

76WO 200801 SEQ.ST25
SEQUENCE LISTING

<110> Protagen Aktiengesellschaft

<120> Markersequenzen für Prostataentzündungserkrankungen,
Prostatakarzinom und deren Verwendung

<130> 76WO 2008/01

<140> PCT/DE2009

<141> 2009-07-04

<160> 174

<170> PatentIn version 3.3

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gttgaagggtg aaatatccag ttaccaggat gcaattgaga ttgaactaga aaacagccgg 120

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ccaaaggcca aggggggcct ggccagcctg gcaaaagatg gctccaccga ggacaccgcg 180
tccagcttgt gtggcgagga ggacacagag gacgaggagc tggaagccgc ggccagccac 240
ctgaacaaag actta 255

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

<400> 34
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acccgaggct tccacctcca acgagccatg ttccaggctg caggagccgc ccaggccacc 120
ccctctcatg acgccaaagg cggcggcagc agcacggtgc agcgtctcaa gtccttcagc 180
ctgcgggccc aggtgaagga gacctgcgcc gcctgccaga agaccgtgta ccccatggag 240
cggctggtgg ccgac 255

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

<400> 35
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cttgaaaggc atcgactacg agacggtgcc catcaatctc ataaaggatg ggggccaaca 180
gttttctaag gacttcagg cactgaatcc tatgaagcag gtgccaaccc tgaagattga 240
tggaatcacc attca 255

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

<400> 36
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ttcctgctgt atgagcaggg atatccatgc ttatgtatcc aaacacagag acccatggga 180
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ccatctggag agga 255

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

<400> 37
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cctcgcggag ctggccaggc gagcctcggg acccatttgt ctgctgttgg ccagcctgct 120

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gtcgctggtc tcagctgtca gtgcctgccg agtggttcaag ctctggcccc tgccttcct 180
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 cttcagtaca cgga 255

<210> 38
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 <212> DNA
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<400> 38
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 gcctcccaag gtggggaggg tacctgggcc acctccgagg agccgccggt cgactacagc 180
 tactaccaac aggatgaggg ctatggcaac agccagggca cagagtcttc cctctatgcc 240
 catggctacc tcaag 255

<210> 39
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 <212> DNA
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<400> 39
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 ggtgctgcgc acccgccaga ggggcgaccg cttccaccgt gtgctgctgg cgcacggcgt 180
 ggggtgctgc cccggggggc agtctcgcgc gctgcccgcc gcgccgcgcg ccgatttctt 240
 cctgaccggt gcgt 255

<210> 40
 <211> 255
 <212> DNA
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<400> 40
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 ctcggcgctc gcgtcctgcg gtgccctggg acctccgac atgaatcca tcgtagtggt 180
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 ggtcagagcc gccac 255

<210> 41
 <211> 255
 <212> DNA
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<400> 41
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gccaccggcc gcttctgtcc tcggacccat tccaacaatc tcgtaaaaca tgggtggatta 180
ctatgaagtt ctaggcgtgc agagacatgc ctcacccgag gatattaaaa aggcatatcg 240
gaaactggca ctgaa 255

<210> 42
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<212> DNA
<213> Homo Sapiens

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

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attggcagtt ctccagttct ctatagccag tcagctatag ctacaggtca ccaggcagca 180
gggattggaa accaggcaac aggaattgga catcagacaa taccagttag ccttccagca 240
gcaggaatgg gtcac 255

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

<400> 43
gaatcgtcga cccacgcgtc cgcgcgggag aggagcccca ctccccagc gccgcagcca 60
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gagaaggcgg aggagacgga gcaaagtatc gagaaggagg caggcaagga gccggcggag 180
ggcggcggcg gcgacggctc gcaccgcctc ggggacgccc aggagatgcg cgcggtggtg 240
ctggctggct tcggg 255

