

ADL-0702WP_ST25.txt
SEQUENCE LISTING

<110> Almac Diagnostics Limited

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<120> Molecular Diagnostic Test for Cancer

<130> ADL-0702WP

<150> US 61/383,201

<151> 2010-09-15

<150> US 61/490,039

<151> 2011-05-25

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tgttctgctc taatgtcttc aattttggac ttggcggttc tgtggagggt aaaaaactct 540

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<210> 21

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<213> Homo sapiens

<220>

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<222> (1)..(107)

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

<400> 21

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncca aatgagtgat      120

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gcattgaccg ttcgtaattc ttggatgcaa aagtagaact caagctactt aataacaatc      180

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atggtggcat gggcaccagc aagtcagggt ggacaacagc catagttctg gagcatggtc      240

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ctcaagacta ccttttgtat gcagagtatt aacactttaa ctcttagatc cttggaacat      300

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aaggaagaga ggctggaaca aaaaggggtt ggcatttgga ggtggagagg tagtgtaagg      360

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cacaactgtt tatcaactgg tatctaagta tttcaggcca gacacgtggc tcacacctct      420

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aatcccagca ctttgggagc tgagccagga ggattgcttg agtctaggag ttcaagaccg      480

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gtctgggcaa catggtgaaa ccctgtctct acaaaaaaat acaaaaatta gccagggtgtg      540

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<210> 22

<211> 477

<212> DNA

<213> Homo sapiens

<400> 22

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tttattgata gttacagcac aatctgtcca aaaccaccag aatatacatt cttttcaaga	120
gctcaaatgg aacatttacc acaaaagacc atattctggg cttcaaaata agcctaaata	180
aatacaaaaag catttaggac ctatgaatca gaagactgaa tatgcacata taaaaatga	240
gaatcattct ctcacataca aaacttatat aggtagtaaa gatacagttg attaggtaga	300
tttgaatggt gaatcactga catttcctga aggtagagct acaaattact tttttaaaac	360
cactaacca cccccacctt acctcactta ctcttttttg ccttaccacc tactttagtc	420
ataccctata catgttactc agaccaaatg gctctcataa acaatctcag tatatgt	477

<210> 23

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (229)..(316)

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

<220>

<221> misc_feature

<222> (572)..(572)

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

<400> 23

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caatgaagaa taagagtaat ttttggtgct ttattaaatt ttttctcaca gaattcttta 120

taaaaacacc atgtccctaa aatgtcattc aacatatatg cacaccttcg atgtatagga 180

cactgatcaa aaaagacaga gaaatgtgtc cctgggtgtt tgtttttggn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnggga ctacaggcac ataccaccac acctggcttc atgttcccgg 360

tattagtaca atgccaaaat attttaaatt cttaaagggt aactcaaata tcttaagttt 420

tacttcactt acaatttcaa taatgctgaa attttgattg aatattgtgt ttgtagtgct 480

acctcttttt cgttcataag aacaaaagcc tatcattctc ttagtttcta aaaaatatat 540

gttcatatgg tttagataca tatataaata tntacacaaa acaatgtttt ttgagttgta 600

<210> 24

<211> 429

<212> DNA

<213> Homo sapiens

<400> 24

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catcggccct gcctgaagtg cgagaaatgt gggaagacgc tgacctctgg gggccacgct	180
gagcacgaag gcaaacccta ctgcaaccac ccctgctacg cagccatggt tgggcctaaa	240
ggctttgggc ggggcggagc cgagagccac actttcaagt aaaccaggtg gtggagaccc	300
catccttggc tgcttgagg gccactgtcc aggcaaatgc caggccttgt cccagatgc	360
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aaaaaaaaa	429

<210> 25

<211> 600

<212> DNA

<213> Homo sapiens

<400> 25

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ctcaaggggc cagggtccgac gctccctggg cttctgtgac accaccaaca aggggctctt	180
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gctggctctg agagccccag gactggctgc cccgtgacac atgctctaag aagctcgttt	480

cttagacctc ttcttggaat aaacatctgt gtctgtgtct gctgaacatg agcttcagtt 540

gctactcgga gcattgagag ggaggcctaa gaataataac aatccagtgc ttaagagtca 600

<210> 26

<211> 600

<212> DNA

<213> Homo sapiens

<400> 26

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gcattatcat ccttctaagg tagcagcagc tgcttcctgc ttgtctcaga aggttctagg 180

acaaggaaaa tggaacttaa agcagcagta ttacacagga tacacagaga atgaagtatt 240

ggaagtcatg cagcacatgg ccaagaatgt ggtgaaagta aatgaaaact taactaaatt 300

catcgccatc aagaataagt atgcaagcag caaactcctg aagatcagca tgatccctca 360

gctgaactca aaagccgtca aagaccttgc ctccccactg ataggaaggt cctaggctgc 420

cgtggggcct ggggatgtgt gcttcattgt gccctttttc ttattggttt agaactcttg 480

attttgtaca tagtcctctg gtctatctca tgaaacctct tctcagacca gttttctaaa 540

catatattga ggaaaaataa agcgattggt ttttcttaag gtaaaaaaaaa aaaaaaaaaa 600

<210> 27

<211> 600

<212> DNA

<213> Homo sapiens

<400> 27

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gaaaactcat tgtcccccttc ctctaattaa aaaagataga aactgtcttt ttcaataaaa 120

agcactgtgg atttctgccc tcctgatgtg catatccgta cttccatgag gtgttttctg 180

tgtgcagaac attgtcacct cctgaggctg tgggccacag ccacctctgc atcttcgaac 240

tcagccatgt ggtcaacatc tggagttttt ggtctcctca gagagctcca tcacaccagt 300

aaggagaagc aatataagtg tgattgcaag aatggtagag gaccgagcac agaaatctta 360

gagatttctt gtcccccttc aggtcatgtg tagatgcgat aaatcaagtg attggtgtgc 420

ctgggtctca ctacaagcag cctatctgct taagagactc tggagtcttct tatgtgccct 480

ggtggacact tgcccacat cctgtgagta aaagtgaat aaaagctttg actagaaaaa 540

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600

<210> 28

<211> 600

<212> DNA

<213> Homo sapiens

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<222> (302)..(302)

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

<220>

<221> misc_feature

<222> (570)..(570)

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

<400> 28

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ccaccagaaa agtctgtagt ttaatatattc ccaccttatg cctgtttcctt cattcacgca 180

aagaaaataa aaatataata cctaagcctc tttgtattac ataaagcaaa atgcaaagca 240

ctgtatcttc caaatacttc ctcttgatat ggtggaatta tagagtagta tcatttgtaa 300

cntgaaatgt cttctagggg tgctatgcga aagcaagact gtggtttcat tccaatttcc 360

tgtatatcgg aatcatcacc atctgtgtat gtgtgattga ggtgttgggg atgtcctttg 420

cactgaccct gaactgccag attgacaaaa ccagccagac cataggggcta tgatctgcag 480

tagtcctgtg gtgaagagac ttgtttcatc tccgggaaat gcaaaaccat ttataggcat 540

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<210> 29

<211> 600

<212> DNA

<213> Homo sapiens

<400> 29

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gtatgaggac atctcccggg gcctccaggg cacctaccag gatgtgggca gcctcaacat	180
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ctggggggctt ccttagtcat attccccag tgggggggtgg gagggtaacc tcactcttct	360
ccaggccagg cctccttgga ctcccctggg ggtgtccac tcttcttccc tctaaactgc	420
cccacctcct aacctaatcc ccccgccccg ctgcctttcc caggctcccc tcaccccagc	480
gggtaatgag cccttaatcg ctgcctctag gggagctgat tgtagcagcc tcgttagtgt	540
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<210> 30

<211> 600

<212> DNA

<213> Homo sapiens

<400> 30

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agtcaacaga aactcggcta tcattggagg cgtcattgct gtggtgattt tcaccatcct	120
gtgcaccctg gtcttcctga tccggtacat gttccgccac aagggcacct accatacaca	180

cgaagcaaag ggggcggagt cggcagagag cgcggacgcc gccatcatga acaacgaccc	240
caacttcaca gagaccattg atgaaagcaa aaaggaatgg ctcatTTgag gggTggctac	300
ttggctatgg gatagggagg agggaattac tagggaggag agaaagggac aaaagcacc	360
tgcttcatac tcttgagcac atccttaaaa tatcagcaca agttggggga ggcaggcaat	420
ggaatataat ggaatattct tgagactgat cacaaaaaaaa aaaaaccttt ttaatatttc	480
tttatagctg agttttccct tctgtatcaa aacaaaataa tacaaaaaat gcttttagag	540
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<210> 31

<211> 600

<212> DNA

<213> Homo sapiens

<400> 31

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gtggaattat caccatcat catccaatcg cagatggagg gactcctgac atagccagct	180
gctgtgaaat aatggaagag cttacaacct gccttaaaaa ttaccgaaaa accttaatac	240
actgctatgg aggacttggg agatcttgtc ttgtagctgc ttgtctccta ctatacctgt	300
ctgacacaat atcaccagag caagccatag acagcctgcg agacctaaga ggatccgggg	360

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atctatcatc aagagattca caatcaagat ctgtatcaag ataaaggaat tcaaatagca	480
tatatatgac catgtctgaa atgtcagttc tctagcataa tttgtattga aatgaaacca	540
ccagtgttat caacttgaat gtaaattgtac atgtgcagat attcctaaag ttttattgac	600

<210> 32
 <211> 600
 <212> DNA
 <213> Homo sapiens

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ctctgcagag tgtcttggtt gagagaataa cctcatagta ccaacatgac atgtgacttg	180
gaaagagact agaggccaca cttgataaat catggggcac agatatgttc ccaccaaca	240
aatgtgataa gtgattgtgc agccagagcc agccttcctt caatcaaggt ttccaggcag	300
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ttacagggat gtttttaatc ccactatgga ctgagtctcc tggaaatagg tctgtccact	420
cctggtcatt ggtggatggt aaacccatat tcctttcaac tgctgcctgc tagggaaaac	480
tgctcctcat tatcatcact attattgctc accactgtat cccctctact tggcaagtgg	540
ttgtcaagtt ctagttgttc aataaatgtg ttaataatgc ttaaaaaaaaa aaaaaaaaaa	600

<210> 33

<211> 600

<212> DNA

<213> Homo sapiens

<400> 33

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tgcttacata aaagttacct cataagttaa ttctaacttt tattcttgaa tttattttca      180

tttcaatagc ttgtttcatt tgcacgcctt tgtatTTTga ttgacctgta gaatggatgt      240

taggaaactc aaaattgaac acagtgaAAC aaatgggtatt tgaagaaatg taatatcttt      300

tatattctat ttatgatatc cataatcaaa tgagattatt ttaccacata aatgTTTTaa      360

atatcagatt tttagTTTgc agTTTTagga aaatgcttta gatagaaaag gttcttatgc      420

attgaatttg gagtactacc aacaatgaat gaatttattt tttatattct tacacatttt      480

attggtcatt gtcacagata gtaaatacta aaaatttcag gtcagTTTgt tttgaaactg      540

aaattggaaa taaatctgga aatgTTTTgt tgcactaaaa taataaaatg aattgtactg      600

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<211> 600

<212> DNA

<213> Homo sapiens

<400> 34

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cagccgtgct gttctagttc ctctccatcc gccacctccc ctcccgtgc cccagaagtt	180
tctatcattc catggagaaa gctgtgttcc aatgaatcct acctcttgcc cagtcccagg	240
cagagtaagc agggcccacc tagggacca gaaagagtag gaagaagggg acgagccggg	300
agcaaaacca cctcagacac ccgggccttc tcagccttct ccccgcggcc agctgggtct	360
ccggggaccc tgggcccctgg gccgcccatt cctggccctc ccgctgcatc tcagacctga	420
cacccaacgg ggggatgtgg tggcctgtgc ccaccttctc tccctcctcc cgacccgccc	480
cctcgcccc acccctgtgt gtttcgccag ttaagcacct gtgactccag tacctactac	540
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<210> 35

