SEQUENCE LISTING

<110> Alnylam Pharmaceutical, Inc.
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<220>
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<210> 1835
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<210> 1836
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<213> Artificial

<220>
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<210> 1837
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<210> 1838
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<220>
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<400> 1838
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<210> 1839
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<220>
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<210> 1840
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<400> 1840
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<210> 1841
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<210> 1842
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<210> 1843
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<210> 1845
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<220>
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<210> 1846
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<210> 1847
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<220>
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<400> 1847
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<210> 1848
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<400> 1848

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<210> 1849
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<210> 1850
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<400> 1850
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<210> 1851
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<220>
<223> Synthethic

<400> 1851
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<210> 1852
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<220>
<223> Synthethic

<400> 1852
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<210> 1853
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<220>
<223> Synthethic

<400> 1853
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<210> 1854
<211> 23
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<213> Artificial

<220>
<223> Synthethic

<400> 1854
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<210> 1855
<211> 21
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<213> Artificial

<220>
<223> Synthethic

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<210> 1856
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<220>
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<210> 1857

<211> 21
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<220>
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<210> 1858
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<210> 1859
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<220>
<223> Synthethic

<400> 1859
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<210> 1860
<211> 23
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<220>
<223> Synthethic

<400> 1860
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<210> 1861
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<220>
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<210> 1862
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<210> 1863
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<213> Homo sapiens

<400> 1863

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<210> 1864
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<400> 1864

Ala Ile Cys Asp
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<210> 1865
<211> 555
<212> DNA
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<400> 1865
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cccactgatg gtaatgctgg cctgctggct gaaccccaga ttgccatgtt ctgtggcaga 120

ctgaacatgc acatgaatgt ccagaatggg aagtgggatt cagatccatc agggaccaaa 180

acctgcattg ataccaagga aggcatcctg cagtattgcc aagaagtcta ccctgaactg 240

cagatcacca agatggatgc agaattccga catgactcag gatatgaagt tcatcatcaa 300

aaattggtgt tctttgcaga agatgtgggt tcaaacaaag gtgcaatcat tggactcatg 360

gtgggcggtg ttgtcatagc gacagtgatc gtcatcacct tggtgatgct gaagaagaaa 420

cagtacacat ccattcatca tggtgtggtg gaggttgacg ccgctgtcac cccagaggag 480

cgccacctgt ccaagatgca gcagaacggc tacgaaaatc caacctacaa gttctttgag 540

cagatgcaga actag 555

<210> 1866
<211> 555
<212> DNA
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<400> 1866
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cccactgatg gtaatgctgg cctgctggct gaaccccaga ttgccatgtt ctgtggcaga 120

ctgaacatgc acatgaatgt ccagaatggg aagtgggatt cagatccatc agggaccaaa 180

acctgcattg ataccaagga aggcatcctg cagtattgcc aagaagtcta ccctgaactg 240

cagatcacca agatggatgc agaattccga catgactcag gatatgaagt tcatcatcaa 300

aaattggtgt tctttgcaga agatgtgggt tcaaacaaag gtgcaatcat tggactcata 360

gtgggcggtg ttgtcatagc gacagtgatc gtcatcacct tggtgatgct gaagaagaaa 420

cagtacacat ccattcatca tggtgtggtg gaggttgacg ccgctgtcac cccagaggag 480

cgccacctgt ccaagatgca gcagaacggc tacgaaaatc caacctacaa gttctttgag 540

cagatgcaga actag 555

<210> 1867
<211> 258
<212> DNA

<213> Homo sapiens

<400> 1867
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cccactgatg gtaatgctgg cctgctggct gaaccccaga ttgccatgtt ctgtggcaga 120

ctgaacatgc acatgaatgt ccagaatggg aagtgggatt cagatccatc agggaccaaa 180

acctgcattg ataccaagga aggcatcctg cgctacgaaa atccaaccta caagttcttt 240

gagcagatgc agaactag 258

<210> 1868
<211> 816
<212> DNA
<213> Homo sapiens

<400> 1868
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cccactgatg gtaatgctgg cctgctggct gaaccccaga ttgccatgtt ctgtggcaga 120

