

# SEQUENCE LISTING

<110> COMMISSARIAT A L'ENERGIE ATOMIQUE (CEA)

Imperial Innovations Limited  
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 Liming, LIANG

<120> Method for testing a subject thought to have or to be  
 predisposed to asthma

<130> 353172

<150> EP07301135.5

<151> 2007-06-20

<160> 71

<170> PatentIn version 3.3

<210> 1

<211> 2109

<212> DNA

<213> Homo sapiens

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attaaaaanag	ggctgtgtta	aaatagtgc	tgaattgtcn	ggaaaagctt	ttctgaagaa	18
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ttggatantc taatttctga tttgtcatgc catgtcatag agccatcata taaatgccat 18  
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tataaatngg gaaaaacgtt tatatcactg ccagggtttgt gcagatgtca gtggcctaga 18  
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gactcttntc cctctctgtg agccagctcc tattnaagat taatcgcttc tgagactgga      18
aaaccaagga acacagcacc ccatcgcagt tcactttacc cacctcgggg tggaggtngg      24
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acaaacangc atggactcgg ccctgattga tcaggcacta ataagggcct tggttctgag      18
tcagttgcc a cccaggttc gtggaggatg tgtgggcatg ccgaaggggc tgcgtgcctt      24
tgtctccaan ctccc                                         255

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tcggtgcnaa aagaattggc aagtgacact ggtgttcgga aaaaataaag taaatgaaga      18
tggcgatgat catgataata ccctcctcat gttgtggata ttaaatgggt cagtaaatgt      24
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caatacancc ccgacacaac caacagagtg atccagacat caaatctaata tttaaaacct    18
ttcaatccga ccagatgcgg tggctcacgc ttgtaatccc aacacttttg gaagtcgagg    24
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```

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agctggcnac tccacccctt cctgggtccc tcccaatccc tattccacat cccctgctgt    18
gtggctccct aatgcctgca cctacgtgtc ccctcctgga ggcaacacta tatatatattgg    24
gtgcaggggc ggggtg                                     255

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<210> 11
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<220>
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<223> n = a, t, g or c

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aaccctcnag gggacctgac accacttgac agcctcatcg acttcaagcg cttccatccc    18
ttctgcctgg tgctgaggaa gaggaagagc acgctcttct gggggggccc gtacgtccgc    24
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<223> n = c or t

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cagagacngg	aaggcacagt	cagaagcaga	agtaagactt	ggagactgag	tgtgttcccg	18
aatcatgggg	gtgnatgagc	tagcataatc	tccctgtgtt	tttataatga	tactgatga	24
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<223> n = a or g

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gggacaanct	gcctttaact	taagacacat	ttatctgcta	atgatagaat	aaggaagatt	18
aacattaaaa	ctaacattaa	aaaaaactca	acattaacaa	caccattaat	cacaacagtc	24
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ggtggcgnet	tgggcagagc	tggcgctcca	caagtgatta	ttgatggtga	caggattccc	18
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gaggctgntg gggaggaaac aggcagctgt cctcccggta gagctaagan cacactcagt 18  
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aaattacntg acatattgtg acacctgtca cacagtgagt gctcaatacg ttgggttcttt     18
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tctgttanta acccgctctc tcgctgttag acatctctct cactgcctgt ctctgggtct     18
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acatctcngg gaccactcat tccactgctg tagaagataa tgaccaaata ccttttttggc     18
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<223> n = a, t, g or c

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<223> n = a, t, g or c

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ctttgacnga gtctcttggg  cagatgggcg ggggcttgag gagttcgtaa gagcggggaa      18
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tattcctngt taccaccaa actgggtcttt agagtcattt ccagataaac attantctgt      18
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aagttttnat	ggattatfff	taatgaaatg	ttttattgtt	tacaaacggg	atgttgctgt	18
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tataaatngg	gaaaaacggt	tatatcactg	ccagggtttg	gcagatgtca	gtggcctaga	18
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aattgaacat	taatt					255

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 <223> n = t or c

<400> 25						
tttactctgc	cacaacacac	aaaaaaaactt	caaatagaac	agtaagcatt	accattctct	6
tgttttttca	ccttttata	tgtgaagtac	atcatggata	cagaaaagt	tattttaatat	12
aaaaccgnag	cttaatgaat	aattaccaa	taaactcctg	agctaccgc	caccaggtg	18
aagaaataaa	atattgttag	cattcttgaa	accacccct	ttcagatgt	caacccttt	24
cagatatgat	tctcc					255