<211> 600

<212> DNA

<213> Homo sapiens

<400> 35

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acttcttggc ttggtgagga aaagcggaca tcagctggtc aaacaaactc tctgaacccc	120
tccctccatc gttttcttca ctgtcctcca agccagcggg aatggcagct gccacgccgc	180

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ggctccagag tggggatgac atgcactcag ctcttggtc cactgggatg ggaggagagg	360
acaagggaaa tgtcaggggc ggggaggggtg acagtggccg cccaaggccc acgagcttgt	420
tctttgttct ttgtcacagg gactgaaaac ctctcctcat gttctgcttt cgattcgta	480
agagagcaac attttaccca cacacagata aagttttccc ttgaggaaac aacagcttta	540
aaagaaaaag aaaaaaaaaag tctttggtaa atggcaaaaa aaaaaaaaaa aaaaaaaaaa	600

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tttggtgagg gtaaccccaa acctccaaaa ctcttgcccc tgttctcttc cactctcctt	180
gctaccaga aatcatctaa atacctgccc tgacatgcac acctcccctg cccaccagc	240
ccactggcca tctccaccgc gagctgctgt gtcctctgga tctgctcgtc attttccttc	300
ccttctccat ctctctggcc ctctaccct gatctgacat cccactcac gaatattatg	360
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cagtcctggc ctggcttctc ctttggaagt gaggcattgc acggggagac gtacgtatca 480

gcggccccctt gactctgggg actccgggtt tgagatggac aactgggtgt ggattaacct 540

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<210> 37

<211> 420

<212> DNA

<213> Homo sapiens

<400> 37

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ccacgcagat ttattccagt gaaacaacaa ctggaacttc aagtaactcc tcccagagta 180

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ccctgcagtc aacagccagt ctcttcgtgg tctcactctc tcttctgcat ctctactctt 300

aagagactca ggccaagaaa cgtcttctaa atttcccat cttctaaacc caatccaaat 360

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<210> 38

<211> 600

<212> DNA

<213> Homo sapiens

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

<220>

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<222> (514)..(515)

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

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

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

<220>

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<222> (583)..(585)

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

<400> 38

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gctttgncac atgtcaaggc tgaagaaaca gtgtctccaa cagagctcct tgtgttatct      240
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taatttaata aaatattctt atttattttg ttanntngta nannannatg tccattttct     540
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<210> 39

<211> 523

<212> DNA

<213> Homo sapiens

<400> 39

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tttgggaggg gttgatgcca gacatcacca ggttgtagaa gttgacaggc agtgccatgg	420
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 <212> DNA
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ccatcacttc cctacatgga gtatatgtca agccataatt gttcttagtt tgcagttaca	180
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ctgagggtgct atgttcttag tggatgttct gaccctgctt caaatatttc cctcaccttt	360
cccatcttcc aagggtataa ggaatctttc tgctttgggg tttatcagaa ttctcagaat	420

ctcaaataac taaaagggtat gcaatcaaata ctgcttttta aagaatgctc tttacttcat 480

ggactttcac tgccatcctc ccaaggggcc caaattcttt cagtggctac ctacatacaa 540

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<211> 513

<212> DNA

<213> Homo sapiens

<400> 41

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gtggaagtgg gctacaacgt agtacgtgtc gtgtagtacg atgtctagtg atgagtttgc 120

taatacaatg ccagtcaggc cacctacggt gaaaagaaaag atgaatccta gggctcagag 180

cactgcagca gatcatttca tattgcttcc gtggagtgtg gcgagtcagc taaatggcag 240

gggcagcaag atggtgttgc agaccaggt cttcatttct ctgttgctct ggatctctgg 300

tgcttacggg gacatcgtga tgaccagtc tccagactcc ctggctgtgt ctctgggcga 360

gagggccacc atcaagtga agtccagcca gagtatttta tataggcca acaacaagaa 420

ctacttagct tgggtaccagc agaaagcagg acagcctcct aaattgttca tttactgggc 480

atctacccgg gaatccgggg tccctgaccg att 513

<210> 42

<211> 600

<212> DNA

<213> Homo sapiens

<400> 42

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ggcagccttt cccctgcagc tcgattggtg gagacgcca ctccctgaca gaacatctcc 120

tgcattgata ccaaataa aaactttcct ccgtccatct ttaactgctg gtgttttcaa 180

ccctttccc tctgtgcat gtttctagct tttatttaaa acgtactttg gttttccttg 240

gcaaaattgt gtctagctac taggatgacg tgtcttaatt tttttttaa tggtggcgct 300

gaaactggct ttgatcaacg ttttaaaaag acgcgcgcta gttgtgattg gccaagtgat 360

ttcttcttac cctcttaagt ttagaaaggc taatttcata tcttgatttg tctatttaaa 420

cttgagata ttttcaataa ttgtttcaa atgcacatg actattaact cataagtaac 480

aatatgaaac ctgatgttaa gctacatgaa cacatttaac ttcaccacaa tatgacatcc 540

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<210> 43

<211> 600

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<213> Homo sapiens

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

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caggttggtc ttggactcct gacaagtgat	120
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gttacnaggt gtgaaccacc atgcctaact	180
atcgttgcta ctttctattg gaagagaagg	
cagccctgat ttagtctggt tacagtctgc	240
attatgtgga gaatagagag ccatcatagt	
ccctaaaact ttccttgcca gttaaccag	300
caggacaacc tgtctttgtc tcttgacaac	
tgtaactga gaacagggcc ctgctcctc	360
taggtgtgca cattaaggac tttgcacagt	
gtggatgtag ctcatgctgc tctgccntnn	420
agtacatgct gcttgaattt tcatcatnan	
cctccacncc ttncacctnc nngnnaaaaa	480
aaaagcgtgc aggaagtagc atttcagatc	
cttctccacc acctctgctt ccttctccc	540
ttcttttcct ccttgagca ttcccttag	
tacnaggag ggatggtggt tgaaaatggg	600
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<210> 44

<211> 600

<212> DNA

<213> Homo sapiens

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<400> 44

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ctcttgttta tctgtgtctg tctgtctgat tggtagatt tggctnccct tccaagctaa	180
tgggtgtcagg tggagaacag agcaaccttc cctcggaagg agacaattcg aggtgctggt	240
acatttcctt tgttttctat gttcttcttt ctagtgggtc tcatgtagag atagagatat	300
ttttttgttt tagagattcc aaagtatata tttttagtgt aagaaatgta ccctctccac	360
actccatgat gtaaatagaa ccaggaataa atgtgtcatt gtgataatcc catagcaatt	420
tatggtaaga acaagacccc tttccctcac caccgagtct cgtgggtctgt gtctgtgaac	480
cagggcaggt aattgtgaca ctgcatctca tagaactctg cctgcccaga tttttgtgtg	540
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 <212> DNA
 <213> Homo sapiens

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<220>
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<223> n is a, c, g, or t

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<222> (469)..(469)

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

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gattattgat ctgggtttta ttcctttata gcccaaccat atgatggaat actataatgt 180

tgtaaaaatg ggttaagagt tctttatgaa ttggtgtgga aacatcgcca agatatgaaa 240

gccaaatgca gaaaaatata tgtggtatgc tattatctat gtgaaaaaga cattactatt 300

ctctggaagg ataaacacaa atttgagaat ggtggatatc tggggtgaga ggtatccttt 360

tcactgttct ttaaaagttt tgnnatTTTg gtgtttgcct attcaaaaaa atgggttaaaa 420

tcagttgccca ccaattaaaa attaggagaa tgcataataa gaannnaant tcctgttaaa 480

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<210> 46

<211> 600

<212> DNA

<213> Homo sapiens

<400> 46

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acatggttct tctgattcag tccggccaat taaatctaaa tccaccctg aaagccatct	180
ggtgtggata acaagcccac aaatgagcag tcagcttttt gtgcccttta gggcctggga	240
caaccacggg atctaaaagg ggctggaact agaggctctg agctcctgtt cctaaaatca	300
tcttcacctt atatctgcag ccttctcctg ccacggcatg caccacaca tgcgagcctc	360
ccgggtactg tcacctgaa ttctgagacc atccagcact tcctttagtt ttgccctggg	420
gctgttgact tttgtttact gaagagtgtg ctggaggcag gacaaggac atggaaggct	480
gcaatttaag agtctaaaag gttttagaat cctgaaggag gttaacaag ctgaattgaa	540
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<210> 47

<211> 600

<212> DNA

<213> Homo sapiens

<400> 47

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gagcccctaa atcattgctg actgagtaga tttcccaggg taagcccaag aagttactcc	180
tagaaggggc tggtagggga aagagccaac atcccacatg cctgcccact ttgggtctgg	240

tcccaagaaa caaactccag tggcctcgaa aatttaatat tgctgtcaga agggcctccc	300
cttcaaagga acaggtcctg atagctcttg ttatatgcaa agtggaaagg taacgtgact	360
gttctctgca tttcctgcct ttcaattgag tgaagacaga cagatgattt attgggcatt	420
tcctagcctc cccttcacca taggaaacca gactgaaaaa aaggtgcaaa ttttaaaaag	480
atgtgtgagt atcttgaggg ggctggggga gaattcctgt gtaccactaa agcaaaaaaa	540
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<210> 48

<211> 491

<212> DNA

<213> Homo sapiens

<400> 48

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gaatgctgca aggaggaaaa gaaggagaaa gggaagcaga ggtggtggag aaggatctga	120
aatgctactt cctgcacgct ttttttcttc ttggagggtg aaggagtgga ggatgatgat	180
gaaaattcaa gcagcatgta ctagacggca gagcagcatg agctacatcc aactgtgca	240
aagtccttaa tgtgcacacc tagaggagca agggccctgt tctcagttaa cagttgtcaa	300
gagacaaaga caggttgtcc tgctgggtta actggcaagg aaagttttag ggactatgat	360
ggctctctat tctccacata atgcagactg taaacagact aaatcagggc tgccttctct	420

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tccaatagaa agtagcaacg atagttaggc atggtgggtc acaccttgta accctagcac	480
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ttcgtgggca g	491
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<210> 49

<211> 600

<212> DNA

<213> Homo sapiens

<400> 49

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attctattga ttcattccaca aattttataag tccttaccac ctttcattat attggtacta	120
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ggcattatag tagtgctagg cactatagta atgctgggggt ataaacaaga ataaaacaaa	180
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ataagttcct tatttcaggt aacttacagt ataggctcagt ggttcttagc ttgcttttta	240
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attatgaatt cttttgaaag tctagtaaaa taatccaaca ccattattcc ccattgcaca	300
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tacccccaga tgtttttagac atattttcaa ttgctccatg gaccttaaga aaacttggtt	360
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ggtgtgcagt ttggtgtatt atgggtaaga ctggacctgg tgtagaaaaa tctgcatttg	420
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aggctttggt ctgacagtgt ctagtgtaaa catgggcaga ccacttaaac ctctctttag	480
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tcttctctgt agaattgatga taataccatc taattagcag gattgttggt ttattcagtg	540
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agacagcata tgtaaataac ttagtaaaat aaaaagcaac gtgtttataa tggtaaaaaa	600
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<210> 50

