctc 120
 tctctccagct ctccc 135

<210> 111
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> forward primer PS009

<400> 111
 gaaagtgagt gcgtcccttg c 21

<210> 112
 <211> 20
 <212> DNA
 <213> artificial

<220>
 <223> reverse primer PS010

<400> 112
 gcacggagca gattgattcg 20

<210> 113
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> forward primer PS003

<400> 113
 gagccccaaa tggaaatgtg c 21

<210> 114
 <211> 17
 <212> DNA
 <213> artificial

<220>
 <223> reverse primer PS004

<400> 114
 gctcaaggcc tactgcc 17

17121PCT00

<210> 115
 <211> 24
 <212> DNA
 <213> artificial

<220>
 <223> Human TNFR2 mRNA forward primer

<400> 115
 actgaaacat cagacgtggt gtgc 24

<210> 116
 <211> 21
 <212> DNA
 <213> artificial

<220>
 <223> Human TNFR2 mRNA reverse primer

<400> 116
 ccttatcggc aggcaagtga g 21

<210> 117
 <211> 1368
 <212> DNA
 <213> Homo sapiens

<400> 117
 atgggcctct ccaccgtgcc tgacctgctg ctgccactgg tgctcctgga gctgttggtg 60
 ggaatatacc cctcaggggt tattggactg gtccctcacc taggggacag ggagaagaga 120
 gatagtgtgt gtccccaagg aaaatatatc caccctcaaa ataattcgat ttgctgtacc 180
 aagtgccaca aaggaacctc cttgtacaat gactgtccag gcccggggca ggatacggac 240
 tgcagggagt gtgagagcgg ctcccttcacc gcttcagaaa accacctcag aactgcctc 300
 agctgctcca aatgccgaaa ggaaatgggt caggtggaga tctcttcttg cacagtggac 360
 cgggacaccg tgtgtggctg caggaagaac cagtaccggc attattggag tgaaaacctt 420
 ttccagtgtc tcaattgcag cctctgcctc aatgggaccg tgcacctctc ctgccaggag 480
 aaacagaaca ccgtgtgcac ctgccatgca ggtttctttc taagagaaaa cgagtgtgtc 540
 tcctgtagta actgtaagaa aagcctggag tgcacgaagt tgtgcctacc ccagattgag 600
 aatgttaagg gactgagga ctcaggcacc acagtgtgtg tgcccctggg cattttcttt 660
 ggtctttgcc ttttatccct cctcttcatt ggtttaatgt atcgctacca acggtggaag 720
 tccaagctct actccattgt ttgtgggaaa tcgacacctg aaaaagaggg ggagcttgaa 780
 ggaactacta ctaagcccct ggccccaac ccaagcttca gtcccactcc aggcttcacc 840
 cccaccctgg gcttcagtcc cgtgcccagt tccaccttca cctccagctc cacctatacc 900

17121PCT00

```

cccgggtgact gtcccaactt tgcggctccc cgagagagg tggcaccacc ctatcagggg      960
gctgacccca tccttgcgac agccctcgcc tccgacccca tccccaaccc ctttcagaag    1020
tgggaggaca gcgcccacaa gccacagagc ctagacactg atgaccccg c gacgctgtac    1080
gccgtggtgg agaactgtcc cccgttgccg tggaaggaat tcgtgcggcg cctagggctg    1140
agcgaccacg agatcgatcg gctggagctg cagaacgggc gctgcctgcg cgaggcgcaa    1200
tacagcatgc tggcgacctg gaggcggcgc acgccgcggc gcgaggccac gctggagctg    1260
ctgggacgcg tgctccgcga catggacctg ctgggctgcc tggaggacat cgaggaggcg    1320
ctttgcgggc ccgcccct cccgccgcg cccagtcttc tcagatga                      1368

```

<210> 118

<211> 455

<212> PRT

<213> Homo sapiens

<400> 118

```

Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu
1           5           10           15

```

```

Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro
          20           25           30

```

```

His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys
      35           40           45

```

```

Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
50           55           60

```

```

Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp
65           70           75           80

```

```

Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu
      85           90           95

```

```

Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val
      100           105           110

```

```

Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg
      115           120           125

```

```

Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe
      130           135           140

```

```

Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu
145           150           155           160

```

17121PCT00

Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu
 165 170 175

Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr
 180 185 190

Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser
 195 200 205

Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu
 210 215 220

Leu Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
 225 230 235 240

Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu
 245 250 255

Gly Glu Leu Glu Gly Thr Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser
 260 265 270

Phe Ser Pro Thr Pro Gly Phe Thr Pro Thr Leu Gly Phe Ser Pro Val
 275 280 285

Pro Ser Ser Thr Phe Thr Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys
 290 295 300

Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly
 305 310 315 320

Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn
 325 330 335

Pro Leu Gln Lys Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp
 340 345 350

Thr Asp Asp Pro Ala Thr Leu Tyr Ala Val Val Glu Asn Val Pro Pro
 355 360 365

Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu Ser Asp His Glu
 370 375 380

Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln
 385 390 395 400

17121PCT00

Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala
 405 410 415

Thr Leu Glu Leu Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly
 420 425 430

Cys Leu Glu Asp Ile Glu Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro
 435 440 445

Pro Ala Pro Ser Leu Leu Arg
 450 455

<210> 119

<211> 1386

<212> DNA

<213> Homo sapiens

<400> 119

atggcgcccg tgcgcgtctg ggccgcgctg gccgtcggac tggagctctg ggctgcggcg	60
cacgccttgc ccgccaggt ggcatttaca ccctacgccc cggagcccg gagcacatgc	120
cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaag ctcgccgggc	180
caacatgcaa aagtcttctg taccaagacc tcggacacog tgtgtgactc ctgtgaggac	240
agcacataca ccagctctg gaactgggtt cccgagtgtc tgagctgtgg ctcccgtgt	300
agctctgacc aggtggaac tcaagcctgc actcggaac agaaccgcat ctgcacctgc	360
aggcccggt ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgcgctg	420
cgcaagtgcc gcccggtt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg	480
tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg	540
ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc	600
acgtccacgt cccccaccg gagtatggcc ccaggggcag tacacttacc ccagccagtg	660
tccacacgat cccaacacac gcagccaact ccagaaccca gactgctcc aagcacctcc	720
ttcctgctcc caatgggcc cagccccca gctgaaggga gactggcga cttcgctctt	780
ccagttggac tgattgtggg tgtgacagcc ttgggtctac taataatagg agtgggtgaac	840
tgtgtcatca tgaccaggt gaaaaagaag cccttgtgcc tgcagagaga agccaaggtg	900
cctcacttgc ctgccgataa ggccgggggt acacagggcc ccgagcagca gcacctgctg	960
atcacagcgc cgagctccag cagcagctcc ctggagagct cggccagtgc gttggacaga	1020
agggcgccca ctcggaacca gccacaggca ccaggcgtgg aggccagtgg ggccggggag	1080
gcccgggcca gcaccgggag ctgagattct tcccctggtg gccatgggac ccaggtcaat	1140

17121PCT00

```

gtcacctgca tcgtgaacgt ctgtagcagc tctgaccaca gctcacagtg ctcctcccaa 1200
gccagctcca caatgggaga cacagattcc agcccctcgg agtccccgaa ggacgagcag 1260
gtcccccttct ccaaggagga atgtgccttt cggtcacagc tggagacgcc agagaccctg 1320
ctgggggagca ccgaagagaa gcccctgccc cttggagtgc ctgatgctgg gatgaagccc 1380
agttaa 1386

