```
cccttctgtaggggcagagaggttctacttcattactgcgtctcctgggaaggccatcag      60
gactgctggctaaagtgggaaccaggactctttgtgagttaagaatttgtgtatttatat     120
gtgtgttatacacatttttttaaaaaactgtaacgacatcaggttgagcagtcgtctccgg     180
gtggtgaattatgtgtatttttaaattttatactatattgttatttttcaaatgttcgaa     240
attgaatatgtagattgttgttatcagcagaaaaataaacattattcaaatactctattc     300
agtaaagtaatttattgggcgcctttgtcaagcacgcatttgcctagatgtgactctaca     360
gataaaattcacttggggcctccccttacagacaatcaggcagtggagactgagtgcctg     420
aatggatagaccagcactcagaccactattttcagtatctgtttttcttaactcagggcc     480
gtggttttcaaacgtttttcgccttacggtcacccttagggtcccccgagaccggcccag     540
acagacagatatacaaaaacacatacacagtcatgagcgtccaccatttccccaccaggc     600
gcagcacaggcggcttcccggcactgagatgggggggaggagggagagagcgcgagggggg     660
gaggggaaagcagagaacgaaagaggcggaggcggcccccgaaccccgctctggtcttca     720
tcatcaccacccctgggtccccagttcccacccacacaccaacctctaacgataccgggt     780
aattttcctccttcttccctcaaacggctatagcgagacggtagacgacgaccagaacta     840
cttctgctcacgtaagcgagtaatcacgtgagcgcctacgtcatgtgagatctcggtcac     900
gtgagcaactctcggcttaaactcgggatcactaaggtgccgcacttccttctggtatgg     960
aaatagggcgggtcaatatcaagaaaggaagagggtgattggttagcggaacgtcttacg    1020
tgactgattattggtctacctctggggataaccgtcccagttgccagagaaacaataacg    1080
tcattatttaataagtcatcggtgattggtccgcccctgaggttaatcttaaaagcccag    1140
gttacccgcggaaatttatgctgtccggtcaccgtgacaatgcagctgaggaacccagaa    1200
ctacatctgggctgcgcgcttgcgcttcgcttcctggccctcgtttcctgggacatccct    1260
ggggctagagcactggacaatggattggcaaggacgcctaccatgggctggctgcactgg    1320
gagcgcttcatgtgcaaccttgactgccaggaagagccagattcctgcatcaggtatcag    1380
atattgggtactcccttcccttgcttttccatgtgtttgggtgtgtttggggaactgga    1440
gagtctcaacgggaacagttgagcccgagggagagctcccccacccgactctgctgctgc    1500
ttttttatccccagcaaactgtcccgaatcaggactagccctaaactttctctgtgtgac    1560
ctttcctgggatgggagtccggccagcggcccctgtttctttctctctctctctctctct    1620
cgttctccttctctttctctttctcttctttcctctctctttctctctctccctgcccgg    1680
ttctctttttttcactgctccttgcagagcagggccaccccataggcagtgtgcccaaagt    1740
agccctgcccggttctattcagacccttcttgtgaacttctgctcttcctctgccgggtg    1800
ctaaccgttagaacatctagggtgggtaggaggaatggggaactaagattcgtgccattt    1860
tttctccttttggggtcgtggatttctcggcagtatctcgagggagttagagagaccata    1920
aggtcgctgagatctctcccacctcgcccatgagcgtggcatcaggctggaaggttgaca    1980
tggaggaactttatacatttacacctttgcgtgagggttgaggctggattagataggtat    2040
tgaacatatctgaccctcacaatccttatctgtaaattgggattacaacctttaatttc     2100