<211> 600

<212> DNA

<213> Homo sapiens

<400> 50

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gcctggcgca ttacaacaag cgctcgacca tcacctccag ggagatccag acggccgtgc	120
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gcctgctgct gcccggggag ttggccaagc acgccgtgtc cgagggcacc aaggccgtca	180
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ccaagtacac cagcgctaag taaacttgcc aaggaggagc tttctctgga atttcctgat	240
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atgaccaaga aagcttctta tcaaaagaag cacaattgcc ttcggttacc tcattatcta	300
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ctgcagaaaa gaagacgaga atgcaacat acctagatgg acttttccac aagctaaagc	360
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tgccctcttg atctcattca gattccaaag agaattcattt acaagttaat ttctgtctcc	420
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ttggtccatt ctttctctct aataatcatt tactgttcct caaagaattg tctacattac	480
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ccatctcctc ttttgctctt gagaaagagt atataagctt ctgtaccca ctgggggggtt	540
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<210> 51

<211> 600

<212> DNA

<213> Homo sapiens

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

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

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<222> (79)..(79)

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

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

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<222> (120)..(120)

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

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

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<222> (141)..(141)

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

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<222> (152)..(152)

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

<220>

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<222> (185)..(185)

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

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agcatgnaag gtcnccgant ccagtgnna ggaactaatg angggtttnt naagancgtn 120

atgagatcaa tgcngatgag ncacttagaa gnagcaatta gtaggcaaa gggaagtgaa 180

tgtgnaggag gaacaagcat tccaggcaag aagaacaccc tatcgaaaag cctggaagca 240

aaacattagt gaggctacct ttcataaatt gctttctgta agtcatgcca ttgtgtagtc 300

ttaattgctt tctctcacca ggaaggtgt ggaaggact tgtgaaatac atattcgagg	360
aaaaactatg cacaaggccg tgcattttaa aataaactcc ctaaggctgg ggtgaaacct	420
gctacggtct gcgcaagttg actgttaatg aatttgattc tcagggtga gtgattaaaa	480
gaacactgat catgtcattt tctttttggt cactaattcc ctccctccct tctctttctt	540
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<210> 52

<211> 600

<212> DNA

<213> Homo sapiens

<400> 52

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aacactgctc gggttttccc ctgcatcat cttatgcta tgacactgga ctaaattgta	120
ataatacatt ttcttgtaa tctcctcatt atactatgag ctcttgagg acaggtactt	180
tgtcttgctc acatctgtag attcaatgcc tggcacagcg attgatattg caagggcact	240
taataaatgg tttttgaata aaagaattgc ttaaagtaaa atatagctgt aaattgtatt	300
ataaaaggac agtgggtggc agtctgaggt ctgctattta ctggtttggg caagttactt	360
aatctgtttg cttcctcagc tgtacgatgg gtaaaataat agtggttatc acaacagggt	420
ggttacagcg atgaaatgag attatgtgtg taggctacca cataattgta aagctgatat	480

ttaaattggaa cagatactgc acagacactt gaggtctgag aataagatta ggtcaaccag 540

agtattaatg ggttaaataa aggtgacatc ctatgcaacc aacggtttga tctttatgct 600

<210> 53

<211> 600

<212> DNA

<213> Homo sapiens

<400> 53

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ccagtcaatc cacatcttcc ggaaaaaatc cagggtcttcc agccaatata tgtcttcctg 120

aagatccacg tcttccagaa aatccatgtc ttccagaaaa tccatgtctt ccagtaacct 180

cccagtcctc cagaaaatcc acgtcttccc aacaatccaa gtcttccgga taatttgggt 240

cttcctgaaa atctacgtct tccaaaaaag ccatgtcttc cagaaaatcc acatcttcca 300

atggcctcca ggtcttccag actatccatg tcttccagaa aatccttgtc ttcccttaaa 360

tctatagctt ccaaaaaatc cgggtcttcc aggaaatccg tgtcttccag caagtccacg 420

tcttccaaca aagccatgtc ttccagacta tccatgtctt ccagaaaatc cttgtcttcc 480

ctcaaatcca tagcttccga aaaatccagg tcttccagga aatccgtgtc ttccagcaaa 540

tccacgtctt ccaacaaagc catgtcttcc atcaaattaa tgtcttccag cctacttggtg 600

<210> 54

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<212> DNA

<213> Homo sapiens

<400> 54

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caacaatcta ctgagtggcc atgggcatgt ggatatggcc atgaatgagc aagatcctct      180
ctgatcctgt agaagttaag ttctaccaga taacttgctg cttcaacaaa aagatttacc      240
tttttaataa aatgtttag aatacttaaa aaaaacaaac tagaatttgc ctgtgtgcag      300
ccagtaacat gtctatttaa cctggacacc ttttgaggaa tattctcaga ttgcccccat      360
gctgtttata agacattggt ccttatacac ctgtttatga atgaaaagaa acataaggag      420
tgggtacaaa gacttctatc tatgaatgat taaaaaggct agagtacgaa tacttcttga      480
acctttggta ctaaattgctt ttcattgttct atataaatgt agaaaacatt ttacaaatcc      540
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<210> 55

<211> 600

<212> DNA

<213> Homo sapiens

<400> 55

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gaaaaccatt cagcacattt atcttatgta acatgcagag catatatcta tctgtatttt      120

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taaaattttc ctgttactca ttgatacata gtacttaatt acatgttatt ccatgtacac	180
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ataagaatac ttacacatac attttcagat atttctacct tcctgtatgt gtttggaatt	300
gtatgtaggt agccactgaa agaatttggg ccccttggga ggatggcagt ggaagtccat	360
gaagtaaaga gcattcttta aaaagcagat ttgattgcat accttttagt tatttgagat	420
tctgagaatt ctgataaacc ccaaagcaga aagattcctt agtacccttg gaagatggga	480
aaggtgaggg aaatatttga agcaggggtca gaacatccac taagaacata gcacctcagt	540
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<210> 56

<211> 600

<212> DNA

<213> Homo sapiens

<400> 56

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ccctgaatga caaggtagcg ctgggggtct cgggccattt tggagaattc gatgatcaac	120
tcacggaact ttgggcgact atctgcgtct atcatccagc acttgaccat gatcatgtag	180
acatcgatgg tacatatggg tggctgaggg aggcgttctc ctttctccag gatggaggag	240
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ADL-0702WP_ST25.txt

gtcaccgccgt agctccagac atcactctgg tgggtataga ttctgtgtaa aattgattcc	360
aatgccatcc acttgatagg cactttgcct ccttctgcat ggtattcttt ctcttccgca	420
cccagcagtt tggccagccc aaaatctgtg atcttgacat gctgcggtgt tttcaccagt	480
acgttcctgg ctgccaggtc gcggtgcacc aagcgacggt cctccaagta gttcatgccc	540
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<210> 57
 <211> 340
 <212> DNA
 <213> Homo sapiens

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

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

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aaagaggctg gtaaaactgc attttgcaca aaagtgttga ttcaacatga agtcaaataa	180

tatgtttctaa tgaaaccaca cctctcacac acatatcctt tctctcaaac ctcggtgtta 240

ctctggccaa aagtcttagg tttcttgaag tgtttgtgga agagtagatg gagttttatt 300

taacattatc aagaaatcca agctgcagac cccacacata 340

<210> 58

<211> 520

<212> DNA

<213> Homo sapiens

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

<220>

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

<400> 58

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ggattttatt ctgcagggtcc tttaacata atgagtaata tttgtgttgg gaatgactga 180

gaagaaattt cataatgatg tgaagatcta cctgtaaata gttcctctgt cgtatgctgg	240
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 <213> Homo sapiens

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cgtgtctaga agtgtgcaaa cttttgtttc atttctctct tagatttctg taggaagagt	300
taaaggatgt gaagtagtca ttttacttat tcataacaca ttttagggaa aattgtgctg	360
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 <213> Homo sapiens

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

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 <222> (362)..(362)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (419)..(419)
 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (439)..(439)
 <223> n is a, c, g, or t

<400> 60

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acaaaataat gaactgcatg ttcataacat acaaaaatcg ccgcctactc agtaggtaac	180
tacaacattc caactcctga atatatttat aaattttacat tttcagttaa aaaaatagac	240
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cncctgcccc ccttaagggc tagaggggtga ggcatgtccc tcacaattgg cacatggtnc	420
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tgatgggttaa aactgattct gaaccaaagg taaacagggg tcctcccat gccttgaga	180
gctccagtct gcagaaagct aatgaagccc ttgaagcagt atcttgtctt ccatccacac	240
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ccattatgag tgggtggaggt tgttttcttt tttcttgcca tattctcagc ataatatattg 540

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<210> 62

<211> 600

<212> DNA

<213> Homo sapiens

<400> 62

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cacttaatta gagaatttgg atcaagtgc taaataaatc acacaccaca cacattaaga 180

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gagtgtatgt gtgtgcgtgt tcttttcttt ttctctcatg aatattacac ttttattagc 420

cagctatact tgtgttgatg aaaaagacaa aatggaattt tgttttcctt taacaatcaa 480

gtatgaatgg tctgcttaca ggatgtccct tcttgggggtc cttggaggta acaaaagctc 540

atcattaaac aggtagctat catttctaca tgcttagtat cacttccgat tatcttattc 600

<210> 63

<211> 600

<212> DNA

<213> Homo sapiens

<400> 63

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acggaagggg gaccgaggaa aggctttcgg gagtggggac attatcccc cagaggtgtg 180

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<211> 600

<212> DNA

<213> Homo sapiens

<400> 64

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<210> 65

<211> 427

<212> DNA

<213> Homo sapiens

<400> 65

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aacacatgga tcatcgttat taacagtcct ctgggcgtgc tggagctcac tgagaaggct	180

tctatatttga gcttggaatg ttgtgctgag ctgtgcagcc tgttcctgca tctgttggtc	240
ctgcattttc tgttgctctg ccagccaatt ttgtttggct atctccattt aactcacttg	300
ttcctgatgg agtctctccc tctcctgcat catttgctcg ttctgccttt gaatcgccgc	360
caacctttgc gcttcagcct tttcagcttc tgctttcact tgtgcctctg aggagaaaaa	420
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<210> 66
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 <212> DNA
 <213> Homo sapiens

<400> 66	
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taaaaacaca gctaagtact aaccagcttg ccctttaagc caattccctg tagctactta	480

cagcacgact gttagctcct ttccttatag ttctttactg ccttaaagtc acatagatgt 540

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<210> 67

<211> 600

<212> DNA

<213> Homo sapiens

<400> 67

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ctttgagaag tcatagatct actcatgttt aaaaagttgt cttgaagaac ctactgcaa 180

tcatccactt tagtaagcaa ggccacatat gctataccac agtttaatac ttctttgtga 240

acttgcttca cttttgcaa catttttagag tagagattgt caatagagtt gatgtctaag 300

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tgatctccct ctttctcctc agctactctt tcccaaaca gtagcacctc ctctttactt 540

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<210> 68

<211> 577

<212> DNA

<213> Homo sapiens

<400> 68

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agtgtcattt aatatctgtg atggcaatcc ctactcaaag ctctttgttt tcagtgttcc	180
tgtattgctc ttttgtaaat cccttaatat aaaagtaaata aataaccag ttggcatatt	240
atgttgatga cattaaattg gggagaatag atactgtgat tttgaagct tcctacaaat	300
atgatatgct tttcatttgt gcaagtactt tagtataatg ttaactgggtg gtggtaatgg	360
aggaaattct gtcattgttcc ttacttttag tttcctctag cgctttctat tttttattt	420
tttttcagat ggagtcttgc tctgtcttct atccaggctg aggcaggagg atcacttgaa	480
cccagtagtt caaggctgca gtgagctatg gttacaccac tgcactccag cctgggtgac	540
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<210> 69