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

<400> 44
gaatcgtcga cccacgcgtc cgggggtctc agagcagacc acctgccagg aagtggatcat 60
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gaaggagcgg cagttgctgc cacaagagtg tccagtgggc gccaggcca cctgcggaca 180
gtttgccagc gatgtccagt ttgtcctgag gcgcacaggg ccagacctag ctgggaggcc 240
ctcctcagac agctg 255

<210> 45
<211> 255
<212> DNA

<213> Homo Sapiens

<400> 45

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ttcaccaaga gggagctgca ggtcctttat cgaggcttca aaaatgagtg cccagtggt      180
gtgggtcaacg aagacacatt caagcagatc tatgctcagt ttttcctca tggagatgcc      240
agcacgtatg cccat                                                         255

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<210> 46

<211> 255

<212> DNA

<213> Homo Sapiens

<400> 46

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gaatcgtcga cccacgcgtc cgggccgctg tacatgagca ccaagaacac catactgaaa      60
gcctacgatg ggcgtttcaa ggacatcttc caggagatct ttgacaagca ctataagacc      120
gacttcgaca agaataagat ctggtatgag caccggctca ttgatgacat ggtggctcag      180
gtcctcaagt cttcgggtgg ctttgtgtgg gcctgcaaga actatgacgg agatgtgcag      240
tcagacatcc tggcc                                                         255

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<210> 47

<211> 255

<212> DNA

<213> Homo Sapiens

<400> 47

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gaatcgtcga cccacgcgtc cgcttttagc accagtgtgg gaaatgagga cgccaggaca      60
gcctggcccg aattacaaca gagccatgct gttaatcagc tcaaagattt gttgcgccaa      120
caagcagata aggaaagtga agtatctccg tcaagaagaa gaaaaatgtc ccccttgagg      180
tcattagaac atgaggaaac caatatgcct actatgcacg accttgttca tactattaat      240
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<210> 48

<211> 255

<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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 <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>
 <221> misc_feature
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 <223> n is a, c, g, or t

<220>
 <221> misc_feature
 <222> (255)..(255)
 <223> n is a, c, g, or t

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 tcgcgcccct gcaccaccg nccccgccgc cgccgccgcc cgccgagctc aaggcggagc 180
 cgggcttchna gcccgcggac tgcaagcgga angaggaggc cggggcgccg ggcggcgncg 240
 caagnatgnc gncgn 255

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<210> 49
<211> 255
<212> DNA
<213> Homo Sapiens

<400> 49
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cggaccctcc actttggggc tttgcggtgt agcggcgcg cccactccct tacgtgttca 180
gtcccgaatc acgtacgggc cgctgcagct ccaggacggc ggacgccagc gctctcggat 240
ccccaggccc ctccg 255

<210> 50
<211> 255
<212> DNA
<213> Homo Sapiens

<400> 50
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aagtggcaga ttggtgagca ggaatttgaa gccctcatgc ggatgctcga taatctgggc 120
tacagaactg gctaccctta tcgataccct gctctgagag agaagtctaa aaaatacagc 180
gatgtggagg ttctgctag tgtcacaggt tactcctttg ctagtgacgg tgattcgggc 240
acttgctccc cactc 255

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

<400> 51
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tttgttccat tgaacactaa cccaaaagag gtccaggaga tgaggaacaa gatccgagag 180
cagaatttac aggacattaa gacggctggc cctcagtcctc aggtttttgtg tggtgtagtg 240
atggacagga gcctc 255

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

<400> 52
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aaaacatctc agagaattgg agggtagaca gcgcggcaac ttccgggtat gagatagggg 180
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ttgcccggca gatta 255

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

<400> 53
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 gatggcaagt ttggggccta catgcaggtg cacattcaga atgatgggcc tgtgaccata 180
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 gaaaaacagc agcag 255

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

<400> 54
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 aagtctgata tttatttga atatacagg acaggctcgg agagcccaa agtctgtagt 120
 gaccagagct ctgggtcagg gacaggggaag ggcatacttg gatacctgcc gaccttaaat 180
 gaagatgagg aatggaagtg tgaccaggac atggacgagg acgatggcag agacgctgct 240
 ccccccggaa gactc 255