ctgaacatgc acatgaatgt ccagaatggg aagtgggatt cagatccatc agggaccaaa 180

acctgcattg ataccaagga aggcatcctg cagtattgcc aagaagtcta ccctgaactg 240

cagatcacca atgtggtaga agccaaccaa ccagtgacca tccagaactg gtgcaagcgg 300

ggccgcaagc agtgcaagac ccatccccac tttgtgattc cctaccgctg cttagttggt 360

gagtttgtaa gtgatgccct tctcgttcct gacaagtgca aattcttaca ccaggagagg 420

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aagagtacca acttgcatga ctacggcatg ttgctgccct gcggaattga caagttccga 540

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gcggaggagg atgactcgga tgtctggtgg ggcggagcag acacagacta tgcagatggg 660

agtgaagaca aagtagtaga agtagcagag gaggaagaag tggctgaggt ggaagaagaa 720

gaagccgatg atgacgagga gcgccacctg tccaagatgc agcagagcgg ctacgaaaat 780

ccaacctaca agttctttga gcagatgcag aactag 816

<210> 1869

<211> 684
<212> DNA
<213> Homo sapiens

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cccactgatg gtaatgctgg cctgctggct gaaccccaga ttgccatgtt ctgtggcaga 120

ctgaacatgc acatgaatgt ccagaatggg aagtgggatt cagatccatc agggaccaaa 180

acctgcattg ataccaagga aggcatcctg cagtattgcc aagaagtcta ccctgaactg 240

cagatcacca atgtggtaga agccaacaca gaaaacgaag ttgagcctgt tgatgcccgc 300

cctgctgccg accgaggact gaccactcga ccaggttctg ggttgacaaa tatcaagacg 360

gaggagatct ctgaagtgaa gatggatgca gaattccgac atgactcagg atatgaagtt 420

catcatcaaa aattggtgtt ctttacagaa gatgtgggtt caaacaaagg tgcaatcatt 480

ggactcatgg tgggcggtgt tgtcatagcg acagtgatcg tcatcacctt ggtgatgctg 540

aagaagaaac agtacacatc cattcatcat ggtgtggtgg aggttgacgc cgctgtcacc 600

ccagaggagc gccacctgtc caagatgcag cagaacggct acgaaaatcc aacctacaag 660

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<210> 1870
<211> 499
<212> DNA
<213> Homo sapiens

<400> 1870
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cccactgatg gtaatgctgg cctgctggct gaaccccaga ttgccatgtt ctgtggcaga 120

ctgaacatgc acatgaatgt ccagaatggg aagtgggact cagatccatc agggaccaaa 180

acctgcattg ataccaagga aggcatcctg cagtattgcc aagaagtcta ccctgaactg 240

cagatcacca atgtggtaga agccaaccaa ccagtgacca tccagaactg gtgcaagcgg 300

ggccgcaagc agtgttgtca tagcgacagt gatcgtcatc accttggtga tgctgaagaa 360

gaaacagtac acatccattc atcatggtgt ggtggaggtt gacgccgctg tcaccccaga 420

ggagcgccac ctgtccaaga tgcagcagaa cggctacgaa aatccaacct acaagttctt 480

tgagcagatg cagaactag 499

<210> 1871
<211> 898
<212> DNA
<213> Homo sapiens

<400> 1871
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tatgctaaag aagtatgtcc gcgcagaaca gaaggacaga cagcacaccc taaagcattt 120

cgagcatgtg cgcatggtgg atcccaagaa agccgctcag atccggtccc aggttatgac 180

acacctccgt gtgatttatg agcgcatgaa tcagtctctc tccctgctct acaacgtgcc 240

tgcagtggcc gaggagattc aggatgaagt tgatgagctg cttcagaaag agcaaaacta 300

ttcagatgac gtcttggcca acatgattag tgaaccaagg atcagttacg gaaacgatgc 360

tctcatgcca tctttgaccg aaacgaaaac caccgtggag ctccttcccg tgaatggaga 420

gttcagcctg gacgatctcc agccgtggca ttcttttggg gctgactctg tgccagccaa 480

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tgcagaattc cgacatgact caggatatga agttcatcat caaaaattgg tgttctttgc 660