<210> 26  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (120)..(120)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or a

<400> 26  
tgaaatgatc ccatcatttt tcttcttaaa ttgctagtgt ggtaaattac attaatTTTT 6  
caatgttaag ccagccttga aatcccagat aaatccagtt tatattatta ttttctacn 12  
gtgatttngt ttgctgattt gtttttctgt ttttctatct aagctcacga atgagactgg 18  
cctgcatttt cctttctctt attgttcttg ttaagttttg ctagtgttgt ggatgaattg 24  
gaaagtgtct ctgaa 255

<210> 27  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (36)..(36)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (71)..(71)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or a

<220>  
<221> misc\_feature  
<222> (149)..(149)  
<223> n = a, t, g or c

<400> 27  
caccagcc tacagcgaga cccttcctca cctagnaggg catccaggaa gtccagaatg 6  
gcttttgcac ncgcttctac caagacccca gcagcattaa aaaggctgct taggagaggc 12  
ttgtctngt cctccatgtg tagctcccng gaaatcagga cctcagatac ctagggccag 18  
gaagtgtggg agatgagcag cagtctcacc atagcagatt atcctcactg tgccaactgc 24  
catcccctct ggctc 255

<210> 28

<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (15)..(15)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (50)..(50)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (107)..(107)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = c or t

<220>  
<221> misc\_feature  
<222> (237)..(237)  
<223> n = a, t, g or c

<400> 28  
ccttcctcac ctagnagggc atccaggaag tccagaatgg cttttgcaen cgctttctacc 6  
aagaccccag cagcattaata aaggctgctt aggagaggct tgtctgngtc ctccatgtgt 12  
agctcccnng aaatcaggac ctacagatacc tagggccagg aagtgtggga gatgagcagc 18  
agtctcacca tagcagatta tcctcactgt gccaaactgcc atcccctctg gctcctntct 24  
ctctctgccc caagg 255

<210> 29  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (94)..(94)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or a

<220>  
<221> misc\_feature  
<222> (139)..(139)  
<223> n = a, t, g or c

<400> 29  
aattaggatt tggagaaagt taaagcagtg gttctcaacc ttgactacat gagaatcacc 6

tgaggagtta	ttacaaatcc	tgatgtccag	gccncacccc	cacaattaag	tcagagtttc	12
tggagacngg	actcagtcnt	cactagtttt	aaagtttcct	ggtgtgattt	tggggataa	18
ccaatgagaa	ccactgtgtt	tagaggagac	agatgcagcc	tccagactaa	agttgaaacc	24
tgctaggcag	tgct					255

<210> 30  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (101)..(101)  
 <223> n = a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n = g or a

<220>  
 <221> misc\_feature  
 <222> (211)..(211)  
 <223> n = a, t, g or c

<400> 30						
ttgatcgga	tgaaaaggt	agttccctct	tcagcttcct	ggagagagt	gagagagat	6
agagttaag	atctcaggg	cttacctccc	actgactctt	ntccctctct	gtgagccag	12
tcctattnaa	gattaatcg	ttctgagact	ggaaaaccaa	ggaacacag	acccatcgc	18
agttcacttt	accacactcg	gggtggaggt	nggggtgggg	tacaaagtag	ggtgagaggc	24
caggtacggt	ggcta					255

<210> 31  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n = c or t

<400> 31						
agctccttgc	gctgggtccct	ggagccagct	gcatcatctg	cccttaggct	catgaagcat	6
cagattccat	tcccgctggg	ggaaactcat	ggtgagacct	aaaacagtct	gatggagttt	12
ctatttgnaa	tcaaaaggcc	ctcaagacat	gggtccctgc	ctccgatgac	tttcccctac	18
ctatccagt	ccccacccca	catacagata	ccaataccct	cacctgacaa	acaagcattc	24
tataatagaa	aacac					255

<210> 32  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
<222> (128)..(128)  
<223> n = c or t

<220>  
<221> misc\_feature  
<222> (205)..(250)  
<223> n = a, t, g or c

<400> 32  
agatcaagcc actgcactcc agcctgggcg acagcgagac tccatctcca ataaaagcag 6  
ttctgtcgct gttgtttgta tgaaccacac aagtatgaag tgaggcaacc ctggaaagtc 12  
acaaacangc atggactcgg ccctgattga tcaggcacta ataagggcct tggttctgag 18  
tcagttgccca ccccagggttc gtggaggatg tgtgggcatg ccgaaggggc tgcgtgcctt 24  
tgtctccaan ctccc 255