agggagctgacaaaaaaaatctgaaaaatagttcttatctcacacaggtgagttttcaag    2160
gagataacctatttaaagtacatagcacagcgcttgaccattcaactgcgcttacagagc    2220
aaatgttcaatgggaaaatgaatgtaaatctacaaatctgaatgaatatgtgtatttttc    2280
tggagagaggatatttacctttcttcaaattctcaaagggctctgtgatttaaaaaaggt    2340
taggaatcactgatagatgttggtaaaaggtggcagtcacagtacatttctgtgtccata    2400
agttattcctatgaatatctttatagataaagtcaggatgttggtcagacatcacagaag    2460
aaattggccttgtaagtttcatgtgaccctgtggtacagtatgtgtggcaattttgccca    2520
tcacggatttttttttattggtatttgcatctgattataaaactaatgcatgatcattgc    2580
aaaaaatgtagataaagaagagcaaaatgaaaataaagatttccccccaccgttccacca    2640
cccagaaataatcatggtttaaatgttaatatacaaccttacaattgttttctatataaa    2700
tgaaaacatagatttctttatttcattattttccataaaaaatggatcatgtttatgtca    2760
tgtttggctaatggcaagaccctggcacccagtctgggctcaaattctgcctcattgtta    2820
cttagccctgtgacattgggtaaattacacttttttttttttttttttttgagacgggg     2880
```

FIG. 1A

```
tctcgctctgtcgcccaggctggagtgcagtggcacgatctcggctcactgcaagtccgc      2940
ctcctgggttcacgccattcttctgcctcagcctcccgagtagctgggactacaggcgcc      3000
tgccaccacgcctggctctttttttttttttttttttttttttagtacagacggggtttcac      3060
catgttagccagggtggtctcaatctcctgacctcgtgattcgcccgcctcagcctccca      3120
aagtgctggtgtgagccaccgtgcccagccttacttttttttttgagaggggtctcact      3180
ctgtcacccaggttggagtgcagtggcgcgatctctgctcagtgcaaactccacctcccg      3240
ggtttaagcagttctcctgtcgtagtctcctgagtagctgggattacaggcacaccacca      3300
cggccagctaatttttgtattttcagtagagacgggtttcaccatgttgcccaagctggt      3360
ctcgaactcctggcctcaagtgatctgcccgccttggcctcccagagtgctgggattaca      3420
ggtgtgagccaccgcacccggcctctttttttctttttttagtctatcataccttgcaaata      3480
cagtggttcttcctatgtgttggttttgatatttatgtaatcaaacacatcagtttttcc      3540
tttctgatttctgactttggggtcatgctgagaaagtcctttcctacctgaagataatac      3600
agtatatacgtttcttactagtatttttgtggatttttaaaatatttaaatctttagtcc      3660
atctgaacttgttcttctatcagaaatgccacatttaataaataataagtcccatggtat      3720
cagatggctggaaggacctctttcgaaactttgtttaattccattaatctgtgtattctt      3780
attctaatgctaatagttccacactagcttccttatctttttttttctttttttttttt      3840
ttttgagctggagtttcgctcttgttgcccaggctggagtacaatgtcacgatctcggtt      3900
caccgcaacctccgcctcccaggttcaagcaattctcctgcctcatcctcgcgagtagct      3960
ggaattacaggcatgcgccaccacgcctagctatttttgtatttttagtagagatggggtt      4020
tctccatgttggtcaggctggtctcaaactcccagcctcaggtgatctgcctgcctcggc      4080
ctcccaaaatgctgttattacaggcgtgagccaccacgcccagccttcatcttttaatga      4140