agaagatgtg ggttcaaaca aaggtgcaat cattggactc atggtgggtg gtgttgtcat 720

agcgacagtg atcgtcatca ccttggtgat gctgaagaag aaacagtaca catccattca 780

tcatggtgtg gtggaggttg acgccgctgt caccccagag gagcgccacc tgtccaagat 840

gcagcagaac ggctacgaaa atccaaccta caagttcttt gagcagatgc agaactag 898

<210> 1872
<211> 680
<212> DNA
<213> Homo sapiens

<400> 1872
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ctgcttcaga aagagcaaaa ctattcagat gacgtcttgg ccaacatgat tagtgaacca 120

aggatcagtt acggaaacga tgctctcatg ccatctttga ccgaaacgaa aaccaccgtg 180

gagctccttc ccgtgaatgg agagttcagc ctggacgatc tccagccgtg gcattctttt 240

ggggctgact ctgtgccagc caacacagaa aacgaagttg agcctgttga tgcccgccct 300

gctgccgacc gaggactgac cactcgacca ggttctgggt tgacaaatat caagacggag 360

gagatctctg aagtgaagat ggatgcagaa ttccgacatg actcaggata tgaagttcat 420

catcaaaaat tggtgttctt tgcagaagat gtgggttcaa acaaaggtgc aatcattgga 480

ctcatggtgg cggtgttgtc atagcgacag tgatcgtcat caccttggtg atgctgaaga 540

agaaacagta cacatccatt catcatggtg tggtggaggt tgacgccgct gtcaccccag 600

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<212> DNA
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tcgagcatgt gcgcatggtg gatcccaaga aagccgctca gatccggtcc caggttatga 180

cacacctccg tgtgatttat gagcgcatga atcagtctct ctccctgctc tacaacgtgc 240

ctgcagtggc cgaggagatt caggatgaag ttgatgagct gcttcagaaa gagcaaaact 300

attcagatga cgtcttggcc aacatgatta gtgaaccaag gatcagttac ggaaacgatg 360

ctctcatgcc atctttgacc gaaacgaaaa ccaccgtgga gctccttccc gtgaatggag 420

agttcagcct ggacgatctc cagccgtggc attcttttgg ggctgactct gtgccagcca 480

acacagaaaa cgaagttgag cctgttgatg cccgccctgc tgccgaccga ggactgacca 540

ctcgaccagg ttctgggttg acaaatatca agacggagga gatctctgaa gtgaagatgg 600

atgcagaatt ccgacatgac tcaggatatg aagttcatca tcaaaaattg gtgttctttg 660

cagaagatgt gggttcaaac aaaggtgcaa tcattggact catggtgggc ggtgttgtca 720

tagcgacagt gatcgtcatc accttggtga tgctgaagaa gaaacagtac acatccattc 780

atcatggtgt ggtggaggtt gacgccgctg tcaccccaga ggagcgccac ctgtccaaga 840

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<212> DNA
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caacacagaa aacgaagttg agcctgttga tgcccgccct gctgccgacc gaggactgac 180

cactcgacca ggttctgggt tgacaaatat caagacggag gagatctctg aagtgaagat 240

ggatgcagaa ttccgacatg actcaggata tgaagttcat catcaaaaat tggtgttctt 300

tgcagaagat gtgggttcaa acaaaggtgc aatcattgga ctcatggtgg gcggtgttgt 360

catagcgaca gtgatcgtca tcaccttggt gatgctgaag aagaaacagt acacatccat 420

tcatcatggt gtggtggagg ttgacgccgc tgtcacccca gaggagcgcc acctgtccaa 480

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ggtgatgctg aagaagaaac agtacacatc cattcatcat ggtgtggtgg aggttgacgc 180

cgctgtcacc ccagaggagc gccacctgtc caagatgcag cagaacggct acgaaaatcc 240

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<212> DNA
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ctgaacatgc acatgaatgt ccagaatggg aagtgggatt cagatccatc agggaccaaa 180