```

```

<210> 120
<211> 461
<212> PRT
<213> Homo sapiens

```

```

<400> 120

```

```

Met Ala Pro Val Ala Val Trp Ala Ala Leu Ala Val Gly Leu Glu Leu
1          5          10          15

```

```

Trp Ala Ala Ala His Ala Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr
          20          25          30

```

```

Ala Pro Glu Pro Gly Ser Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln
          35          40          45

```

```

Thr Ala Gln Met Cys Cys Ser Lys Cys Ser Pro Gly Gln His Ala Lys
50          55          60

```

```

Val Phe Cys Thr Lys Thr Ser Asp Thr Val Cys Asp Ser Cys Glu Asp
65          70          75          80

```

```

Ser Thr Tyr Thr Gln Leu Trp Asn Trp Val Pro Glu Cys Leu Ser Cys
          85          90          95

```

```

Gly Ser Arg Cys Ser Ser Asp Gln Val Glu Thr Gln Ala Cys Thr Arg
100          105          110

```

```

Glu Gln Asn Arg Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu
115          120          125

```

```

Ser Lys Gln Glu Gly Cys Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg
130          135          140

```

```

Pro Gly Phe Gly Val Ala Arg Pro Gly Thr Glu Thr Ser Asp Val Val
145          150          155          160

```

```

Cys Lys Pro Cys Ala Pro Gly Thr Phe Ser Asn Thr Thr Ser Ser Thr
165          170          175

```

17121PCT00

Asp Ile Cys Arg Pro His Gln Ile Cys Asn Val Val Ala Ile Pro Gly
 180 185 190

Asn Ala Ser Met Asp Ala Val Cys Thr Ser Thr Ser Pro Thr Arg Ser
 195 200 205

Met Ala Pro Gly Ala Val His Leu Pro Gln Pro Val Ser Thr Arg Ser
 210 215 220

Gln His Thr Gln Pro Thr Pro Glu Pro Ser Thr Ala Pro Ser Thr Ser
 225 230 235 240

Phe Leu Leu Pro Met Gly Pro Ser Pro Pro Ala Glu Gly Ser Thr Gly
 245 250 255

Asp Phe Ala Leu Pro Val Gly Leu Ile Val Gly Val Thr Ala Leu Gly
 260 265 270

Leu Leu Ile Ile Gly Val Val Asn Cys Val Ile Met Thr Gln Val Lys
 275 280 285

Lys Lys Pro Leu Cys Leu Gln Arg Glu Ala Lys Val Pro His Leu Pro
 290 295 300

Ala Asp Lys Ala Arg Gly Thr Gln Gly Pro Glu Gln Gln His Leu Leu
 305 310 315 320

Ile Thr Ala Pro Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Ala Ser
 325 330 335

Ala Leu Asp Arg Arg Ala Pro Thr Arg Asn Gln Pro Gln Ala Pro Gly
 340 345 350

Val Glu Ala Ser Gly Ala Gly Glu Ala Arg Ala Ser Thr Gly Ser Ser
 355 360 365

Asp Ser Ser Pro Gly Gly His Gly Thr Gln Val Asn Val Thr Cys Ile
 370 375 380

Val Asn Val Cys Ser Ser Ser Asp His Ser Ser Gln Cys Ser Ser Gln
 385 390 395 400

Ala Ser Ser Thr Met Gly Asp Thr Asp Ser Ser Pro Ser Glu Ser Pro
 405 410 415

Lys Asp Glu Gln Val Pro Phe Ser Lys Glu Glu Cys Ala Phe Arg Ser

17121PCT00

420

425

430

Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly Ser Thr Glu Glu Lys Pro
 435 440 445

Leu Pro Leu Gly Val Pro Asp Ala Gly Met Lys Pro Ser
 450 455 460

<210> 121
 <211> 1254
 <212> DNA
 <213> Homo sapiens

<400> 121
 atgggcctct ccaccgtgcc tgacctgctg ctgccactgg tgctcctgga gctgttggtg 60
 ggaatatacc cctcaggggt tattggactg gtccctcacc taggggacag ggagaagaga 120
 gatagtgtgt gtccccaagg aaaatatatc caccctcaaa ataattcgat ttgctgtacc 180
 aagtgccaca aaggaaccta cttgtacaat gactgtccag gcccggggca ggatacggac 240
 tgcagggagt gtgagagcgg ctccctcacc gcttcagaaa accacctcag acactgcctc 300
 agctgctcca aatgccgaaa ggaaatgggt caggtggaga tctcttcttg cacagtggac 360
 cgggacaccg tgtgtggctg caggaagaac cagtaccggc attattggag tgaaaacctt 420
 ttccagtgtc tcaattgcag cctctgcctc aatgggaccg tgcacctctc ctgccaggag 480
 aaacagaaca ccgtgtgcac ctgccatgca ggtttctttc taagagaaaa cgagtgtgtc 540
 tcctgtagta actgtaagaa aagcctggag tgcacgaagt tgtgcctacc ccagattgag 600
 aatgttaagg gcactgagga ctcagtttgt gggaaatcga cacctgaaaa agagggggag 660
 cttgaaggaa ctactactaa gccctggcc ccaaacccaa gcttcagtcc cactccaggc 720
 ttcaccccca ccctgggctt cagtcccgtg ccagttcca ccttcacctc cagctccacc 780
 tatacccccg gtgactgtcc caactttgcg gctccccgca gagaggtggc accaccctat 840
 cagggggctg accccatcct tgcgacagcc ctgcctcog accccatccc caaccccctt 900
 cagaagtggg aggacagcgc ccacaagcca cagagcctag acactgatga ccccgcgacg 960
 ctgtacgccc tgggtggagaa cgtgcccccg ttgcgctgga aggaattcgt gcggcgcccta 1020
 gggctgagcg accacgagat cgatcggctg gagctgcaga acgggcgctg cctgcgagag 1080
 gcgcaataca gcatgctggc gacctggagg cggcgcacgc cgcggcgca ggccacgctg 1140
 gagctgctgg gacgctgtct ccgagacatg gacctgctgg gctgcctgga ggacatcgag 1200
 gaggcgcttt gcggccccgc cgccctcccg cccgcgcca gtcttctcag atga 1254

<210> 122

17121PCT00

<211> 417

<212> PRT

<213> Homo sapiens

<400> 122

Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu
1 5 10 15

Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro
20 25 30

His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro Gln Gly Lys
35 40 45

Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
50 55 60

Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp
65 70 75 80

Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu
85 90 95

Arg His Cys Leu Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val
100 105 110

Glu Ile Ser Ser Cys Thr Val Asp Arg Asp Thr Val Cys Gly Cys Arg
115 120 125

Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu Phe Gln Cys Phe
130 135 140

Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu
145 150 155 160

Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu
165 170 175

Asn Glu Cys Val Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr
180 185 190

Lys Leu Cys Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser
195 200 205

Val Cys Gly Lys Ser Thr Pro Glu Lys Glu Gly Glu Leu Glu Gly Thr
210 215 220

17121PCT00

Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser Phe Ser Pro Thr Pro Gly
225 230 235 240

Phe Thr Pro Thr Leu Gly Phe Ser Pro Val Pro Ser Ser Thr Phe Thr
245 250 255

Ser Ser Ser Thr Tyr Thr Pro Gly Asp Cys Pro Asn Phe Ala Ala Pro
260 265 270

Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly Ala Asp Pro Ile Leu Ala
275 280 285

Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn Pro Leu Gln Lys Trp Glu
290 295 300

Asp Ser Ala His Lys Pro Gln Ser Leu Asp Thr Asp Asp Pro Ala Thr
305 310 315 320

Leu Tyr Ala Val Val Glu Asn Val Pro Pro Leu Arg Trp Lys Glu Phe
325 330 335

Val Arg Arg Leu Gly Leu Ser Asp His Glu Ile Asp Arg Leu Glu Leu
340 345 350

Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln Tyr Ser Met Leu Ala Thr
355 360 365

Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala Thr Leu Glu Leu Leu Gly
370 375 380

Arg Val Leu Arg Asp Met Asp Leu Leu Gly Cys Leu Glu Asp Ile Glu
385 390 395 400

Glu Ala Leu Cys Gly Pro Ala Ala Leu Pro Pro Ala Pro Ser Leu Leu
405 410 415

Arg

<210> 123

<211> 1251

<212> DNA

<213> Mus sp.