<211> 600

<212> DNA

<213> Homo sapiens

<400> 69

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atgatttttt tctctggaaa ttgtcaaaat ctgcatgagg tgtatcaggc cagccattgt	180
cagcctcagt ttagaggcaa ggaaataggt tcagaaaggt tcaaggacgt gctgaagtca	240
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<210> 70

<211> 600

<212> DNA

<213> Homo sapiens

<400> 70

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gaggggctgg gagagcccca caaggctgca gaggggtggtg agcccggagt gggcctggcc	180
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<210> 71

<211> 600

<212> DNA

<213> Homo sapiens

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<222> (65)..(83)

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

<220>

<221> misc_feature

<222> (132)..(144)

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

<400> 71

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agagtgttat cnnnnnnnnn nnnnacatta ttgcacagag atttctcatc aatgttcttc 180

agtttttatg tcttttccta aatgtgaata agtgctatgg ataaaaataca aatgtagaaa 240

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aaacaaaata agtgctcttt ctaaactgta ctaaattttc aaaaatattg ttttaatgca 360

gtgaagggtcc tgaaaagcct attgaaagcg atgctgagtc ctgttttcaa aagtgtcctg 420

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acaaaacagc cctcggcttc cctattggcc tgtgagggca ccggctccgg gaccctgacc 540

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<210> 72

<211> 600

<212> DNA

<213> Homo sapiens

<400> 72

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tgttctgctc taatgtcttc aattttggac ttggcgggtc tgtggagggt aaaaaactct 540

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<210> 73

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(261)

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

<220>

<221> misc_feature

<222> (522)..(549)

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

<400> 73

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nnnnnnnnnn nnnnnnnnnnn nctaaaaaaa tatgtactgc ttattttggt agcatacttt 300

taattatatt cttattcttt ctacccctct caaatgtat tttccagct tgccatttaa 360
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<210> 74
<211> 600
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)..(44)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (95)..(121)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (144)..(172)
<223> n is a, c, g, or t

<400> 74

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<210> 75

<211> 600

<212> DNA

<213> Homo sapiens

<400> 75

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<210> 76

<211> 600

<212> DNA

<213> Homo sapiens

<400> 76

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tctgagaaag aacatgagct gtgaattcca agcgttccac tctgtccacg ggaaagggtg	360
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<400> 77	
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<210> 78

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (14)..(14)

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

<400> 78

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tgcagctcag gatcctgtga gtgcagcaga aagtcttaag aaatggcagg ggctggttga 180

accagatatt tccattggct gagcagatat ccccagaggc gtagaaaatt aaatttgttt 240

tatgttggtc caaaagagga gaactgaggc cagaggagca cacttctgag acactcattt 300

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<210> 79

<211> 600

<212> DNA

<213> Homo sapiens

<400> 79

ttttttcttc ttttcctctt gggttttccc aaagtagagt tgtttgcaat atccacagta	60
tccattttgc cacatgcttg gtcactttcc ttccttgctt ccgggctttc tggcacttct	120
ccttgtttaa gacttagttt gatgtcaggc ctctcttccc tttcttttcg atcactttct	180
tggaagaca atttgtcttg gattgcattt ttgaagcttt tataaatgtg aattaaatcg	240
gggtattcct gcatgttgac ctcgctgaac agtgcttcca aaactgacag gttaaagtgc	300
ttctccagtt cactgagaac attgtacacc actctttgta cagggaccag gtttctacaa	360
gaatcttcag aatcttcaaa cattttatth gtgatgagtt cccgatcgcg gagggccctca	420
aggaatggaa atgtcttttt tattgcattt gatatctcca gcttatgtct tttgaagtgc	480
ttgaatacag tgtcatagac aagtccctca tctacatcct ggtcttccgt gaacagcctg	540
gctcggaagg tcctacgccc acggactctc actgattgct agcacagcag tctgagccaa	600

<210> 80

<211> 600

<212> DNA

<213> Homo sapiens

<400> 80

ccttccccat ttctcacttt ccacaggtgg gatgtggcag tcctcatgga agactcttga	60
acaagtgtcg caacagaaca gctccccctc gtcccggcac acctcacact catccaagtt	120
tctcatctag aaggtaaaac agtgtccacg tctactgggaa tcacaagatt caggaaggcc	180

acccctctgg gcatctagaa cacactgctt atgtgtgagc ctgtatagac aggcatatgc 240
 ttctccctgg gatatgaagg aaaaatatgg catggagatt tcagaacaaa tcctgggtctg 300
 cagtgaagtt caggaggaag gggatatatgt cagaataaaa acgttttcct tataaaacca 360
 gagattatga cacagaaagc ctagcaacaa agcaagagga tgatcttata ggaatctgaa 420
 taattgtatt atgctgcaga taaaaccagg ttttgaagta aaagtgttaa atccatttgt 480
 ctatactaca aatcaactca tgaaagggag acccagagaa ttacatatga tggaataacc 540
 ttctaagata tcatcacatc ccatattctt ggccataagt tcccatgag ttgaagacag 600

<210> 81

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (445)..(456)

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

<400> 81

gtggctgttg ctggccccac ctccgcttat gtccttaaca tgcctcaggt ggttcatccc 60
 ttttggcact catggtgccc cctgtgggct gatacaggag tgagtctact gtgaaggcac 120
 tcagtatagt ggaaaaaaca aatatcaacc tcctgctttt tttcagtgtg aaaactataa 180
 gctctatggg agtttctgca gatggtacca taatggcctg agggaggagt atcacagtca 240

cagagtattg gttctctcac tgcataagcc atggttttac ccaccttcac aggctaaagg	300
tgcttcataa ccttgttcat gtattgaggt tctgttggct cttgtaatgg taatttcaca	360
tgtgggcagt tgttcatatt gatgtttcta taggggtatg atagctggag aggtctgcgc	420
cactgtcttg ctctgccttg atcannnnnn nnnnnnaaca agaatttgtc tcctcctagt	480
ttttcttttt ctcttaaccg acctagggtt agccttttaa tccttctccc tcctctgctt	540
ctaattgcat tgtttctttg tatgcctatc atatctacat gctacatgac cttcagctgg	600

<210> 82

<211> 600

<212> DNA

<213> Homo sapiens

<400> 82

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cacattttta ttgtttctca taaaatatat aacattacaa tatttatgga agtaggatat	120
ttttgtatca tatgtacgat gataatttat aggggtatttt aaatgatgtt ttttagcctc	180
cttaagtttt aagtggatct tgcaaatgaa aacaagtatt attgagtttg acatactcaa	240
attgccc aaa tatcagctgt ttaaacaacc aagtcatcat tgatacttta gtaaaggtta	300
gtaaattgtca tcaaaggctt atttgcagtt tacagttttt attacttagg agacttaagg	360
agtacctgcc aggtttgtcc atgctaattgc tacgattttg tttttgtagt tcaaccatat	420

tttgtatgga gatactttga ggctctgtaa atttctgggt actcctcaga acccactaga 480

tttagcattt catggatgac ttgtgtttga acaattatta ctataatggt tgccagatga 540

ttattttctt atttctttct ttgttctaca tggagaaata aaaccaataa ataagggaga 600

<210> 83

<211> 276

<212> DNA

<213> Homo sapiens

<400> 83

gtgccaatgt gaagtctgga ttttaattgg catgttattg ggtatcaaga aaattaatgc 60

acaaaaccac ttattatcat ttgttatgaa atcccaatta tctttacaaa gtgtttaaag 120

tttgaacata gaaaataatc tctctgctta attgttatct cagaagacta cattagtgag 180

atgtaagaat tattaaatat tccatttccg ctttggctac aattatgaag aagttgaagg 240

tacttctttt agaccaccag taaataatcc tccttc 276

<210> 84

<211> 184

<212> DNA

<213> Homo sapiens

<400> 84

aatgcttatg tctaaaagag ctcgctggca agctgcctct tgagtttggt ataaaagcga 60

actgttcaca aaatgatccc atcaaggccc tcccataatt aacactcaaa actattttta 120

ADL-0702WP_ST25.txt

aaatatgcat ttgaagcatc tgttgattgt atggatgtaa gtgttcttac atagttagtt	180
---	-----

atat	184
------	-----

<210> 85
 <211> 206
 <212> DNA
 <213> Homo sapiens

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ggcagtaagg aaccagcac aaaagaacct tcaaccata taccaccact ggattccaag	120
ggagccaact cggctcgaga gaggaggagg tatcttggga tcaagactgc agtttgggaa	180
tgcattggaca ccgattttgt ttctta	206

<210> 86
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 86 accatgttca tcttgcctc caagttatgg gggatcttgt actgacaatc tgtgttttcc	60
aggagttacg tcaaactacc tgtactgggt taaataagtt taccttttcc tccaggaaat	120
ataatgattt ctgggaacat gggcatgtat atatatatat ggagagagaa ttttgacat	180
attatacata ttttgtgcta atcttgtttt cctcttagta ttcctttgta taaattagt	240

ADL-0702WP_ST25.txt
 tttgtctagc atgtttgttt aatccttt 268

<210> 87
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 87
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 tgaaaatgtg gatttgcaga gacccaatgg tctgtgatca ttgaaaaaga ggaaagaaga 120
 aaaaatgtat ggggtgagagg aaggaggatc tccttcttct ccaaccattg acagctaacc 180
 cttagacagt atttcttaaa ccaatccttt tgcaatgtcc agcttttacc ccta 234

<210> 88
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 88
 ggcattggagc atctgtacag catgaagtgc aagaacgtgg tgcccctcta tgacctgctg 60
 ctggagatgc tggacgcccc ccgcctacat gcgcccacta gccgtggagg ggcatccgtg 120
 gaggagacgg accaaagcca cttggccact gcgggctcta cttcatcgca ttccttgcaa 180
 aagtattaca tcacggggga ggcagagggg ttccttgcca cagtctgaga g 231

<210> 89

<211> 241

<212> DNA

<213> Homo sapiens

<400> 89

gaaattagag tcctatattc aactaaagtt acaacttcca taacttctaa aaagtgggga 60

accagagatc tacaggtaaa acctggtgaa tctctagaag ttatacaaac cacagatgac 120

acaaaagttc tctgcagaaa tgaagaaggg aaatatggtt atgtccttcg gagttaccta 180

gcggacaatg atggagagat ctatgatgat attgctgatg gctgcatcta tgacaatgac 240

t 241

<210> 90

<211> 199

<212> DNA

<213> Homo sapiens

<400> 90

ttagatttcc agcttgtcac cttcaagggtt accttgtgaa taggactttt ttgagctatt 60

tctatccagt tgactatgga ttttgctgtg tgctttgttt ccaccaactc tccctgaaga 120

tgaggcgcac agacagacaa ctcacaggca agaacagcct ggtccatctt gaaagattct 180

caagactatt ctccacaag 199

<210> 91

<211> 210

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (70)..(70)

