

BIOL0251WSEQ_ST25
SEQUENCE LISTING

<110> Isis Pharmaceuticals

<120> COMPOSITIONS AND METHODS FOR MODULATING COMPLEMENT FACTOR B
EXPRESSION

<130> BIOL0251WO

<150> 62/076,273

<151> 2014-11-06

<150> 61/987,471

<151> 2014-05-01

<160> 854

<170> PatentIn version 3.5

<210> 1

<211> 2646

<212> DNA

<213> Homo sapiens

<400> 1

gacttctgca gtttctgttt ccttgactgg cagctcagcg gggccctccc gcttggatgt	60
tccgggaaag tgatgtgggt aggacaggcg gggcgagccg caggtgccag aacacagatt	120
gtataaaagg ctgggggctg gtggggagca ggggaaggga atgtgaccag gtctaggtct	180
ggagtttcag cttggacact gagccaagca gacaagcaaa gcaagccagg acacaccatc	240
ctgccccagg cccagcttct ctctgcctt ccaacgccat ggggagcaat ctgagcccc	300
aactctgcct gatgcccttt atcttgggcc tcttgtctgg aggtgtgacc accactccat	360
ggtctttggc ccggccccag ggatcctgct ctctggaggg ggtagagatc aaaggcggct	420
ccttccgact tctccaagag ggccaggcac tggagtacgt gtgtccttct ggcttctacc	480
cgtaccctgt gcagacacgt acctgcagat ctacggggtc ctggagcacc ctgaagactc	540
aagaccaaaa gactgtcagg aaggcagagt gcagagcaat ccaactgtcca agaccacacg	600
acttcgagaa cggggaatac tggccccggt ctccctacta caatgtgagt gatgagatct	660
ctttccactg ctatgacggt tacactctcc ggggctctgc caatcgcacc tgccaagtga	720
atggccgatg gagtgggcag acagcgatct gtgacaacgg agcgggggtac tgctccaacc	780
cgggcatccc cattggcaca aggaagggtg gcagccagta ccgccttgaa gacagcgtca	840
cctaccactg cagccggggg cttaccctgc gtggctccca gcggcgaacg tgtcaggaag	900
gtggctcttg gagcgggacg gagccttcct gccaagactc cttcatgtac gacaccctc	960
aagaggtggc cgaagctttc ctgtcttccc tgacagagac catagaagga gtcgatgctg	1020
aggatgggca cggcccaggg gaacaacaga agcggaagat cgtcctggac ccttcaggct	1080
ccatgaacat ctacctggtg ctagatggat cagacagcat tggggccagc aacttcacag	1140
gagccaaaaa gtgtctagtc aacttaattg agaaggtggc aagttatggt gtgaagccaa	1200
gatatggtct agtgacatat gccacatacc caaaatttg ggtcaaagtg tctgaagcag	1260
acagcagtaa tgcagactgg gtcacgaagc agtcaatga aatcaattat gaagaccaca	1320

BIOL0251WSEQ_ST25

agttgaagtc	agggactaac	accaagaagg	ccctccaggc	agtgtacagc	atgatgagct	1380
ggccagatga	cgtccctcct	gaaggctgga	accgcacccg	ccatgtcatc	atcctcatga	1440
ctgatggatt	gcacaacatg	ggcggggacc	caattactgt	cattgatgag	atccgggact	1500
tgctatacat	tggcaaggat	cgcaaaaacc	caagggagga	ttatctggat	gtctatgtgt	1560
ttggggctcg	gcctttggtg	aaccaagtga	acatcaatgc	tttggcttcc	aagaaagaca	1620
atgagcaaca	tgtgttcaaa	gtcaaggata	tggaaaacct	ggaagatggt	ttctaccaaa	1680
tgatcgatga	aagccagtct	ctgagtctct	gtggcatggg	ttgggaacac	aggaagggtg	1740
ccgattacca	caagcaacca	tggcaggcca	agatctcagt	cattcgccct	tcaaagggac	1800
acgagagctg	tatgggggct	gtggtgtctg	agtactttgt	gctgacagca	gcacattggt	1860
tcactgtgga	tgacaaggaa	cactcaatca	aggtcagcgt	aggaggggag	aagcgggacc	1920
tggagataga	agtagtccta	tttcacccca	actacaacat	taatgggaaa	aaagaagcag	1980
gaattcctga	attttatgac	tatgacgttg	ccctgatcaa	gctcaagaat	aagctgaaat	2040
atggccagac	tatcaggccc	atgtgtctcc	cctgcaccga	gggaacaact	cgagctttga	2100
ggcttcctcc	aactaccact	tgccagcaac	aaaaggaaga	gctgctccct	gcacaggata	2160
tcaaagctct	gtttgtgtct	gaggaggaga	aaaagctgac	tcggaaggag	gtctacatca	2220
agaatgggga	taagaaaggc	agctgtgaga	gagatgctca	atatgcccc	ggctatgaca	2280
aagtcaagga	catctcagag	gtggtcacc	ctcggttcct	ttgtactgga	ggagtgagtc	2340
cctatgctga	ccccataact	tgcagagggt	attctggcgg	ccccttgata	gttcacaaga	2400
gaagtcgttt	cattcaagtt	ggtgtaatca	gctggggagt	agtggatgtc	tgcaaaaacc	2460
agaagcggca	aaagcaggta	cctgctcacg	cccagacttt	tcacatcaac	ctctttcaag	2520
tgctgccctg	gctgaaggag	aaactccaag	atgaggattt	gggttttcta	taaggggttt	2580
cctgctggac	aggggcgtgg	gattgaatta	aaacagctgc	gacaacaaaa	aaaaaaaaaa	2640
aaaaaa						2646

<210> 2
 <211> 9001
 <212> DNA
 <213> Homo sapiens

<400> 2						
ggaggtgagg	gtctcagggt	ggggatgctg	ggatccccct	gtgacagctc	ccagaatgtc	60
tctcttcctt	ctccagggtc	ggctgctttc	tctctctgac	gcgggtcacc	cctcctccca	120
agcctcacia	acctgctagg	tgtccctggg	tctgcttatt	ctttttttgt	tgttattgag	180
atggagtctt	gctctgtctc	ccaggctgga	gtgcagtggc	acgacctcag	ctcactgcaa	240
cttctgcctc	ctgggttcaa	gcgattctcc	tacttcagcc	tcccagtag	ctgagattac	300
aggtgcccac	caccacacca	gctaattttt	gtatttttag	tagagacggg	atttcgccat	360
gttgccagg	atggtcttga	actcctgacc	tcaagtgatc	tgctgcctc	aacctcccaa	420

BIOL0251WSEQ_ST25

agtgctgaga	ttacaggcgt	gagccactgc	acccacccgg	gtctgcttat	tctacccttc	480
tctctggttc	caccctgtct	gcagtggaca	agctgtgccg	aggttgtctc	ccaagaaaaa	540
accatgttcc	ccaacttgac	agatgtcagg	gaggtggtga	cagaccagtt	cctatgcagt	600
gggacccagg	aggatgagag	tccctgcaag	ggtgagtccc	tcaccatgcc	tggattccca	660
aggggaaggc	cacctgtgtc	tctgtggcca	gcatgcatgc	cagaacacca	gtccactgcc	720
ctagatgaca	ctgtctcctg	tcaccctttg	ctggcaggag	aatctggggg	agcagttttc	780
cttgagcggg	gattcagggt	ttttcagggt	agaaggtaga	agcttgccagg	accagggggt	840
tacaggatct	cagccttggt	gggggggatga	gggaggcctt	tgagggatct	agggaggttg	900
gggcttacag	ttggggctgt	ggcagcctcc	cagccagttc	tctccttttc	tccagggtggg	960
tctggtgagc	tggggtcttt	acaacccctg	ccttggtctc	gctgacaaaa	actcccgcaa	1020
aagggccctt	cgtagcaagg	tcccgcgcgc	acgagacttt	cacatcaatc	tcttccgcat	1080
gcagccctgg	ctgaggcagc	acctggggga	tgtcctgaat	tttttaccct	tctagccatg	1140
gccactgagc	cctctgtctc	cctgccagaa	tctgccgccc	ctccatcttc	tacctctgaa	1200
tggccaccct	tagaccctgt	gatccatcct	ctctcctagc	tgagtaaata	cgggtctcta	1260
ggatgccaga	ggcagcgcac	acaagctggg	aaatcctcag	ggctcctacc	agcaggactg	1320
cctcgtgcc	ccacctcccg	ctccttggcc	tgtccccaga	ttccttccct	ggttgacttg	1380
actcatgctt	gtttcacttt	cacatggaat	ttcccagtta	tgaaattaat	aaaaatcaat	1440
ggtttccaca	tctctcagtg	cctctatctg	gaggccaggt	agggctggcc	ttgggggagg	1500
gggaggccag	aatgactcca	agagctacag	gaaggcaggt	cagagacccc	actggacaaa	1560
cagtggctgg	actctgcacc	ataacacaca	atcaacaggg	gagtgcagctg	gacccctatt	1620
tctggtccct	aagtgggtgg	tttgggctta	ctggggagga	gctaaggccg	gagaggaggt	1680
actgaagggg	agagtcctgg	acctttggca	gcaaaggggtg	ggacttctgc	agtttctggt	1740
tccttgactg	gcagctcagc	ggggccctcc	cgcttggtatg	ttccgggaaa	gtgatgtggg	1800
taggacaggc	ggggcgagcc	gcagggtgcca	gaacacagat	tgtataaaaag	gctgggggct	1860
ggtggggagc	aggggaaggg	aatgtgacca	ggtctaggtc	tggagtttca	gcttgagcac	1920
tgagccaagc	agacaagcaa	agcaagccag	gacacaccat	cctgccccag	gcccagcttc	1980
tctcctgcct	tccaacgcca	tggggagcaa	tctcagcccc	caactctgcc	tgatgccctt	2040
tatcttgggc	ctcttgctctg	gaggtaagcg	agggtaacct	tcccttctctg	ctgtctccag	2100
catccctcct	tggccttttg	gggccaggct	tcacagcct	ttctcttcag	gtgtgaccac	2160
cactccatgg	tctttggccc	ggccccaggg	atcctgctct	ctggaggggg	tagagatcaa	2220
aggcggctcc	ttccgacttc	tccaagaggg	ccaggcactg	gagtacgtgt	gtccttctgg	2280
cttctacccg	taccctgtgc	agacacgtac	ctgcagatct	acggggctct	ggagcacctt	2340
gaagactcaa	gacaaaaaga	ctgtcaggaa	ggcagagtgc	agaggtttga	gggcaatgag	2400
tgtgggcagt	ggcctaaggc	agaaacaggg	caggcggcag	caaggtcagg	actaggatga	2460

BIOL0251WSEQ_ST25

gactaggcag	ggtgacaagg	tgggctgacc	gggagtagga	gcagtttttag	ggtggcaggc	2520
ggaaaggggg	caagaaaaag	cggagttaac	ccttactaag	cattttaccct	gggcttccag	2580
gcagccctgg	aagtcaagag	aacactcaga	aatggggagg	gagaagcagt	ggaaatccat	2640
atggggttgag	gagtaggtaa	gatgctgctt	ctgcgggact	gggaatgcgc	tgttttctcag	2700
tgacatggtc	tccgagacca	ggagggatac	acctaaggca	gcctttccct	cttgatgact	2760
tctacttgtc	cccccttctc	aaagcaatcc	actgtccaag	accacacgac	ttcgagaacg	2820
gggaatactg	gccccggtct	ccctactaca	atgtgagtga	tgagatctct	ttccactgct	2880
atgacggtta	cactctccgg	ggctctgcca	atcgcacctg	ccaagtgaat	ggccgatgga	2940
gtgggcagac	agcgatctgt	gacaacggag	gtgagaagca	tcccctcccc	ctacattgct	3000
gtctccctga	cggcgcccag	cccgaggagt	gggcactcgg	ctccggacac	tgtaactctt	3060
gctctctacc	ttgctcacgg	ggcctcaggc	ttcagtgtct	acctcgatgt	ctcatacctc	3120
tgcagcgggg	tactgtctca	acccgggcat	ccccattggc	acaaggaagg	tgggcagcca	3180
gtaccgcctt	gaagacagcg	tcacctacca	ctgcagccgg	gggcttacc	tgcgtaggctc	3240
ccagcggcga	acgtgtcagg	aagggtggctc	ttggagcggg	acggagcctt	cctgccaaagg	3300
tgacctttga	cctgtacccc	caggtcagat	cctgggtcttc	catcctactg	tcttctctcc	3360
ccacctcaac	cctgtctctt	cctcactttg	tttaaacctc	cctgtacaac	tatctcactt	3420
ctgagccttt	tataccctgg	aaacccatga	tccccgtct	ctttgggtcac	tgtatccctg	3480
acactcccag	acatttgacc	tcattttctga	ctctcccaga	ctccttcatg	tacgacaccc	3540
ctcaagaggt	ggccgaagct	ttcctgtctt	ccctgacaga	gaccatagaa	ggagtcgatg	3600
ctgaggatgg	gcacggccca	ggtttgaaga	cagagaaggg	aggcagggca	gggaactggg	3660
ggaaaatgga	gaagggacag	aactgttaat	gctggagcct	gagccactct	cctggcaccc	3720
aggggaacaa	cagaagcgga	agatcgctct	ggacccttca	ggctccatga	acatctacct	3780
ggtgctagat	ggatcagaca	gcattggggc	cagcaacttc	acaggagcca	aaaagtgtct	3840
agtcaactta	attgagaagg	tggaatcctc	ctatccctga	actcggggga	atggaatctc	3900
gctgatcttc	caggactagc	tccctgatca	ttccagcccc	tctgaacaac	agggccccag	3960
gaaaatctcc	aggtcctatt	ctgtcctcct	tccctttttac	ttgaagcagt	ttcttgactg	4020
gtaattcctc	catgaacctc	agcccttgag	cctcttactg	agagcctccc	tgtcccagca	4080
aagtcgctga	aatctcccaa	tcacagtatt	ctattttcaa	tgccatggcg	ccttgttctc	4140
ctcacccaca	ggtggcaagt	tatggtgtga	agccaagata	tggtctagt	acatatgcc	4200
cataccccaa	aatttggggtc	aaagtgtctg	aagcagacag	cagtaatgca	gactgggtca	4260
cgaagcagct	caatgaaatc	aattatgaag	gtcagagggt	agggaatgg	gggaggttca	4320
ctttgggggtc	aggaggttca	gggtggaggg	ggtcatgaga	ctaccttgag	ggcgacaggg	4380
aggaccactt	tgtagtcaaa	agttgaacag	caggatcggt	gggcaatgga	ggttagtggg	4440
aacctgttgg	gggctggaag	ggccactttg	tggtcaaagg	gaagtccgtg	taatgatgat	4500