<400> 123

atgggtctcc ccaccgtgcc tggcctgctg ctgtcactgg tgctcctggc tctgctgatg 60

gggatacatc catcaggggt cactggacta gtcccttctc ttggtgaccg ggagaagagg 120

17121PCT00

```

gatagcttgt gtccccaagg aaagtatgtc cattctaaga acaattccat ctgctgcacc 180
aagtgccaca aaggaaccta cttggtgagt gactgtccga gcccagggcg ggatacagtc 240
tgcagggagt gtgaaaaggg cacctttacg gcttcccaga attacctcag gcagtgtctc 300
agttgcaaga catgtcggaa agaaatgtcc caggtggaga tctctccttg ccaagctgac 360
aaggacacgg tgtgtggctg taaggagaac cagttccaac gctacctgag tgagacacac 420
ttccagtgcg tggactgcag cccctgcttc aacggcacog tgacaatccc ctgtaaggag 480
actcagaaca ccgtgtgtaa ctgccatgca gggttctttc tgagagaaaag tgagtgcgtc 540
ccttgacagc actgcaagaa aaatgaggag tgtatgaagt tgtgcctacc tcctccgctt 600
gcaaattgtc caaaccccca ggactcagtt tgtagggatc ccgtgcctgt caaagaggag 660
aaggctggaa agcccctaac tccagccccc tccccagcct tcagccccac ctccggcttc 720
aaccccactc tgggcttcag cccccaggc tttagttctc ctgtctccag tacccccata 780
agccccatct tcggtcctag taactggcac ttcatgccac ctgtcagtga ggtagtccca 840
accaggggag ctgacctct gctctacgaa tcaactctgt ccgtgccagc ccccaacctct 900
gttcagaaat gggaagactc cgcccacccg caacgtcctg acaatgcaga ccttgcgatt 960
ctgtatgctg tgggtgatgg cgtgcctcca gcgcgctgga aggagttcat gcgtttcatg 1020
gggctgagcg agcacgagat cgagaggctg gagatgcaga acgggcgctg cctgcgcgag 1080
gctcagtaca gcatgctgga agcctggcgg cgccgcacgc cgcgccacga ggacacgctg 1140
gaagtagtgg gcctcgtgct ttccaagatg aacctggctg ggtgcctgga gaatatcctc 1200
gaggctctga gaaatccgc cccctcgtcc acgaccgcgc tcccgcgata a 1251

```

<210> 124

<211> 416

<212> PRT

<213> Mus sp.

<400> 124

```

Met Gly Leu Pro Thr Val Pro Gly Leu Leu Leu Ser Leu Val Leu Leu
1           5           10           15

```

```

Ala Leu Leu Met Gly Ile His Pro Ser Gly Val Thr Gly Leu Val Pro
          20           25           30

```

```

Ser Leu Gly Asp Arg Glu Lys Arg Asp Ser Leu Cys Pro Gln Gly Lys
          35           40           45

```

```

Tyr Val His Ser Lys Asn Asn Ser Ile Cys Cys Thr Lys Cys His Lys
          50           55           60

```

17121PCT00

Gly	Thr	Tyr	Leu	Val	Ser	Asp	Cys	Pro	Ser	Pro	Gly	Arg	Asp	Thr	Val	65	70	75	80
Cys	Arg	Glu	Cys	Glu	Lys	Gly	Thr	Phe	Thr	Ala	Ser	Gln	Asn	Tyr	Leu	85	90	95	
Arg	Gln	Cys	Leu	Ser	Cys	Lys	Thr	Cys	Arg	Lys	Glu	Met	Ser	Gln	Val	100	105	110	
Glu	Ile	Ser	Pro	Cys	Gln	Ala	Asp	Lys	Asp	Thr	Val	Cys	Gly	Cys	Lys	115	120	125	
Glu	Asn	Gln	Phe	Gln	Arg	Tyr	Leu	Ser	Glu	Thr	His	Phe	Gln	Cys	Val	130	135	140	
Asp	Cys	Ser	Pro	Cys	Phe	Asn	Gly	Thr	Val	Thr	Ile	Pro	Cys	Lys	Glu	145	150	155	160
Thr	Gln	Asn	Thr	Val	Cys	Asn	Cys	His	Ala	Gly	Phe	Phe	Leu	Arg	Glu	165	170	175	
Ser	Glu	Cys	Val	Pro	Cys	Ser	His	Cys	Lys	Lys	Asn	Glu	Glu	Cys	Met	180	185	190	
Lys	Leu	Cys	Leu	Pro	Pro	Pro	Leu	Ala	Asn	Val	Thr	Asn	Pro	Gln	Asp	195	200	205	
Ser	Val	Cys	Arg	Asp	Pro	Val	Pro	Val	Lys	Glu	Glu	Lys	Ala	Gly	Lys	210	215	220	
Pro	Leu	Thr	Pro	Ala	Pro	Ser	Pro	Ala	Phe	Ser	Pro	Thr	Ser	Gly	Phe	225	230	235	240
Asn	Pro	Thr	Leu	Gly	Phe	Ser	Thr	Pro	Gly	Phe	Ser	Ser	Pro	Val	Ser	245	250	255	
Ser	Thr	Pro	Ile	Ser	Pro	Ile	Phe	Gly	Pro	Ser	Asn	Trp	His	Phe	Met	260	265	270	
Pro	Pro	Val	Ser	Glu	Val	Val	Pro	Thr	Gln	Gly	Ala	Asp	Pro	Leu	Leu	275	280	285	
Tyr	Glu	Ser	Leu	Cys	Ser	Val	Pro	Ala	Pro	Thr	Ser	Val	Gln	Lys	Trp	290	295	300	

17121PCT00

Glu Asp Ser Ala His Pro Gln Arg Pro Asp Asn Ala Asp Leu Ala Ile
305 310 315 320

Leu Tyr Ala Val Val Asp Gly Val Pro Pro Ala Arg Trp Lys Glu Phe
325 330 335

Met Arg Phe Met Gly Leu Ser Glu His Glu Ile Glu Arg Leu Glu Met
340 345 350

Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln Tyr Ser Met Leu Glu Ala
355 360 365

Trp Arg Arg Arg Thr Pro Arg His Glu Asp Thr Leu Glu Val Val Gly
370 375 380

Leu Val Leu Ser Lys Met Asn Leu Ala Gly Cys Leu Glu Asn Ile Leu
385 390 395 400

Glu Ala Leu Arg Asn Pro Ala Pro Ser Ser Thr Thr Arg Leu Pro Arg
405 410 415

<210> 125

<211> 1308

<212> DNA

<213> Homo sapiens

<400> 125

atggcgcccg tcgccgtctg ggccgcgctg gccgtcggac tggagctctg ggctgcggcg	60
cacgccttgc ccgcccaggt ggcatTTaca ccctacgccc cggagcccgg gagcacatgc	120
cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaATg ctgcgcgggc	180
caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac	240
agcacataca ccagctctg gaactgggtt cccgagtgtc tgagctgtgg ctcccgctgt	300
agctctgacc aggtggaaac tcaagcctgc actcggaac agaaccgcat ctgcacctgc	360
aggcccggt ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgcgctg	420
cgcaagtgcc gcccggtt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg	480
tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg	540
ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc	600
acgtccacgt cccccaccg gagtatggcc ccaggggcag tacacttacc ccagccagtg	660
tccacacgat cccaacacac gcagccaact ccagaacca gcaactgtcc aagcacctcc	720
ttcctgtctc caatgggccc cagccccca gctgaaggga gcaactggcg ctctgctctt	780
ccagttgaga agcccttgtg cctgcagaga gaagccaagg tgcctcactt gcctgccgat	840