atgtacatgtatgtaatcttttaggtgaacttttttgtaatgttgtgccaagttccttaaa      4200
aagccctttttggaagctgggcaggtggccacgcctgtaatcccagcattttgggagtctg      4260
aggcaggtggatcacttgaggccaggagttcaagactagcctagccaaaatgcaaaaccc      4320
tgtctctactaaagatacaaaaattagccggatgcgatggcacatgcctgtaatctcagc      4380
tactcgggaggctgaggtagaagaatcgcttgaaccggggaggcagaggttgcagtgagc      4440
aagatggcgccactgcactccagcctgggtgacagagggagactccatctcaaaaaaaaa      4500
aaaaaaaaaaaagataaaaaggaaacctaagtactcttgggctttgttaaggattttgtt      4560
aaatatacaaaggattgcagggaaaattaacttatttttaatattgagtatgcttatcca      4620
agagcaaaataatatttctccatttattcaaatcatttaggagcatcatagttttaacat      4680
atgggccttgcacgtatcttaaatttatctctaggcattttaggttgttcagttgttctt      4740
gtgaatgggatctttttctccaaataggattattgttgatatctgttgattatgttaact      4800
ttgtagtttctgactttactgaactgtcttcttagatctaatactcttttcaatttcatc      4860
atatatttctcattcctattttgtttggggtttttagggcgggaatattaacgggataag      4920
agagacaaaagaaaatctggaaaaacaattcattttaccttacattgcttgtgattacta      4980
ccacactattactgggttggaaaaaattgtgaaatcccaaggtgcctaataaatgggagg      5040
tacctaagtgttcatttaatgaattgtaatgattattggaatttctctttcagtgagaag      5100
ctcttcatggagatggcagagctcatggtctcagaaggctggaaggatgcaggttatgag      5160
tacctctgcattgatgactgttggatggctccccaaagagattcagaaggcagacttcag      5220
gcagaccctcagcgctttcctcatgggattcgccagctagctaattatgtgagtttatag      5280
ataatgttcttgttcattcagaggactgtaagcacttctgtacagaagcttgtttagaaa      5340
cagccctcatggccgggcgtggtggctcacgctgtaatcccaacactttgggaggccgag      5400
gcgggtggatcacctgaggtcaagagttcaagaccagcctggccaacatggtgaaacccc      5460
aactctattaaaagtacaaaaaattagctgggcatggtggtgaacgcctgtaaccccagc      5520
tacttgggaggctgaggcaggagaatcgcttgaacccaggaggtggaagtttcagtgagc      5580
tgagatcacgccattgcactctagcctgggcaacaaaagagaaactccatctcaaaaaaa      5640
aaaacaaggaaaaaaagaaacagccctcatgacacttagaaagtagaatagctggctgtt      5700
atctgaacattgaattgtaaggcttatcaggtggactttgcattccatcagcagacaatt      5760
```

FIG. 1B

```
ttttttttttttttttttttgagatggagtctcattctgtctcccaggctggagggcagtg      5820
gtgcgatctcggctcactgcaagctccacctcctgggttcatgccattctcctgcctcag      5880
cctcccaagtagctgggaccacaggcacccgccaccatgcccagttaatttttgtatttt      5940
ttagtagagacggggtttcaccatgttagccaagatggtctcgatctcctgacctcgtga      6000
tccgcccacctcggcctcccaaagtgctgggattacaggcatgagccaccgcgcctagcc      6060
tacaaatgttttgtaatagctcttgaggcccatcttggagttctccttttgctaaaacca      6120