<210> 33  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (50)..(50)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (113)..(113)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or a

<400> 33  
agaatgtact ttgtaagcct atcccaaaca tataagaact aatgataatn ccaccaccc 6  
ttgctgaccc cttttttgga ctcagcttgc ctgcacccag ccttgttgct canataaagc 12  
ccgtttcntg gactctcttc acatggacgc acgtgacatg aggtcaagga agagccaaag 18  
gttcaggac aatcagtacc tggaatgatt tgccctgcctt acttctagaa cgtgaggcag 24  
ccatgactca gtaaa 255

<210> 34  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = c or t

<400> 34  
accagggagg aatgacgggc acggttgcc aacttcacat tactaacctc aactgggtcgt 6  
ttcttcctt ggctctgatt cttgggctcc ctgccttgct gtattctgca aggcaattgg 12  
atgggtgnct ccctaccaac aatttcccaa tgagggtggtg gtaaattggc ctcagaagaa 18

acaaaagctt cctgggatcc acttccccat cctacctttg gccaccttcc cctatatccc	24
ttctgcccag cacag	255

<210> 35  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (48)..(48)  
 <223> n = a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (93)..(93)  
 <223> n = a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n = g or a

<220>  
 <221> misc\_feature  
 <222> (139)..(139)  
 <223> n = a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (180)..(180)  
 <223> n = a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (201)..(201)  
 <223> n = a, t, g or c

<400> 35	
agacacaggg aaacagaaac atgttgccct tttatttgcg tttctcanaa tactgtacaa	6
agggagtaaa aatcctattc acactttgct tanaaagatt ttaaggtgaa agttccctat	12
gatacacngg gtgggagang cagggtcagg agggagaaaa caggcccagt gacctctcn	18
gttcccttgg acccctggaa naggacacag ggaccacac cttttcaaaa ttaacactgc	24
ccctagtcca actgg	255

<210> 36  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n = g or a

<220>  
 <221> misc\_feature

<222> (175)..(175)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (210)..(210)  
<223> n = a, t, g or c

<400> 36  
ggtcacacag aggcacgcag cccaggggca gagaagtcaa ggcccatccc ccagcctcac 6  
cccctatggc actcccatga ggaccctctg ccgacaaagc cccagggaga gaattctcac 12  
tcagcacnac ccctgctgga ctgtgtctca ctgaaggcct aatgtgggac atctnctctt 18  
aagctcttcc catcaggagg gaaaggaagn gaggcctgtg ggtacaggca gcagtggatg 24  
aactattttg aggtc 255

<210> 37  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (81)..(81)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or a

<220>  
<221> misc\_feature  
<222> (163)..(163)  
<223> n = a, t, g or c

<400> 37  
ccccagcct cacccttat ggcaactcca tgaggaccct ctgccgacaa agccccaggg 6  
agagaattct cactcagcac naccctgtct ggactgtgtc tcaactgaagg cctaattgtg 12  
gacatctnct cttaagctct tcccatcagg agggaaagga agngaggcct gtgggtacag 18  
gcagcagtgg atgaactatt ttgaggtcac tgcacccact cacctcctct gattttttca 24  
attctggatc tcccc 255

<210> 38  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = t or c

<400> 38  
ctgcaggatt ttccactgc acctggctgc ctccgccctg gccccagatt ggctcctcca 6  
gaaacagact agccccggccc ttgcccctgc tgggccctcc tgggagagcg cttttcacaa 12  
cattggcngg gatgaggggtc tggagggccc ggaacggagc ctgccttctc cttctcagtc 18  
acgtttggcc caggctgccc cggaccgggc cacatccttg gccgccccgc acctgacgtg 24



agaagaggct acgta

255

<210> 39  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (124)..(124)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = a or c

<400> 39  
tctgcctatg tcctgtggaa gtttctcctg gtttgtggag gtgcctttcc ttatagtcac 6  
ctttctgcag acataagcaa acccagtgtt gttcttttca cagaaacctc cccagcatta 12  
aggnaagnaa ggtgtctctg ttttttccga agtgtgcctg cttgactcct ttgatttttc 18  
tctgggattc ttcacacctc atcaagttga tcgatccctc tggatcttgg tcagtttcct 24  
gacatctcta tgaag 255