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

<400> 55
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 ctgcgccgag catccacggg caagagccgg aaggagaaag gcagcaaccg actgtccatg 120
 ggagcaggg agtcagtga ggggtccggc aggtcagggg gctccccgtt cctgcctttt 180
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 tgctccccta aacac 255

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

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

<220>
 <221> misc_feature
 <222> (152)..(152)
 <223> n is a, c, g, or t

<400> 56

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| tcctcagccc cgagcagcac gcgtgcagct ggcagctcct gctgcccgcc ccggaggccg | 120 |
| cagcgggcag cgagctggcg ctgcgctgcc anagcccga cggggcgcg caccagtgcg | 180 |
| cctaccgcgg gcatccggag cgctgcgcag cctacgccgc tcgccgcgcg cacttctgga | 240 |
| agcaggtgct gggag | 255 |

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

| | |
|---|-----|
| <400> 57 | |
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| ccgtgcgcta ggcttggtgg gaaggcctgt tctcaggtcc gcgcttttcg tcaccgccat | 120 |
| gtcggggaggt ggtgtgattc gtggccccgc aggaacaac gattgccgca tctacgtggg | 180 |
| taacttacct ccagacatcc gaaccaagga cattgaggac gtgttctaca aatacggcg | 240 |
| tatccgcgac atcga | 255 |

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

| | |
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| <400> 58 | |
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| gctgctggta ctcacctcac atcgaggaat acagatgtac gagtccaatg gctacaccat | 120 |
| ggctactagg catgcactgg actctggaga tgctcccca gtacaggctg tgtttgcccc | 180 |
| gggaattgct gccagtggcc acttcatctg tgtgggaacg tggtcaggcc gggtgctggt | 240 |
| gtttgacatc ccagc | 255 |

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

| | |
|---|-----|
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| ggcgccggag ccggcgcggg agccgcgggc tggagctgcc cgggcccagg acccacagt | 120 |
| accactctag gctcctatga ggcttccgag ggctgtgaga ggaagaagg ccaacgctgg | 180 |
| gggtccctgg aacgacgggg gatgcaagct atggaggggg aggtgttact ccagctctc | 240 |
| tatgaggagg aagag | 255 |

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

<400> 60

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ttcctccagc cgctgagccg tcccttctcg ccatgtccca gagcaggcac cgcgccgagg 180
ccccgccgct ggagcgcgag gacagtggga cttcagttt ggggaagatg ataacagcta 240
agccagggaa aacac 255

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

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taccaggcca tggccaagga ccaggcagtg gagaacatcc tgggtgtcacc cgtggtggtg 180
gcctcgtcgc tggggctcgt gtcgctgggc ggcaaggcga ccacggcgtc gcaggccaag 240
gcagtgtcta gcgcc 255

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

<400> 62
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ggccgagccc caggaggcgg cgggggcgca ggggcgcgcg ggggcgcccg tgccggagcc 180
gccaaggag gagcagcagc aggccctgga gcagttcgcc gccgctgcag cgcacagcac 240
cccgggtcgg agga 255

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

<400> 63
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gctaaccggt ggtttggggg tgctccccct aaatctggaa aaatgaacat gaacatcctt 120
caccaggaag agtcatcgc tcagaagaaa cgggaaattg aagccaaaat ggaacagaaa 180
gccaagcaga atcaggtggc cagccctcag cccccacatc ctggcgaaat cacaatgca 240
cacaactctt cctgc 255

<210> 64
<211> 255
<212> DNA
<213> Homo Sapiens

<400> 64

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 ccagacggtg aacccaattg gccatctccc agaaagttaa aaaaaacccg accaggttgc 180
 ccccttcacc ttcttacaac ctcttcccct ttccccaggg gtctgtcct ccactccaga 240
 tcattccttt agttt 255

<210> 65
 <211> 255
 <212> DNA
 <213> Homo Sapiens

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 agaagtacaa gggccaaaag ggcctgggtc tcgccaagat ggacgccact gccaacgacg 180
 tccccagcga ccgctataag gtggagggct tccccacat ctacttcgcc cccagtgggg 240
 aaaaaagaa cccag 255