ctgaactctctaggaggaaaaaggaacttggttcttgacatatgtgtgcatgtatttcca      6180
tataacctttaggaagctattgcaatggtactataaactagaattttagaagatagaagg      6240
aaaatattctggagatcattgaagagaaatggagtccaacactagttaaagatgatgaag      6300
acagatttttttttttgacggagtctcgctctgtcgcccaggctggagtgcagtggcaca      6360
atctcagctcactgcaaccctccacctcttgggttcaagtgattctcctgcctcagcctc      6420
ccaagtagctgggactacaggcgcacaccaccacgcccggctaatttttgtatttttagt      6480
agagacaaggtttcaccatattcgccaggctggtctcgaactcctgaccttgtaatccgc      6540
ccaccttggcctcccaaagtgctgggattacaggcatgagccaccacgcccggccgatga      6600
agacagattttattcagtactaccacagtagaggaaagagccaagttcaattccaaatac      6660
aacaaagacaggtggagatttatagccaatgagcagattgaggggtcagtggatggaat      6720
atttaagaagacatcaagggtagggagcttcttgctaaagcttcatgtacttaaacaaga      6780
agggtgggggatgagggaaattgatcagatatcaatggtggcagtattgacttagcagga      6840
ttcttgctaagaggtcttgctaggacagacataggaagccaaggtggaggtctagtcgaa      6900
aagaaggctcatcagagaagtctaactaaagtttggtcaagaagagtctttgtcaaggta      6960
aatctatcatttccctcaaaaggtaattttcaggatcccatcaggaagattagcatggct      7020
gctagctttctcctcagttctgggctatagctcacatgcctagtttgaactagctcagca      7080
gaactgggggatttattctttgtcttccaacaaactcatctggatgattttgggggtttg      7140
tggggaaaagcccccaatacctggtgaagtaaccttgtctcttcccccagcctggaatgg      7200
ttctctctttctgctacctcacgattgtgcttctacaatggtgactcttttcctccctct      7260
catttcaggttcacagcaaaggactgaagctagggatttatgcagatgttggaaataaaa      7320
cctgcgcaggcttccctgggagttttggatactacgacattgatgcccagaccttgctg      7380
actggggagtagatctgctaaaatttgatggttgttactgtgacagtttggaaaatttgg      7440
cagatggtaatgtttcattccagagatttagccacaaaggaaagaactttgaggccatgg      7500
tagctgagccaaagaaccaatcttcagaattttaaataccctgtcacaatactggaaata      7560
attattctccatgtgccagagctcccatctcttctctttcagttcattaattaattaatt      7620
aattcatgtaaaatccatgcatacctaaccatagctaatattgtgcacttataattcaag      7680
agggctctaagagttaattagtaattgtaactctctataacatcatttaggggagtccag      7740
gttgtcaatcggtcacagagaaagaagcatcttcattcctgcctttcctcaatatacaca      7800
ccatctctgcactacttcctcagaacaatcccagcagtctgggaggtactttacacaatt      7860
taagcacagagcaactgcctgtccctgctgctagtttaaacatgaaccttccaggtagcc      7920
tcttcttaaaatatacagccccagctgggcatgatggctcatgcctgtaatcctagcact      7980
ttgggaggctgaggcgggtggattacttgaggtcaggagttcgagaccaccctggccaac      8040
atggtgaaaccccatctctagtaaaaatacaaaaattagctgactttggtggcacatgcc      8100
tgtaatcccagctacttgggaagctgagacagaagagtcacttgaacctgggaaacagag      8160