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

<400> 91

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acatagtatn gtgggggtcca tgagatgttt tgatacaggc atgcaatgtg aaataagcac 120

atcatgggga atgggggtatc cctccccctca agcgttttatc cttcaagtta taaaaaattc 180

aattacagtc ttagtttatgt caaaatgtac 210

<210> 92

<211> 148

<212> DNA

<213> Homo sapiens

<400> 92

accagaattt atggatgaac tgattgctta tatttttagtc agggtttata aatgtagatg 60

gtcaaattta cattgcctag tgatggaaaa ttcaactttt ttgattttt tttccaata 120

ttaaaaaagg ctctgtatgc atggtggg 148

<210> 93

<211> 227

<212> DNA

<213> Homo sapiens

<400> 93

aagatttcctg tgtactgggtt tacattttgtg tgagtggcat actcaagtct gctgtgcctg 60

tcgtcgtgac tgtcagtatt ctgctatatt tatagtcgtg ccatgttggt actcacagcg 120

ctctgacata ctttcatgtg gtaggttctt tctcaggaac tcagtttaac tattatttat 180

tgatatatca ttacctttga aaagcttcta ctggcacaat ttattat 227

<210> 94

<211> 245

<212> DNA

<213> Homo sapiens

<400> 94

tctcctctca tctgcatttc tcagaaatgc cctccctgcc cagtggtgac tttccctcgt 60

cactcctatg gagttctacc tggagcccag ccatgtgtgg aactgtgaag tttactcctc 120

tgtaaagatg gtttaaagaa agtcagcttc tgaaatgtaa caatgctaac ccttgctgga 180

accctgtaag aaatagccct gctgatagtt ttctaggttt atcatgtttg atttttacac 240

tgaaa 245

<210> 95

<211> 221

<212> DNA

<213> Homo sapiens

<400> 95

gaatttttct ctatttccag cacgctgatt tgatttataaa atgtaataag accaagagtt 60

ggagtaaagg gatattcatt ccatgttaaa agtggcttca tagctactga caaatgtctg 120

aactattgtc gtgcccttca aaactggagt tttctaaaat aatcttattt ttatacttgt 180

atgttccagc aatttaagat atataccatt gaaagggaaa t 221

<210> 96

<211> 176

<212> DNA

<213> Homo sapiens

<400> 96

ggctgagcaa ggcacatagt ctactcagtc tattcctaag tcctaactcc tccttgtggt 60

gttggatttg taaggcactt tatccctttt gtctcatgtt tcatcgtaaa tggcataggc 120

agagatgata cctaattctg catttgattg tcactttttg tacctgcatt aattta 176

<210> 97

<211> 219

<212> DNA

<213> Homo sapiens

<400> 97

aacgcaggcc gctttattcc tctgtactta gatcaacttg accgtactaa aatccctttc 60

tgttttaacc agttaaacat gcctcttcta cagctccatt tttgatagtt ggataatcca 120

gtatctgcca agagcatgtt gggctctccg tgactgctgc ctcatcgata cccatttag 180

ctccagaaag caaagaaaac tcgagtaaca cttgtttga 219

<210> 98

<211> 171

<212> DNA

<213> Homo sapiens

<400> 98

tcattctcgt attcttcagc ttcattccaa actgacttag aagcctccct tgaccctcac 60

ctgactattc acaggttata gcactttatg tttttcagtt ctgttatttt aattggtgcc 120

tctgtttgtg atctttaaga acataaaatt ctggcaagta actatttgct a 171

<210> 99

<211> 262

<212> DNA

<213> Homo sapiens

<400> 99

cactttgcag ccttgagagg tgcagaagag acaccgaggg gttcaccacc agagccacca 60

ttgtcagaga ggcgtccagc tgtgtccacc tgggactctg ccttcagggc ttcttgccctg 120

gctgggagct gcacaggcag actcctggga cgggtgtgccg acagctctgg gcacccccctt 180

ctaggatctg attcctgagg aatcacaatg tggatttcac aatcacttcc agtgtctttt 240

gccaacctct gtgaacagat gt 262

<210> 100

<211> 248

<212> DNA

<213> Homo sapiens

<400> 100

aagtttgcac agttctagac acgataaata catgtgaaat cacacaactc agaaaatgtc 60

ccttaaatta attgagccat tggtagttgt gaattagaag agacatctat gttctgatcc 120

actgttgaaa gctgtacaat gttacctatt tatttgcaga catcctttgg aaacaaatag 180

gtagatttgc aacaaataaa gagtggagta cagctgctga cattaccttg tatattcatg 240

cctttatg 248

<210> 101

<211> 252

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (123)..(124)

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

<400> 101

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agatagattc tgtaatttgc ctaacaatgt ctataggatg atcccatttg tcaaaaaaaaa 120

aanngaactg ggctttattg atgtcaccta aatgcaccta aacttctttt ttgccccatg 180

ctcttctgta ctcttgatct ttccccaaat ttttaaaaac atgacactca ttcccttatt 240

tttcctactt ag 252

<210> 102

<211> 224

<212> DNA

<213> Homo sapiens

<400> 102

ttaattgctt tctctcacca gggaagggtgt gggaaggact tgtgaaatac atattcgagg 60

aaaaactatg cacaaggccg tgcatttaaa aataaactcc ctaaggctgg ggtgaaacct 120

gctacgggtct gcgcaagttg actgttaatg aatttgattc tcagggtgga gtgattaataa 180

gaacactgat catgtcattt tcttttttgt cactaattcc ctcc 224

<210> 103

<211> 266

<212> DNA

<213> Homo sapiens

<400> 103

gtcatccaga gttataatgg cccattatct aatgggcaga gtttacttag gctttcacta 60

cttccactgc ccacttgaaa caggggaaaaa tattttcccc ccgcgctgtg agtgtgctat 120

ttagagctga ccacaagcgg ggggaagaga ggatggctcg gatgctgcat ttccactgag 180

aacacaaggc tggcaaagct tgtctgctgc ccagcaagca cttcaggctc acaccatttt 240

aggttcactt taagtagttt ctcaat 266

<210> 104

<211> 251

<212> DNA

<213> Homo sapiens

<400> 104

tggacagtgg acgtctgtca cccaagagag ttgtgggaga caagatcaca gctatgagca 60

cctcgcacgg tgtccaggat gcacagcaca atccatgatg cgttttctcc ccttacgcac 120

tttgaaaccc atgctagaaa agtgaatata tctgactgtg ctccactcca acctccagcc 180

tggatgtccc tgtctgggcc ctttttctgt tttttattct atgttcagca ccactggcac 240

caaatacatt t 251

<210> 105

<211> 247

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (55)..(57)

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

<220>

<221> misc_feature

<222> (60)..(60)

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

<220>

<221> misc_feature

<222> (105)..(105)

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

<220>

<221> misc_feature

<222> (109)..(109)

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

<220>

<221> misc_feature

<222> (115)..(115)

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

<220>

<221> misc_feature

<222> (120)..(120)

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

<220>

<221> misc_feature

<222> (122)..(122)

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

<220>

<221> misc_feature

<222> (133)..(133)

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

<220>

<221> misc_feature

<222> (139)..(141)

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

<400> 105

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gtgtagtctt cagtatatca ctgtatttcc gtaatactag actcnaagnt atgcnagatn 120

gnttattccc ttngtgaann nggagttgct cattacgttc ttgaaatatc gcacatcctg 180

ttggttcttc aaaggaagcc tttccaccag attagtgttc aagtctttgc agaggagacc 240

aacttttt 247

<210> 106

<211> 211

<212> DNA

<213> Homo sapiens

<400> 106

aaggctatgc tttcaatctc ctacacaaat tttacatctg gaatgatctg aaggttcttc 60

aaagacattc aaaattaggc ttttttatgt cctgttttaa gtgaaaatat ttattcttct 120

aagggtccat tttatttgta ttcattcttt tgtaaacctc tttacatttc tctttacatt 180

ttattctttg cccaaatcaa aagtgattcc t 211

<210> 107

<211> 187

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (146)..(146)

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

<400> 107

cttagcatta gaacactcag taatcatatg aattgtgcat ttgtttgttt tgcttaactc 60

tttctgtttg tttatgtttg gggttttatt gttgttgttt cacttttctc ccatctcttc 120

ctgacttggt caaatccaaa ggaatnttcc aaattgtggg gagcaaggca tctgaaatgg 180

ctaaaac 187

<210> 108

<211> 234

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (120)..(120)

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

<220>

<221> misc_feature

<222> (148)..(148)

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

<220>

<221> misc_feature

<222> (194)..(194)

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

<400> 108

atgctatatg ctgtatccca cttttctctg aatgttacat tttctcccct atcccaggct 60

gcatctaaga aaactcaaag ggaatatgct atctatcttt tccgagcaat gaaagctctn 120

gggttttttc cttgcttttc agggcacnat acttctcttt cttcctgggt agacaggata 180

agttctgagt ccnttggtat catcagctta cttcttctct gttaaattatt caca 234

<210> 109

<211> 248

<212> DNA

<213> Homo sapiens

<400> 109

gtggtcttcc tctgaatatt agcagaagtt tcttattcaa aggcctcctc ccagaagaag 60

tcagtgggaa gagatggcca ggggaggaag tgggtttatt ttctgttgct attgatagtc 120

attgtattac tagaaatgaa ctgttgatga atagaatata ttcaggacaa tttgggtcaat 180

tccaatgcaa gtacggaaac tgagttgtcc caaattgatg tgacagtcag gctgtttcat 240

cttttttg 248

<210> 110

<211> 277

<212> DNA

<213> Homo sapiens

<400> 110

tattctatta ctgtacttag ttggctatgc tggcatgtca ttatgggtaa aagtttgatg 60

gatttatttg tgagttattt ggttatgaaa atctagagat tgaagttttt cattagaaaa 120

taacacacat aacaagtcta tgatcatttt gcattttctgt aatcacagaa tagttctgca 180

atatttcattg tatattggaa ttgaagttca attgaatttt atctgtattt agtaaaaatt 240

aacttttagct ttgatactaa tgaataaagc tgggttt 277

<210> 111

<211> 245

<212> DNA

<213> Homo sapiens

<400> 111

gggattttga gctatcatct ctgcacatgc ttagtgagaa gactacacaa catttctaag 60

aatctgagat tttatattgt cagttaacca ctttcattat tcattcacct caggacatgc 120

agaaatattt cagtcagaac tgggaaacag aaggacctac attctgctgt cacttatgtg 180

tcaagaagca gatgatcgat gaggcaggtc agttgtaagt gagtcacatt gtagcattaa 240

attct 245

<210> 112

<211> 284

<212> DNA

<213> Homo sapiens

<400> 112

ttgaatagat catcagtggc cactgatgta attaatacatg tctatgtaat gaagctgcca 60

taaaaaaccc aggaggacag tggtgagaga gcttctaggt tgggtgaacac ttgggggtgt 120

ctggaagaca gcccacctgg agaggacacg gaggctcttc gcaccttccc ccataacctgg 180

ctctctccat ctcttcattt gtccatctgt atctttttca ttatattatc cttgataata 240

aactggtaaa tataagtgtt tccctaagtt ctatgagcca ccat 284

<210> 113

<211> 290

<212> DNA

<213> Homo sapiens

<400> 113

aggcctctga ttgcacttgt gtaggatgaa gctggtgggt gatgggaact cagcacctcc 60

cctcaggcag aaaagaatca tctgtggagc ttcaaaagaa ggggcctgga gtctctgcag 120

accaattcaa cccaaatctc gggggctctt tcatgattct aatgggcaac cagggttgaa 180

acccttattt ctagggtctt cagttgtaca agactgtggg tctgtaccag agccccgctc 240

agagtagaat aaaaggctgg gtagggtaga gattcccatg tgcagtggag 290

<210> 114

<211> 270

<212> DNA

<213> Homo sapiens

<400> 114

atacgttttt cactttctga ccaggaccat gcctgtggag tagatgttga caagaaacac	60
---	----

tgaccagatc aaaatgtgtc tcaaggagaa tggcacaatt ttgtgcaaat gaatcaagga	120
---	-----

agtcttattg cacaagagta tcctggaacc cagtgcatt gatttttttag aaaaatatat	180
---	-----

cacatagggg aaaaaaactg gaatatgttg aaggagacgt atataatatt tagcatccag	240
---	-----

attgatgact tctgccctaa ctatgcaatg	270
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<210> 115