BIOL0251WSEQ_ST25

taacttaaaa	agttgaaaga	tgtgggattt	cagttgcaga	ttgggtctctg	gggttaaaaag	4560
atggcttgga	agaccaggtg	aggtgatggg	ctcttccttc	tccacagacc	acaagttgaa	4620
gtcagggact	aacaccaaga	aggccctcca	ggcagtgtac	agcatgatga	gctggccaga	4680
tgacgtccct	cctgaaggct	ggaaccgcac	ccgccatgtc	atcatcctca	tgactgatgg	4740
tcagaaggga	cctctctcct	gtcccagcct	ccccaccttc	tcagaccagc	atgtggccct	4800
taagtccact	tgtaacacta	tacccatggg	tggggccctg	aatgtgactc	atagctggct	4860
gttcatctct	cctgtgacct	ttcataagga	attcttccta	agccctgtga	tcaactatct	4920
ctaacccttc	ctcaacttgc	tcaccctgcc	atgtgtatcc	ctgcctttag	ccagtttatc	4980
ttccttatct	cctaccctca	tggctcctgtc	tcttctgcag	gattgcacaa	catgggcggg	5040
gaccaatta	ctgtcattga	tgagatccgg	gacttgctat	acattggcaa	ggatcgcaaa	5100
aaccaaggga	aggattatct	gggtgagtaa	cctgcctagg	accagcacc	ccacttcctc	5160
agggcttgga	ccctcatcct	tcctttttat	ccctcagatg	tctatgtgtt	tggggctcggg	5220
cctttgggtga	accaagtga	catcaatgct	ttggcttcca	agaaagacaa	tgagcaacat	5280
gtgttcaaag	tcaaggatat	ggaaaacctg	gaagatgttt	tctaccaa	gatcggtagg	5340
gagatacaag	ggaataaaga	acacaactct	cctcagggtc	ccctgaagta	attcattctt	5400
cctctacacc	tgaagctcta	gttgccctgga	aagccttctt	cattcctcct	tctctacctc	5460
agtgtcacta	ttcttgtttc	ctggcactgt	tcacttaacc	ttagaatcac	agagctctga	5520
gcacttcaga	gatctttcta	tagtcctaca	tttgacacgt	ggaaacagaa	gccaaaggag	5580
gtcaagggac	agcaagttag	caacaagggt	gggcttgaaa	acagccaggc	ctctgacagc	5640
ttgatcccaa	gttctttccc	ttttcagtc	accatagcag	ttttctccta	acacgaggaa	5700
acaaataccc	gtgggtctttc	cctttctcct	tttgggcctt	tgctcccat	agactcctac	5760
ccaaaaggct	gctgccattt	gggaatgaag	tgttccgagt	tttcagcaca	ttctccttct	5820
ctgccagatg	aaagccagtc	tctgagtctc	tgtggcatgg	tttgggaaca	caggaagggt	5880
accgattacc	acaagcaacc	atggcaggcc	aagatctcag	tcattgtaag	cacagaatcc	5940
cagtagtggg	gacttggggg	aggtgagggtc	aaggtgaaat	gggagtaggg	gaaggaaaaa	6000
atggccataa	gagatgggtg	tttgtgaaag	ttgagctttc	cctctctact	gttgtgtccc	6060
cagcgccctt	caaagggaca	cgagagctgt	atgggggctg	tggtgtctga	gtactttgtg	6120
ctgacagcag	cacattgttt	cactgtggat	gacaaggaac	actcaatcaa	ggtcagcgta	6180
ggtaaggatg	caactgaagg	tcctgggctg	cacctatgct	ctccaggcaa	cacctccac	6240
tttctacaga	tcctacactc	cacccatcct	caatgcagcc	ccattccttg	caccccagac	6300
cagtcaggga	tgggggaaga	cgtgaagtta	ggaatgacac	ggggccagag	gcaggaagct	6360
gccacaaaag	aggtgggtacc	tactctccta	cttcaggagg	ggagaagcgg	gacctggaga	6420
tagaagtagt	cctatttcac	cccaactaca	acattaatgg	gaaaaaagaa	gcaggaattc	6480
ctgaatttta	tgactatgac	gttgccctga	tcaagctcaa	gaataagctg	aaatatggcc	6540

BIOL0251WSEQ_ST25

agactatcag	gtgagagcgt	ccagatccct	gaggaaaggc	tgggaaaggc	tggaggactg	6600
gggtgaggag	caggcctggt	ttgctgttct	ccttgtcctt	tataggccca	tttgtctccc	6660
ctgcaccgag	ggaacaactc	gagctttgag	gcttcctcca	actaccactt	gccagcaaca	6720
aagtaagaca	tacttggcaa	gaggataagg	atgagatccc	aagagacaag	tggggcatga	6780
gagggaggtg	caataggaag	agatgatgcc	tggcccagaa	cctagctcta	gaagggctta	6840
ggggacatct	actgagtgac	aaaggcaatg	gggagatgac	agtgggtggga	gcagctgaag	6900
tgacgcagtc	tattcgtcca	gaggaagagc	tgctccctgc	acaggatatc	aaagctctgt	6960
ttgtgtctga	ggaggagaaa	aagctgactc	ggaaggaggt	ctacatcaag	aatggggata	7020
aggtgagaaa	cgggcatcct	aaggaggcac	tctaggcccc	aatccttcct	aagccacttc	7080
tgttcattac	ttctccatgc	ttccccacctc	ccctacagaa	aggcagctgt	gagagagatg	7140
ctcaatatgc	cccaggctat	gacaaagtca	aggacatctc	agaggtggtc	accctcgggt	7200
tcctttgtac	tggaggagtg	agtccctatg	ctgaccccaa	tacttgcaga	ggtgagagaa	7260
tgctctttgg	ttgtgctaca	agtgcccaag	gccaacagt	ccttttctct	acagcttctc	7320
ctctccttgc	aggtgattct	ggcgggcccct	tgatagtcca	caagagaagt	cgtttcattc	7380
aagtgagtc	tccctttcct	atctggggag	atgccaagt	gtcagcatgg	gccccaaagc	7440
aggaaagctc	aatgcatgtg	gctagtaatt	cgaggtaggc	agagcctgcc	tcaccttagg	7500
accgcatgtc	ttgcctgcgt	gtgtcaagaa	cgaggctgag	ctgggtccct	agtctgattc	7560
ctttaggtca	gctaagacac	aagcaggaac	agccatgctt	ccaggattag	gaattctact	7620
gaatgatcca	tggcacccca	ctgcctctgc	aggttgggtg	aatcagctgg	ggagtagtgg	7680
atgtctgcaa	aaaccagaag	cggcaaaaagc	aggtacctgc	tcacgcccga	gactttcaca	7740
tcaacctctt	tcaagtgctg	ccctggctga	aggagaaact	ccaagatgag	gatttggggt	7800
ttctataagg	ggtttcctgc	tggacagggg	cgtagggattg	aattaaaaca	gctgcgacaa	7860
cacctgtgtt	ccagatcctt	ttggggcaag	ggagtgggga	acaggcactg	gccatgttgt	7920
tacactgaga	tcaaacctga	cagccgtttt	taaaggttta	accccaatcc	caagtgtctga	7980
aaaaccagag	gctgagggag	atgtgtaagc	ttccacctca	gtgttttact	gagaccagca	8040
ttggggcata	tgaggcacia	ggaatccagc	tctgttcctt	agaagccatc	cacaagggtt	8100
tccttgtaga	cgatcatcact	gtagacaatc	tgggtcctct	tgtcccgggtg	gcaaccctta	8160
gggctgttct	ggacagctag	ggagggagga	gaggaacagt	taaggtctaa	aggagatcat	8220
agaacagacc	ctgaggctga	ctcctgacca	cctcactcct	ggccactggc	ccctggaagc	8280
ccagtttcca	cgctgccctc	tgggtggccag	gatggcctgt	cttccttagc	tcctttgtgc	8340
caacctatgg	ccaagaaaag	tataagtgga	cattttgatg	aatgttttgt	tcttagaaaa	8400
atcccaaag	tcattgttga	gacacgtgaa	tgatattaac	ccactactta	cagtcagtat	8460
gtcagaagct	aaaaactaga	aaacctctgt	agcccttttt	tgacatgctg	gtcaattcta	8520
gttcctttct	tttgcctgaa	gggccactgt	agctgagccc	ttctttctgc	tcactccttt	8580

BIOL0251WSEQ_ST25

cccaggaaaa	tctactttca	gggaaaatgg	attattcaca	ctaagaaatg	ctactagctc	8640
caccagaact	cattcagggg	gtagcttttg	ccctcaccat	tctctctcaa	gcctctagct	8700
gtttcttccc	cttctctttt	cctccctcca	ccagacatgt	tactctcttc	accccatcca	8760
atggttccat	ccccaccacc	cttgagctac	agagaatctc	tctcaccac	tcccatcctg	8820
tgatctctgt	gcctcaacac	tgctggctac	tccctctttc	tcaaagtgtg	tgctcttttg	8880
cttcagtggc	ccaggccctt	gcggtgctgc	tcccagccct	ccgaccctc	ctcctgtctc	8940
ctttgctaac	gttaggctca	acgttagcct	aacatgtcag	gacagctggg	gacatgtggg	9000
g						9001

<210> 3
 <211> 9001
 <212> DNA
 <213> Macaca mulatta

<400> 3						
gatggaatct	tgctctgtct	cccacactgg	agtgcagtgg	cacgatcttg	gtcactgcg	60
acttctgcct	cccagattta	agtgattctc	ctacctcggc	ctcccaagta	gctgggatta	120
taggtgcttg	ccaccacatg	cagctaattt	ttgtattttt	agtagagaca	ggattccgcc	180
atgttggcca	ggatgggtctt	gaactcctga	cctcaagtga	ttcgcccacc	tcagcctccc	240
aaactgctgg	gattacaggc	gtgagccatt	gcaccagtc	aggtctgctt	attcttccct	300
tctctctggg	tccaccctta	cggcagtggg	caagctgtgc	cgaggctcgtc	tcccaagaaa	360
aaaccatgtt	ccccaaacttg	acagatgtca	gggaggtggg	gacagaccag	tttctatgca	420
gtgggaccca	ggaggatgag	agtccctgca	agggtagagtc	cctcaccatg	cctggattcc	480
caaaggggaa	ggccacctgt	gtctctgtgg	ccagggtgca	tgccagaaca	ccagtccact	540
gccctgtatg	acgctgtctc	ctgtcaccct	ttgctggcag	gagaatctgg	gggagcagtt	600
ttccttgagc	ggagattcag	gtttttttcag	gtgagaaggt	ggaagcttgc	aggacccagg	660
ggttacagga	tgctcagcctt	gttggggggg	tgaggggaggc	ctttgaggga	tctagggagg	720
ttggggctta	cagctggagc	tgtggcagcc	tcccagccag	ttctctcctt	ttctccaggt	780
gggtctggtg	agctgggggtc	tttacaaccc	ctgccttggc	tctgctgaca	aaaactcccg	840
caaaagggcc	cctcgtagca	aggtcccggc	gccacgagac	tttcacatca	atctcttccg	900
catgcagccc	tggctgaggc	agcacctggg	ggatgtcctg	aatttttttac	cccttttagtc	960
atggccactg	agccctctgc	tgtcctgtta	gaatccgccc	cccctccatc	ttctacctct	1020
gaatgcccac	ccttagactc	tgtgacccat	gctgtctcct	agttgagtaa	atctgggtct	1080
ctaggatgcc	aggggcagcg	cacacaagct	gggaaatcct	cagggtctcct	accagcggga	1140
ctgcctcgct	gccccacctc	ccgctccttg	gcctgtcccc	aaattcctcc	cctgggtgac	1200
ttgactcatg	ctcatttcac	tttcatatgg	aatttcccag	ttatgaaatt	aataaaaatc	1260
agtggtttcc	acatctgtct	gtgactctat	ctggaggcca	ggtagggctg	gcctgggggg	1320
aaggggaggc	cagaatgact	ccaagagcca	caggaaggca	ggtcagagac	cccactggac	1380