gttgcagtgagccaagatcgcaccactgcactccaccctggatgacagactgaaccccat      8220
ctcaaaaaattaaaataaaataaaataaaataactatatatatagccccagctggaaatt      8280
catttctttcccttattttacccattgttttctcatacaggttataagcacatgtccttg      8340
gccctgaataggactggcagaagcattgtgtactcctgtgagtggcctctttatatgtgg      8400
ccctttcaaaaggtgagatagtgagcccagaatccaatagaactgtactgatagatagaa      8460
cttgacaacaaaggaaaccaaggtctccttcaaagtccaacgttacttactatcatccta      8520
ccatctctcccaggttccaaccacttctcaccatccccactgctgtaattatagcctaag      8580
ctaccatcacctggaaagtcatccttgtgtcttcccctttatttcaccattcatgtcctg      8640
```

FIG. 1C

tctatcaacagtccttccaccagtatctctaaaatatctcctgaatcagcccacttcctt 8700
ccatcttcactacatgcaccctggccttccaagctactatcggctctcaaccagactgct 8760
gggaccacctgatctctctgcttccactctgtctcaacccccatctattttccaagcagc 8820
actagagttatcatattaaaatgtaaatatcagtttttttttttaaagaaaaaaaaccctga 8880
gacttaacagagttataaaaaatataaatgtcatcatcagttccctgcttaaaaccctta 8940
actcgcttccaattgcacttggaatgaaaccaaactgcactgatccagcccttgcctgcc 9000
tccccaaagtccaaggggtcatggctctttccctggctacactggttttctttctgtccc 9060
tcaacactgcaagcctattgctgccccagggcctttacacttgctttttttctgcctaga 9120
acagttcttccccaaagatttttaaagggccgggctccttaacattgaagtcgcagacca 9180
aacgccacatatgcagacagttcttctctaactactttaaaatagccctctgtccattca 9240
ttcttcatcacattaacctgtttaattttcttctcagagctccacactatttggaagtat 9300
ttgttgacttgttaccatgtctccccactagagtgtaagtttcatgagggcagggacctt 9360
gtctgactttgactgtatctctcgcatatggttaagtgttaaatagttatttatggaatg 9420
aatccctattattccctcattatctctgcaaaatagtctttttttctcaacatcttaaacc 9480
tgatatcccacctgcctatctacaaacttttttttgcgacagagtctcactgtcaccca 9540
ggctagagtgcagtggcgccatctcggctcactgcaacctccgcctcccgggtttaagcg 9600
attctcttgcctcagcctcccagtagctgggattataggcgtgcgctaccacatctggct 9660
aatttttgtatttttagtagagatggtttcaccatgttggccaggcttgtctcgaactcc 9720
tgacctcagatgatccacctgcctcggcctcccaaagtgctgggattacaggcatgagcc 9780
accgtgcccagcctctacaaacttttattccattaacaaactatatgctgggatttaag 9840
ttttcttaatacttgatggagtcctatgtaattttcgagcttttaattttactaagacca 9900
ttttagttctgattatagaagtaaattaactttaagggatttcaagttatatggcctact 9960
tctgaagcaaacttcttacagtgaaaattcattataagggtttagacctccttatggaga 10020
cgttcaatctgtaaactcaagagaaggctacaagtgcctcctttaaactgttttcatctc 10080
acaaggatgttagtagaaagtaaacagaagagtcatatctgttttcacagcccaattata 10140
cagaaatccgacagtactgcaatcactggcgaaattttgctgacattgatgattcctgga 10200
aaagtataaagagtatcttggactggacatcttttaaccaggagagaattgttgatgttg 10260