17121PCT00

```

aaggcccggg gtacacaggg ccccgagcag cagcacctgc tgatcacagc gccgagctcc      900
agcagcagct ccctggagag ctgggccagt gcgttggaaca gaagggcgcc cactcggaac      960
cagccacagg caccaggcgt ggaggccagt ggggccgggg aggcccgggc cagcaccggg     1020
agctcagatt cttccctgg tggccatggg acccagggtca atgtcacctg catcgtgaac     1080
gtctgtagca gctctgacca cagctcacag tgctcctccc aagccagctc cacaatggga     1140
gacacagatt ccagcccctc ggagtccccg aaggacgagc aggtcccctt ctccaaggag     1200
gaatgtgcct ttcggtcaca gctggagacg ccagagaccc tgctggggag caccgaagag     1260
aagcccctgc cccttgagat gcctgatgct gggatgaagc ccagttaa                     1308

```

<210> 126

<211> 435

<212> PRT

<213> Homo sapiens

<400> 126

```

Met Ala Pro Val Ala Val Trp Ala Ala Leu Ala Val Gly Leu Glu Leu
1              5              10              15

```

```

Trp Ala Ala Ala His Ala Leu Pro Ala Gln Val Ala Phe Thr Pro Tyr
              20              25              30

```

```

Ala Pro Glu Pro Gly Ser Thr Cys Arg Leu Arg Glu Tyr Tyr Asp Gln
              35              40              45

```

```

Thr Ala Gln Met Cys Cys Ser Lys Cys Ser Pro Gly Gln His Ala Lys
50              55              60

```

```

Val Phe Cys Thr Lys Thr Ser Asp Thr Val Cys Asp Ser Cys Glu Asp
65              70              75              80

```

```

Ser Thr Tyr Thr Gln Leu Trp Asn Trp Val Pro Glu Cys Leu Ser Cys
85              90              95

```

```

Gly Ser Arg Cys Ser Ser Asp Gln Val Glu Thr Gln Ala Cys Thr Arg
100              105              110

```

```

Glu Gln Asn Arg Ile Cys Thr Cys Arg Pro Gly Trp Tyr Cys Ala Leu
115              120              125

```

```

Ser Lys Gln Glu Gly Cys Arg Leu Cys Ala Pro Leu Arg Lys Cys Arg
130              135              140

```

```

Pro Gly Phe Gly Val Ala Arg Pro Gly Thr Glu Thr Ser Asp Val Val

```

17121PCT00

145					150						155					160
Cys	Lys	Pro	Cys	Ala	Pro	Gly	Thr	Phe	Ser	Asn	Thr	Thr	Ser	Ser	Thr	
				165					170					175		
Asp	Ile	Cys	Arg	Pro	His	Gln	Ile	Cys	Asn	Val	Val	Ala	Ile	Pro	Gly	
			180					185					190			
Asn	Ala	Ser	Met	Asp	Ala	Val	Cys	Thr	Ser	Thr	Ser	Pro	Thr	Arg	Ser	
		195					200					205				
Met	Ala	Pro	Gly	Ala	Val	His	Leu	Pro	Gln	Pro	Val	Ser	Thr	Arg	Ser	
	210					215					220					
Gln	His	Thr	Gln	Pro	Thr	Pro	Glu	Pro	Ser	Thr	Ala	Pro	Ser	Thr	Ser	
225					230					235					240	
Phe	Leu	Leu	Pro	Met	Gly	Pro	Ser	Pro	Pro	Ala	Glu	Gly	Ser	Thr	Gly	
				245					250					255		
Asp	Phe	Ala	Leu	Pro	Val	Glu	Lys	Pro	Leu	Cys	Leu	Gln	Arg	Glu	Ala	
			260					265					270			
Lys	Val	Pro	His	Leu	Pro	Ala	Asp	Lys	Ala	Arg	Gly	Thr	Gln	Gly	Pro	
		275					280					285				
Glu	Gln	Gln	His	Leu	Leu	Ile	Thr	Ala	Pro	Ser	Ser	Ser	Ser	Ser	Ser	
	290					295					300					
Leu	Glu	Ser	Ser	Ala	Ser	Ala	Leu	Asp	Arg	Arg	Ala	Pro	Thr	Arg	Asn	
305					310				315						320	
Gln	Pro	Gln	Ala	Pro	Gly	Val	Glu	Ala	Ser	Gly	Ala	Gly	Glu	Ala	Arg	
				325					330					335		
Ala	Ser	Thr	Gly	Ser	Ser	Asp	Ser	Ser	Pro	Gly	Gly	His	Gly	Thr	Gln	
			340					345					350			
Val	Asn	Val	Thr	Cys	Ile	Val	Asn	Val	Cys	Ser	Ser	Ser	Asp	His	Ser	
		355					360					365				
Ser	Gln	Cys	Ser	Ser	Gln	Ala	Ser	Ser	Thr	Met	Gly	Asp	Thr	Asp	Ser	
	370					375					380					
Ser	Pro	Ser	Glu	Ser	Pro	Lys	Asp	Glu	Gln	Val	Pro	Phe	Ser	Lys	Glu	
385					390					395					400	

17121PCT00

Glu Cys Ala Phe Arg Ser Gln Leu Glu Thr Pro Glu Thr Leu Leu Gly
 405 410 415

Ser Thr Glu Glu Lys Pro Leu Pro Leu Gly Val Pro Asp Ala Gly Met
 420 425 430

Lys Pro Ser
 435

<210> 127

<211> 1347

<212> DNA

<213> Mus sp.

<400> 127

atggcgcccg cgcctctg ggtcgcgctg gtcttcgaac tgcagctgtg ggccaccggg	60
cacacagtgc ccgccaggt tgtcttgaca cctacaaac cggaacctgg gtacgagtgc	120
cagatctcac aggaatacta tgacaggaag gtcagatgt gctgtgctaa gtgtctcct	180
ggccaatatg tgaaacattt ctgcaacaag acctcggaca ccgtgtgtgc ggactgtgag	240
gcaagcatgt ataccaggt ctggaaccag ttctgtacat gtttgagctg cagttcttcc	300
tgtaccactg accaggtgga gatccgcgcc tgcactaaac agcagaaccg agtgtgtgct	360
tgccaagctg gcaggtactg cgccttgaaa acccattctg gcagctgtcg acagtgcattg	420
aggctgagca agtgcggccc tggcttcgga gtggccagtt caagagcccc aaatggaaat	480
gtgctatgca aggcctgtgc ccagggacg ttctctgaca ccacatcatc cactgatgtg	540
tgcaggcccc accgcatctg tagcatcctg gctattcccg gaaatgcaag cacagatgca	600
gtctgtgctg ccgagtcccc aactctaagt gccatcccaa ggacactcta cgtatctcag	660
ccagagccca caagatccca acccctggat caagagccag ggcccagcca aactocaagc	720
atccttacat cgttggttgc aacccccatt attgaacaaa gtaccaaggg tggcatctct	780
cttccaattg agaagccctc ctgcctacaa agagatgcca aggtgcctca tgtgcctgat	840
gagaaatccc aggatgcagt aggccttgag cagcagcacc tggtgaccac agcaccaggt	900
tccagcagca gtcctctaga gagctcagcc agcgtgggg accgaagggc gccccctggg	960
ggccatcccc aagcaagagt catggcggag gcccaagggg ttcaggaggc ccgtgccagc	1020
tccaggattt cagattcttc ccacggaagc cacgggaccc acgtcaacgt cacctgcattc	1080
gtgaacgtct gtagcagctc tgaccacagt tctcagtgt cttcccaagc cagcgccaca	1140
gtgggagacc cagatgccaa gccctcagcg tcccaaagg atgagcaggt ccccttctct	1200
caggaggagt gtccgtctca gtccccgtgt gagactacag agacactgca gagccatgag	1260