BIOL0251WSEQ_ST25

aaacagtggc	tggactctgt	accataacac	acaagcaaca	ggggagtgag	ctggatcctt	1440
atttctggtc	cctaagtggg	tggctctgggc	ttgctgggga	ggagctgagg	ccagaaggag	1500
gtactgaagg	ggagagtcct	ggaccttggg	cagcaaaggg	tgggacttct	gcagtttctg	1560
cttccttgac	tggcagctca	gcggggccct	cccgtctgga	tgttccggga	aagtgatgag	1620
ggtaggacag	gcggggcaag	ctgcagggtg	cagaacacag	attgcataaa	agggcgggag	1680
ctggtggggg	gcaggggaag	ggaatgtgac	cagggtctagg	tctggagttt	cagcttggac	1740
actgagctaa	gtagacaagc	aaaacaagcc	aggacacgcc	atcctgcccc	agggccagct	1800
tctctcctgc	cttctaacgc	catgggggagc	agtctcagcc	cccagctcta	cctgatgccc	1860
ttcatcttgg	gcctcttata	tggaggtaag	tgagggtaac	cttcccttcc	tgctgtcccc	1920
agcatccctc	cttggccctt	tggggccagg	cttcatcagc	ctttctcttc	aggtgtgacc	1980
accactccat	tgtcttcggc	ccagcctcaa	ggatcctgct	ctctggaggg	ggtagagatc	2040
aaaggtggct	ccttccgact	tctccaagag	ggccaggcac	tggaatacgt	gtgtccttct	2100
ggcttctacc	cgtaccctgt	gcagacacgt	acctgcagat	ccacgggggc	ctggagcacc	2160
ctgcagactc	aagatcgaaa	aactgtcaag	aaggcagagt	gcagagggtt	gaggggcaatg	2220
agtgtgggca	gtggcctaag	ggagaaacag	ggcagatggc	agcaagggtca	ggactaggat	2280
gagactaggc	aggggtgaaa	ggtgggctga	ccaggagtag	gagcagtttt	agggttgtag	2340
agggaaagga	agggaaaaaa	aaaggggagt	taacctttag	taagcattta	ccctgggctt	2400
ccacgcagcc	ctggaagtca	agagaacact	cagcaatggg	gagggaggag	cagcggaaac	2460
ccctatgggt	tgaagggtag	gtaagatgca	gcttctgcag	gactgggaat	gctctgtttc	2520
tcagtgacct	ggtctctgag	accaggaggg	aaacacctaa	ggcagccttt	ccctcttaat	2580
gacttctact	tctccctct	tctcaaagca	atccgctgtc	cacgaccaca	ggacttcgag	2640
aacggggaat	accggccccg	gtctccctac	tacaatgtga	gtgatgagat	ctctttccac	2700
tgctatgacg	gttacctct	ccggggctct	gccaatcgca	cctgccaagt	gaatggccgg	2760
tggagtgggc	agacagcgat	ctgtgacaac	ggaggtgaga	agcatcctct	ccccccacat	2820
tgctgtctcc	ctgacagcgc	ctagcctgag	gagtgggcat	ttgcccccg	acactgtaac	2880
tcttgctctc	taccttgccc	tcggggcctc	aggcttcagc	gcttacctcc	atgtctcatg	2940
cctctgcagc	ggggtactgc	tccaaccacg	gcatccccat	tggcacaagg	aaggtgggca	3000
gccggtaccg	ccttgaagac	agcgtcacct	accactgcag	ccgggggctt	accctgcgtg	3060
gctcccagcg	gcgaacatgt	caggaagggtg	gctcttggag	cgggacggag	ccttcctgcc	3120
aaggtgaccc	ttgacctgta	cccccagggtc	agatcctgat	cttgcatcct	actgtcttct	3180
ctccccacct	caaccctgct	ctttcctcac	ttcttttaaa	ccttcctcta	gaactgtctc	3240
acttctgagc	cttttctacc	ctggaaaccc	acaatcccct	gtctctttgg	tcactgtgtc	3300
cctgacactc	ccagacattt	gacctcattt	ctgactctcc	cagactcctt	catgtacgac	3360
accctcaag	aggtggccga	agctttcctg	tcttccctga	cggagaccat	agaaggagtc	3420

BIOL0251WSEQ_ST25

gatgccgagg	atgggcacag	cccaggtttg	aaggcagaga	ggggaggcaa	ggcagggaac	3480
tgggggaaaa	tggagaaggg	acaagataat	cgttcatgct	ggagcctgag	tcactctcct	3540
ggcaccagg	ggaacaacag	aagcggagga	tcatcctaga	cccttcaggc	tccatgaaca	3600
tctacctggt	gctagatgga	tcagacagca	ttggggccgg	caacttcaca	ggagccaaaa	3660
agtgtctagt	caacttaatt	gagaagggtg	agtcctccta	tccctgaact	tgggggaatg	3720
gaatcttgct	gatcttccag	gactagctcc	ctgatcattc	cagcccctct	gaaccgcagg	3780
gccccaggaa	agtctccagg	tcctattctg	tcctccttcc	cttgtagctg	attcctccat	3840
gaacctgtgc	ttgagcctct	tcctaagagc	ctccctgtcc	cagcaacggt	gctgaagtct	3900
cccaatcaca	gtattctact	ttcaatgcca	tggcgccttg	ttctcctcac	ccacagggtg	3960
caagttatgg	tgtgaagcca	agatatgctc	tagtgacata	tgccacatac	cccagaattt	4020
gggtcaaagt	gtctgaccaa	gagagcagca	atgcagactg	ggtcacgaag	aagctcagtg	4080
aatcaatta	tgaaggctcag	aggttaggga	atggtgggag	gttcactttg	gggtcaggag	4140
gttcaggagt	gttgtgtgga	gggggtcatg	agactacctt	gagggaaca	gggggaccac	4200
tttgtagtca	aaggttgaac	agcaggatca	ttgggcaatg	gaggttagt	ggaacctgct	4260
gagggtgga	agggccactt	tgtggtcaaa	gggaagtcca	tatgatgatt	aacttaaaaa	4320
gttgaagatg	tgagatttca	gttgcagatt	ggtctctggg	gttaaaagat	ggcttggaag	4380
accagggtgag	gcatgtctct	cttcctccc	cacagaccac	aagttgaagt	cagggaactaa	4440
caccaagagg	gccctccagg	cagtgtacag	catgatgagt	tggccagagg	acatccctcc	4500
tgaaggctgg	aaccgcaccc	gccatgtcat	catcctcatg	accgatggtc	agaagggacc	4560
tctctcctgt	cccagcctcc	ccaccttctc	agaccagcat	gtggccctta	agtccacttg	4620
taacactata	cccatggttg	gggccctgaa	tgtgactcgt	aactggctgt	tcactctctcc	4680
tgtgaccctt	cataaagaat	tattcctaaa	gccctgtgat	caactacctc	taacccttcc	4740
tcaacttact	caccctgcca	cgtgtatcac	tgcctctagc	caatttatct	tatctcctac	4800
cctcatggtc	ccgtctcttc	tgcaggattg	cacaacatgg	gcggggaccc	aattactgtc	4860
attgatgaga	tccgggactt	gttatacatc	ggcaaggatc	gtaaaaaccc	gagggaggat	4920
tatctgggtg	agtaacctgc	ctaggaccca	gcaccctact	tcctcagggc	ttggaccgtc	4980
atccttcctt	tttctccctc	agatgtctat	gtgtttgggg	ttggaccttt	ggtggaccaa	5040
gtgaacatca	atgctttggc	ttccaagaaa	gacaatgagc	aacatgtgtt	caaagtcaag	5100
gatatggaaa	acctggaaga	cgttttcttc	caaagtattg	gtaggcagac	acaagggaat	5160
caagaacgca	actctcctca	gcttcccctg	aaataattca	ttcttcctct	accctgaag	5220
ctctagttgc	ctggaaagcc	ttcttcattc	ctccttctct	acctcagtat	cactattctt	5280
gtttcctggc	actgtttgct	tcttaacctt	agaatcacag	agctctaggc	acttcagaga	5340
tctttctatt	gtcctacatt	tgacacatgt	ggaaacaaag	gccaaaggag	gtcaaggggc	5400
agcaagctag	caacagggct	gggcttgaaa	acagccaggc	ctctgatagc	ttgatcccaa	5460

BIOL0251WSEQ_ST25

gttctttccc	ttttcactcc	accacagcag	ttttctccta	acacgaggaa	acaaatacct	5520
gtggcctttc	cctttctcct	tttgggcctc	tgccccccac	agacttctac	ccaaaggctg	5580
ctgccgtttg	ggaatgaagt	gttccaagtt	ttcagcacat	tctccttctc	tgccagatga	5640
aagccagtct	ctgagtctct	gtggcatggt	ttgggaacac	agcaagggtg	ccgattacca	5700
caagcaacca	tggcaggcca	agatctcagt	cactgtaagc	acagaatccc	agtagtgagg	5760
acttggggga	ggtgaggtca	aggtgaaatg	ggagtagggg	aaggggcaaaa	tggccgtaag	5820
agatggtggt	ttgtgaaagt	tgagttttcc	ctttctactg	ttctgttccc	agcgcccttc	5880
gaagggacat	gagagctgta	tgggggctgt	ggtgtctgag	tactttgtgc	tgacagcagc	5940
acattgtttt	actgtggacg	acaaggaaca	ctcaatcaag	gtcagcgtgg	gtaaggatgc	6000
aactgaaggt	cccgggctgc	acctacgccc	tccaggcaac	acctcccact	ttctacagat	6060
cccacactcc	actcatctgc	aatgcagccc	catcccttgc	accccagacc	agtcagggat	6120
ggggaagact	tgaagttagg	aatgacatgg	ggccagaggc	aagaagctgc	ccacaaagag	6180
gtggtaccta	ttctcctact	tcaagggaag	aagcgggacc	tggagataga	aaaagtccta	6240
tttcaccccg	actacaacat	tagcgagaaa	aaagaagcag	gaattcctga	attttatgac	6300
tatgacgttg	ccctgatcaa	gctcaagaat	aagttgaatt	atgacccgac	tatcaggtga	6360
gagcatccag	atccctgagg	aaaggctggg	aaaggctgga	ggactggggg	gaggagcagg	6420
cctagtttgc	tgttctttct	ccatccttta	taggcccatt	tgtctcccct	gcaccgaggg	6480
aacaactcga	gctttgaggc	ttcctccaac	taccacttgc	cagcaacaga	gtaagacata	6540
ctagggggga	ggataaggat	gagatcccga	gacaagttag	gcatgagagg	gagatgcaat	6600
aggaagagac	gatgcctggc	ccagaacctt	gcactaggaa	gggcttaggg	gacatctgct	6660
gagtgacaaa	gtcaataggg	agatgacagt	ggtgggagca	gctgaagtga	tgcagtctat	6720
ttgtccagag	gaagagctgc	tccctgcaca	ggatatcaaa	gctctgtttg	tgtctgagga	6780
ggagaagaag	ctgactcgga	aggagggtcta	catcaagaat	ggggataagg	tgagaaatgg	6840
gcatcctaag	gaggcactct	aggcccta	ccttcctaag	ccacctctgt	tcattacctt	6900
tctccatgct	tcccacctcc	cctacagaaa	ggcagctgtg	agagagatgc	tcaatatgcc	6960
ccaggctatg	acaaagtcaa	ggacatctcg	gagggtggtca	cccctcggtt	cctttgtact	7020
ggaggagtga	gtccctatgc	tgaccccaat	acttgcagag	gtgagagaac	gctctctggt	7080
tgtgctccaa	gtgcccagag	gccaagagtc	cttttccta	cagcttctcc	tctccttgca	7140
ggtgattctg	gcggcccctt	gatagttcac	aagagaagtc	gtttcattca	agtgagtcct	7200
ccctttccta	tctggggaga	tgccaagtgg	tcagcatggg	cccaaagca	ggaaagcaca	7260
atgcatgttg	ctagtaattc	gagggtgggca	gagcctgcct	cacttttagga	ctgcatgtct	7320
ggcctgtgtg	tgtcaagaat	gaggctgagc	tgggtcccta	gcctgattcc	tttaggtcag	7380
ctaagacaca	atcaggaaca	gtcatgcttc	caggattagg	aattctatga	atgatccatg	7440
gcacccact	gcctctgcag	gttgggtgtca	tcagctgggg	agtagtggat	gtctgcaaaa	7500

BIOL0251WSEQ_ST25

accagaagcg	gcaaaagcag	gtacctgctc	acgcccgaga	ctttcacgtc	aacctcttcc	7560
aagtgctgcc	ctggctgaag	gagaaactcc	aagatgagga	tttgggtttt	ctctaagggg	7620
tttcctgctg	gacaggggcg	cgggattgaa	ttaaaacagc	tgcgacaaca	cttgtgttcc	7680
agatcctttt	ggggcaaggg	agtggggaac	gggcactggc	catgttgtta	cactgagatc	7740
aaacctgaca	cccattttta	aaggcttaac	cccaatccca	agtgctgaaa	aaccagaggc	7800
tgagggagat	atgtaagctt	ccacctcagt	gttttactga	gaccagcatt	ggggcatttg	7860
aggcacaagg	aatccagctc	tgttccctag	aagccatcca	caaggttttc	cttgtagacg	7920
tcatcactgt	agacaatctg	ggtcctcttg	tcccgggtggc	aacccttagg	gctgttctgg	7980
acagctaggg	agggaggaga	ggaacagtta	aggtctaaag	gagatcatag	atcagaccct	8040
gaggctgact	cctgaccacc	tcagtcctgg	ctgctggccc	ctggaaaccc	agtttccacg	8100
ctgccctctg	gtggccagga	tggcctgtct	tccttagctc	ctttgtgcca	acccatggcc	8160
aaggagagtg	taagtggaca	ttttgatgaa	tgttttgttc	ttagaaaaat	cccaaagtgc	8220
attgttgaga	tatatgaatg	atattaaccc	actacttata	gtcagtatgt	cagaagctaa	8280
aaactagaaa	acctctgtag	ccctttattg	acatgctggg	caactctagt	tcctttcttt	8340
tgcctgaaag	gccactgttg	ctctgagtcc	ttctttctgc	tcactccttt	cccaggaaaa	8400
tctactttca	ggtaaattgg	ttactcatac	taaggaatgc	tactagctcc	accagaactc	8460
atccagcatg	tagctttggc	cctcaccatt	ctctctcaag	cctctagctg	tttcttcccc	8520
ttcctctttt	cctccctcca	ccagacatgt	tactctcttc	accccatcca	aagattccat	8580
ccccaccacc	cttgacctag	agagaatctc	tcccaccac	ttctatcct	gtgatctctg	8640
taccttgaca	ctgctggcta	ctccctcttt	ctcaaagcat	gtgtcctttc	gcttcagtgg	8700
cccaggcccc	tctggtgctg	ctcccagccc	tctgaccct	cctcctgtct	cctttgctaa	8760
cgtaggctc	aacgttagcc	taacgtgtca	ggagagctgg	agacacgtgg	ggcgtaagg	8820
ggacagtcct	gtttcctaac	atagtccctg	agtattcctc	aagtctagtc	ctgggtcggt	8880
ttttttctcc	gaaatcagtc	tccctcatga	tcggggagcc	accctgtgat	gcagatgact	8940
taatctatgt	tttcattcct	tacctcacac	ctgagttcca	gaccctaata	ttcaaatact	9000
t						9001

<210> 4
 <211> 4086
 <212> DNA
 <213> Macaca mulatta

<400> 4						
atagatatat	tagcatcagg	gagacagggc	aaagggtcca	cccttcagct	cagtccccag	60
tccctgctta	ttatttcctt	aacagaagac	catccccctt	gccactccct	gggttttctt	120
ctctggcagc	aatgaagcag	ctgctgagcc	agctctgggt	ttcgggaagt	cagatgacct	180
tttccctccc	gcggctctct	gcctctcgct	gtccctaggg	aggacaccat	ggaccactg	240