<210> 40  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = t or c

<220>  
<221> misc\_feature  
<222> (197)..(197)  
<223> n = a, t, g or c

<400> 40  
tgcactatta ataactcctg ttatcgagga ttttttttcc acaataggaa tgaacagagt 6  
tctgactcac tctaggtttg tggtaaattg cagatcactt tctgctttat tttagcgggag 12  
tccctgtngt catctttctc ctctctctct ggccctcata attatcatat cttccccaaa 18  
cgttcttcag ctgtgantag ccctaagcac tattcagagt gagtgcacgc tctcttattt 24  
cgtgctgggg gacat 255

<210> 41  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (59)..(59)  
<223> n = a, t, g or c

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<220>
<221> misc_feature
<222> (128)..(128)
<223> n = a or c

<400> 41
ctctagggttt gtggtaaatt gcagatcact ttctgcttta tttagcgggga gtccctgtng      6
tcattctttct ccttctctct tggccctcat aattatcata tcttccccaac acgttcttca    12
gctgtganta gccctaagca ctattcagag tgagtgcagag ctctcttatt tcgtgctggg      18
ggacatacaa acccttggac aaacacttgt cactgtgtgc caagaagctg aaaaattctt      24
cttgccctcag agcca                                     255

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<210> 42
<211> 255
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (128)..(128)
<223> n = t or c

<400> 42
atagagcagc actggttaaca tcctctggca ccagactgcc aggggttcaac tcgcagctcc      6
tctagttacc agctgtgtaa ccttaagcaa gttactgaac ctctctgtgc ttcagttacc    12
tcgttgcnaa aagaattggc aagtgcact ggtgttcgga aaaaataaag taaatgaaga      18
tggcgatgat catgataata ccctcctcat gttgtggata ttaaatgggt cagtaaattgt      24
gaaatgaaac actca                                     255

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<210> 43
<211> 255
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (128)..(128)
<223> n = a or g

<400> 43
attgcttgaa cccgggaggc ggaggctgca gagagcagag atggcgccat tttactccag      6
cctgggcaac aagagtggaa ctttgtctca aaaaataaag aaaggaagga aggaaggaag    12
aaagacanca acaaaaaaac cttgaatcag gatgaaggga tttagggtga tctttttcat      18
tctctagttt caaacttcac gtaatgtggt attactttta aattttttat taaaattggt      24
taaaaacaaa atgag                                     255