<210> 66
 <211> 255
 <212> DNA
 <213> Homo Sapiens

<400> 66
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 gccagggaaa caaagtttac attgtcctgt agctttaaaa ccacagctgg gcaggggtgag 180
 aagctagatg cccctgcagt ttggccctgg agccagggca gaggaatgta gggcctgcat 240
 ggagaagggt tctgc 255

<210> 67
 <211> 255
 <212> DNA
 <213> Homo Sapiens

<400> 67
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 gaccctcagc ttggactgca gctagccagc atgctaggct gctcattcta tgaagtgtct 180
 gtcagtgaat attataatga tgtctacagc gccttcacg tcctctgtaa agaggtcagt 240
 cacaacagc agcct 255

<210> 68
 <211> 255
 <212> DNA
 <213> Homo Sapiens

<400> 68

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| ccaggcctgt gcagggcgga tcggcagccg cctggcgggc atccagggcg gtgcggggcc | 120 |
| tgggcgggag ccgggaggcg cggccggcat ggaggcgctg ctgctgggcg cggggttgct | 180 |
| gctgggcgct tacgtgcttg tctactacaa cctggtgaag gccccgccgt gcggcggcat | 240 |
| gggcaacctg cgggg | 255 |

<210> 69
 <211> 255
 <212> DNA
 <213> Homo Sapiens

| | |
|---|-----|
| <400> 69 | |
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| gcggtgagcg cgagccccgg agccccgggc ggccggcctc ccgcgcccgc gcagccccgc | 120 |
| gtctgcgtcc ggccggagac gccgggcccc gcgccgcgcc gcgccatgtc ggtgaacatg | 180 |
| gacgagctgc ggcaccaggt catgatcaac cagttcgtgc tggccgcggg ctgcgcggcc | 240 |
| gaccaggcga agcag | 255 |

<210> 70
 <211> 255
 <212> DNA
 <213> Homo Sapiens

| | |
|---|-----|
| <400> 70 | |
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| catccaggag gacccttga acctcccaa ctccatcaag accctggtgg acaacattca | 120 |
| gagatatgtg gaagatggga agaaccagct gtcctgggcc ttgctgaagt gcacagacac | 180 |
| ggagctgcag ctgcgcagag acgcgatctt ctgccaggcc ctggtggccg ccgtgtgcac | 240 |
| cttctccgag cagct | 255 |

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

| | |
|--|-----|
| <400> 71 | |
| gaatcgtcga cccacgcgtc cgaccaggca tgcagacaag tgccctgcagt gattgcagcg | 60 |
| cctgcgcagc ggcccttggt ggaagtccag gagtccgcgc taccgcgcaa agtccctggc | 120 |
| cgctgcccgc acaccgaacc tctcggggct gagtccggct gctttctcct cgcgccccgg | 180 |
| ggcgccctcg ggaactcggg agcgcgcggc gagctgaaca atggcctggg gacacctggc | 240 |
| aggtcgcagg cccca | 255 |

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 gnggcgcggg ctccgggctt ccctgccctg caatgtggaa gctgctctct angaggggcc 180
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 gnggcggaga ctcgg 255

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 ggaccgaggg gccttagttg gtgggcaagt cggggatccc agaaagagaa gcgtgacccg 180
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 cctattgttc gggcg 255

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 gcctgggtcc ctttcgaccc agcagcccag ataaccaagc anaagtggga ggcagaacca 180
 gtctacgtgc agcgggcca ggcttacctg gaggaggagt gccctgcgac tctgcggaaa 240
 tacctgaaat acagc 255

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 cgtggtggcg tcgggggtcg gtgccggcgt cgtggccgcg gtcctctccg ggcttctccg 180
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 ctccggccgc ccgcgcccc gcccagccc cagacccgc ggcaccccca gntcgcgccc 180