<211> 230

<212> DNA

<213> Homo sapiens

<400> 115

cgcttgaacc tggaaagtgg acattgcagt gagctgagat tgtgccactg cactccagcc	60
---	----

tgggcaacac agcgagactc tgtctcaaaa aaaaaaaaaa aagaaagaaa aaaaagagaa	120
---	-----

aactcagaga ttcgtggaga ctggaaccac ggggtgtggag agaggggtta gtagagacca	180
--	-----

gattctgcag gtactataat gacattccca ggctaaggag tttagatctt	230
--	-----

<210> 116

<211> 283

<212> DNA

<213> Homo sapiens

<400> 116

atctacaccc tcaggaataa gaaagtgaag ggggcagcga ggaggctgct gcggagtctg 60

gggagaggcc aggctgggca gtgagtagtt ggggagggga gaaagtatta agccagaacc 120

caaggatgga aataccccctt agtgagtcag tttagacttc aggctgttca tttttgtatg 180

ataatctgca agatttgtcc taaggagtcc aatgggggat atgttttcct cccgtgagga 240

aatgtttagt tcttgaggga aaaatcccta aatcctctat ata 283

<210> 117

<211> 111

<212> DNA

<213> Homo sapiens

<400> 117

gggtagcaag ttcaccacag tgtaaatggg ggtcccaagg tattcttccc ccaggcctag 60

gtatagggct attactcctc tctgctccag gtgtagacat acatttacat t 111

<210> 118

<211> 238

<212> DNA

<213> Homo sapiens

<400> 118

tggaggggtga aattctgata gacttgaggc tttgagatgt ggtcctgggg tggagcaaga 60

caagaaaagt actggagatt ggggtttgag gagtctatgc aattatTTTT atttttaaaa 120

ADL-0702WP_ST25.txt

atctttgtgg ctacatagca ggtgtatata tttatgtggt aagtgagata tttcgataca	180
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gacatacaat gtataatcac aggcatacaa tgtagacagg cataaagtgt atagtcac	238
---	-----

<210> 119

<211> 299

<212> DNA

<213> Homo sapiens

<400> 119

aatgtgaaac tgctccatga accccaaaga attatgcaca tagatgcgat cattaagatg	60
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cgaagccatc gagttaccac ctggcatgct taaactgtaa agagtgggtc aaagtaaact	120
---	-----

gaattggaaa atccaaagtt atgcagaaaa acaataaagg agatagtaaa aagggttaac	180
---	-----

gagccagtcc aggggaagcg aagaagacaa aaagagtcct tttctgggcc aagtttgata	240
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aattaggcct cccgaccctt tgctctgttg ctttatcaac tctactcggc aataacaat	299
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<210> 120

<211> 294

<212> DNA

<213> Homo sapiens

<400> 120

gattaagaac agttttttca acaaatagtg ttgggacaat ggggtgccac atgcaaaaga	60
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ataaagttgt ccccttacct tacaccatct ccaaaaatta actcaaaata tgtcaaagac	120
---	-----

ataaacgtaa gagctaaaac tgtaaaactc ctagaataaa acataggagt aaatcttcat	180
---	-----

ADL-0702WP_ST25.txt

gaccttggat taggccattg tgtctttaat ataacaccaa aagaataagt aataaaaaaa	240
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tagataaatt gaactccatc aaaattaaaa gcctttgtgc ttcataaggac acca	294
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<210> 121

<211> 269

<212> DNA

<213> Homo sapiens

<400> 121

tctcaagcta tgatcagaag actttaatta tatatatttca tcctataagc ttaaataagga	60
---	----

aagtttcttc aacaggatta cagtgtagct acctacatgc tgaaaaatat agccttttaa	120
---	-----

tcatttttat attataactc tgtataatag agataagtcc atttttttaa aatgttttcc	180
---	-----

ccaaaccata aaaccctata caagttgttc tagtaacaat acatgagaaa gatgtctatg	240
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tagctgaaaa taaaatgacg tcacaagac	269
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<210> 122

<211> 287

<212> DNA

<213> Homo sapiens

<400> 122

tctttctttt ccagacaact ttgaatggag aggagcaaata tagtcttttg gtttaattct	60
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gtctcagttt gcttatctaa agaaaggaaa acagagtggc tacacttggt tagaaccata	120
---	-----

tgcatactcc agagaaagat gctctattaa tccccaaaaa tacagccact tgaaaccagc	180
---	-----

ADL-0702WP_ST25.txt

caaagcgaag gtgtaaggga cttcatggaa aggaggcagt tcaccaaagt attgaggggt	240
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tttatatattt aaactccgcc agtgaattga cgtgttatgt cacttac	287
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<210> 123

<211> 275

<212> DNA

<213> Homo sapiens

<400> 123

gaattttattg gagcatgacc acggaggata gtatgagccc taaaaatcca gactctttcg	60
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ataccagga ccaagccaca gcaggtcctc catcccaaca gccatgcccg cattagctct	120
--	-----

tagaccaca gactggtttt gcaacgttta caccgactag ccaggaagta cttccacctc	180
--	-----

gggcacattt tgggaagttg cattcctttg tcttcaaact gtgaagcatt tacagaaacg	240
---	-----

catccagcaa gaatattgtc cttttgagca gaaat	275
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<210> 124

<211> 276

<212> DNA

<213> Homo sapiens

<400> 124

tccccggtta ctaccttta tccatccccg gccaccacct catacccatc ccctgtgccc	60
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acctccttct cctctcccgg ctctcgacc tacccatccc ctgtgcacag tggcttcccc	120
--	-----

tccccgtcgg tggccaccac gtactcctct gttccccctg ctttcccggc ccaggtcagc	180
---	-----

ADL-0702WP_ST25.txt

agctttccctt cctcagctgt caccaactcc ttcagcgcct ccacagggct ttcggacatg	240
--	-----

acagcaacct tttctcccag gacaattgaa atttgc	276
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<210> 125

<211> 292

<212> DNA

<213> Homo sapiens

<400> 125

atgaagactt ggctgattca gatgccaggg ctttgtatga agcaggagaa aggagaaagg	60
---	----

ggacagacgt aaacgtgttc aataccatcc ttaccaccag aagctatcca caacttcgca	120
---	-----

gagtgtttca gaaatacacc aagtacagta agcatgacat gaacaaagtt ctggacctgg	180
---	-----

agttgaaagg tgacattgag aaatgcctca cagctatcgt gaagtgcgcc acaagcaaac	240
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cagctttctt tgcagagaag cttcatcaag ccatgaaagt atgtaccatt ct	292
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<210> 126

<211> 237

<212> DNA

<213> Homo sapiens

<400> 126

tgccttgtgt cttccgtttg acggaagaga atggattctg gtatctagac caaatcagaa	60
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gggaacagta cattccaaat gaagaatttc ttcatctga tctcctagaa gacagcaaat	120
--	-----

accgaaaaat ctactccttt actcttaagc ctcgaacaat tgaagatttt gagtctatga	180
---	-----

ADL-0702WP_ST25.txt

atacataacct gcagacatct ccatcatctg tgtttactag taatcatttt gttcctt	237
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<210> 127

<211> 285

<212> DNA

<213> Homo sapiens

<400> 127

ggtatagcat atgtggcctt gcttactaaa gtggatgatt gcagtgaggt tcttcaagac	60
---	----

aacttttttaa acatgagtag atctatgact tctcaaagcc gggtcatgaa tgtccataaa	120
--	-----

atgctaggca ttcctatttc caatattttg atggttggaa attatgcttc agatttggaa	180
---	-----

ctggacccca tgaaggatat tctcatcctc tctgcactga ggcagatgct gcgggctgca	240
---	-----

gatgattttt tagaagattt gcctcttgag gaaactggtg cattt	285
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<210> 128

<211> 233

<212> DNA

<213> Homo sapiens

<400> 128

tgcttatccg ttagccgtgg tgatttagca ggaagctgtg agagcagttt ggtttctagc	60
---	----

atgaagacag agccccaccc tcagatgcac atgagctggc gggattgaaa gatgctgtct	120
---	-----

tcgtactggg aaagggattt tcagccctca gaatcgctcc accttgcagc tctccccttc	180
---	-----

tctgtattcc tagaaactga cacatgctga acatcacagc ttatttcctc att	233
--	-----

<210> 129

<211> 270

<212> DNA

<213> Homo sapiens

<400> 129

taggcaccac atgggacccct tgttcttcct ccttgtaagc agtaattgaa atcagtttgg 60

cagcctgggtt tacagtgacc atgggtggctt gtctcccggtg ctcttacctc actctgttga 120

tggtgtaaaa cctccagcta acttcatggg gtggctgacc cacgttgctc atttattcat 180

tcaacacata ttcatgacc atctactcta tgccagggtat tggtatcagc actgggaata 240

gatcagtga cttattgatct atttgcctaa 270

<210> 130

<211> 79

<212> DNA

<213> Homo sapiens

<400> 130

ctcagttctg gtccttcaag cctgtatggg ttggattttc agtaggggac agttgatgtg 60

gagtcaatct ctttggtac 79

<210> 131

<211> 256

<212> DNA

<213> Homo sapiens

<400> 131

ctgaggtgct atgttcttag tggatgttct gaccctgctt caaatatttc cctcaccttt 60

cccatcttcc aagggataaa ggaatctttc tgctttgggg tttatcagaa ttctcagaat 120

ctcaaataac taaaaggat gcaatcaaat ctgcttttta aagaatgctc ttacttcat 180

ggacttccac tgccatcctc ccaaggggcc caaatcttt cagtggctac ctacatacaa 240

ttccaaacac atacag 256

<210> 132

<211> 94

<212> DNA

<213> Homo sapiens

<400> 132

taacaaatca tcaacttcca ctggtcaata tatagatttt ggggtgtctga ggccccaaga 60

ttagatgcca ctaatctcca aagattccct ccaa 94

<210> 133

<211> 254

<212> DNA

<213> Homo sapiens

<400> 133

gcagggctctt gggataaac tgatcatcaga aacaaggctg ggggctgatt tcgggggtggg 60

gagccttagg aggccagaaa ttccaatcag agccagtttt tctgggaggg agtggctaga 120

cagtcaagga aggacgttca catttcaaaa gaagtcgggt ggggggatga gattattcta 180

ggggggcatc gaattccctt taaggggggg gctcacttct gccagagta aagaggatct 240

cacaccatgg aaat 254

<210> 134

<211> 298

<212> DNA

<213> Homo sapiens

<400> 134

tagttatact tacacactcc tctcatgttg tctatggagt ggtggatgct gcagggaggg 60

tgacatccta gttagtccta agagccagac tgcctgaagc tcactataac aagtcctgcc 120

ttggggaaga aggaagtgtg tctctgtgaa cctccacact gggccgaaag ggaggccact 180

ctctctgctg cctctcccca accttggcct tctgtgctcc tagtgaacct ctcaccccct 240

gcctacagcc tcgaatctca gaccatgatg acctctggtc accctgaatc agagcttt 298

<210> 135

<211> 292

<212> DNA

<213> Homo sapiens

<400> 135

gtaaaattcc tatgtcagca ccctaattgag acaaatgaca tcctaattct tccccttggc 60

ttgccagttt gtaggtacta gtttttcaga agttactcta aaatatttct gattgcagct 120

ccttcctaaa gagcagtatg agcagcatgt ggttatttat gtattcactc ttttctccta 180

cttctgtggt gacctggaac aaattctctt atgtatgtaa agattggaca gcccacctga 240

ttccgatgtc acttagatac actgtttttg tatcagcctc ttctcttaga aa 292

<210> 136

<211> 180

<212> DNA

<213> Homo sapiens

<400> 136

gattgttggc caatagacct tccactccag tagagagga ggacttggct ctgagaacct 60

ccatctgacc taagaggaaa cctcctctcc tatggccatc tcctcctcct gtcctttaag 120

tcctctgtgg ttactatata tccttttccc tttcttacct tttcgcttag caatttcaat 180

<210> 137

<211> 141

<212> DNA

<213> Homo sapiens

<400> 137

aagttctttg ggatagaggg tgaagaactt gggacatggg ctgtttcagg gcagctgaag 60

ttcaaagggg aataggtaat tggggggaag gggggaagtt ggggcagaaa gggattgttg 120

ggccaatagg acctttccac t 141

<210> 138

<211> 248

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (161)..(200)