17121PCT00

aagcccttgc cccttggtgt gccggatatg ggcattgaagc ccagccaagc tggctgggttt 1320

gatcagattg cagtcaaagt ggcctga 1347

<210> 128

<211> 448

<212> PRT

<213> Mus sp.

<400> 128

Met Ala Pro Ala Ala Leu Trp Val Ala Leu Val Phe Glu Leu Gln Leu
1 5 10 15

Trp Ala Thr Gly His Thr Val Pro Ala Gln Val Val Leu Thr Pro Tyr
20 25 30

Lys Pro Glu Pro Gly Tyr Glu Cys Gln Ile Ser Gln Glu Tyr Tyr Asp
35 40 45

Arg Lys Ala Gln Met Cys Cys Ala Lys Cys Pro Pro Gly Gln Tyr Val
50 55 60

Lys His Phe Cys Asn Lys Thr Ser Asp Thr Val Cys Ala Asp Cys Glu
65 70 75 80

Ala Ser Met Tyr Thr Gln Val Trp Asn Gln Phe Arg Thr Cys Leu Ser
85 90 95

Cys Ser Ser Ser Cys Thr Thr Asp Gln Val Glu Ile Arg Ala Cys Thr
100 105 110

Lys Gln Gln Asn Arg Val Cys Ala Cys Glu Ala Gly Arg Tyr Cys Ala
115 120 125

Leu Lys Thr His Ser Gly Ser Cys Arg Gln Cys Met Arg Leu Ser Lys
130 135 140

Cys Gly Pro Gly Phe Gly Val Ala Ser Ser Arg Ala Pro Asn Gly Asn
145 150 155 160

Val Leu Cys Lys Ala Cys Ala Pro Gly Thr Phe Ser Asp Thr Thr Ser
165 170 175

Ser Thr Asp Val Cys Arg Pro His Arg Ile Cys Ser Ile Leu Ala Ile
180 185 190

Pro Gly Asn Ala Ser Thr Asp Ala Val Cys Ala Pro Glu Ser Pro Thr

17121PCT00

195	200	205
Leu Ser Ala Ile Pro Arg Thr	Leu Tyr Val Ser Gln Pro Glu Pro Thr	
210	215	220
Arg Ser Gln Pro Leu Asp Gln Glu Pro Gly Pro Ser Gln Thr Pro Ser		
225	230	235
Ile Leu Thr Ser Leu Gly Ser Thr Pro Ile Ile Glu Gln Ser Thr Lys		
245	250	255
Gly Gly Ile Ser Leu Pro Ile Glu Lys Pro Ser Cys Leu Gln Arg Asp		
260	265	270
Ala Lys Val Pro His Val Pro Asp Glu Lys Ser Gln Asp Ala Val Gly		
275	280	285
Leu Glu Gln Gln His Leu Leu Thr Thr Ala Pro Ser Ser Ser Ser Ser		
290	295	300
Ser Leu Glu Ser Ser Ala Ser Ala Gly Asp Arg Arg Ala Pro Pro Gly		
305	310	315
Gly His Pro Gln Ala Arg Val Met Ala Glu Ala Gln Gly Phe Gln Glu		
325	330	335
Ala Arg Ala Ser Ser Arg Ile Ser Asp Ser Ser His Gly Ser His Gly		
340	345	350
Thr His Val Asn Val Thr Cys Ile Val Asn Val Cys Ser Ser Ser Asp		
355	360	365
His Ser Ser Gln Cys Ser Ser Gln Ala Ser Ala Thr Val Gly Asp Pro		
370	375	380
Asp Ala Lys Pro Ser Ala Ser Pro Lys Asp Glu Gln Val Pro Phe Ser		
385	390	395
Gln Glu Glu Cys Pro Ser Gln Ser Pro Cys Glu Thr Thr Glu Thr Leu		
405	410	415
Gln Ser His Glu Lys Pro Leu Pro Leu Gly Val Pro Asp Met Gly Met		
420	425	430
Lys Pro Ser Gln Ala Gly Trp Phe Asp Gln Ile Ala Val Lys Val Ala		
435	440	445

17121PCT00

<210> 129

<211> 178

<212> DNA

<213> Homo sapiens

<400> 129

acatttgagt ttgttttctg tagctgtctg agcttctctt ttctttctag gactgattgt 60

gggtgtgaca gccttgggtc tactaataat aggagtgggtg aactgtgtca tcatgaccca 120

ggtgaaaagt aagagtccat ccttccttcc ttcattccact tgttcaggaa gcttttgt 178

<210> 130

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 130

ccacaatcag tcctag 16

<210> 131

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 131

acaatcagtc ctag 14

<210> 132

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 132

aatcagtcct ag 12

<210> 133

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

17121PCT00

oligonucleotide	
<400> 133 tcagtcctag	10
<210> 134 <211> 14 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 134 ccacaatcag tcct	14
<210> 135 <211> 12 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 135 ccacaatcag tc	12
<210> 136 <211> 10 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 136 ccacaatcag	10
<210> 137 <211> 14 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 137 cacaatcagt ccta	14
<210> 138 <211> 12 <212> DNA	

17121PCT00

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 138

cacaatcagt cc

12

<210> 139

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 139

acaatcagtc ct

12

<210> 140

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 140

caatcagttcc ta

12

<210> 141

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 141

cacaatcagt

10

<210> 142

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 142

acaatcagtc

10

17121PCT00

<210> 143
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 143
 caatcagtcc 10

<210> 144
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 144
 aatcagtcct 10

<210> 145
 <211> 10
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 145
 atcagtccta 10

<210> 146
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 146
 cagtcctaga aagaaa 16

<210> 147
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

17121PCT00

<400> 147
gtcctagaaa gaaa 14

<210> 148
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 148
cctagaaaga aa 12

<210> 149
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 149
tagaaagaaa 10

<210> 150
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 150
cagtcctaga aaga 14

<210> 151
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 151
cagtcctaga aa 12

<210> 152
<211> 10
<212> DNA
<213> Artificial Sequence

17121PCT00

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 152
 cagtcctaga 10

<210> 153
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 153
 agtcctagaa agaa 14

<210> 154
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 154
 agtcctagaa ag 12

<210> 155
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 155
 gtcctagaaa ga 12

<210> 156
 <211> 12
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 156
 tcctagaaag aa 12

17121PCT00

<210> 157
<211> 10
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 157
agtcctagaa

10

<210> 158
<211> 10
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 158
gtcctagaaa

10

<210> 159
<211> 10
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 159
tcctagaaag

10

<210> 160
<211> 10
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 160
cctagaaaga