acctgcattg ataccaagga aggcatcctg cagtatatgc agaattccga catgactcag 240

gatatgaagt tcatcatcaa aaattggtgt tctttgcaga agatgtgggt tcaaacaaag 300

gtgcaatcat tggactcatg gtgggcggtg ttgtcatagc gacagtgatc gtcatcacct 360

tggtgatgct gaagaagaaa cagtacacat ccattcatca tggtgtggtg gaggttgacg 420

ccgctgtcac cccagaggag cgccacctgt ccaagatgca gcagaacggc tacgaaaatc 480

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<212> DNA
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ctgaacatgc acatgaatgt ccagaatggg aagtgggatt cagatccatc agggaccaaa 180

acctgcattg ataccaagga aggcatcctg cagtattgcc aagaagtcta ccctgaactg 240

cagatcacca atgtggtaga agccaaccaa ccagtgacca tccagaactg gtgcaagcgg 300

ggccgcaagc agtgcaagac ccatccccac tttgtgattc cctaccgctg cttagttggt 360

gagtttgtaa gtgatgccct tctcgttcct gacaagtgca aattcttaca ccaggagagg 420

atggatgttt gcgaaactca tcttcactgg cacaccgtcg ccaaagagac atgcagtgag 480

aagagtacca acttgcatga ctacggcatg ttgctgccct gcggaattga caagttccga 540

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gcggaggagg atgactcgga tgtctggtgg ggcggagcag acacagacta tgcagatggg 660

agtgaagaca aaggtgcaat cattggactc atggtgggcg gtgttgtcat agcgacagtg 720

atcgtcatca ccttggtgat gctgaagaag aaacagtaca catccattca tcatggtgtg 780

gtggaggttg acgccgctgt caccccagag gagcgccacc tgtccaagat gcagcagaac 840

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acctgcattg ataccaagga tcagttacgg aaacgatgct ctcatgccat ctttgaccga 240

aacgaaaacc accgtggagc tccttcccgt gaatggagag ttcagcctgg acgatctcca 300

gccgtggcat tcttttgggg ctgactctgt gccagccaac acagaaaacg aagttgagcc 360

tgttgatgcc cgccctgctg ccgaccgagg actgaccact cgaccaggtt ctgggttgac 420

aaatatcaag acggaggaga tctctgaagt gaagatggat gcagaattcc gacatgactc 480

aggatatgaa gttcatcatc aaaaattggt gttctttgca gaagatgtgg gttcaaacaa 540

aggtgcaatc attggactca tggtgggcgg tgttgtcata gcgacagtga tcgtcatcac 600

cttggtgatg ctgaagaaga aacagtacac atccattcat catggtgtgg tggaggttga 660

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acctgcattg ataccaagga aggcatcctg cagtattgcc aagaagtcta ccctgaactg 240

cagatcacca atgtggtaga agccaaccaa ccagtgacca tccagaactg gtgcaagcgg 300

ggccgcaagc agtgcaagac ccatccccac tttgtgattc cctaccgctg cttagttggt 360

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atggatgttt gcgaaactca tcttcactgg cacaccgtcg ccaaagagac atgcagtgag 480

aagagtacca acttgcatga ctacggcatg ttgctgccct gcggaattga caagttccga 540

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gcggaggagg atgactcgga tgtctggtgg ggcggagcag acacagacta tgcagatggg 660

agtgaagaca aagtagtaga agtagcagag gaggaagaag tggctgaggt ggaagaagaa 720

gaagccgatg atgacgagga cgatgaggat ggtgatgagg tagaggaaga ggctgaggaa 780

ccctacgaag aagccacaga gagaaccacc agcattgcca ccaccaccac caccaccaca 840

gagtctgtgg aagaggtggt tcgagaggtg tgctctgaac aagccgagac ggggccgtgc 900

cgagcaatga tctcccgctg gtactttgat gtgactgaag ggaagtgtgc cccattcttt 960

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gaaacagtac acatccattc atcatggtgt ggtggaggtt gacgccgctg tcaccccaga 1800

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aagttctttg agcagatgca gaac 144

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<210> 1883
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<210> 1885
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<210> 1887
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<210> 1951
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<210> 1952
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