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

<400> 138

aggattatac ttcagtcctt gctttacatt tatttcttaa agaagcttct ggtaaattag 60

agcaatagca tcggcttagt ttagtgttgt tctgttggac taaggatatc agttctatcc 120

gtatggtcgg gcctaaagcc tgggaaatat ttaatgaagg nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn ataacaaata acaaaacaaa aaccaagcca tttcccttta 240

tagtaaga 248

<210> 139

<211> 259

<212> DNA

<213> Homo sapiens

<400> 139

acagaagcca ttgcctcctt tgtttacctt ggggtccacct ccacaaaac ccaacagacc 60

accaaattgtt gacctgacga aattccacaa aacctcttct ggaaacagta ctagcaaagg 120

ccagacgtct tactcaacaa cticcctgcc accacctcca ccatcccatc cggccagcca 180

accaccattg ccagcatctc acccatcaca accaccagtc ccaagcctac ctcccagaaa 240

cattaaacct ccgtttgac 259

<210> 140

<211> 199

<212> DNA

<213> Homo sapiens

<400> 140

gcacagctca gcacaacatt ccaagctcaa aatagaagcc ttctcagtga gctccagcac 60

gcccagagga ctgttaataa cgatgatcca tgtgttttac tctaaagtgc taaatatggg 120

agtttccttt tttttactct ttgtcactga tgacacaaca gaaaagaaac tgtagacctt 180

gggacaatca acatttaaa 199

<210> 141

<211> 279

<212> DNA

<213> Homo sapiens

<400> 141

cctgccctgg aagtaatctt gctgtcctgg aatctcctcg gggatgaggc agctgccgag 60

ctggcccagg tgctgccgaa gatgggccgg ctgaagagag tggacctgga gaagaatcag 120

atcacagctt tgggggcctg gctcctggct gaaggactgg cccaggggtc tagcatccaa 180

gtcatccgcc tctggaataa cccattccc tgcgacatgg cccagcacct gaagagccag 240

gagcccaggc tggactttgc cttctttgac aaccagccc 279

<210> 142

<211> 198

<212> DNA

<213> Homo sapiens

<400> 142

gcacagctca gcacaacatt ccaagctcaa aatagaagcc ttctcagtga gctccagcac 60

gcccagagga ctgttaataa cgatgatcca tgtgtttttac tctaaagtgc taaatatggg 120

agtttccttt ttttactctt tgtcactgat gacacaacag aaaagaaact gtagaccttg 180

ggacaatcaa catttaaa 198

<210> 143

<211> 183

<212> DNA

<213> Homo sapiens

<400> 143

gagagttcaa ctaagaaagg tcacatatgt gaaagcccaa ggacactgtt tgatatacag 60

caggtattca atcagtgtta ttgaaacca aatctgaatt tgaagtttga atcttctgag 120

ttggaatgaa tttttttcta gctgagggaa actgtatatt tctttcccca aagaggaatg 180

taa 183

<210> 144

<211> 294

<212> DNA

<213> Homo sapiens

<400> 144

ctcgattatt ccctgtacaa tattttaaatt ttattgcttg atacttttga caacaaatta 60

ggttttgtac aattgaactt aaataaatgt cattaaaata aataaatgca atatgtatta 120

atattcattg tataaaaata gaagaatata aacatatttg ttaaataattt acatatgaaa 180

tttaatatag ctatTTTTat ggaatttttc attgatatga aaaatatgat attgcatatg 240

catagttccc atgttaaatac ccattcataa ctttcattaa agcatttact ttga 294

<210> 145

<211> 231

<212> DNA

<213> Homo sapiens

<400> 145

gcaaataaat tcatacatag tacatacaaa ataagagaaa aaattaaatt gcagatgggt 60

aaatatcaca tcacttaact gatgttactg aaaatgtatt ttcctgcata atcatatgggt 120

tgacagtatg cattaagaag gtaagtaaaa caatgaagac aattttgatt taatatggta 180

atgcacaatt ccaactaacg tacattcaac agatcatgaa attgggttat t 231

<210> 146

<211> 175

<212> DNA

<213> Homo sapiens

<400> 146
 ttgccttcta aatatactga aatgatttag atatgtgtca acaattaatg atcttttatt 60
 caatctaaga aatgggttag tttttctctt tagctctatg gcatttcact caagtggaca 120
 ggggaaaaag taattgccat gggctccaaa gaatttgctt tatgttttta gctat 175

<210> 147
 <211> 192
 <212> DNA
 <213> Homo sapiens

<400> 147
 cctggccact cgcaagacct tttatctgaa aaccagccaa gctttattca cgacacactt 60
 cttcccttca ctctcccact tctgtgggtca actccctgca gaactcccaa actgccgttc 120
 ttttcgatag ctacgatgg tgtatgagtg tcaatcatct gacccttctt ggagtctcat 180
 atttcgtgga ac 192

<210> 148
 <211> 187
 <212> DNA
 <213> Homo sapiens

<400> 148
 ctgaggaccg gctgcagacc tcaactctgag tggcaggcag agaaccaaag ctgcttcgct 60
 gctctccagg gagaccctcc tgggatgggc ctgagaggcc ggggctcagg gaaggggctg 120

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 ggatcggaac ttcctgctct tgtttctgga caactttccc cttctgcttt aaaggttgtc 180

gattatt 187

<210> 149

<211> 254

<212> DNA

<213> Homo sapiens

<400> 149

agtgtgatgg atcccccttta gggtatttag gggatatatgt cccctgcttg aaccctgaag 60

gccaggtaat gagccatggc cattgtcccc agctgaggac cagggtgtctc taaaaaccca 120

aacatcctgg agagtatgcg agaacctacc aagaaaaaca gtctcattac tcatatacag 180

caggcaaaga gacagaaaat taactgaaaa gcagtttaga gactggggga ggccggatct 240

ctagagccat cctg 254

<210> 150

<211> 192

<212> DNA

<213> Homo sapiens

<400> 150

gcgttacaga tggacgtagc tgccttggtt ttccagtcct caagggaata ctgaagatgc 60

tgactgaagg ggattggatg ttgatttttag aagatggaga actccagcca cctttgtaaa 120

gcactagtgt ttgtcattta tgtaagtcag gtcggctcag gtcttgatag tccgtcttgg 180

tgtgaggcat gc

192

<210> 151

<211> 157

<212> DNA

<213> Homo sapiens

<400> 151

cacagtaatg tcgaaactag gcctttgaac caaggcagtc tagggtaaaa tatagtttca 60

aagtatgaat aagaattggt atttgtgtta tctttgagta agaaactgtc cgatatgaat 120

cacaacgtgg gtgaatgtag tattttcctg aagtgtg 157

<210> 152

<211> 187

<212> DNA

<213> Homo sapiens

<400> 152

ggccatgaac atcacctgca caggacgggg accagacaac tgtatccagt gtgcccacta 60

cattgacggc cccactgcg tcaagacctg cccggcagga gtcatgggag aaaacaacac 120

cctggtctgg aagtacgcag acgccggcca tgtgtgccac ctgtgccatc caaactgcac 180

ctacggg 187

<210> 153

<211> 102

<212> DNA

<213> Homo sapiens

<400> 153

atcacagggtt tgagctgaat tatcacatga atataaatgg gaaatcagtg ttttagagag 60

agaacttttc gacatatttc ctgttccctt ggaataaaaa ca 102

<210> 154

<211> 203

<212> DNA

<213> Homo sapiens

<400> 154

agtttcagac aaatgttcag tgtgagtgag gaaaacatgt tcagtgagga aaaaacattc 60

agacaaatgt tcagtgagga aaaaaagggg aagttgggga taggcagatg ttgacttgag 120

gagttaatgt gatctttggg gagatacatc ttatagagtt agaaatagaa tctgaatttc 180

taaagggaga ttctggcttg gga 203

<210> 155

<211> 273

<212> DNA

<213> Homo sapiens

<400> 155

aacttaagct gaatgtgtaa tggatttgtc tatagtttta catatttgga agcattttaa 60

aatagggtttt aatcttacat aaaattactt ttatacttgt gttaacattt tcttctgtgc 120

cttttgggta atttaatttc tgttatgaat ttctggtgcc tatgagctag ctatcaccta 180

cctgaaaggt gcttagaggt gaaggtagtg tttctaaaaa cacatcactg tgacaccttt 240

ctatcctcac attttcaagc ttgcctcttt tct 273

<210> 156

<211> 135

<212> DNA

<213> Homo sapiens

<400> 156

gtgactgctt atgaaggggt attgctcagc taagtatttc tgaatgagtc ttaggtctgt 60

tggccttcaa tctctaccga aaccctgaga acttgatgat gcttttggtt tctgagaatc 120

gtttcagtgt gctgg 135

<210> 157

<211> 218

<212> DNA

<213> Homo sapiens

<400> 157

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ttggcatgcc acctgcgtaa aacacacaat tttgttaaga tatacaataa aattattatg 120

ctaatagcaa atattttatg tagctcacta tgttccatgt agtcttctaa gtgcttcatg 180

ttagtcccca gttaaacc tggttttgga aggctgag 218

<210> 158

<211> 132

<212> DNA

<213> Homo sapiens

<400> 158

gtgagcctgc cagcgtttgc gacgtccccc caccgacaggc tcatactttc tgaggatcgt 60

gcatagcata ggacgtctga acctttgtac aaatgtgtag atgacatctt gctacagctt 120

ttatttgtga at 132

<210> 159

<211> 129

<212> DNA

<213> Homo sapiens

<400> 159

gtaaattcaa tacaatgtca gtttttaaaa gtcaaagtta gatcaagaga atatttcaga 60

gttttggttt acacatcaag aaacagacac acatacctag gaaagattta cacaatagat 120

aatcatctt 129

<210> 160

<211> 229

<212> DNA

<213> Homo sapiens

<400> 160

actgtacaaa gtataagtct tagatgtata tatttcctat attgttttca gtgtacatgg 60

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aataacatgt aattaagtac tatgtatcaa tgagtaacag gaaaatttta aaaatacaga	120
tagatatatg ctctgcatgt tacataagat aaatgtgctg aatggttttc aaataaaaaat	180
gaggtactct cctggaaata ttaagaaaga ctatctaaat gttgaaaga	229