BIOL0251WSEQ_ST25

atggttcttt	tttgctgct	gttcctgtac	ccaggtccgg	cagactcggc	tacctcctgc	300
cctcagaacg	tgaatatctc	tggtggcacc	ttcacctca	gccatggctg	ggccccctggg	360
agcctttctca	tctactcctg	tccccagggc	ctgtacccat	ccccagcgtc	acggctgtgc	420
aagagcagcg	gacagtggca	gaccccaaga	gccacccggt	ctctgactaa	ggcggctctgc	480
aaacctggcc	actgccccaa	ccccggcatt	tcgctgggcg	cgggtgcggac	aggctccccgc	540
tttggctcatg	gggacaagggt	ccgctatcgc	tgctcctcga	atcttgtgct	cacgggggtct	600
gcggagcggg	agtgccaggg	caacgggggtc	tggagtggaa	cggagcccat	ctgccgccag	660
ccctactctt	atgacttccc	tgaggacgtg	gcccctgccc	tgggcacctc	cttctcccac	720
atgcttgggg	ccaccaatcc	cacccagagg	acaaaggatc	atgaaaatgg	aactgggact	780
aacacctatg	cagccctaaa	cagtgtctat	ctcatgatga	acaatcaa	gcaactcctt	840
ggcatgaaaa	cgatggcctg	gcaggaaaatc	cgacatgcca	tcatccttct	gacagatgga	900
aagtccaata	tgggtggctc	tcccaaaaca	gctgttgacc	aaatcagaga	gatcttgaat	960
atcaaccaga	agaggaatga	ctatctggac	atctatgcca	tcgggggtggg	caagctggat	1020
gtggactgga	gagaactgaa	tgagctgggg	tccaagaagg	atggcgagag	gcatgccttc	1080
attctgcagg	acacaaaggc	tctgcaccag	gtctttgaac	atatgctgga	tgtctccaag	1140
ctcacagaca	ccatctgcgg	ggtgggggaa	atgtcagcaa	acgcctctga	ccaagagagg	1200
acaccctggc	atgtcactat	taagcccaag	agccaagaga	cctgccgggg	agccctcatc	1260
tccgaccaat	gggtcctgac	agcggctcac	tgcttccgcg	atggcaacga	ccactcccta	1320
tggaggggtca	atgtgggaga	ccccaaatcc	cagtggggca	aagaattcct	tattgagaag	1380
gcagtgattt	ccccaggatt	tgatgtcttt	gccaaaaaga	accagggaat	cctggagttc	1440
tatggtgatg	acatcgccct	gctgaagctg	gcccagaaag	taaagatgtc	cacccatgcc	1500
aggcccatct	gccttccctg	cacccatggag	gccaatctgg	ctctgcggag	acctcaaggc	1560
agcacctgta	gggaccatga	gaatgaactg	ctgaacaaac	agagtgttcc	tgctcatttt	1620
gtcgccttga	atgggagcaa	actgaacatt	aaccttaaga	tgggagtgga	gtggacaagc	1680
tgtgccgagg	tcgtctccca	agaaaaaacc	atgttcccca	acttgacaga	tgtcagggag	1740
gtggtgacag	accagtttct	atgcagtggg	acccaggagg	atgagagtcc	ctgcaaggggt	1800
gtgaccacca	ctccattgtc	ttcggccccag	cctcaaggat	cctgctctct	ggagggggta	1860
gagatcaaag	gtggctcctt	ccgacttctc	caagagggcc	aggcactgga	atacgtgtgt	1920
ccttctgggt	tctacccgta	ccctgtgcag	acacgtacct	gcagatccac	ggggctcctgg	1980
agcacctgct	agactcaaga	tcgaaaaact	gtcaagaagg	cagagtgcag	agcaatccgc	2040
tgtccacgac	cacaggactt	cgagaacggg	gaataccggc	cccggctctcc	ctactacaat	2100
gtgagtgatg	agatctcttt	ccactgctat	gacggttaca	ctctccgggg	ctctgccaat	2160
cgcacctgcc	aagtgaatgg	ccggtggagt	gggcagacag	cgatctgtga	caacggagcg	2220
gggtactgct	ccaaccagg	catccccatt	ggcacaagga	agggtgggcag	ccggtaccgc	2280

BIOL0251WSEQ_ST25

cttgaagaca gcgtcaccta ccactgcagc cgggggctta ccctgcgtgg ctcccagcgg	2340
cgaacatgtc aggaaggtgg ctcttggagc gggacggagc cttcctgcca agactccttc	2400
atgtacgaca cccctcaaga ggtggccgaa gctttcctgt cttccctgac ggagaccata	2460
gaaggagtcg atgccgagga tgggcacagc ccaggggaac aacagaagcg gaggatcatc	2520
ctagaccctt caggctccat gaacatctac ctggtgctag atggatcaga cagcattggg	2580
gccggcaact tcacaggagc caaaaagtgt ctagtcaact taattgagaa ggtggcaagt	2640
tatggtgtga agccaagata tgctctagt acatatgcca cataccccag aatttgggtc	2700
aaagtgtctg accaagagag cagcaatgca gactgggtca cgaagaagct cagtgaaatc	2760
aattatgaag accacaagtt gaagtcaggg actaacacca agagggccct ccaggcagtg	2820
tacagcatga tgagttggcc agaggacatc cctcctgaag gctggaaccg caccgccat	2880
gtcatcatcc tcatgaccga tggattgcac aacatgggcg gggacccaat tactgtcatt	2940
gatgagatcc gggacttggt atacatcggc aaggatcgta aaaacccgag ggaggattat	3000
ctggatgtct atgtgtttgg ggttggaacct ttggtggacc aagtgaacat caatgctttg	3060
gcttccaaga aagacaatga gcaacatgtg ttcaaagtca aggatatgga aaacctggaa	3120
gacgttttct tccaaatgat tgatgaaagc cagtctctga gtctctgtgg catggtttgg	3180
gaacacagca aggggtaccga ttaccacaag caaccatggc aggccaagat ctcagtcact	3240
cgcccttcga agggacatga gagctgtatg ggggctgtgg tgtctgagta ctttgtgctg	3300
acagcagcac attgttttac tgtggacgac aaggaaact caatcaaggt cagcgtggga	3360
gggaagaagc gggacctgga gatagaaaaa gtcctatttc accccgacta caacattagc	3420
gagaaaaaag aagcaggaat tcctgaattt tatgactatg acgttgccct gatcaagctc	3480
aagaataagt tgaattatga cccgactatc aggcccattt gtctcccctg caccgaggga	3540
acaactcgag ctttgaggct tcctccaact accacttgcc agcaacagaa ggaagagctg	3600
ctccctgcac aggatatcaa agctctgttt gtgtctgagg aggagaagaa gctgactcgg	3660
aaggaggtct acatcaagaa tggggataag aaaggcagct gtgagagaga tgctcaatat	3720
gccccaggct atgacaaagt caaggacatc tcggaggtgg tcaccctcg gttcctttgt	3780
actggaggag tgagtcctta tgctgacccc aatacttgca gaggtgattc tggcggcccc	3840
ttgatagtct acaagagaag tcgtttcatt caagttggtg tcatcagctg gggagtagtg	3900
gatgtctgca aaaaccagaa gcggcaaaag caggtagctg ctcacgccc agactttcac	3960
gtcaacctct tccaagtgt gccctggctg aaggagaaac tccaagatga ggatttgggt	4020
tttctctaag gggtttcctg ctggacaggg gcgcgggatt gaattaaaac agctgcgaca	4080
acactt	4086

<210> 5
 <211> 2767
 <212> DNA
 <213> Mus musculus

BIOL0251WSEQ_ST25

<400> 5
gctccatcac acagtccatg gaaagactga tcttttaa at tgggggtagt ggaggtggtg 60
gtctgtgctt gttaggaggg gtctgggggc taagagggag ctttgaaagg gaagttcttg 120
cccttgggtca gtcaagggtg gggctcacat agtttctgtt tcctcagttg gcagttcagc 180
tggggccctc cttcatgaat gttccgggaa gcagtggctg cgtgcgagcagg gtaggctggc 240
caggctgcag atgccagagc agattgcata aaaggttagg ggacagtggg aaaggggtgt 300
agccagatcc agcatttggg tttcagtttg gacaggaggt caaataggca cccagagtga 360
cctggagagg gctttggggc actggactct ctggtgcttt ccatgacaat ggagagcccc 420
cagctctgcc tcgtcctctt ggtcttaggc ttctcctctg gaggtgtgag cgcaactcca 480
gtgcttgagg cccggcccca agtctcctgc tctctggagg gagtagagat caaaggcggc 540
tcctttcaac ttctccaagg cggtcaggcc ctggagtacc tatgtccctc tggcttctac 600
ccataccccg tgcagactcg aacctgcaga tccacaggct cctggagcga cctgcagacc 660
cgagaccaa agattgtcca gaaggcggaa tgcagagcaa tacgctgccc acgaccgcag 720
gactttgaaa atggggaatt ctggccccgg tcccccttct acaacctgag tgaccagatt 780
tcttttcaat gctatgatgg ttacgttctc cggggctctg ctaatcgac ctgccaagag 840
aatggccggg gggatgggca aacagcaatt tgtgatgatg gagctggata ctgtcccaat 900
cccgggtatt ctattgggac aaggaagggt ggtagccaat accgccttga agacattggt 960
acttaccact gcagccgggg acttgcctcg cgtggctccc agaagcgaaa gtgtcaagaa 1020
gggtggctcat ggagtgggac agagccttcc tgccaagatt cttcatgta tgacagccct 1080
caagaagtgg ccgaagcatt cctatcctcc ctgacagaga ccatcgaagg agccgatgct 1140
gaggatgggc acagcccagg agaacagcag aagaggaaga ttgtcctaga cccctcgggc 1200
tccatgaata tctacctggg gctagatgga tcagacagca tcggaagcag caacttcaca 1260
ggggctaagc ggtgcctcac caacttgatt gagaagggtg cgagttacgg ggtgaggcca 1320
cgatatggtc tcctgacata tgctacagtc ccaaagtgt tggtcagagt gtctgatgag 1380
aggagtagcg atgccgactg ggtcacagag aagctcaacc aaatcagtta tgaagaccac 1440
aagctgaagt cagggaccaa caccaagagg gctctccagg ctgtgtatag catgatgagc 1500
tgggcagggg atgccccgcc tgaaggctgg aatagaacct gccatgtcat catcattatg 1560
actgatggct tgcacaacat ggggtgaaac cctgtcactg tcattcagga catccgagcc 1620
ttgctggaca tcggcagggg tccccaaaat cccagggagg attacctgga tgtgtatgtg 1680
tttggggctg ggcctctggg ggactccgtg aacatcaatg ccttagcttc caaaaaggac 1740
aatgagcatc atgtgtttta agtcaaggat atggaagacc tggagaatgt tttctaccaa 1800
atgattgatg aaaccaaadc tctgagtctc tgtggcatgg tgtgggagca taaaaaaggc 1860
aacgattatc ataagcaacc atggcaagcc aagatctcag tcaactcgccc tctgaaagga 1920
catgagacct gtatgggggc cgtggtgtct gagtacttcg tgctgacagc agcgactgc 1980
ttcatggtgg atgatcagaa acattccatc aaggctcagc tggggggtca gaggcgggac 2040

BIOL0251WSEQ_ST25

ctggagattg aagaggtcct gttccacccc aaatacaata ttaatgggaa aaaggcagaa	2100
gggatccctg agttctatga ttatgatgtg gccctagtca agctcaagaa caagctcaag	2160
tatggccaga ctctcaggcc catctgtctc ccctgcacgg agggaaccac acgagccttg	2220
aggcttcctc agacagccac ctgcaagcag cacaaggaac agttgctccc tgtgaaggat	2280
gtcaaagctc tgtttgtatc tgagcaaggg aagagcctga ctcggaagga ggtgtacatc	2340
aagaatgggg acaagaaagc cagttgtgag agagatgcta caaaggccca aggctatgag	2400
aagggtcaaag atgcctctga ggtgggtcact ccacggttcc tctgcacagg aggggtggat	2460
ccctatgctg accccaacac atgcaaagga gattccgggg gccctctcat tgttcacaag	2520
agaagccgct tcattcaagt tgggtgtgatt agctggggag tagtagatgt ctgcagagac	2580
cagaggcggc aacagctggt accctcttat gcccgggact tccacatcaa cctcttccag	2640
gtgctgccct ggctaaagga caagctcaaa gatgaggatt tgggttttct ataaagagct	2700
tcctgcaggg agagtgtgag gacagattaa agcagttaca ataacaaaaa aaaaaaaaaa	2760
aaaaaaa	2767

<210> 6
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 6	
gctgagctgc cagtcaagga	20

<210> 7
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 7	
ggccccgctg agctgccagt	20

<210> 8
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 8	
cggaacatcc aagcgggagg	20

<210> 9
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>		
<223>	Synthetic oligonucleotide	
<400>	9	
	ctttcccgga acatccaagc	20
<210>	10	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	10	
	atctgtgttc tggcacctgc	20
<210>	11	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	11	
	gtcacattcc cttcccctgc	20
<210>	12	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	12	
	gacctggtca cattcccttc	20
<210>	13	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	13	
	gacctagacc tggtcacatt	20
<210>	14	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	14	
	actccagacc tagacctggt	20

<210> 15
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 15
 gctgaaactc cagacctaga 20

<210> 16
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 16
 gtccaagctg aaactccaga 20

<210> 17
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 17
 ctcagtgtcc aagctgaaac 20

<210> 18
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 18
 aggagagaag ctgggcctgg 20

<210> 19
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 19
 gaaggcagga gagaagctgg 20

<210> 20
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 20
gtggtgtgtca cacctccaga 20

<210> 21
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 21
ccctccagag agcaggatcc 20

<210> 22
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 22
tctaccccct ccagagagca 20

<210> 23
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 23
ttgatctcta cccctccag 20

<210> 24
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 24
tggaagaagtc ggaaggagcc 20

<210> 25
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 25
ccctcttgga gaagtcggaa 20

<210> 26
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 26
 gcctggccct cttggagaag 20

<210> 27
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 27
 tccagtgcct ggccctcttg 20

<210> 28
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 28
 agaagccaga aggacacacg 20

<210> 29
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 29
 acgggtagaa gccagaagga 20

<210> 30
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 30
 cgtgtctgca cagggtacgg 20

<210> 31
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 31
 aggggtgctcc aggaccccg 20

<210> 32
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 32
 ttgctctgca ctctgccttc 20

<210> 33
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 33
 tattccccgt tctcgaagtc 20

<210> 34
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 34
 cattgtagta gggagaccgg 20

<210> 35
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 35
 cactcacatt gtagtaggga 20

<210> 36
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 36
 tctcatcact cacattgtag 20