10

<210> 161
<211> 10
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

17121PCT00

<400> 161
ctagaaagaa 10

<210> 162
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 162
acttttcacc tgggtc 16

<210> 163
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 163
ttttcacctg ggtc 14

<210> 164
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 164
ttcacctggg tc 12

<210> 165
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 165
cacctgggtc 10

<210> 166
<211> 14
<212> DNA
<213> Artificial Sequence

17121PCT00

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 166

acttttcacc tggg

14

<210> 167

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 167

acttttcacc tg

12

<210> 168

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 168

acttttcacc

10

<210> 169

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 169

cttttcacct gggt

14

<210> 170

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 170

cttttcacct gg

12

<210> 171

17121PCT00

<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 171
ttttcacctg gg 12

<210> 172
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 172
tttcacctgg gt 12

<210> 173
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 173
cttttcacct 10

<210> 174
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 174
ttttcacctg 10

<210> 175
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 175

17121PCT00

tttcacctgg 10

<210> 176
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 176
ttcacctggg 10

<210> 177
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 177
tcacctgggt 10

<210> 178
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 178
agagcagaac cttact 16

<210> 179
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of DNA/RNA hybrid: Synthetic oligonucleotide

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 179
gaacctuact 10

<210> 180
<211> 10
<212> DNA

17121PCT00

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 180

agagcagaac

10

<210> 181

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 181

gagcagaacc

10

<210> 182

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 182

agcagaacct

10

<210> 183

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of DNA/RNA hybrid: Synthetic oligonucleotide

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 183

gcagaacct

10

<210> 184

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of DNA/RNA hybrid: Synthetic oligonucleotide

<220>

17121PCT00

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 184
cagaacctua 10

<210> 185
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of DNA/RNA hybrid: Synthetic oligonucleotide

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 185
agaaccutac 10

<210> 186
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 186
ccactcctat tattag 16

<210> 187
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 187
caccactcct attatt 16

<210> 188
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 188
tggaactctta cttttc 16

17121PCT00

<210> 189
 <211> 16
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 189
 aaggatggac tcttac 16

<210> 190
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 190
 actgggcttc atcccagcat c 21

<210> 191
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 191
 caccatggcg cccgtcgccg tctgg 25

<210> 192
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 192
 cgacttcgct cttccagttg agaagccctt gtgcctgcag 40

<210> 193
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

17121PCT00

<400> 193 ttaactgggc ttcatcccag catc	24
<210> 194 <211> 40 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 194 ctgcaggcac aagggttct caactggaag agcgaagtcg	40
<210> 195 <211> 21 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 195 ttaactgggc ttcatcccag c	21
<210> 196 <211> 32 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 196 cgatagaatt catggcgccc gtcgccgtct gg	32
<210> 197 <211> 32 <212> DNA <213> Artificial Sequence	
<220> <223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 197 cctaactcga gttaactggg cttcatccca gc	32
<210> 198 <211> 39 <212> DNA <213> Artificial Sequence	

17121PCT00

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 198
 gactgagcgg ccgccaccat ggcgcccgtc gccgtctgg 39

<210> 199
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 199
 ctaagcgagg ccgcttaact gggcttcac ccagcatc 38

<210> 200
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 200
 cgttctccaa cacgacttca 20

<210> 201
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 201
 cttatcggca ggcaagtgg g 21

<210> 202
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 202
 actgaaacat cagacgtgg gtgc 24

17121PCT00

<210> 203
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 203
 ccttatcggc aggcaagtga g 21

<210> 204
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 204
 cctcatctga gaagactggg cg 22

<210> 205
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 205
 gccaccatgg gcctctccac cgtgc 25

<210> 206
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 206
 gggcactgag gactcagttt gtgggaaatc gacacctg 38

<210> 207
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

17121PCT00

<400> 207
caggtgtcga tttcccacaa actgagtcct cagtgcc 38

<210> 208
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 208
caccatgggc ctctccaccg tgc 23

<210> 209
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 209
tctgagaaga ctgggcg 17

<210> 210
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 210
cgataggatc catgggcctc tccaccgtgc 30

<210> 211
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 211
cctaactcga gtcactctgag aagactgggc g 31

<210> 212
<211> 37
<212> DNA
<213> Artificial Sequence

17121PCT00

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 212

gactgagcgg ccgccaccat gggcctctcc accgtgc

37

<210> 213

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 213

ctaagcgcgg ccgctcatct gagaagactg ggcg

34

<210> 214

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 214

ggtcaggcca ctttgactgc

20

<210> 215

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 215

caccgctgcc cctatggcg

19

<210> 216

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 216

caccgctgcc actatggcg

19

<210> 217

17121PCT00

<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 217
ggtcaggcca ctttgactgc aatc 24

<210> 218
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 218
gccaccatgg cgcccgccgc cctctgg 27

<210> 219
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 219
ggcatctctc ttccaattga gaagccctcc tgcctacaaa g 41

<210> 220
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 220
ctttgtaggc aggagggctt ctcaattgga agagagatgc c 41

<210> 221
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 221

ggccactttg actgcaatct g	21
<210> 222	
<211> 25	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 222	
caccatggcg cccgccgccc tctgg	25
<210> 223	
<211> 22	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 223	
tcaggccact ttgactgcaa tc	22
<210> 224	
<211> 32	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 224	
cgatagaatt catggcgccc gccgccctct gg	32
<210> 225	
<211> 33	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Description of Artificial Sequence: Synthetic oligonucleotide	
<400> 225	
cctaactcga gtcaggccac tttgactgca atc	33
<210> 226	
<211> 39	
<212> DNA	
<213> Artificial Sequence	
<220>	

17121PCT00

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 226
gactgagcgg ccgccaccat ggcgcccgcc gccctctgg 39

<210> 227
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 227
ctaagcgcgg ccgctcaggc cactttgact gcaatc 36

<210> 228
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 228
gagccccaaa tggaaatgtg c 21

<210> 229
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 229
gctcaaggcc tactgcatcc 20

<210> 230
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 230
ggttatcgcg ggaggcgggt cg 22

<210> 231
<211> 26

17121PCT00

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 231
gccaccatgg gtctccccac cgtgcc 26

<210> 232
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 232
cacaaccccc caggactcag ttgttaggga tcccgtagcct 40

<210> 233
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 233
aggcacggga tccctacaaa ctgagtcctg ggggtttgtg 40

<210> 234
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 234
caccatgggt ctccccaccg tgcc 24

<210> 235
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 235
tcgcgggagg cgggtcgtgg 20

17121PCT00

<210> 236
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 236
 cgatagtcga catgggtctc cccaccgtgc c 31

 <210> 237
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 237
 cctaagaatt cttatcgcg gaggcgggtc g 31

 <210> 238
 <211> 38
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 238
 gactgagcgg ccgccaccat gggctctcccc accgtgcc 38

 <210> 239
 <211> 34
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 239
 ctaagcgcgg ccgcttatcg cgggaggcgg gtcg 34

 <210> 240
 <211> 1347
 <212> DNA
 <213> Mus sp.