ctggaccaggggttggaatgacccagatatggtaaaaacttgagccctccttgttcaag 10320
accctgcggtaggcttgtttcctattttgacattcaaggtaaatacaggtaaagttcctg 10380
ggaggaggctttatgtgagagtacttagagcaggatgctgtggaaagtggtttctccata 10440
tgggtcatctaggtaactttaagaatgtttcctcctctcttgtttgaattatttcattct 10500
ttttctcagttagtgattggcaactttggcctcagctggaatcagcaagtaactcagatg 10560
gccctctgggctatcatggctgctccttttattcatgtctaatgacctccgacacatcagc 10620
cctcaagccaaagctctccttcaggataaggacgtaattgccatcaatcaggacccctttg 10680
ggcaagcaagggtaccagcttagacaggtaaataagagtatatattttaagatggcttta 10740
tatacccaataccaactttgtcttgggcctaaatctatttttttcccttgctcttgatgt 10800
tactatcagtaataaagcttcttgctagaaacattactttatttccaaaataatgctaca 10860
ggatcattttaatttttcctacaagtgcttgatagttctgacattaagaatgaatgccaa 10920
actaacagggccacttatcactagttgctaagcaaccacactttcttggtttttcaggga 10980
gacaactttgaagtgtgggaacgacctctctcaggcttagcctgggctgtagctatgata 11040
aaccggcaggagattggtggacctcgctcttataccatcgcagttgcttccctgggtaaa 11100
ggagtggcctgtaatcctgcctgcttcatcacacagctcctccctgtgaaaaggaagcta 11160
gggttctatgaatggacttcaaggttaagaagtcacataaatcccacaggcactgttttg 11220
cttcagctagaaaatacaatgcagatgtcattaaaagacttactttaaaatgtttatttt 11280
attgccaactactacttcctgtccacctttttctccattcactttaaaagctcaaggcta 11340
ggtggctcatgcctgtaatcccagcactttgggaggctgaggcgggcagatcacctgagg 11400
tcgggactttgagacccgcctggacaacatggtgaaaccccatttctaataaaaatataa 11460
aaattagccaggtgtggtggcgcacctgtggtcccagctactctgggggctgaggcatga 11520

FIG. 1D

```
gaatcgcttgaacccgggagtggaggttgcattgagctgagatcatgccacctcactcca      11580
gcctgggcaacaaagattccatctcaaaaaaaaaaaaaaaagccaggcacagtggctcatg      11640
cctggaatcccagcacttttggaagctgaggcaggcagatcacttgaggttaggatttca      11700
agaccagcctggctaacatagtaaagccctgtctctactaaaaatacaaaaattagccag      11760
gtatggtggcgagcttctgtagccccagctactcaggagactgaggcaggagaatcactt      11820
gaacccgggaagtgggggggtgcagtgacccaagatcacgccactgcattccagcctggg      11880
caacagagcaagactccatctcaaaaaaaaaaagttctatttccttgaataaaattttccg      11940
aagtttaaactttaggaataaaactattaaacccgtatttactcatccagatacccaccc      12000
cccttgttgagattctctcccaattatcaaaatgtgtagcatatttaactaccaagagct      12060
aaacatcattaagactgaaatgtattaagaaggatgtataggccaggcacggtgtctcac      12120
gcctgtaatcccaacactttgggaggccaagtcgggcggatcacgaggtcaggagatgga      12180
gaccatcctggccaacatggtgaaaccccctctctactaaaaatacaaaaattagccagg      12240
caggtggcaggcacctgtaatcccagctactccagaggctgaggcaggacaatcacttga      12300
acctgggaggcagaggctgcagtgagctgaggttgtaccaattgcactccagcctaggta      12360