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<210> 44
<211> 255
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (128)..(128)

```

<223> n = a or g

<400> 44

aggcctacct	cacctgtcac	cttctcggtg	cagccttccc	cagtgtccaa	gcagagtcca	6
ctgcttcac	ctccaggctg	ctgtgaccct	ggcggatccc	tcaacccaag	ccttccctta	12
ggtgatcnga	gggctatatt	tgtgcacaca	ccagtcttcc	ctcattggct	gggggacatt	18
tagttctcag	ccaggcgcg	tggctctaca	caaaaataca	aaagttagct	gggtgtggtg	24
gtgtgcgct	gtagt					255

<210> 45

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (26)..(26)

<223> n = a, t, g or c

<220>

<221> misc\_feature

<222> (128)..(128)

<223> n = c or g

<400> 45

tggccaacat	ggcgaaacct	catctntgct	aaaaatacaa	aaattacctg	ggtgtggtga	6
tgcaggcctg	taatcccagc	tactcaggag	gctgaggcag	gagaatcact	tgaatctggg	12
aagtgaangt	tgtagtgaag	cgagatcatg	caattgcact	ccagcctggg	tgcactcaga	18
gagagactcc	agactctgca	ctccagagag	agactccatc	tcaaagaaaa	aaaaaaaaaa	24
aaaggtaggg	agagg					255

<210> 46

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (128)..(128)

<223> n = c or t

<400> 46

aggaggtctg	ggcactgcga	ggagccagga	aatgaggaac	cctggacaga	catgttttcc	6
aaggaaagac	taggggaagt	ttgctcaccg	tggaagaagg	ggccaccgag	catggaagaa	12
tgtgccangg	cgtgaaagaa	tggcagaagg	gagtagggag	aggaatggag	ttgggggaat	18
acaggttgct	ggagacactg	gatgtgagat	ggggcccacc	cagttctgcc	cgccaggcct	24
gccaagcagg	gatcc					255

<210> 47

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (128)..(128)

<223> n = c or t

<220>

<221> misc\_feature

<222> (226)..(226)

<223> n = a, t, g or c

<400> 47

tcgggggtgc	tcctgctggg	ctggaggcca	gcttcccatc	tccccttctg	ctccccagcc	6
cctgccacca	gagtccatct	gctggactgg	ccaggactgt	gccgacacac	tcagagcggc	12
tcctgcangg	aacgactgcc	ccagaatccc	ggactgctcc	ctctgcatcc	tgacccccgg	18
cttgtgcttg	tccactgggc	aggcaggagg	gggtgacgta	actggnttca	ctcccatcct	24
cacctctgcc	atgga					255

<210> 48

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (128)..(128)

<223> n = g or a

<400> 48

aaggggaggg	gaggcggcct	cccaagggac	ggttcctact	ctgagccaag	ccctcagagc	6
tgagctgaag	tctggaagtt	tggagtcttc	catttctggt	tgggctctgc	ccccaaacc	12
agctggcnac	tccacccct	cctgggtccc	tcccaatccc	tattccacat	ccctgctgt	18
gtggctccct	aatgcctgca	cctacgtgtc	ccctcctgga	ggcaacacta	tatatattgg	24
gtgcaggggc	gggtg					255

<210> 49

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (81)..(81)

<223> n = a, t, g or c

<220>

<221> misc\_feature

<222> (128)..(128)

<223> n = g or a

<400> 49

ccttggcgca	ggacacctct	tccgtttggg	ctttccgtcc	tcgtgatttc	gctctccatc	6
tgacagtcac	ccatggtgac	ngggtgtgtc	cctttccct	aaacaggatc	ctcaatgccc	12
atcggaanac	gttgtaaggc	gttgagcccc	caacgcccc	tcaccacaag	accctgctgt	18
gaccatcttt	tcctgggtgag	gagagtctgc	acggggggagc	agggcgccat	accccagaaa	24
gaaacctctg	tgccct					255

<210> 50

<211> 255

<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or c

<220>  
<221> misc\_feature  
<222> (248)..(248)  
<223> n = a, t, g or c

<400> 50  
ctcctgacct caagtgatcc gctccctca gcttcccaaa gtgctgggat tacaggtgtg 6  
aaccaccaca cccggccccc agagccactt tacaatgcc tgccacaga aggagggaga 12  
gcatgccttg tccctcatgc cctttcctct cctttaccct ctgcagagct gagtgaggtg 18  
caacagcagc tgctggccat gtccagggag aaggggatcc tttcccaata ggtggagctg 24  
gagaggggcc tgggg 255

<210> 51  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (8)..(8)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or a

<220>  
<221> misc\_feature  
<222> (193)..(193)  
<223> n = a, t, g or c

<400> 51  
gcatgccttg tccctcatgc cctttcctct cctttaccct ctgcagagct gagtgaggtg 6  
caacagcagc tgctggccat gtccagggag aaggggatcc tttcccaata ggtggagctg 12  
gagaggggcc tgggggatga caacgaggag aaaattgagt ttgagctcat ccagctccac 18  
ccccacactt gtngatgggc agtctgaggc ccagagagca cacaagactt tagggccaca 24  
cagcaggctc ttagc 255

<210> 52  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (63)..(63)  
<223> n = a, t, g or c

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<220>
<221> misc_feature
<222> (128)..(128)
<223> n = g or a

<400> 52
gcagctgctg gccatgtcca gggagaaggg gatcctttcc caataggtgg agctggagag      6
ggnccctgggg gatgacaacg aggagaaaaat tgagtttgag ctcatccagc tccaccccca      12
cacttgtnga tgggcagtct gaggcccaga gagcacacaa gactttaggg ccacacagca      18
ggctcttagc agaactctct acagaactta ggtctccgga ttcttaatcc ttgcccattc      24
ctgcttcact ctagc                                     255

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<210> 53
<211> 255
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (23)..(23)
<223> n = a, t, g or c

```

```

<220>
<221> misc_feature
<222> (128)..(128)
<223> n = c or t

```

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<400> 53
gaccccatct ctatttaata tangaaataa taaaaaataa aaagtaaaag aatggcagtg      6
tgatgccacc ttgaagcaaa actgccatgg tgactggtat tggattcctg attctggcag      12
caaagtcntt aaacaatgcc tgtagcatag ataacccttg tattagtcca ttctcacact      18
gctgtgaaga aatacctgag actgggtaat ttataaggga aagacattta attgactcac      24
agttccacat tgctg                                     255