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ggagtacgag agggc 255

<210> 77
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<212> DNA
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<400> 77
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tacggcaccg acatgatggt gggcatcggg acgtcggatg tggacctgga caaataccgc 180
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ctcctccacc acaag 255

<210> 78
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<400> 78
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aaagggtgtg gcaatgcagt aaaggtcaga cacattctat gtgaaaaaca tggcaaaatc 180
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ggcagcgagg ggcggcggn acctgncacc gggcggggccc ggcggcagcg accatgatcg 180

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ctttgttcaa caagctgctg gactggttca aggccctatt ctggaaggag ganatggagc 240
tcacgctggt cgggc 255

<210> 80
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<400> 80
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tgcaccagct catcttccag attccgccct cccggcaggc actactcatc gagaggtact 180
atgcctttga tgaggccttt gttcgggagg tgctgggcaa gaagctgtcc aaaggcacca 240
agaaagacct ggatg 255

<210> 81
<211> 255
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<400> 81
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tgtgagcggg ccatctgcat tgacccggcc tacagcaagg cctacggcag gatgggcctg 180
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ctggaccccc acaac 255

<210> 82
<211> 255
<212> DNA
<213> Homo Sapiens

<400> 82
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cccaagaaac cacctgtgaa accaccacc gagcctattg gctttgattt ggaaattgag 180
aaaagaatcc aggagcgaga atcaaagaag aaaacagagg atgaacactt tgaatttcat 240
tccagacctt gccct 255

<210> 83
<211> 255
<212> DNA
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<400> 83
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tccctgcccc ggcgccgtcc gtgcccgcgg gacctgacag ccgggtcaga gggcgaagct 120
gtgctcaggc ccgggctgga cgcagagcca gagctgtccc cagaggagca gagggtcctg 180

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cttgtggccc agcac 255

<210> 84
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<212> DNA
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<400> 84
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gcagatgtgt ataatcaccg attccacaaa attttccaaa tggatgaagg tttaaaccac 180
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gaatgtgtca cgctt 255

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

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cctgccgtgc tcangggcgn natgtccnag gctggaggng ccngcccggg aggctgatcc 120

nncaagatcc gggacangnt cctgnncccg gggcgctga ccngnatnc tgnngcnctt 180

ccgcccngc cnccgatgg ctcnctgc gntattgcng cnggggngtc ggtctnctgc 240

nantnc 246

<210> 86

<211> 255

<212> DNA

<213> Homo Sapiens

<400> 86

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tatgaacgct gccgtccgtg ccgtggtgcg catgggtatc tacgtggggg ccaaggtgta 120

cttcatctac gagggctacc agggcatggt ggacggaggc taaacatcg cagaggccga 180

ctgggagagt gtctccagca tcctgcaagt gggcgggacg atcattggca gtgcgcggtg 240

ccaggccttc cgcac

255

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

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 cagattgttt tgactggcat attggagcaa gttgtaaact gtagggatgc tttggctcaa 180
 gaatatctca tggagtgtat tattcagggtt ttccctgatg aatttcacct ccagactttg 240
 aatccttttc ttcgg 255

<210> 88
 <211> 255
 <212> DNA
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<400> 88
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 gtcctccggg ccccccaaca cacgtcccat ttagccctgc acagcgggtct ctttccccta 180
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 gatggcgcct gtgct 255

<210> 89
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 <212> DNA
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 ttttggaatg ggctacaccc cagattacat agtgtatcac gagttggtca tgaccaccaa 180
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<210> 90
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 <212> DNA
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tgagggttg actgg

255

<210> 91
 <211> 255
 <212> DNA
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<400> 91
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 ggcctcaaca atgacagtcc tgagcggagg cgcaggcctg gccatggcag cctgaccaac 180
 atcagccggc acgactccct caagaagatc gacagccctc ccattagaag gtccacgtca 240
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<210> 92
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 <223> n is a, c, g, or t