 <400> 240
 atggcgcccc ccgccctctg ggtcgcgctg gtcttcgaac tgcagctgtg ggccaccggg 60

17121PCT00

cacacagtgc ccgcccaggt tgtcttgaca ccctacaaac cggaacctgg gtacgagtgc	120
cagatctcac aggaatacta tgacaggaag gctcagatgt gctgtgctaa gtgtcctcct	180
ggccaatatg tgaacattt ctgcaacaag acctcggaca ccgtgtgtgc ggactgtgag	240
gcaagcatgt atacccaggt ctggaaccag ttctgtacat gtttgagctg cagttcttcc	300
tgtagcactg accaggtgga gacccgcgcc tgcactaaac agcagaaccg agtgtgtgct	360
tgcgaagctg gcaggtactg cgccttgaaa acccattctg gcagctgtcg acagtgcattg	420
aggctgagca agtgcgcccc tggcttcgga gtggccagtt caagagcccc aaatggaaat	480
gtgctatgca aggcctgtgc cccagggacg ttctctgaca ccacatcatc cacagatgtg	540
tgcaggcccc accgcatctg tagcatcctg gctattcccg gaaatgcaag cacagatgca	600
gtctgtgctc ccgagtcccc aactctaagt gccatcccaa ggacactcta cgtatctcag	660
ccagagccca caagatccca acccctggat caagagccag ggcccagcca aactccaagc	720
atccttacat cgttgggttc aacccccatt attgaacaaa gtaccaaggg tggcatctct	780
cttccaattg agaagccctc ctgcctacaa agagatgcca aggtgcctca tgtgcctgat	840
gagaaatccc aggatgcagt aggccttgag cagcagcacc tgttgactac agcaccagc	900
tccagcagca gctccctaga gagctcagcc agcgtgggg atcgaagggc gccccctggg	960
ggccatcccc aagcaagagt catggcggag gcccaagggt ctcaggaggc ccgcgccagc	1020
tccaggattt cagattcttc ccacggaagc cacgggaccc acgtcaacgt cacctgcattc	1080
gtgaacgtct gtagcagctc tgaccacagc tctcagtgtc cttcccaagc cagcgccacg	1140
gtgggagacc cagatgcca gccctcagcg tccccaaagg atgagcaggt ccccttctct	1200
caggaggagt gtccgtctca gtccccgtat gagactacag agacactgca gagccatgag	1260
aagcccttgc cccttggtgt gccagatatg ggcatgaagc ccagccaagc tggctgggtt	1320
gatcagattg cagtcaaagt ggctga	1347

<210> 241

<211> 1308

<212> DNA

<213> Homo sapiens

<400> 241

atggcgcccc tcgccgtctg ggccgcgctg gccgtcggac tggagctctg ggctgcggcg	60
cacgccttgc ccgcccaggt ggcatTTaca ccctacgccc cggagcccgg gagcacatgc	120
cggctcagag aatactatga ccagacagct cagatgtgct gcagcaaattg ctgcggggc	180
caacatgcaa aagtcttctg taccaagacc tcggacaccg tgtgtgactc ctgtgaggac	240
agcacataca cccagctctg gaactgggtt cccgagtgtc tgagctgtgg ctcccgctgt	300

17121PCT00

```

agctctgacc aggtggaaac tcaagcctgc actcgggaaac agaaccgcat ctgcacctgc 360
aggccccggct ggtactgcgc gctgagcaag caggaggggt gccggctgtg cgcgcgctg 420
cgcaagtgcc gcccggtt cggcgtggcc agaccaggaa ctgaaacatc agacgtggtg 480
tgcaagccct gtgccccggg gacgttctcc aacacgactt catccacgga tatttgcagg 540
ccccaccaga tctgtaacgt ggtggccatc cctgggaatg caagcatgga tgcagtctgc 600
acgtccacgt cccccaccg gagtatggcc ccaggggcag tacacttacc ccagccagtg 660
tccacacgat cccaacacac gcagccaact ccagaaccca gcactgctcc aagcacctcc 720
ttcctgctcc caatggggcc cagcccccca gctgaaggga gcactggcga ctctgctctt 780
ccagttgaga agcccttgtg cctgcagaga gaagccaagg tgcctcactt gcctgccgat 840
aaggccccgg gtacacaggg ccccgagcag cagcacctgc tgatcacagc gccgagctcc 900
agcagcagct ccctggagag ctgggccagt gcgttggaac gaagggcgcc cactcggaac 960
cagccacagg caccaggcgt ggaggccagt ggggccgggg agggccgggc cagcaccggg 1020
agctcagatt ctcccttg tggtcatggg acccggtca atgtcacctg catcgtgaac 1080
gtctgtagca gctctgacca cagctcacag tgctcctccc aagccagctc cacaatggga 1140
gacacagatt ccagcccctc ggagtccccg aaggacgagc aggtcccctt ctccaaggag 1200
gaatgtgcct ttcggtcaca gctggagacg ccagagaccc tgctggggag caccgaagag 1260
aagcccctgc cccttgaggt gcctgatgct gggatgaagc ccagttaa 1308

```

<210> 242

<211> 144

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic nucleotide

<400> 242

```

aagggtcaag acaattctgc agatatccag cacagtggcg gccgctcgag tctagagggc 60
ccgcggttcg aaggttaagc tatccctaac cctctcctcg gtctcgattc tacgcgtacc 120
ggtcacatc accatcacca ttga 144

```

<210> 243

<211> 16

<212> DNA

<213> artificial

<220>

<223> 16mer LNA Oligomer compound

<220>

<221> Phosphorothioate linkage

<222> (1)..(15)

<220>

<221> Position 1 = LNA and every other thereafter = LNA

<222> (1)..(16)

<220>

<221> 5'methyl-cytosine LNA at positions 1, 5 and 9

<222> (1)..(16)

<400> 243

caatcagacc taggaa

16

<210> 244

<211> 16

<212> DNA

<213> artificial

<220>

<223> 16mer LNA Oligomer compound

<220>

<221> Phosphorothioate linkage

<222> (1)..(15)

<220>

<221> Position 1 = LNA and every other thereafter = LNA

<222> (1)..(15)

<220>

<221> 5'methyl-cytosine LNA at positions 1 and 13

<222> (1)..(13)

<400> 244

ccacaatcag tcctag

16

<210> 245

<211> 14

<212> DNA

<213> artificial

<220>

<223> 14mer LNA oligomer compound

<220>

<221> Phosphorothioate linkage

<222> (1)..(13)

<220>

<221> Position 1 = LNA and every other thereafter = LNA

<222> (1)..(13)

<220>

<221> 5'methyl-cytosine LNA at positions 1, 3, 7, and 11

<222> (1)..(11)

17121PCT00

<400> 245
cacaatcagt ccta 14

<210> 246
<211> 12
<212> DNA
<213> artificial

<220>
<223> 12mer LNA oligomer compound

<220>
<221> Phosphorothioate linkage
<222> (1)..(11)

<220>
<221> Position 1 = LNA and every other thereafter = LNA
<222> (1)..(12)

<220>
<221> 5'methyl-cytosine LNA
<222> (11)..(11)

<400> 246
acaatcagtc ct 12

<210> 247
<211> 214
<212> DNA
<213> homo sapiens

<400> 247
tcctccctca cccccaccag ctccctctcc ctcccaaagc cccactcac caatggagta 60
gagcttggac ttccaccgtt ggtagcgata cattaaacca atgaagagga gggataaaag 120
gcaaagacca aagaaaatga ccaggggcaa cagcactgtg gtgcctgcag acaaagcagg 180
tgttggtcag aggagcgggc agaggggggc cgca 214

<210> 248
<211> 129
<212> DNA
<213> homo sapiens

<400> 248
ataaggaatg gtcagggaca tttgggagta actctctcat ttcattctcac ctctttttca 60
ggtgtcgatt tcccacaaac tgaggaaaaa gaaagaaagc atcataaatt tcacttcctc 120
tctcagccc 129