<210> 37
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 37		
aagagatctc atcactcaca		20
<210> 38		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 38		
agtggaaaga gatctcatca		20
<210> 39		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 39		
catagcagtg gaaagagatc		20
<210> 40		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 40		
aaccgtcata gcagtggaaa		20
<210> 41		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 41		
gagtgtacc gtcatagcag		20
<210> 42		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 42		
cccggagagt gtaaccgtca		20
<210> 43		
<211> 20		
<212> DNA		
<213> Artificial sequence		

<220>
 <223> Synthetic oligonucleotide
 <400> 43
 cagagccccc gagagtgttaa 20

<210> 44
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 44
 gattggcaga gccccggaga 20

<210> 45
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 45
 aggtgcgatt ggcagagccc 20

<210> 46
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 46
 cttggcaggt gcgattggca 20

<210> 47
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 47
 cattcacttg gcaggtgcga 20

<210> 48
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 48
 atcgctgtct gccactcca 20

<210> 49
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 49
 tcacagatcg ctgtctgccc 20

<210> 50
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 50
 ccgttgtcac agatcgctgt 20

<210> 51
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 51
 cccgctccgt tgtcacagat 20

<210> 52
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 52
 cagtaccccg ctccgttgtc 20

<210> 53
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 53
 ttggagcagt accccgctcc 20

<210> 54
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 54
 accttccttg tgccaatggg 20

<210> 55
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 55
 ctgcccacct tccttgtgcc 20

<210> 56
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 56
 cgctgtcttc aaggcggtac 20

<210> 57
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 57
 gctgcagtgg taggtgacgc 20

<210> 58
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 58
 cccccggctg cagtggtagg 20

<210> 59
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 59
 ggtaagcccc cggtgcagt 20

<210> 60
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 60
 acgcagggtgta agcccccggc 20

<210> 61
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 61
 ggagccacgc agggtaagcc 20

<210> 62
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 62
 gccgctggga gccacgcagg 20

<210> 63
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 63
 caagagccac cttcctgaca 20

<210> 64
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 64
 ccgctccaag agccaccttc 20

<210> 65
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 65
 tccgtcccgc tccaagagcc 20

<210> 66
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 66
 gaaggctccg tcccgctcca 20

<210> 67
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 67
 tggcaggaag gtcctgtccc 20

<210> 68
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 68
 gagtcttggc aggaaggctc 20

<210> 69
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 69
 atgaaggagt cttggcagga 20

<210> 70
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 70
 cttcgccac ctcttgaggg 20

<210> 71
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 71
 ggaaagcttc ggccacctct 20

<210> 72
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 72
 aagacaggaa agcttcggcc 20

<210> 73
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 73
 tcagggaaga caggaaagct 20

<210> 74
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 74
 tcgactcctt ctatggtctc 20

<210> 75
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 75
 cttctgttgt tcccctgggc 20

<210> 76
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 76
 ttcattggagc ctgaagggtc 20

<210> 77
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 77
 tagatgttca tggagcctga 20

<210> 78
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 78
 accaggtaga tgttcattgga 20

<210> 79
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 79
 tctagcacca ggtagatgtt 20

<210> 80
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 80
 gatccatcta gcaccaggta 20

<210> 81
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 81
 ctgtctgac catctagcac 20

<210> 82
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 82
 ccaatgctgt ctgatccatc 20

<210> 83
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 83
 tttggctcct gtgaagttgc 20

<210> 84
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 84
 acactttttg gtcctgtga 20

<210> 85
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 85
 gactagacac tttttggctc 20

<210> 86
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 86
 taagttgact agacactttt 20

<210> 87
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 87
 ctcaattaag ttgactagac 20

<210> 88
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 88
caccttctca attaagttga 20

<210> 89
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 89
acttgccacc ttctcaatta 20

<210> 90
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 90
accataactt gccaccttct 20

<210> 91
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 91
cttcacacca taacttgcca 20

<210> 92
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 92
tcttggttc acaccataac 20

<210> 93
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 93
atgtggcata tgtcactaga 20

<210> 94
<211> 20
<212> DNA
<213> Artificial sequence

<220>		
<223>	Synthetic oligonucleotide	
<400>	94	
	cagacacttt gacccaaatt	20
<210>	95	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	95	
	ggtcttcata attgatttca	20
<210>	96	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	96	
	acttggtggtc ttcataattg	20
<210>	97	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	97	
	acttcaactt gtggtcttca	20
<210>	98	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	98	
	tccctgactt caacttgtgg	20
<210>	99	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	99	
	tgtagtccc tgacttcaac	20

<210> 100
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 100
 tcttggtgtt agtcctgac 20

<210> 101
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 101
 tgtacactgc ctggagggcc 20

<210> 102
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 102
 tcatgctgta cactgcctgg 20

<210> 103
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 103
 gttccagcct tcaggagga 20

<210> 104
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 104
 ggtgcggttc cagccttcag 20

<210> 105
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 105
atggcggtg cggttcagc 20

<210> 106
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 106
gatgacatgg cgggtgcggt 20

<210> 107
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 107
gaggatgatg acatggcggg 20

<210> 108
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 108
cccatgttgt gcaatccatc 20

<210> 109
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 109
tccccgccca tggtgtgcaa 20

<210> 110
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 110
attgggtccc cgcccatgtt 20

<210> 111
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 111
 acagtaattg ggtccccgcc 20

<210> 112
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 112
 tcaatgacag taattgggtc 20

<210> 113
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 113
 atctcatcaa tgacagtaat 20

<210> 114
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 114
 tcccggatct catcaatgac 20

<210> 115
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 115
 acatccagat aatcctccct 20

<210> 116
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 116
 acatagacat ccagataatc 20

<210> 117
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 117
 ccaaacacat agacatccag 20

<210> 118
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 118
 agcattgatg ttcacttggt 20

<210> 119
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 119
 agccaaagca ttgatgttca 20

<210> 120
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 120
 cttggaagcc aaagcattga 20

<210> 121
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 121
 gtctttcttg gaagccaaag 20

<210> 122
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 122
ctcattgtct ttcttggaag 20

<210> 123
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 123
atgttgctca ttgtctttct 20

<210> 124
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 124
gaacacatgt tgctcattgt 20

<210> 125
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 125
gactttgaac acatgttgct 20

<210> 126
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 126
atccttgact ttgaacacat 20

<210> 127
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 127
ttccatatcc ttgactttga 20

<210> 128
<211> 20
<212> DNA
<213> Artificial sequence

<220>		
<223>	Synthetic oligonucleotide	
<400>	128	
	caggttttcc atatccttga	20
<210>	129	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	129	
	ctcagagact ggctttcatc	20
<210>	130	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	130	
	cagagactca gagactggct	20
<210>	131	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	131	
	atgccacaga gactcagaga	20
<210>	132	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	132	
	caaaccatgc cacagagact	20
<210>	133	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	133	
	tggtcccaaa ccatgccaca	20

<210> 134
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 134
 ttgtggtaat cggtaccctt 20

<210> 135
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 135
 gggtgcttgt ggtaatcggt 20

<210> 136
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 136
 tgccatgggt gcttggtgta 20

<210> 137
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 137
 ttggcctgcc atggttgctt 20

<210> 138
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 138
 gagatcttgg cctgccatgg 20

<210> 139
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide

<400> 139
acagcccca tacagctctc 20

<210> 140
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 140
gacaccacag ccccataca 20

<210> 141
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 141
tactcagaca ccacagcccc 20

<210> 142
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 142
acaaagtact cagacaccac 20

<210> 143
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 143
gtcagcaca agtactcaga 20

<210> 144
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 144
ttgattgagt gttccttgtc 20

<210> 145
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 145
 ctgacctga ttgagtgttc 20

<210> 146
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 146
 tatctccagg tcccgtttct 20

<210> 147
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 147
 gaattcctgc ttcttttttc 20

<210> 148
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 148
 attcaggaat tcctgcttct 20

<210> 149
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 149
 cataaaattc aggaattcct 20

<210> 150
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 150
 catagtcata aaattcagga 20

<210> 151
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 151
 tgagcttgat cagggcaacg 20

<210> 152
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 152
 tattcttgag cttgatcagg 20

<210> 153
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 153
 gacaaatggg cctgatagtc 20

<210> 154
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 154
 gttgttcct cggtgcaggg 20

<210> 155
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 155
 gctcgagttg ttccctcggt 20

<210> 156
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 156
ctcaaagctc gagttgttcc 20

<210> 157
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 157
ggaagcctca aagctcgagt 20

<210> 158
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 158
gttgaggaa gcctcaaagc 20

<210> 159
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 159
gtggtagttg gaggaagcct 20

<210> 160
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 160
tggcaagtgg tagttggagg 20

<210> 161
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 161
tggtgctggc aagtggtagt 20

<210> 162
<211> 20
<212> DNA
<213> Artificial sequence

<220>		
<223>	Synthetic oligonucleotide	
<400>	162	
	tccagctcac tcccctgttg	20
<210>	163	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	163	
	taaggatcca gtcactccc	20
<210>	164	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	164	
	cagaaataag gatccagctc	20
<210>	165	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	165	
	agggaccaga aataaggatc	20
<210>	166	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	166	
	ccacttaggg accagaaata	20
<210>	167	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	167	
	tccaggactc tccccttcag	20

<210> 168
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 168
 aagtcccacc ctttgctgcc 20

<210> 169
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 169
 ctgcagaagt cccacccttt 20

<210> 170
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 170
 cagaaactgc agaagtccca 20

<210> 171
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 171
 aacctctgca ctctgccttc 20

<210> 172
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 172
 ccctcaaacc tctgcactct 20

<210> 173
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 173
tcattgccct caaacctctg 20

<210> 174
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 174
ccacactcat tgccctcaaa 20

<210> 175
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 175
cactgcccac actcattgcc 20

<210> 176
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 176
ttaggcact gccacactc 20

<210> 177
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 177
ctagtcctga ccttgctgcc 20

<210> 178
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 178
ctcatcctag tcctgacctt 20

<210> 179
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 179
 cctagtctca tcctagtcct 20

<210> 180
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 180
 accctgccta gtctcatcct 20

<210> 181
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 181
 cttgtcaccc tgcctagtct 20

<210> 182
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 182
 gcccaccttg tcaccctgcc 20

<210> 183
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 183
 cctaaaactg ctctactcc 20

<210> 184
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 184
 gagtcagaaa tgaggtcaaa 20

<210> 185
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 185
 ccctactccc atttcacctt 20

<210> 186
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 186
 tgttgtgcaa tcctgcagaa 20

<210> 187
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 187
 aaaggctgat gaagcctggc 20

<210> 188
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 188
 cctttgacca caaagtggcc 20

<210> 189
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 189
 aggtaccacc tctttgtggg 20

<210> 190
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 190
tggtggtcac acctgaagag 20

<210> 191
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 191
gcagggagca gctcttcctt 20

<210> 192
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 192
tcctgtgcag ggagcagctc 20

<210> 193
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 193
ttgatatcct gtgcagggag 20

<210> 194
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 194
agagctttga tctcctgtgc 20

<210> 195
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 195
acaaacagag ctttgatatc 20

<210> 196
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 196
 tcagacacaa acagagcttt 20

<210> 197
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 197
 tcctcctcag acacaaacag 20

<210> 198
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 198
 acctccttcc gagtcagctt 20

<210> 199
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 199
 atgtagacct cttccgagt 20

<210> 200
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 200
 ttcttgatgt agacctcctt 20

<210> 201
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 201
 tccccattct tgatgtagac 20

<210> 202
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 202
 ttcttatccc cattcttgat 20

<210> 203
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 203
 ctgcctttct tatccccatt 20

<210> 204
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 204
 tcacagctgc ctttcttadc 20

<210> 205
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 205
 tctctctcac agctgccttt 20

<210> 206
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 206
 tgagcatctc tctcacagct 20

<210> 207
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 207
gcatattgag catctctctc 20

<210> 208
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 208
tgactttgtc atagcctggg 20

<210> 209
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 209
tgtccttgac tttgtcatag 20

<210> 210
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 210
cagtacaaag gaaccgaggg 20

<210> 211
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 211
ctcctccagt acaaaggaac 20

<210> 212
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 212
gactcactcc tccagtacaa 20

<210> 213
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 213
 catagggact cactcctcca 20

<210> 214
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 214
 ggtcagcata gggactcact 20

<210> 215
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 215
 tcacctctgc aagtattggg 20

<210> 216
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 216
 ccagaatcac ctctgcaagt 20

<210> 217
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 217
 gggccgccag aatcacctct 20

<210> 218
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 218
 ctcttgatgaa ctatcaaggg 20

<210> 219
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 219
 cgacttctct tgtgaactat 20

<210> 220
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 220
 atgaaacgac ttctcttgtg 20

<210> 221
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 221
 acttgaatga aacgacttct 20

<210> 222
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 222
 acaccaactt gaatgaaacg 20

<210> 223
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 223
 tccactactc cccagctgat 20

<210> 224
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 224
cagacatcca ctactcccca 20

<210> 225
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 225
ttttgcaga catccactac 20

<210> 226
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 226
ttctggtttt tgcagacatc 20

<210> 227
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 227
tgccgcttct gggtttttgca 20

<210> 228
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 228
tgcttttgcc gcttctggtt 20

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

<220>
<223> Synthetic oligonucleotide

<400> 229
ggtacctgct ttgccgctt 20

<210> 230
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 230
 tgagcaggta cctgcttttg 20

<210> 231
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 231
 ttcagccagg gcagcacttg 20

<210> 232
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 232
 ttctccttca gccagggcag 20

<210> 233
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 233
 tggagtttct cttcagcca 20

<210> 234
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 234
 tcatcttgga gtttctcctt 20

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

<220>
 <223> Synthetic oligonucleotide
 <400> 235
 aaatcctcat cttggagttt 20

<210> 236
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 236
 aaacccaaat cctcatcttg 20

<210> 237
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 237
 gtccagcagg aaaccctta 20

<210> 238
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 238
 gccctgtcc agcaggaaac 20

<210> 239
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 239
 agctgtttta attcaatccc 20

<210> 240
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 240
 aactgccac ctgtgggtga 20

<210> 241
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 241
tcaccttatc cccattcttg 20

<210> 242
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 242
tcaactttca caaaccacca 20

<210> 243
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 243
ccgccagaat cacctgcaag 20

<210> 244
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 244
aggaggaatg aagaaggctt 20

<210> 245
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 245
gcctttcctc agggatctgg 20

<210> 246
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 246
aaatgtctgg gagtgtcagg 20