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<210> 54
<211> 255
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (80)..(80)
<223> n = a, t, g or c

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<220>
<221> misc_feature
<222> (128)..(128)
<223> n = a or g

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<220>
<221> misc_feature
<222> (236)..(236)
<223> n = a, t, g or c

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<400> 54
gtgagggctg acaccttgaa gctggatgct gagtttgaca cacttagagc tgaacactga      6

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tgtctgttca gccagagtcn ggggaggtct tggactccaa agctgatttg ggaatttggg	12
aagaaacntt aaagcttttt agagaataag gaaagagtat gggagcttta ctctgttcag	18
aaaggagaat ttatggaagt atagctcaca atctatgatc tgcaccccca aacatncaac	24
ctcccatatg agaga	255

<210> 55  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n = a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n = c or t

<220>  
 <221> misc\_feature  
 <222> (175)..(175)  
 <223> n = a, t, g or c

<400> 55	
tgggaatttg ggaagaaacn ttaaagcttt ttagagaata aggaaagagt atgggagctt	6
tactctgttc agaaaggaga atttatggaa gtatagctca caatctatga tctgcacccc	12
caaacatnca acctcccata tgagagataa aacacagcat ccctaggaag cattnttctt	18
gcgcctccac caggcagtca tgccccagcc cagcctgtct tcatccctaa ccattaccat	24
tccacctcct tttgt	255

<210> 56  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (81)..(81)  
 <223> n = a, t, g or c

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n = c or a

<220>  
 <221> misc\_feature  
 <222> (210)..(210)  
 <223> n = a, t, g or c

<400> 56	
agtatgggag ctttactctg ttcagaaagg agaatttatg gaagtatagc tcacaatcta	6
tgatctgcac ccccaaacat ncaacctccc atatgagaga taaaacacag catccctagg	12
aagcattntt cctgcgcctc caccaggcag tcatgcccc gcccagcctg tottcatccc	18
taaccattac cattccacct ccttttgtnn agggcaggtc tgggaatatg ttcatgtgag	24

ggatcacttc ttgca

255

<210> 57  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (46)..(46)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = c or t

<220>  
<221> misc\_feature  
<222> (249)..(249)  
<223> n = a, t, g or c

<400> 57  
aacctcccat atgagagata aaacacagca tccctaggaa gcattnttcc tgcgcctcca 6  
ccaggcagtc atgccccagc ccagcctgtc ttcatecccta accattacca ttccacctcc 12  
ttttgttnag ggcaggtctg ggaatatgtt catgtgaggg atcatttctt gcaaagtctc 18  
cagttatcct gcacccttca agtaggctcc aaatcctaca acattctcct tgcctcccca 24  
actcgcagng tgcca 255

<210> 58  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (7)..(7)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or a

<400> 58  
tttgttnagg gcaggtctgg gaatatgttc atgtgagggg tcacttcttg caaatgctcc 6  
agttatcctg cacccttcaa gtaggctcca aatcctacaa cattctcctt gccctcccaa 12  
ctcgcagngt gccagcttct tcccattctg gccagagttt gtgacttcca tgaacgcccc 18  
taatctactt ttctctgttt tctctgaccc catgctgagg gggaaatcaa caataataaa 24  
aaggaggcca ggcac 255

<210> 59  
<211> 255  
<212> DNA  
<213> Homo sapiens



<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or a

<220>  
<221> misc\_feature  
<222> (252)..(252)  
<223> n = a, t, g or c

<400> 59  
gcctatatcc cgggctcctt ggcagccttg gcagccacct tgacactctc ctgtctcccc 6  
acctccacag agacaatgac catgtttgaa aatgtcaccc gggccctggc cagacagcta 12  
aacctcnag gggacctgac accacttgac agcctcatcg acttcaagcg cttccatccc 18  
ttctgcctgg tgctgaggaa gaggaagagc acgctcttct ggggggcccg gtacgtccgc 24  
accgactaca cncgt 255

<210> 60  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or t

<220>  
<221> misc\_feature  
<222> (134)..(134)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (156)..(156)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (170)..(170)  
<223> n = a, t, g or c