<210> 249
<211> 178
<212> DNA
<213> homo sapiens

17121PCT00

<400> 249
 acaaaagctt cctgaacaag tggatgaagg aaggaaggat ggactcttac ttttcacctg 60
 ggatcatgatg acacagttca ccaactcctat tattagtaga cccaaggctg tcacacccac 120
 aatcagtcct agaaagaaaa gagaagctca gacagctaca gaaaacaaac tcaaattgt 178

<210> 250
 <211> 135
 <212> DNA
 <213> Homo sapiens

<400> 250
 ccgggaagga gaccagggga agagggggag agggcagtg agacactcac caccttggct 60
 tctctctgca ggcacaaggg cttctctata aagaggagag gggacaagta agagattgac 120
 ttcctcaggc acatc

<210> 251
 <211> 14
 <212> DNA
 <213> Artificial

<220>
 <223> Oligomer compound

<220>
 <221> Phosphorothioate linkage
 <222> (1)..(13)

<220>
 <221> 1st nucleobase = LNA, then every other nucleobase = LNA
 <222> (1)..(13)

<220>
 <221> All LNA cytosine = 5-methyl cytosine
 <222> (1)..(14)

<400> 251
 acaatcagtc ctag 14

<210> 252
 <211> 12
 <212> DNA
 <213> Artificial

<220>
 <223> Oligomer compound

<220>
 <221> Phosphorothioate linkage
 <222> (1)..(11)

<220>
<221> 1st nucleobase = LNA, then every other nucleobase = LNA
<222> (1)..(11)

<220>
<221> All LNA cytosine = 5-methyl cytosine
<222> (1)..(12)

<400> 252
aatcagtcct ag

12

<210> 253
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkage
<222> (1)..(9)

<220>
<221> 1st nucleobase = LNA, then every other nucleobase = LNA
<222> (1)..(9)

<220>
<221> All LNA cytosine = 5-methyl cytosine
<222> (1)..(10)

<400> 253
tcagtcctag

10

<210> 254
<211> 14
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkage
<222> (1)..(13)

<220>
<221> 1st nucleobase = LNA, then every other nucleobase = LNA
<222> (1)..(13)

<220>
<221> All LNA cytosine = 5-methyl cytosine
<222> (1)..(14)

<400> 254
ccacaatcag tcct

14

<210> 255
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkage
<222> (1)..(11)

<220>
<221> 1st nucleobase = LNA, then every other nucleobase = LNA
<222> (1)..(11)

<220>
<221> All LNA cytosine = 5-methyl cytosine
<222> (1)..(12)

<400> 255
ccacaatcag tc

12

<210> 256
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 256
ccacaatcag

10

<210> 257
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(12)

<400> 257

cacaatcagt cc

12

<210> 258
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(12)

<400> 258
caatcagtc ta

12

<210> 259
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 259
cacaatcagt

10

<210> 260
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 260
acaatcagtc

10

<210> 261

17121PCT00

<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 261
caatcagttcc 10

<210> 262
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 262
aatcagtcct 10

<210> 263
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 263
atcagtccta 10

<210> 264
<211> 16
<212> DNA
<213> Artificial

17121PCT00

<220>

<223> Oligomer compound

<220>

<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine

<222> (1)..(16)

<400> 264

ccacaatcag tcctag

16

<210> 265

<211> 14

<212> DNA

<213> Artificial

<220>

<223> Oligomer compound

<220>

<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine

<222> (1)..(14)

<400> 265

gtcctagaaa gaaa

14

<210> 266

<211> 12

<212> DNA

<213> Artificial

<220>

<223> Oligomer compound

<220>

<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine

<222> (1)..(12)

<400> 266

cctagaaaga aa

12

<210> 267

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Oligomer compound

17121PCT00

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 267
tagaaagaaa 10

<210> 268
<211> 14
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(14)

<400> 268
cagtcctaga aaga 14

<210> 269
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(12)

<400> 269
cagtcctaga aa 12

<210> 270
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine

17121PCT00

<222> (1)..(10)

<400> 270
cagtcctaga

10

<210> 271
<211> 14
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(14)

<400> 271
agtcctagaa agaa

14

<210> 272
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(12)

<400> 272
agtcctagaa ag

12

<210> 273
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(12)

<400> 273
gtcctagaaa ga

12

<210> 274
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(12)

<400> 274
tcctagaaag aa 12

<210> 275
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 275
agtcctagaa 10

<210> 276
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 276
gtcctagaaa 10

<210> 277
<211> 10

17121PCT00

<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 277
tcctagaaag 10

<210> 278
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 278
cctagaaaga 10

<210> 279
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 279
ctagaaagaa 10

<210> 280
<211> 16
<212> DNA
<213> Artificial

<220>

<223> Oligomer compound

<220>

<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine

<222> (1)..(16)

<400> 280

ccacaatcag tcctag

16

<210> 281

<211> 14

<212> DNA

<213> Artificial

<220>

<223> Oligomer compound

<220>

<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine

<222> (1)..(14)

<400> 281

ttttcacctg ggtc

14

<210> 282

<211> 12

<212> DNA

<213> Artificial

<220>

<223> Oligomer compound

<220>

<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine

<222> (1)..(12)

<400> 282

ttcacctggg tc

12

<210> 283

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Oligomer compound

<220>

17121PCT00

```

<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
      LNA, then every other nucleobase = LNA, All LNA cytosine =
      5-methyl cytosine
<222> (1)..(10)

<400> 283
cacctgggtc 10

<210> 284
<211> 14
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
      LNA, then every other nucleobase = LNA, All LNA cytosine =
      5-methyl cytosine
<222> (1)..(14)

<400> 284
acttttcacc tggg 14

<210> 285
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
      LNA, then every other nucleobase = LNA, All LNA cytosine =
      5-methyl cytosine
<222> (1)..(12)

<400> 285
acttttcacc tg 12

<210> 286
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
      LNA, then every other nucleobase = LNA, All LNA cytosine =
      5-methyl cytosine
<222> (1)..(10)

```


17121PCT00

<400> 286
acttttcacc 10

<210> 287
<211> 14
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(14)

<400> 287
cttttcacct gggt 14

<210> 288
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(12)

<400> 288
cttttcacct gg 12

<210> 289
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(12)

<400> 289
ttttcacctg gg 12

17121PCT00

<210> 290
<211> 12
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(12)

<400> 290
tttcacctgg gt 12

<210> 291
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 291
cttttcacct 10

<210> 292
<211> 10
<212> DNA
<213> Artificial

<220>
<223> Oligomer compound

<220>
<221> Phosphorothioate linkages between nucleobases, 1st nucleobase =
LNA, then every other nucleobase = LNA, All LNA cytosine =
5-methyl cytosine
<222> (1)..(10)

<400> 292
ttttcacctg 10

<210> 293
<211> 10
<212> DNA

<213> Artificial

<220>

<223> Oligomer compound

<220>

<221> Phosphorothioate linkages between nucleobases, 1st nucleobase = LNA, then every other nucleobase = LNA, All LNA cytosine = 5-methyl cytosine

<222> (1)..(10)

<400> 293

tttcacctgg

10

<210> 294

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Oligomer compound

<220>

<221> Phosphorothioate linkages between nucleobases, 1st nucleobase = LNA, then every other nucleobase = LNA, All LNA cytosine = 5-methyl cytosine

<222> (1)..(10)

<400> 294

ttcacctggg

10

<210> 295

<211> 10

<212> DNA

<213> Artificial

<220>

<223> Oligomer compound

<220>

<221> Phosphorothioate linkages between nucleobases, 1st nucleobase = LNA, then every other nucleobase = LNA, All LNA cytosine = 5-methyl cytosine

<222> (1)..(10)

<400> 295

tcacctgggt

10