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<210> 93
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<400> 93
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 ctgtgccaga agcgggagga gctgtgccgg cagatccagg aggaggagga cgagaagcag 180
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<210> 94
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<400> 94
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<210> 95
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 <212> DNA
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<210> 96
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 <212> DNA
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 gattctggtt ctgaagtaat tgttggagta aataagtacc agttggaaaa agaagacgct 180
 gtagaagttc tggcaattga taatacttca gtgcgaaaca ggcagattga aaaacttaag 240
 aagatcaaatt ccagc 255

<210> 97
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 gggcactgca gccaggcgtc acgctccgag cctttggtgt cgttcagcac tgtcctcaag 180
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 cggctgcgat gctca 255

<210> 98
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<210> 99
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<210> 100
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 gcgaccgttg ttatc 255

<210> 101
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 attggggcca ccacttccgt gttcccttac aaccacagga tgaagaagta cctgagcaag 180
 accggccggg aagacattgc caatctagct gatgaattca aggatcactt ggtgcctgac 240
 cctggctgcc attat 255

<210> 102
 <211> 255
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<400> 102
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 gtgtatactt cttcatgaa gtctcatcgc tgctatgacc tgattccac aagctccaaa 180
 ttggttgat ttgatacgtc cctgcaggtg aagaaagctt tttttgcttt ggtgactaac 240
 ggtgtacgag ctgcc 255

<210> 103
 <211> 255
 <212> DNA
 <213> Homo Sapiens

<400> 103
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 aaccagaagc tggggctgct gcgggaggct ctggagcgga gacttgggga gctgcccgcc 120
 gaccaccca agggcggt gctgcgagaa gagctcgctg cggcctcctc cgctgccttc 180
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 ccatcccgaa gacctccgcg cagccaataa gctcatcaaa gagatggtgc aggaggacca 180
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 tcgagcgaca gagacaagct gagcttgccg cacaaaaagc tagagagagg aagctggcgc 180
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 aaacgtgagg agcta 255

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 tcccgcatcc tgggtggacca ggtcacaggt gtctctcggg gtgtgggatt catccgcttt 180
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 ncggtgcctc ctcccacccc tagcngnnn cctncngga nngatttcnt aaacggcctt 180
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 ttggcaaggt ccact 255

<210> 111
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 tacagtgggtg acagtgacaa tgaggaggag ctggtggaga gacttgagag tgaggaagag 240
 aagctagctg actgg 255

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 <212> DNA
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 tccaaggggg attccgcagt acccaagaca cggtgattgc cctggatgcc ctgtctgcct 180
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 gccggaatgg gttca 255

<210> 113
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 <212> DNA
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<400> 113
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 catggacaca aaggccaccc aggtcatccc cactggatcat gctgtggaaa atttaatgag 180
 aaatctgaat gcacatggac aggtgggcag agcgcaccga ggagtctact taggactgtg 240
 gctctctgat gggtt 255

<210> 114
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<400> 114
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 tccctcccc gtctactgg gtccctctgc ggctccccg cccgctgtcc cggttcagac 180

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 cggcctcggc ttcag 255

<210> 115
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 tgcagcgtgg aggatgggga gctggtcttc cgccacgccc aggacctcat cctggagatc 180
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 ctcatgagtc tgtct 255

<210> 116
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 ctctcacaag aaagggcacc aggactgctc tccaaggaac tggacctgtc cagacagtta 180
 cactccaagg tcattggaga gaacttctgt atgggcaagc ctgagaggga gaggaacaa 240
 aagctgtgtc ctggc 255

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 tgggagaagc aaagaagaac acttggcctt aaaggatggg caaggctggg cacagtggcc 180
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 tcccagcctt agagg 255

<210> 118
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<400> 118
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 gagcaccaga aaagaccctg cccaggcccc acccagacca caacatccac ctctctgggtg 120
 gggccagtgt gtggtggggg cctcccgtta gaggtagatg tgtgcatgcc tgggtgcaggg 180

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ggctggtgca gagcattggc aggagtggca caggaggccg gcggcacctg gagctccgca 240
gcatccaccc aggcc 255