<210> 247
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 247
 gcctagagtg cctccttagg 20

<210> 248
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 248
 ggcattctccc cagataggaa 20

<210> 249
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 249
 agggagctag tcctggaaga 20

<210> 250
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 250
 acacctgaag agaaaggctg 20

<210> 251
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 251
 ccctttgacc acaaagtggc 20

<210> 252
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 252
 gccctcaagg tagtctcatg 20

<210> 253
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 253
 aaggggaagga ggacagaata 20

<210> 254
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 254
 aaaggccaag gagggatgct 20

<210> 255
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 255
 agaggtccct tctgaccatc 20

<210> 256
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 256
 gctgggacag gagagaggtc 20

<210> 257
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 257
 tcaaattgtct gggagtgtca 20

<210> 258
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 258
agaaggagaa tgtgctgaaa 20

<210> 259
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 259
tgctgaccac ttggcatctc 20

<210> 260
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 260
caactttcac aaaccacat 20

<210> 261
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 261
agctctgtga ttctaagggt 20

<210> 262
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 262
ccacctgtgg gtgaggagaa 20

<210> 263
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 263
gaggactcac ttgaatgaaa 20

<210> 264
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 264
 tggaatgac agggagctag 20

<210> 265
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 265
 gtcccttctc cattttcccc 20

<210> 266
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 266
 tcaacttttt aagttaatca 20

<210> 267
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 267
 gggtgaggag aacaaggcgc 20

<210> 268
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 268
 cttccaagcc atcttttaac 20

<210> 269
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 269
 aggactcact tgaatgaaac 20

<210> 270
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 270
 ttccaggcaa ctagagcttc 20

<210> 271
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 271
 cagagtccag ccactgtttg 20

<210> 272
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 272
 ccaacctgca gaggcagtgg 20

<210> 273
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 273
 tgcaaggaga ggagaagctg 20

<210> 274
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 274
 ctaggcaggt tactcaccca 20

<210> 275
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 275
caccataact tgccacctgt 20

<210> 276
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 276
taggtaccac ctctttgtgg 20

<210> 277
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 277
cttgacctca cctcccccaa 20

<210> 278
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 278
ccacctcttt gtgggcagct 20

<210> 279
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 279
ttcacaaacc accatctctt 20

<210> 280
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 280
ttctcacctc cgttgtcaca 20

<210> 281
<211> 20
<212> DNA
<213> Artificial sequence

<220>		
<223>	Synthetic oligonucleotide	
<400>	281	
	gaaagtggga ggtgttcct	20
<210>	282	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	282	
	acagcaggaa gggaaggta	20
<210>	283	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	283	
	catgctgacc acttgcatc	20
<210>	284	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	284	
	ggtcaccttg gcaggaaggc	20
<210>	285	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	285	
	gtatagtgtt acaagtggac	20
<210>	286	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	286	
	ggacttcct ttgaccacaa	20

<210> 287
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 287
 tcaccttgac ctcacctccc 20

<210> 288
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 288
 tagagtcct ccttaggatg 20

<210> 289
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 289
 tgacttcaac ttgtggtctg 20

<210> 290
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 290
 cagagaagga gaatgtgctg 20

<210> 291
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 291
 aggagcagc tcttcctctg 20

<210> 292
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 292
tgttcccctg ggtgccagga 20

<210> 293
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 293
ggcctggctg ttttcaagcc 20

<210> 294
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 294
gactggcttt catctggcag 20

<210> 295
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 295
gaaggctttc caggcaacta 20

<210> 296
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 296
tcacttgaat gaaacgactt 20

<210> 297
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 297
ggccccaaaa ggccaaggag 20

<210> 298
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 298
 aatcacctgc aaggagagga 20

<210> 299
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 299
 gaccttcagt tgcataccta 20

<210> 300
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 300
 tgatgaagcc tggccccaaa 20

<210> 301
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 301
 tagaaagtgg gaggtgttgc 20

<210> 302
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 302
 cccatccctg actggtctgg 20

<210> 303
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 303
 ccatgggtat agtggttaca 20

<210> 304
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 304
 gtgttctctt gacttccagg 20

<210> 305
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 305
 ggcctgctcc tcaccccagt 20

<210> 306
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 306
 gaggcctggc tgttttcaag 20

<210> 307
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 307
 gactctcccc ttcagtacct 20

<210> 308
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 308
 catgggtata gtgttacaag 20

<210> 309
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 309
gaaggagaat gtgctgaaaa 20

<210> 310
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 310
tcacctgggc ttccaagcca 20

<210> 311
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 311
ctccccagat aggaaaggga 20

<210> 312
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 312
ggactcactt gaatgaaacg 20

<210> 313
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 313
ggccgccaga atcacctgca 20

<210> 314
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 314
ctcacttgaa tgaaacgact 20

<210> 315
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 315
 ctttcccagc ctttcctcag 20

<210> 316
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 316
 agaaagtggg aggtgttgcc 20

<210> 317
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 317
 gtcgcagctg ttttaattca 20

<210> 318
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 318
 ccaggactct ccccttcagt 20

<210> 319
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 319
 aggaaggag gacagaatag 20

<210> 320
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 320
 gaaatgaggt caaatgtctg 20

<210> 321
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 321
 ggagagtcag aaatgaggtc 20

<210> 322
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 322
 gtagaaagtg ggaggtgttg 20

<210> 323
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 323
 tagaaagatc tctgaagtgc 20

<210> 324
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 324
 ctgctcctca cccagtcct 20

<210> 325
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 325
 ctactgggat tctgtgctta 20

<210> 326
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 326
cccaaaaggc caaggagga 20

<210> 327
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 327
tgaccacttg gcatctcccc 20

<210> 328
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 328
cctgcaagga gaggagaagc 20

<210> 329
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 329
ctctcacctc tgcaagtatt 20

<210> 330
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 330
cccaaaagg ccaaggaggg 20

<210> 331
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 331
gtcttccaag ccatctttta 20

<210> 332
<211> 20
<212> DNA
<213> Artificial sequence

<220>		
<223>	Synthetic oligonucleotide	
<400>	332	
	gttacaagtg gacttaaggg	20
<210>	333	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	333	
	cccatgttgt gcaatcctgc	20
<210>	334	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	334	
	gaggtgggaa gcatggagaa	20
<210>	335	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	335	
	tgctcccacc actgtcatct	20
<210>	336	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	336	
	aggcaggtta ctcacccaga	20
<210>	337	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	337	
	tactgggatt ctgtgcttac	20

<210> 338
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 338
 gcctttccca gcctttcctc 20

<210> 339
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 339
 gtgcaatcct gcagaagaga 20

<210> 340
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 340
 acaggagaga ggtcccttct 20

<210> 341
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 341
 cccaaaagga gaaagggaaa 20

<210> 342
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 342
 aagcccaggg taaatgctta 20

<210> 343
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 343
gatgaagcct ggccccaaaa 20

<210> 344
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 344
tggcagagaa ggagaatgtg 20

<210> 345
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 345
ttcccagcct ttcctcaggg 20

<210> 346
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 346
ggcagagaag gagaatgtgc 20

<210> 347
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 347
acagtgccag gaaacaagaa 20

<210> 348
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 348
taggcagggtt actcaccag 20

<210> 349
<211> 20
<212> DNA
<213> Artificial sequence

<220>		
<223>	Synthetic oligonucleotide	
<400>	349	
	ttctcttgac ttccagggt	20
<210>	350	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	350	
	cctgctctc accccagtcc	20
<210>	351	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	351	
	tcccactaac ctccattgcc	20
<210>	352	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	352	
	ttccctttga ccacaaagt	20
<210>	353	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	353	
	ctgggtccta ggcaggttac	20
<210>	354	
<211>	20	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	354	
	tccaggcaac tagagcttca	20

<210> 355
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 355
 gcccatgttg tgcaatcctg 20

<210> 356
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 356
 ggttcccact aacctccatt 20

<210> 357
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 357
 aggtagagag caagagttac 20

<210> 358
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 358
 ccactaacct ccattgccca 20

<210> 359
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 359
 tcacaaacca ccatctctta 20

<210> 360
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 360		
tactcaccca gataatcctc		20
<210> 361		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 361		
tgctcctcac cccagtcctc		20
<210> 362		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 362		
tctcacagct gcctttctgt		20
<210> 363		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 363		
gaaaggagg actcacttga		20
<210> 364		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 364		
ccatctttta accccagaga		20
<210> 365		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 365		
tcctcacccc agtcctccag		20
<210> 366		
<211> 20		
<212> DNA		
<213> Artificial sequence		

<220>
 <223> Synthetic oligonucleotide
 <400> 366
 ctggcagaga aggagaatgt 20

<210> 367
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 367
 tctccccaga taggaaaggg 20

<210> 368
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 368
 acttcagctg ctcccaccac 20

<210> 369
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 369
 gacagcagga agggaagggtt 20

<210> 370
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 370
 ggagacaaat ggcctataa 20

<210> 371
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 371
 ctgctccac cactgtcatc 20

<210> 372
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 372
 aggaatgaag aaggctttcc 20

<210> 373
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 373
 gggatctcat cttatcctc 20

<210> 374
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 374
 gtgctgggtc ctaggcaggt 20

<210> 375
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 375
 caaaaggcca aggaggatg 20

<210> 376
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 376
 ccatgctgac cacttgcat 20

<210> 377
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 377
 ggaggctggg acaggagaga 20

<210> 378
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 378
 ggagcagctc ttcctctgga 20

<210> 379
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 379
 ttcacctcc gttgtcacag 20

<210> 380
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 380
 cagtcctcca gcctttccca 20

<210> 381
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 381
 agtcctccag cctttcccag 20

<210> 382
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 382
 tgaaggagtc tgggagagtc 20

<210> 383
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 383
 cagaatcacc tgcaaggaga 20

<210> 384
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 384
 taggaaaggg aggactcact 20

<210> 385
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 385
 accttggcag gaaggctccg 20

<210> 386
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 386
 gagacaaatg ggcctataaa 20

<210> 387
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 387
 ctgaagagaa aggctgatga 20

<210> 388
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 388
 aatgatcagg gagctagtcc 20

<210> 389
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 389
 cttagctgac ctaaaggaat 20

<210> 390
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 390
 tgggtatagt gttacaagtg 20

<210> 391
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 391
 tgaagagaaa ggctgatgaa 20

<210> 392
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 392
 gtgttacaag tgacttaag 20

<210> 393
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 393
 acctgtgggt gaggagaaca 20

<210> 394
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 394		
tcaccagat aatcctccct		20
<210> 395		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 395		
tgtgtcgca gctgttttaa		20
<210> 396		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 396		
tggtcacatt cccttcccct		20
<210> 397		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 397		
cctggtcaca ttcccttccc		20
<210> 398		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 398		
tagacctggt cacattccct		20
<210> 399		
<211> 20		
<212> DNA		
<213> Artificial sequence		
<220>		
<223> Synthetic oligonucleotide		
<400> 399		
cctagacctg gtcacattcc		20
<210> 400		
<211> 20		
<212> DNA		
<213> Artificial sequence		

<220>
 <223> Synthetic oligonucleotide
 <400> 400
 ccttccgagt cagctttttc 20

<210> 401
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 401
 ctccttccga gtcagctttt 20

<210> 402
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 402
 agacctcctt ccgagtcagc 20

<210> 403
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 403
 gtagacctcc ttccgagtca 20

<210> 404
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 404
 tttgccgctt ctggtttttg 20

<210> 405
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 405
 cttttgccgc ttctggtttt 20

<210> 406
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 406
 cctgcttttg ccgcttctgg 20

<210> 407
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 407
 tacctgcttt tgccgcttct 20

<210> 408
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 408
 agaaaacca aatcctcatc 20

<210> 409
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 409
 tagaaaacc aaatcctcat 20

<210> 410
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 410
 atagaaaacc caaatcctca 20

<210> 411
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide

<400> 411
tatagaaaac ccaaadcctc 20

<210> 412
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 412
ttatagaaaa cccaaadcct 20

<210> 413
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 413
cttatagaaa acccaadcctc 20

<210> 414
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 414
ccttatagaa aacccaadcctc 20

<210> 415
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 415
cccttataga aaacccaaat 20

<210> 416
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 416
ccccttatag aaaacccaaa 20

<210> 417
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 417
 accccttata gaaaacccaa 20

<210> 418
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 418
 aacccttat agaaaaccca 20

<210> 419
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 419
 aaaccctta tagaaaaccc 20

<210> 420
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 420
 gaaaccctt atagaaaacc 20

<210> 421
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 421
 ggaaaccct tatagaaaac 20

<210> 422
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 422
 aggaaacccc ttatagaaaa 20

<210> 423
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

 <400> 423
 caggaaacc cttatagaa 20

<210> 424
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

 <400> 424
 gcaggaaacc cttatagaa 20

<210> 425
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

 <400> 425
 agcaggaaac cccttataga 20

<210> 426
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

 <400> 426
 cagcaggaaa ccccttatag 20

<210> 427
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

 <400> 427
 ccagcaggaa accccttata 20

<210> 428
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

<400> 428
tccagcagga aacccttat 20

<210> 429
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 429
tgtccagcag gaaaccctt 20

<210> 430
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 430
ctgtccagca ggaaaccctt 20

<210> 431
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 431
cctgtccagc aggaaacccc 20

<210> 432
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 432
ccctgtccag caggaaaccc 20

<210> 433
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 433
cccctgtcca gcaggaaacc 20

<210> 434
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 434
 cgcccctgtc cagcaggaaa 20

<210> 435
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 435
 acgcccctgt ccagcaggaa 20

<210> 436
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 436
 cacgcccctg tccagcagga 20

<210> 437
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 437
 ccacgcccct gtccagcagg 20

<210> 438
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 438
 cccacgcccc tgtccagcag 20

<210> 439
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 439
 tcccacgccc ctgtccagca 20

<210> 440
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 440
 atcccacgcc cctgtccagc 20

<210> 441
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 441
 aatcccacgc ccctgtccag 20

<210> 442
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 442
 caatcccacg cccctgtcca 20

<210> 443
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 443
 tcaatcccac gcccctgtcc 20

<210> 444
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 444
 ttcaatccca cgcccctgtc 20

<210> 445
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide

<400> 445
attcaatccc acgcccctgt 20

<210> 446
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 446
aattcaatcc cagcccctg 20

<210> 447
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 447
taattcaatc ccacgcccct 20

<210> 448
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 448
ttaattcaat cccacgcccc 20