<400> 60  
ggacacccga gtggagggag atgtggatgt accaaagacg gtgaagggtga agggaacggc 6  
agggctctcg cagaacagca ctctggaggt ccagacactc agtgtggctc ccaaggccct 12  
ggagaccntg cagnagaggt gagagtgggc gggacngagg gtctcccgn atgtgggtgg 18  
ggcagtgcac ggaaatggtg cttggggcct tgagctgaaa ggtaggacct ttgcactgac 24  
ctttgccaat gtggt 255

<210> 61  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature

<222> (15)..(15)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (50)..(50)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (107)..(107)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = c or t

<220>  
<221> misc\_feature  
<222> (237)..(237)  
<223> n = a, t, g or c

<400> 61  
ccttcctcac ctagnagggc atccaggaag tccagaatgg cttttgcaen cgtttctacc 6  
aagaccccag cagcattaaa aaggctgctt aggagaggct tgtctgngtc ctccatgtgt 12  
agctcccnng aaatcaggac ctacagatacc tagggccagg aagtgtggga gatgagcagc 18  
agtctcacca tagcagatta tcctcactgt gccaaactgcc atcccctctg gctcctntct 24  
ctctctgccc caagg 255

<210> 62  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (36)..(36)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (71)..(71)  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n = g or a

<220>  
<221> misc\_feature  
<222> (149)..(149)  
<223> n = a, t, g or c

<400> 62  
caccccagcc tacagcgaga cccttcctca cctagnaggg catccaggaa gtccagaatg 6  
gcttttgcac ncgcttctac caagacccca gcagcattaa aaaggctgct taggagaggc 12  
ttgtctgngt cctccatgtg tagctcccnng gaaatcagga cctcagatac ctagggccag 18

gaagtgtggg agatgagcag cagtctcacc atagcagatt atcctcactg tgccaactgc	24
catccccctc ggctc	255

<210> 63  
 <211> 255  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (128)..(128)  
 <223> n = g or a

<220>  
 <221> misc\_feature  
 <222> (170)..(170)  
 <223> n = a, t, g or c

<400> 63	
gaggagggtg ggggggtggtg acagaagggg accccctgta tccctaaggc ctgtgggtccc	6
tggctctccca ggtagacaga gggcttcagg acccagccag gcagctgggg atgtggggag	12
gaggctgntg gggaggaaac aggcagctgt cctcccggtg gagctaagan cacactcagt	18
tccaccccag ttcagctcca ggaggtagag gggctgcccc ctctcgagtc ccagatgctg	24
ggaggccttc cctag	255

<210> 64  
 <211> 19  
 <212> RNA  
 <213> Artificial sequence sequence

<220>  
 <223> siRNA

<400> 64	
cuaaguacga ccagaucca	19

<210> 65  
 <211> 19  
 <212> RNA  
 <213> Artificial sequence

<220>  
 <223> siRNA

<400> 65	
aaggcaugug cugcaacac	19

<210> 66  
 <211> 19  
 <212> RNA  
 <213> Artificial sequence

<220>  
 <223> siRNA

<400> 66

agaagaagcc ucuggacac 19

<210> 67  
<211> 19  
<212> RNA  
<213> Artificial sequence

<220>  
<223> siRNA

<400> 67  
guagccaacu uggaguagc 19

<210> 68  
<211> 19  
<212> RNA  
<213> Artificial sequence

<220>  
<223> siRNA

<400> 68  
ucaauaagua cugagagug 19

<210> 69  
<211> 19  
<212> RNA  
<213> Artificial sequence

<220>  
<223> siRNA

<400> 69  
uaaguacuga gagugcagc 19

<210> 70  
<211> 19  
<212> RNA  
<213> Artificial sequence

<220>  
<223> siRNA

<400> 70  
aguucuugac caucacacc 19

<210> 71  
<211> 255  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (128)..(128)  
<223> n is t or c

<400> 71  
gggggtcgga gtgggggata ccgtgagggg actcctggga gacggctgtt tcgggggtccc 60  
tctcttaaga gtgagtcgtg ttggggacga cctgacacag agtgacttcc ggattacacc 120  
ctgtaganga gaattcgaga agggtagtcc tccctttcct tcactccgga caccocatgtc 180  
cgtcgtcacc tacttgataa aactccagtg acgtaggtga gtggaggaga ctaaaaaagt 240  
taagacctag agggg 255