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tgtctgcagc tcaactctcg caacttcctc acggagcaag gcgccgacgg tgccggccgc 180
ttccacggct cgggaggccc gttcgccatg caccctacc cgtaccctg ctcgcgcctg 240
gcgggcgcac agtgc 255

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actcctgccc tcggccgatg tggcaaaccg gggaggcttt tgtgtggggc cggggctgcg 180
gccatggcag ccaccctcca gctcccgggg gctggggaag acgctggggg ccccgaggag 240
gctggagcgg cgttc 255

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gcgtgcttct ctacgatatg gtgtgtgggg acatcccctt cgagcaggac gaggagatcc 180
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 gccttgctta tgcanacctt gatggaggcc atccagatct canaggctcc acctactaac 180
 caggccaccg cagctgctag tccccagagt tcacagcccc caactgcca tgagatggct 240
 gacattcagg tttca 255

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 <213> Homo Sapiens

<400> 123
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 gatcaaacac taaggcacgg ggctggctgc agagcagcct taggaccctg ggaccaaggg 180
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 tctggccacc atgcg 255

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 <211> 255
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 gctgcttgca gcctttatat tatctatggc tgctattata taccctctcc agttctgctg 180
 cagtggcata atagagtaat tgtgccgaga atgaatttgt ctctaggccc aaaagcctaa 240
 aatatctaca ttctg 255

<210> 125
 <211> 255
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<213> Homo Sapiens

<400> 125

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ggccatcctg gataaccgag tgggtgcagct gggcctgacc aaccgaaaa cattgctagc      180
atttgaagac atgctggaga acccactgaa cagcaccagc tggatgaatg atccagaaac      240
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<210> 126

<211> 255

<212> DNA

<213> Homo Sapiens

<400> 126

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gggtccgggc gcccgcgcag aatcagctgt ctgagctgcc caggcggcgg gggagcagcg      120
agcgggcttc agcgagccgc aggaggcaca ggcctgtcct ggggtccccgc aggtctgcgc      180
gtctgtttgt cccagcgctc tgagaggcct gaaaaggaag agcaacctgt ccagaatccc      240
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<210> 127

<211> 255

<212> DNA

<213> Homo Sapiens

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aggtccccga tgttgccgac agtatgaggc aagcgcaggg ggcggggacc agcagctgtc      180
gccgccgctc tcaggctctg ggaaccaccc ttctactttc tgtctctagg aatttcacta      240
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<210> 128

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<212> DNA

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ggcaagcgca gggggacggg gaccagcagc tgtcgccgcc gctctcaggg tgaagagggga      180
acagaaatct ttgccccctg actttgaaa tctcgtttaa ccttcaaact ggcgatgtca      240
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aaggggtgggg gtgggagggg cagaggccaa cggatcccc tgcctgtcgc accccttggc      180
gggagacggg aaggcagcgg gctgcgtacg atgggaccct ggtgcagacg ccggggccggc      240
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<213> Homo Sapiens

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cgccggcctg cggagcgtag cagcccgggc cagacgccgg aggagggcgc gcaggccttg      180
gccgagtctg cggcgtgca cggcccggcg ctgcgcgctt cgggggtccc cgaacgttac      240
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ctgcccgcgc ctgcgcagcg tcccgggccg agagggccac ggcgggcgcc atggcgcacc      180
gctgtttgcg gctgtggggc cggggcggct gctggccccg cggcctacag cagtcctcgc      240
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<210> 132

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ccccgcccgt ctcccgcgat ctccgtttcg gtctcggctc cggcttttta cggcccgcag      180
aagaagtctg gccctgtggt ggccccaaag cccaaagtga atcccttccg gcccggggac      240
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<210> 133

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<212> DNA

<213> Homo Sapiens

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agcaggtcta ccgagtcagc ccatgctgcc accctgccgc ctcgaggccc agagccatct    180
gccagggagc agatggaggg gatgctgtgc cgcaagcagg agatggaggc cttcgggaag    240
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<210> 134