<210> 449
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 449
tttaattcaa tcccacgccc 20

<210> 450
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 450
ttttaattca atcccacgcc 20

<210> 451
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 451
 gttttaattc aatcccacgc 20

<210> 452
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 452
 tgttttaatt caatcccacg 20

<210> 453
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 453
 ctgttttaatt tcaatcccac 20

<210> 454
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 454
 gctgttttaa ttcaatccca 20

<210> 455
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 455
 cagctgtttt aattcaatcc 20

<210> 456
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 456
 gcagctgttt taattcaatc 20

<210> 457
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 457
 cgcagctgtt ttaattcaat 20

<210> 458
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 458
 tcgcagctgt ttaattcaa 20

<210> 459
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 459
 tgtcgcagct gttttaattc 20

<210> 460
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 460
 ttgtcgcagc tgttttaatt 20

<210> 461
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 461
 gttgtcgcag ctgttttaatt 20

<210> 462
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide

<400> 462
ttgttgtcgc agctgtttta 20

<210> 463
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 463
tttgttgtcg cagctgtttt 20

<210> 464
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 464
ttttgttgtc gcagctgttt 20

<210> 465
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 465
tttttgttgt cgcagctggt 20

<210> 466
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 466
ggatccagct cactcccctg 20

<210> 467
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 467
aaataaggat ccagctcact 20

<210> 468
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 468
 gaccagaaat aaggatccag 20

<210> 469
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 469
 cttagggacc agaaataagg 20

<210> 470
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 470
 caccactta gggaccagaa 20

<210> 471
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 471
 accaccact tagggaccag 20

<210> 472
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 472
 aggtccagga ctctcccctt 20

<210> 473
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 473
 aaggtccagg actctcccct 20

<210> 474
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

 <400> 474
 aaactgcaga agtcccaccc 20

<210> 475
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

 <400> 475
 ggagggcccc gctgagctgc 20

<210> 476
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

 <400> 476
 tcccggaaca tccaagcggg 20

<210> 477
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

 <400> 477
 catcactttc ccggaacatc 20

<210> 478
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

 <400> 478
 ctggtcacat tcccttcccc 20

<210> 479
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

<400> 479
ctagacctgg tcacattccc 20

<210> 480
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 480
ggagtgggtg tcacacctcc 20

<210> 481
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 481
accccctcca gagagcagga 20

<210> 482
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 482
atctctaccc cctccagaga 20

<210> 483
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 483
ggtacgggta gaagccagaa 20

<210> 484
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 484
ggagagtgta accgtcatag 20

<210> 485
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 485
 tgcgattggc agagccccgg 20

<210> 486
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 486
 ggcaggtgcg attggcagag 20

<210> 487
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 487
 ggccattcac ttggcaggtg 20

<210> 488
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 488
 ttgtcacaga tcgctgtctg 20

<210> 489
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 489
 aaggagtctt ggcaggaagg 20

<210> 490
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 490
 gtacatgaag gagtcttggc 20

<210> 491
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 491
 aagcttcggc cacctcttga 20

<210> 492
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 492
 ccatctagca ccaggtagat 20

<210> 493
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 493
 ggccccaatg ctgtctgac 20

<210> 494
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 494
 aattaagttg actagacact 20

<210> 495
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 495
 tgccaccttc tcaattaagt 20

<210> 496
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide

<400> 496
taacttgcca ctttctcaat 20

<210> 497
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 497
cataacttgc caccttctca 20

<210> 498
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 498
acaccataac ttgccacctt 20

<210> 499
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 499
tcacaccata acttgccacc 20

<210> 500
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 500
tagtccctga cttcaacttg 20

<210> 501
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 501
tggtgttagt ccctgacttc 20

<210> 502
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 502
 gcggttcag cttcaggag 20

<210> 503
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 503
 tcatgaggat gatgacatgg 20

<210> 504
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 504
 ccgcccattgt tgtgcaatcc 20

<210> 505
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 505
 gtaattgggt ccccgcccat 20

<210> 506
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 506
 aagtcccga tctcatcaat 20

<210> 507
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 507
 aacacataga catccagata 20

<210> 508
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 508
 caaagcattg atgttcactt 20

<210> 509
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 509
 tttgaacaca tgttgctcat 20

<210> 510
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 510
 cttccagggt ttccatatcc 20

<210> 511
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 511
 tcttccaggt tttccatadc 20

<210> 512
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 512
 agactcagag actggctttc 20

<210> 513
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 513
gcctgccatg gttgcttggtg 20

<210> 514
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 514
tgactgagat cttggcctgc 20

<210> 515
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 515
ttctatctcc aggtcccgt 20

<210> 516
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 516
agtcataaaa ttcaggaatt 20

<210> 517
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 517
cgagttgttc cctcggtgca 20

<210> 518
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 518
agcctcaaag ctcgagttgt 20

<210> 519
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 519
 ggaggaagcc tcaaagctcg 20

<210> 520
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 520
 gtagttggag gaagcctcaa 20

<210> 521
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 521
 caagtggtag ttggaggaag 20

<210> 522
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 522
 tcctcagaca caaacagagc 20

<210> 523
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 523
 ttctcctcct cagacacaaa 20

<210> 524
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 524
 tagacctcct tccgagtcag 20

<210> 525
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 525
 ttgatgtaga cctccttccg 20

<210> 526
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 526
 ctttcttatc cccattcttg 20

<210> 527
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 527
 gcctttctta tccccattct 20

<210> 528
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 528
 agctgcctt cttatccca 20

<210> 529
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 529
 cagctgcctt tcttatcccc 20

<210> 530
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 530
acagctgcct ttcttatccc 20

<210> 531
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 531
gcatctctct cacagctgcc 20

<210> 532
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 532
agatgtcctt gactttgtca 20

<210> 533
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 533
cagcataggg actcactcct 20

<210> 534
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 534
ccgccagaat cacctctgca 20

<210> 535
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 535
tgaatgaaac gacttctctt 20

<210> 536
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 536
 acatccacta ctccccagct 20

<210> 537
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 537
 cgcttctggg ttttgcagac 20

<210> 538
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 538
 ttttgccgct tctggttttt 20

<210> 539
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 539
 gcaggtaacct gcttttgccg 20

<210> 540
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 540
 tcttgaggtt tctccttcag 20

<210> 541
 <211> 16
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 541
 ggaacatcca agcggg 16

<210> 542
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 542
 tggtcacatt cccttc 16

<210> 543
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 543
 cctggtcaca ttccct 16

<210> 544
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 544
 gacctggtca cattcc 16

<210> 545
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 545
 taacttgcca cttct 16

<210> 546
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 546
 cataacttgc cacctt 16

<210> 547
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 547
accataactt gccacc 16

<210> 548
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 548
ccttccgagt cagctt 16

<210> 549
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 549
ctccttccga gtcagc 16

<210> 550
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 550
acctccttcc gagtca 16

<210> 551
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 551
ctttcttatc cccatt 16

<210> 552
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 552
gcctttctta tcccca 16

<210> 553
<211> 16
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 553
 ctgcctttct tatccc 16

<210> 554
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 554
 tttgccgctt ctggtt 16

<210> 555
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 555
 cttttgccgc ttctgg 16

<210> 556
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 556
 tgcttttgcc gcttct 16

<210> 557
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 557
 aaaccctaat cctcat 16

<210> 558
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 558
 gaaaaccctaa atcctc 16

<210> 559
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 559
 tagaaaaccc aaatcc 16

<210> 560
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 560
 atagaaaacc caaatc 16

<210> 561
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 561
 cttatagaaa acccaa 16

<210> 562
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 562
 ccttatagaa aaccca 16

<210> 563
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 563
 cccttataga aaaccc 16

<210> 564
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 564
ccccttatag aaaacc 16

<210> 565
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 565
acccttata gaaaac 16

<210> 566
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 566
aacccttat agaaaa 16

<210> 567
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 567
aaaccctta tagaaa 16

<210> 568
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 568
gaaaccctt atagaa 16

<210> 569
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 569
ggaaaccct tataga 16

<210> 570
<211> 16
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 570
 aggaaacccc ttatag 16

<210> 571
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 571
 caggaaaccc cttata 16

<210> 572
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 572
 gcaggaaacc cttat 16

<210> 573
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 573
 agcaggaaac ccctta 16

<210> 574
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 574
 cagcaggaaa cccctt 16

<210> 575
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 575
 ccagcaggaa acccct 16

<210> 576
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 576
 tccagcagga aacccc 16

<210> 577
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 577
 gtccagcagg aaaccc 16

<210> 578
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 578
 tgtccagcag gaaacc 16

<210> 579
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 579
 ctgtccagca ggaaac 16

<210> 580
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 580
 cctgtccagc aggaaa 16

<210> 581
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 581
ccctgtccag caggaa 16

<210> 582
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 582
cccctgtcca gcagga 16

<210> 583
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 583
gcccctgtcc agcagg 16

<210> 584
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 584
cgcccctgtc cagcag 16

<210> 585
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 585
acgcccctgt ccagca 16

<210> 586
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 586
cacgcccctg tccagc 16

<210> 587
<211> 16
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 587
 ccacgcccct gtccag 16

<210> 588
 <211> 16
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 588
 cccacgcccc tgtcca 16

<210> 589
 <211> 16
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 589
 tcccacgccc ctgtcc 16

<210> 590
 <211> 16
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 590
 atcccacgcc cctgtc 16

<210> 591
 <211> 16
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 591
 aatcccacgc ccctgt 16

<210> 592
 <211> 16
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 592
 caatcccacg cccctg 16

<210> 593
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 593
 tcaatccac gccct 16

<210> 594
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 594
 ttcaatcca cgccc 16

<210> 595
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 595
 attcaatccc acgcc 16

<210> 596
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 596
 aattcaatcc cacgcc 16

<210> 597
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 597
 taattcaatc ccacgc 16

<210> 598
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 598
ttaaattcaat cccacg 16

<210> 599
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 599
tttaattcaa tccac 16

<210> 600
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 600
ttttaattca atccca 16

<210> 601
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 601
gtttaattc aatccc 16

<210> 602
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 602
tgttttaatt caatcc 16

<210> 603
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 603
ctgtttaat tcaatc 16

<210> 604
<211> 16
<212> DNA
<213> Artificial sequence

<220>		
<223>	Synthetic oligonucleotide	
<400>	604	
	gctgttttaa ttcaat	16
<210>	605	
<211>	16	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	605	
	agctgtttta attcaa	16
<210>	606	
<211>	16	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	606	
	cagctgtttt aattca	16
<210>	607	
<211>	16	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	607	
	gcagctgttt taattc	16
<210>	608	
<211>	16	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	608	
	cgcagctggt ttaatt	16
<210>	609	
<211>	16	
<212>	DNA	
<213>	Artificial sequence	
<220>		
<223>	Synthetic oligonucleotide	
<400>	609	
	tcgcagctgt tttaat	16

<210> 610
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 610
 gtcgcagctg ttttaa 16

<210> 611
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 611
 tgtcgagct gtttta 16

<210> 612
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 612
 ttgtcgagc tgtttt 16

<210> 613
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 613
 gttgtcgag ctgttt 16

<210> 614
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 614
 tggtgtcgca gctgtt 16

<210> 615
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 615
ttgttgtcgc agctgt 16

<210> 616
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 616
tttgttgtcg cagctg 16

<210> 617
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 617
ttttgttgtc gcagct 16

<210> 618
<211> 16
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 618
tttttgttgt cgcagc 16

<210> 619
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 619
gaaaacccaa atcctca 17

<210> 620
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 620
agaaaaccga aatcctc 17

<210> 621
<211> 17
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 621
 tagaaaaccc aaatcct 17

<210> 622
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 622
 atagaaaacc caaatcc 17

<210> 623
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 623
 ttatagaaaa cccaaat 17

<210> 624
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 624
 cttatagaaa acccaaa 17

<210> 625
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 625
 ccttatagaa aacccaa 17

<210> 626
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 626
 cccttataga aaaccba 17

<210> 627
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 627
 ccccttatag aaaaccc 17

<210> 628
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 628
 accccttata gaaaacc 17

<210> 629
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 629
 aacccttat agaaaac 17

<210> 630
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 630
 aaaccctta tagaaa 17

<210> 631
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 631
 gaaaccctt atagaaa 17

<210> 632
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 632
ggaaaccct tatagaa 17

<210> 633
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 633
aggaaacccc ttataga 17

<210> 634
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 634
caggaaacc cttatag 17

<210> 635
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 635
gcaggaaacc cttata 17

<210> 636
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 636
agcaggaaac cccttat 17

<210> 637
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 637
cagcaggaaa cccctta 17

<210> 638
<211> 17
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 638
 ccagcaggaa acccctt 17

<210> 639
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 639
 tccagcagga aaccctt 17

<210> 640
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 640
 gtccagcagg aaacccc 17

<210> 641
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 641
 tgtccagcag gaaaccc 17

<210> 642
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 642
 ctgtccagca ggaaacc 17

<210> 643
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 643
 cctgtccagc aggaaac 17

<210> 644
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 644
 ccctgtccag caggaaa 17

<210> 645
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 645
 gcccctgtcc agcagga 17

<210> 646
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 646
 cgcccctgtc cagcagg 17

<210> 647
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 647
 acgcccctgt ccagcag 17

<210> 648
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 648
 cacgcccctg tccagca 17

<210> 649
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 649
ccacgcccct gtccagc 17

<210> 650
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 650
cccacgcccc tgtccag 17

<210> 651
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 651
tcccacgccc ctgtcca 17

<210> 652
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 652
atcccacgcc cctgtcc 17

<210> 653
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 653
aatcccacgc ccctgtc 17

<210> 654
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 654
caatcccacg cccctgt 17

<210> 655
<211> 17
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 655
 tcaatcccac gccctg 17

<210> 656
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 656
 ttcaatccca cgccct 17

<210> 657
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 657
 attcaatccc acgccc 17

<210> 658
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 658
 aattcaatcc cacgcc 17

<210> 659
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 659
 taattcaatc ccacgcc 17

<210> 660
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 660
 ttaattcaat cccacgc 17

<210> 661
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 661
 ttttaattcaa tcccacg 17

<210> 662
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 662
 ttttaattca atcccac 17

<210> 663
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 663
 gttttaattc aatccca 17

<210> 664
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 664
 tgtttaatt caatccc 17

<210> 665
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 665
 ctgtttaat tcaatcc 17

<210> 666
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 666
gctgttttaa ttcaatc 17