<210> 161
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 161	
gaggaccgag cacagaaatc ttagagattt cttgtcccct ctcaggatcat gtgtagatgc	60
gataaatcaa gtgattggtg tgacctgggtc tcactacaag cagcctatct gcttaagaga	120
ctctggagtt tcttatgtgc cctgggtggac acttgcccac catcctgtga gtaaaagtga	180
a	181

<210> 162
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 162	
tctgaactct caaaagtcta tttttttaac tgaaaatgta aatttataaa tatattcagg	60
agttggaatg ttgtagttac ctactgagta ggcggcgatt tttgtatgtt atgaacatgc	120
agttcattat tttgtgggtc tattttactt tgtacttggtg tttgcttaaa caaagtgact	180

gtttggctta taaacacatt gaatgcgctt tattgcccacat gggatatgtg gtgtatatcc 240

ttccaaaaaa ttaaaacgaa aataaagtag ctgcgattgg 280

<210> 163

<211> 166

<212> DNA

<213> Homo sapiens

<400> 163

attcctgtca ttaccattg taacagagcc acaaactaat actatgcaat gttttaccaa 60

taatgcaata caaaagacct caaaatacct gtgcatttct ttaggaaaa caacaaaagg 120

taattatgtg taattatact agaagttttg taatctgtat cttatc 166

<210> 164

<211> 136

<212> DNA

<213> Homo sapiens

<400> 164

caggacccat cacgcctgtg cagtggcccc cacagaaaga ctgagctcaa ggtgggaacc 60

acgtctgcta acttgagacc ccagtgccaa gcacagtgcc tgcattgatt tatccaataa 120

atgtgaaatt ctgtcc 136

<210> 165

<211> 237

<212> DNA

<213> Homo sapiens

<400> 165

aaagtggcat tttcttgatt ggaaaggggg aaggatctta ttgcacttgg gctgttcaga 60

atgtagaaag gacatatttg aggaagtatc tatttgagca ctgatttact ctgtaaaaag 120

caaaatctct ctgtcctaaa ctaatggaag cgattctccc atgctcatgt gtaatggttt 180

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<211> 86

<212> DNA

<213> Homo sapiens

<400> 166

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ctgtcggagc cctgtctcct ctctct 86

<210> 167

<211> 159

<212> DNA

<213> Homo sapiens

<400> 167

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gattttcagc cctcagaatc gctccacctt gcagctctcc ccttctctgt attcctagaa 120

actgacacat gctgaacatc acagcttatt tcctcattt 159

<210> 168

<211> 175

<212> DNA

<213> Homo sapiens

<400> 168

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ccagcccctg ccattttctta agacttttctg ctgcactcac aggatcctga gctgcactta 120

cctgtgagag tcttcaaact tttaaaccct gccagtcagg acttttgcta ttgca 175

<210> 169

<211> 191

<212> DNA

<213> Homo sapiens

<400> 169

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tttagccact ttagagaaac ctcataggca cagagtttcc aagattaatt ttaagaatat 120

cttcacgaac ttgaccctcc tactccacat tgcaacattt ccatcagaca gcatttcaat 180

tccagtatta t 191

<210> 170

<211> 172

<212> DNA

<213> Homo sapiens

<400> 170

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taataataat aataataaaa aatgtatttt aaagatggcc tgtgggtatc ttggaaattg 120

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<210> 171

<211> 239

<212> DNA

<213> Homo sapiens

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ctggaagact ggatttgctg gaagacttga tttactggaa gacttggagc ttcttggaag 180

acatggattg tccggaagac atggattgtc tggaagatgt ggattttctg gaagctcag 239

<210> 172

<211> 255

<212> DNA

<213> Homo sapiens

<400> 172

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cctacatgct gaaaaatata gccttttaaat cattttttata ttataactct gtataataga 180

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<210> 173

<211> 238

<212> DNA

<213> Homo sapiens

<400> 173

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caagccagaa gtgacttatt aaactattga aggaaaagga ctcaagaaaa ataataaaag 120

accataaata agggcgaaaa cattaccatg tgaaaagaat gtatttcacc tgcaagttac 180

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<210> 174

<211> 230

<212> DNA

<213> Homo sapiens

<400> 174

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attgtgttat ttactactt ctctctgtat tttttcttgc attgacatta tagacattga 120

ggacctcatc caaacaattt aaaaatgagt gtgaaggggg aacaagtcaa aatattttta 180

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 gggattctgc actggtgctt tggattccct gatatgttcc ttcaaa 166

<210> 176
 <211> 137
 <212> DNA
 <213> Homo sapiens

<400> 176
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 caataataat acctccctta gaagtttggt gtgaggatta aataatgtaa ataaagaact 120
 agcataacac tcaaaaa 137

<210> 177
 <211> 227
 <212> DNA
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<400> 177

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ctctcctagt caatatccac cccatccaat ttatcaagga agaaatgggt cagaaaatat 120

tttcagccta cagttatggt cagtcacaca cacatacaaa atgttccttt tgctttttaa 180

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<210> 178

<211> 218

<212> DNA

<213> Homo sapiens

<400> 178

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agaaaagcta ttgagagtat ctagttaatc agtgcagtag ttggaaacct tgctgggtga 120

tgtgatgtgc ttctgtgctt ttgaatgact ttatcatcta gtctttgtct atttttcctt 180

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<210> 179

<211> 243

<212> DNA

<213> Homo sapiens

<400> 179

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gagtgtgagc agggcttgct cctgccaacc acaattcaat gaatccccga cccccctacc 120

ccatgctgta cttgtggttc tctttttgta ttttgcattc gaccccgggg ggctgggaca 180

gattggcaat gggccgtccc ctctcccctt ggttctgcac tgttgccaat aaaaagctct 240

taa 243

<210> 180

<211> 267

<212> DNA

<213> Homo sapiens

<400> 180

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tcctcctggg cctcagcttg ccagataca tacctaaata tatatatata tatatgaggg 180

agaacgcctc acccagattt tatcatgctg gaaagagtgt atgtatgtga agatgcttgg 240

tcaacttgta ccagtgaaac acacaaa 267

<210> 181

<211> 267

<212> DNA

<213> Homo sapiens

<400> 181

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agagcctgag aagcgtcagg tcccacttct gccatgcagc tactatgagc cctcggggcc 120

tcctcctggg cctcagcttg ccagataca tacctaaata tatatatata tatatgaggg 180

agaacgcctc acccagattt tatcatgctg gaaagagtgt atgtatgtga agatgcttgg 240

tcaacttgta ccagtgaaac acacaaa 267

<210> 182

<211> 206

<212> DNA

<213> Homo sapiens

<400> 182

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ataaaattat tgtatagaca tctgcttctt aaacagattg tgagttcttt gagaaacagc 120

gtggatttta cttatctgtg tattcacaga gcttagcaca gtgcctggta atgagcaagc 180

atacttgcca ttacttttcc ttccca 206

<210> 183

<211> 264

<212> DNA

<213> Homo sapiens

<400> 183

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gttttctgca tgactgagag tctcagtggt ggaacgggac agtatttatg tatgagtttt 120

tcctatttat tttagtctg tgaggctctt ttgtcatgtg agtgtggttg tgaatgattt 180

cttttgaaga tatattgtag tagatgttac aattttgtcg ccaaactaaa ctgctgctt 240

aatgatttgc tcacatctag taaa 264

<210> 184

<211> 226

<212> DNA

<213> Homo sapiens

<400> 184

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atccattttt tcttactaaa ttatagggat taactttgac aaatcatgct gctgttattt 180

tctacatttg tattttatcc atagcactta ttcacattta ggaaaa 226

<210> 185

<211> 275

<212> DNA

<213> Homo sapiens

<400> 185

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tgcccttttg ccgatgcata ctattactga tgtgactcgg tttgtcgca gctttgcttt 180

gtttaatgaa acacacttgt aaacctcttt tgcactttga aaaagaatcc agcgggatgc 240

tcgagcacct gtaaacaatt ttctcaacct atttg 275

<210> 186

<211> 275

<212> DNA

<213> Homo sapiens

<400> 186

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tgcccttttg ccgatgcata ctattactga tgtgactcgg ttttgtcgca gctttgcttt 180

gtttaatgaa acacacttgt aaacctcttt tgcactttga aaaagaatcc agcgggatgc 240

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<210> 187

<211> 114

<212> DNA

<213> Homo sapiens

<400> 187

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<210> 188

<211> 205

<212> DNA

<213> Homo sapiens

<400> 188

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attaatttgg agaagtttta ttcattacct aattctgtgg caaaaatggt gcctctgatg 120

ttgtgatata gtattgtcag tgtgtacata tataaaacct gtgtaaacct ctgtccttat 180

gaaccataac aaatgtagct tttta 205

<210> 189

<211> 158

<212> DNA

<213> Homo sapiens

<400> 189

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tcagatttcc tcacctgtga aatgggctga ggcaggaaat gggaaaaagt gttagtgcctt 120

ccaggcggca ctgacagcct cagtaacaat aaaaacaa 158

<210> 190

<211> 254

<212> DNA

<213> Homo sapiens

<400> 190

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cccttcaatg ctagaaaatc gagttggcaa aatggggttt gggcccctca gagccctgcc	180
ctgcaccctt gtacagtgtc tgtgccatgg atttcgtttt tcttggggta ctcttgatgt	240
gaagataatt tgca	254

<210> 191
 <211> 235
 <212> DNA
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ccagcccctg ccattttctta agactttctg ctccactcac aggatcctga gctgcactta	180
cctgtgagag tcttcaaact tttaaaccct gccagtcagg acttttgcta ttgca	235

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ADL-0702WP_ST25.txt

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ttactttaatg aaattatata gaaattctat aatgattatg taattgcata atgaaaactc	240
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<210> 193

<211> 290

<212> DNA

<213> Homo sapiens

<400> 193

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tacgttttaa ccttgaaagt ttgcaatga tgaaagcagt atttgtacaa atgaaaagca	120
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gaattctctt ttatatgggt tatactgttg atcagaaatg ttgattgtgc attgagtatt	180
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aaaaaattag atgtatatta ttcattgttc tttactcatg agtaccttat aataataata	240
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atgtattctt tgtaacaat gccatgttgg tactagttat taatcatatc	290
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<210> 194

<211> 269

<212> DNA

<213> Homo sapiens

<400> 194

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tctatcctaa gagcaacaga agatcactga cagtgtttta aatagataga ctagtttatt	120
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 <212> DNA
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ataaatatat ctgtttgtac agattttaac cataa	215

<210> 196
 <211> 269
 <212> DNA
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catgtctctc actggaattg gatggaagtg gtgaatttca gccaaagtgg ccaaagaaat	180

ADL-0702WP_ST25.txt

cctgttcctg tgattctgac gtcacacagcc tctgcacctc tgccttcctc tctgccacat	240
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gttgccctgtt ctccgtgact ttggtaaga	269
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<210> 197

<211> 268

<212> DNA

<213> Homo sapiens

<400> 197

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ctggctgcag ttctgcctct aacttcctga gtgacctcag gctagtcaca cagtgactgc	180
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tccccacatt tctttttgta agctgcaagg attgaatcag acaatagcct ctaagtttct	240
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tctgaactct catactcagg gatgccaa	268
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<210> 198

<211> 258

<212> DNA

<213> Homo sapiens

<400> 198

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tatgagggtc tggttcaagg aaaacttacg ttggatctga accaatgagc agatattttg	180
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gcactgccaa gacaataagc taggctactg ggtccagcta ctactttggt gggattcagg						180
tgagtctcca tgcacttcac atgttaccca gtgttcttgt tacttccaag gagaaccaag						240
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<210> 201

<211> 155

<212> DNA

<213> Homo sapiens

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<211> 275

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