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ttcaaaaagc ctgggcggaa aggggctgct ggacgcagaa agcgcccggc ctgcgaccca    180
gagcccggag aaagcggcag cagtagcgac gaaggctgca ctgtggttcg accggaaaag    240
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<210> 135

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gggccccttct ctccctgccc aggttgtccc tggagggcag ccctcactcc ctttggggga    180
gaggcagaca ttgctgcca cagacctgcc tctgactcaa ctgtgtccac cctccctggt    240
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<210> 136

<211> 255

<212> DNA

<213> Homo Sapiens

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cggctggaca tattcaagga ttttcaggag gaaacggtga aggactatga agctggccaa    180
ctgtatgggc tggagaagtt ctgggccttc ttgaaatatt ccaaagccaa aaatttggac    240
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<210> 137

<211> 255

<212> DNA

<213> Homo Sapiens

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 cccaggaca ccacgccgag gaatccacag ccatgggatt ctgcttcttc aactctgtag 180
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 gaaaaccag ttgagaacca tatcaatata acacaatcag ataagttcac agccaagcca 180
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 gcaccatccg cacctccatc ctatgaagag acagtggctg ttaacagtta ttaccccaca 180
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 gcagagggag cgctcggcga gtccgcagag ggccgcgcgg ccgaggctcg aggaggcgcc 180
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<213> Homo Sapiens

<400> 144

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gatgtgatgc tggagaacta cagcaatcta gtttctgtgg ggtatcacat tatcaaaccg    180
gatgttatca gcaagttgga gcaaggagaa gagccatgga tagtagaagg agaattccta    240
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<400> 145

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gaacatcttc gccaacctct tcaagggcct ttttggcaaa aaagaaatgc gcctcctcat    180
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gaggagatgg aggtcacctt cagctactgg gacggctcgg gccaccggcg cacggtgcgg    180
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aagcccaagt ttgaattggg aaagctcatg gagcttcatg gtgaaggcag tagttctgga    180
aaagccactg gggacgagac aggtgctaaa gttgaacgag ctgatggata tgaaccacca    240
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 aaggagaaac catttaaac aggtctaaag gctttgatga cagtagggaa agaaccattt 240
 cctaccattt acgta 255

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 gctgcagacc cgcttgcca agagaggcat cctcaaacaat ctggagcctg aaccagagga 180
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 gagaaacagg agttcgagcg aaacctggcc cgattcaggg aggatcaccg cgacctaatc 180
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 acccacgaga agaag 255

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 aggaagcgag aggggaagccg cttgcgggtt tgtcgccgct gctcgccac cgcctggaag 180
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 agaaaacctg gcatatttcc taaaacagtg aaaaataagc ccattccagc cttaagagtt 180
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 caagccaaag aagaa 255

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 taaaactgga agagaccaga gaagtacaga acttgaggaa gaggcccaac ggggtgagtg 180
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 caagggcgcc cttcccctgg atacggtcac tttctacaag gtcattccca aaagcaagtt 180
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 aatgatgttt tagcagtaaa cacacccaaa gatgctgcgc agcaggatgc aaaggccgaa 180
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 acccagcagc aatgtcagcg gaagtggaaa cctcagaggg ggtagacgag tcagaaaaaa 180
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 atgttagggg gcaggcccc agctccactc actgcacaag caccctaaat gttggaagca 180
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 aaattcattt taaaacctgc tatcaaata actagaccaa ctcattctct ctgtgttaag 180
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 ggagctggag gagatcgcg gccgcgtgca gctcatcctg gacgacctgg gcgtggacgc 180
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 gttcagaacg ctcggttgcc gccgggcgtt ttttattggt gagaatccaa gctagcttgg 180
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 gggaggttgg gtgagagttg ggtgtatgtt ttctgccctg tccacctgtg caccaggcca 180
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ggcccatgc agccccagg gttcccccc tgcccatgga gtagagccc agatcctggc 180
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 gaggagcgag gcctgaagca ttactgggtc acatcctggc ccgaccagaa gaccccagac 180
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