<210> 667
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 667
agctgtttta attcaat 17

<210> 668
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 668
cagctgtttt aattcaa 17

<210> 669
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 669
gcagctgttt taattca 17

<210> 670
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 670
cgcagctgtt ttaattc 17

<210> 671
<211> 17
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 671
tcgcagctgt tttaatt 17

<210> 672
<211> 17
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 672
 gtcgcagctg ttttaat 17

<210> 673
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 673
 tgtcgcagct gttttaa 17

<210> 674
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 674
 ttgtcgcagc tgtttta 17

<210> 675
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 675
 gttgtcgcag ctgtttt 17

<210> 676
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 676
 tgttgtcgca gctgttt 17

<210> 677
 <211> 17
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 677
 ttgttgtcgc agctgtt 17

<210> 678
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 678
 tttgttgtcg cagctgt 17

<210> 679
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 679
 ttttgttgtc gcagctg 17

<210> 680
 <211> 17
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 680
 tttttgttgt cgcagct 17

<210> 681
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 681
 tagaaaaccc aaatcctca 19

<210> 682
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 682
 atagaaaacc caaatcctc 19

<210> 683
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 683
tatagaaaac ccaaatacct 19

<210> 684
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 684
cttatagaaa acccaaatac 19

<210> 685
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 685
ccttatagaa aacccaaatac 19

<210> 686
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 686
cccttataga aaacccaaaa 19

<210> 687
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 687
ccccttatag aaaaccctaa 19

<210> 688
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 688
acccttatata gaaaaccctaa 19

<210> 689
<211> 19
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 689
 aacccttat agaaaacc 19

<210> 690
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 690
 aaaccctta tagaaaacc 19

<210> 691
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 691
 gaaaccctt atagaaaac 19

<210> 692
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 692
 ggaaaccct tatagaaa 19

<210> 693
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 693
 aggaaacccc ttatagaaa 19

<210> 694
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 694
 caggaaaccc cttatagaa 19

<210> 695
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 695
 gcaggaaacc ctttataga 19

<210> 696
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 696
 agcaggaaac cccttatag 19

<210> 697
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 697
 cagcaggaaa ccccttata 19

<210> 698
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 698
 ccagcaggaa accccttat 19

<210> 699
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 699
 tccagcagga aaccctta 19

<210> 700
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 700
gtccagcagg aaaccctt 19

<210> 701
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 701
tgtccagcag gaaaccct 19

<210> 702
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 702
cctgtccagc aggaaacc 19

<210> 703
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 703
ccctgtccag caggaaacc 19

<210> 704
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 704
cccctgtcca gcaggaaac 19

<210> 705
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 705
gcccctgtcc agcaggaaa 19

<210> 706
<211> 19
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 706
 acgcccctgt ccagcagga 19

<210> 707
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 707
 cacgcccctg tccagcagg 19

<210> 708
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 708
 ccacgcccct gtccagcag 19

<210> 709
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 709
 cccacgcccc tgtccagca 19

<210> 710
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 710
 tcccacgccc ctgtccagc 19

<210> 711
 <211> 19
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 711
 atcccacgcc cctgtccag 19

<210> 712
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 712
 aatcccacgc ccctgtcca 19

<210> 713
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 713
 caatcccacg cccctgtcc 19

<210> 714
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 714
 tcaatcccac gccctgtc 19

<210> 715
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 715
 ttcaatccca cgcccctgt 19

<210> 716
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 716
 attcaatccc acgcccctg 19

<210> 717
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 717
aattcaatcc cacgcccct 19

<210> 718
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 718
taattcaatc ccacgcccc 19

<210> 719
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 719
ttaattcaat cccacgccc 19

<210> 720
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 720
tttaattcaa tcccacgcc 19

<210> 721
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 721
ttttaattca atcccacgc 19

<210> 722
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 722
gtttaattc aatcccacg 19

<210> 723
<211> 19
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 723
 tgttttaatt caatcccac 19

<210> 724
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 724
 ctgttttaatt tcaatccca 19

<210> 725
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 725
 gctgttttaa ttcaatccc 19

<210> 726
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 726
 agctgtttta attcaatcc 19

<210> 727
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 727
 cagctgtttt aattcaatc 19

<210> 728
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 728
 gcagctgttt taattcaat 19

<210> 729
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 729
 cgcagctggt ttaattcaa 19

<210> 730
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 730
 tcgcagctgt ttttaattca 19

<210> 731
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 731
 gtcgcagctg ttttaattc 19

<210> 732
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 732
 tgtcgcagct gttttaatt 19

<210> 733
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 733
 ttgtcgcagc tgttttaat 19

<210> 734
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 734
gttggtcgcag ctgttttaa 19

<210> 735
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 735
tgtgtgcga gctgtttta 19

<210> 736
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 736
ttgtgtcgc agctgtttt 19

<210> 737
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 737
tttgtgtcg cagctgttt 19

<210> 738
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 738
ttttgtgtgc gcagctgtt 19

<210> 739
<211> 19
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 739
ttttgttgt cgcagctgt 19

<210> 740
<211> 18
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 740
 ccccttatag aaaacca 18

<210> 741
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 741
 accccttata gaaaaccc 18

<210> 742
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 742
 aacccttat agaaaacc 18

<210> 743
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 743
 aaaccctta tagaaaac 18

<210> 744
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 744
 gaaaccctt atagaaaa 18

<210> 745
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 745
 aggaaacccc ttatagaa 18

<210> 746
 <211> 18
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 746
 caggaaaccc cttataga 18

<210> 747
 <211> 18
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 747
 gcaggaaacc cttatag 18

<210> 748
 <211> 18
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 748
 agcaggaaac cccttata 18

<210> 749
 <211> 18
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 749
 cagcaggaaa ccccttat 18

<210> 750
 <211> 18
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 750
 ccagcaggaa acccctta 18

<210> 751
 <211> 18
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> synthetic oligonucleotide

<400> 751
tccagcagga aaccctt 18

<210> 752
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 752
gtccagcagg aaaccct 18

<210> 753
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 753
tgtccagcag gaaacccc 18

<210> 754
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 754
ctgtccagca ggaaaccc 18

<210> 755
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 755
cctgtccagc aggaaacc 18

<210> 756
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 756
ccctgtccag caggaaac 18

<210> 757
<211> 18
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 757
 cccctgtcca gcaggaaa 18

<210> 758
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 758
 cgcccctgtc cagcagga 18

<210> 759
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 759
 acgcccctgt ccagcagg 18

<210> 760
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 760
 cagcccctg tccagcag 18

<210> 761
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 761
 ccacgcccct gtccagca 18

<210> 762
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 762
 cccacgcccc tgtccagc 18

<210> 763
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 763
 tcccacgccc ctgtccag 18

<210> 764
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 764
 atcccacgcc cctgtcca 18

<210> 765
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 765
 aatcccacgc ccctgtcc 18

<210> 766
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 766
 caatcccacg cccctgtc 18

<210> 767
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 767
 tcaatcccac gccctgt 18

<210> 768
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 768
ttcaatccca cgcccctg 18

<210> 769
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 769
attcaatccc acgcccct 18

<210> 770
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 770
aattcaatcc cacgcccc 18

<210> 771
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 771
taattcaatc ccacgccc 18

<210> 772
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 772
ttaattcaat cccacgcc 18

<210> 773
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 773
tttaattcaa tcccacgc 18

<210> 774
<211> 18
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 774
 ttttaattca atcccacg 18

<210> 775
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 775
 gttttaattc aatcccac 18

<210> 776
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 776
 tgttttaatt caatccca 18

<210> 777
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 777
 ctgttttaatt tcaatccc 18

<210> 778
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 778
 gctgttttaa ttcaatcc 18

<210> 779
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 779
 agctgtttta attcaatc 18

<210> 780
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 780
 cagctgtttt aattcaat 18

<210> 781
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 781
 gcagctgttt taattcaa 18

<210> 782
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 782
 cgcagctggt ttaattca 18

<210> 783
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 783
 tcgcagctgt tttaattc 18

<210> 784
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 784
 gtcgcagctg ttttaatt 18

<210> 785
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 785
tagaaaacc aaatcctc 18

<210> 786
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 786
atagaaaacc caatcct 18

<210> 787
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 787
tatagaaac ccaaacc 18

<210> 788
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 788
ttatagaaa cccaaacc 18

<210> 789
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 789
cttatagaa acccaaacc 18

<210> 790
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 790
ccttatagaa aacccaaa 18

<210> 791
<211> 18
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 791
 cccttataga aaacccaa 18

<210> 792
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 792
 tgtcgcagct gttttaat 18

<210> 793
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 793
 ttgtcgcagc tgttttaa 18

<210> 794
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 794
 gttgtcgcag ctgtttta 18

<210> 795
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 795
 tgttgtcgca gctgtttt 18

<210> 796
 <211> 18
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 796
 ttgttgtcgc agctgttt 18

<210> 797
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 797
 tttgttgtcg cagctgtt 18

<210> 798
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 798
 ttttgttgtc gcagctgt 18

<210> 799
 <211> 18
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 799
 tttttgttgt cgcagctg 18

<210> 800
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 800
 aaaaccctca tcctca 16

<210> 801
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 801
 agaaaaccct aatcct 16

<210> 802
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 802 tatagaaaac ccaaat	16
<210> 803 <211> 16 <212> DNA <213> Artificial sequence	
<220> <223> Synthetic oligonucleotide	
<400> 803 ttatagaaaa cccaaa	16
<210> 804 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Synthetic oligonucleotide	
<400> 804 gcataagagg gtaccagctg	20
<210> 805 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Synthetic oligonucleotide	
<400> 805 gtcctttagc cagggcagca	20
<210> 806 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Synthetic oligonucleotide	
<400> 806 tccacccatg ttgtgcaagc	20
<210> 807 <211> 20 <212> DNA <213> Artificial sequence	
<220> <223> Synthetic oligonucleotide	
<400> 807 ccacaccatg ccacagagac	20
<210> 808 <211> 20 <212> DNA <213> Artificial sequence	

<220>
 <223> Synthetic oligonucleotide
 <400> 808
 ttccgagtca ggctcttccc 20

<210> 809
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 809
 cttccctga aggttcctcc 20

<210> 810
 <211> 21
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Primer
 <400> 810
 agtctctgtg gcatggtttg g 21

<210> 811
 <211> 21
 <212> DNA
 <213> Artificial sequence

<220>
 <223> primer
 <400> 811
 gggcgaatga ctgagatctt g 21

<210> 812
 <211> 27
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Probe
 <400> 812
 taccgattac cacaagcaac catggca 27

<210> 813
 <211> 22
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Primer
 <400> 813
 cgaagcagct caatgaaatc aa 22

<210> 814
 <211> 18
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Primer

 <400> 814
 tgcctggagg gccttctt 18

<210> 815
 <211> 18
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Probe

 <400> 815
 agaccacaag ttgaagtc 18

<210> 816
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Primer

 <400> 816
 gggcaaacag caatttgtga 20

<210> 817
 <211> 20
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Primer

 <400> 817
 tggctaccca ctttccttgt 20

<210> 818
 <211> 28
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Probe

 <400> 818
 ctggatactg tcccaatccc ggtattcc 28

<210> 819
 <211> 22
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> Synthetic oligonucleotide

<400> 819
cgaagaagct cagtgaatc aa 22

<210> 820
<211> 18
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 820
tgcctggagg gccctctt 18

<210> 821
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 821
agcttcttgt ccagctttat 20

<210> 822
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 822
agcttcttgt ccagctttat a 21

<210> 823
<211> 14
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 823
tcagtcatga cttc 14

<210> 824
<211> 15
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 824
tcagtcatga cttca 15

<210> 825
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 825
 gctgattaga gagaggtccc 20

<210> 826
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 826
 tcccatttca ggagacctgg 20

<210> 827
 <211> 15
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 827
 atcagtcag acttc 15

<210> 828
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 828
 cggtgcaagg cttaggaatt 20

<210> 829
 <211> 20
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 829
 gcttcagtca tgacttcctt 20

<210> 830
 <211> 21
 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 830
 gcttcagtca tgacttcctt a 21

<210> 831
 <211> 21
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 831
 agcttcagtc atgacttcct t 21

<210> 832
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 832
 tggtaatcca ctttcagagg 20

<210> 833
 <211> 21
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 833
 tggtaatcca ctttcagagg a 21

<210> 834
 <211> 21
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 834
 tgcttcagtc atgacttcct t 21

<210> 835
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 835
 cactgatttt tgcccaggat 20

<210> 836
 <211> 21
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

<400> 836
cactgatttt tgcccaggat a 21

<210> 837
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 837
aagcttcttg tccagcttta t 21

<210> 838
<211> 20
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 838
accaattca gaaggaagga 20

<210> 839
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 839
accaattca gaaggaagga a 21

<210> 840
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 840
aaccaattc agaaggaagg a 21

<210> 841
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> Synthetic oligonucleotide

<400> 841
atggtaatcc actttcagag g 21

<210> 842
<211> 20
<212> DNA
<213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide
 <400> 842
 tcttggttac atgaaatccc 20

<210> 843
 <211> 21
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 843
 tcttggttac atgaaatccc a 21

<210> 844
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 844
 attcactttc ataatgctgg 20

<210> 845
 <211> 21
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 845
 attcactttc ataatgctgg a 21

<210> 846
 <211> 21
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 846
 atcttggtta catgaaatcc c 21

<210> 847
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> Synthetic oligonucleotide
 <400> 847
 tgctccgttg gtgcttggtc 20

<210> 848
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 848
 atgcatggtg atgcttctga 20

<210> 849
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 849
 cagctttatt agggacagca 20

<210> 850
 <211> 21
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 850
 cagctttatt agggacagca a 21

<210> 851
 <211> 21
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 851
 acagctttat tagggacagc a 21

<210> 852
 <211> 16
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide
 <400> 852
 ttcagtcag acttcc 16

<210> 853
 <211> 20
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> synthetic oligonucleotide

BIOL0251WSEQ_ST25

```

<220>
<221> misc_feature
<222> (1)..(5)
<223> Bases at these positions are RNA

<220>
<221> misc_feature
<222> (16)..(20)
<223> Bases at these positions are RNA

<400> 853
gcuucagtca tgactuccuu                                20

<210> 854
<211> 21
<212> DNA
<213> Artificial sequence

<220>
<223> synthetic oligonucleotide

<400> 854
tgctccgttg gtgcttggtc a                                21

```