acgagcaacactccatctcaaaaaaagaaaaaaaaaaagatgtataatttggaactgtta      12420
agaggcattttaaaga                                                  12436
```

FIG. 1E

```
MQLRNPELHL GCALALRFLA LVSWDIPGAR ALDNGLARTP TMGWLHWERF MCNLDCQEEP   60
DSCISEKLFM EMAELMVSEG WKDAGYEYLC IDDCWMAPQR DSEGRLQADP QRFPHGIRQL  120
ANYVHSKGLK LGIYADVGNK TCAGFPGSFG YYDIDAQTFA DWGVDLLKFD GCYCDSLENL  180
ADGYKHMSLA LNRTGRSIVY SCEWPLYMWP FQKPNYTEIR QYCNHWRNFA DIDDSWKSIK  240
SILDWTSFNQ ERIVDVAGPG GWNDPDMLVI GNFGLSWNQQ VTQMALWAIM AAPLFMSNDL  300
RHISPQAKAL LQDKDVIAIN QDPLGKQGYQ LRQGDNFEVW ERPLSGLAWA VAMINRQEIG  360
GPRSYTIAVA SLGKGVACNP ACFITQLLPV KRKLGFYEWT SRLRSHINPT GTVLLQLENT  420
MQMSLKDLL                                                          429
```

FIG. 2

```
atgcagctgaggaatcccgagctccacctgggctgtgctctggctctgcggttcctggccctc
gtgtcctgggacatccctggcgctagggccctcgataacggactggcccggacccccacaatg
ggatggctccactgggaaaggttcatgtgcaatctggactgtcaggaggaacccgactcctgc
atcagcgaaaagctcttcatggagatggccgagctgatggtgagcgagggctggaaggacgcc
ggctacgagtatctgtgcatcgatgactgctggatggcccctcaaagggactccgaaggcagg
ctgcaggctgatccccaaaggtttccccacggaatccggcagctcgccaactacgtgcattcc
aagggcctcaagctcggcatctacgccgacgtgggcaacaaaacatgcgccggattccccggc
agcttcggctactacgacatcgacgcccagacattcgctgattggggagtggacctgctgaag
ttcgacggctgttactgcgattccctggaaaacctggccgacggctacaaacacatgtccctc
gccctgaaccggacaggcaggtccatcgtgtacagctgcgagtggcccctgtacatgtggcct
ttccagaagcccaactacacagagatcaggcagtactgcaaccactggaggaacttcgctgac
atcgacgactcctggaagagcatcaagagcatcctggactggaccagcttcaaccaggagagg
atcgtggacgtggctggacccggaggctggaacgaccccgatatgctggtgattggcaacttc
ggactgagctggaaccagcaggtgacccagatggccctgtgggccattatggccgctcccctg
ttcatgtccaacgacctgaggcacatcagcccccaggccaaggctctgctgcaggacaaggat
gtgatcgccatcaaccaggacccccctgggcaagcagggctaccagctgaggcaaggagataac
ttcgaggtgtgggagaggcccctgtccggactggcttgggccgtggccatgatcaatcggcag
gagatcggcggaccccggtcctacaccattgctgtggccagcctgggaaaaggagtcgcctgc
aaccccgcctgcttcattacccagctgctccccgtgaagcggaagctgggcttctatgagtgg
accagcaggctgaggtcccatatcaatcctaccggcaccgtcctcctccagctcgagaatacc
atgcagatgagcctcaaggatctgctgtga
```

FIG. 3

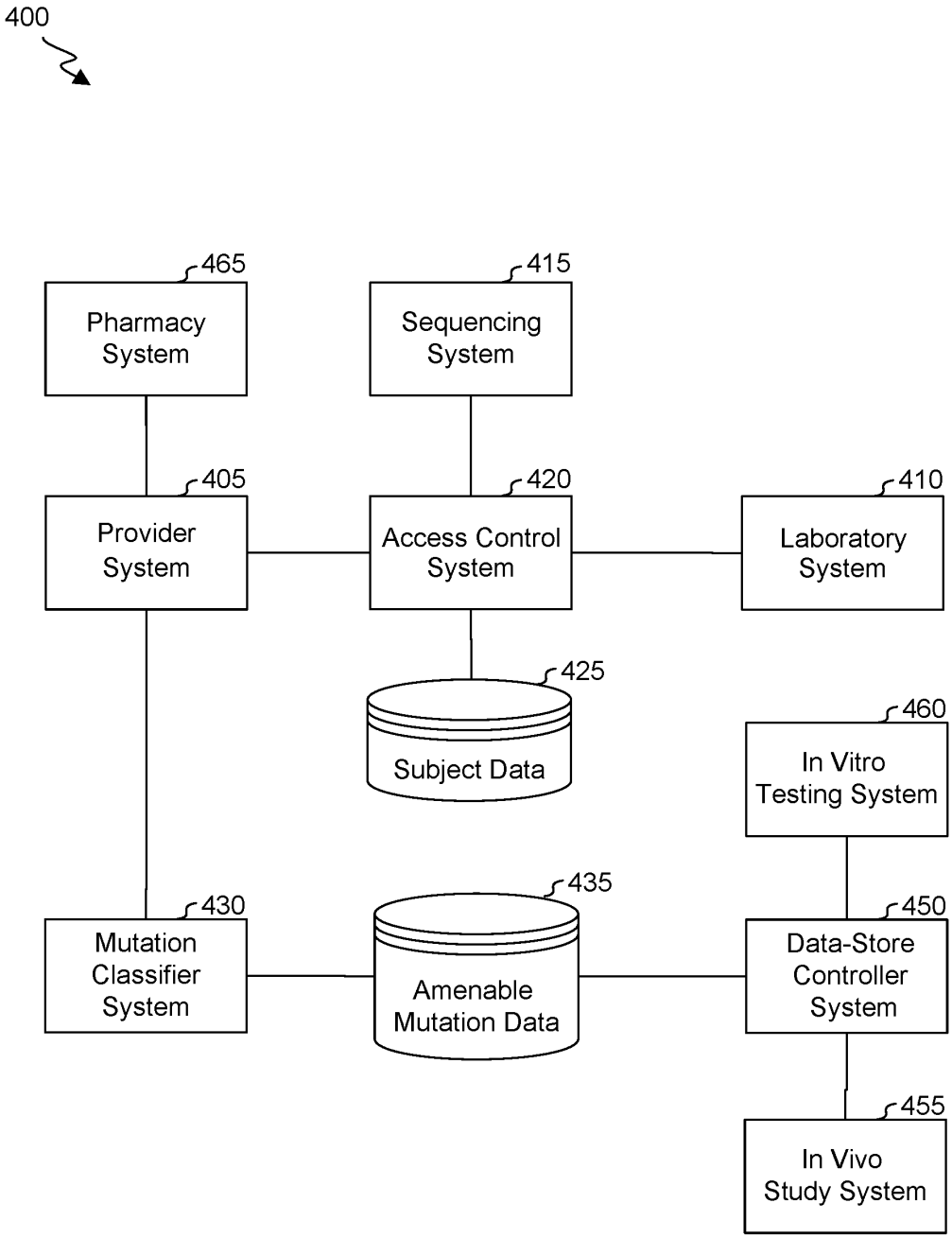

400
465
Pharmacy System
415
Sequencing System
405
Provider System
420
Access Control System
410
Laboratory System
425
Subject Data
460
In Vitro Testing System
435
430
Mutation Classifier System
Amenable Mutation Data
450
Data-Store Controller System
455
In Vivo Study System

FIG. 4A

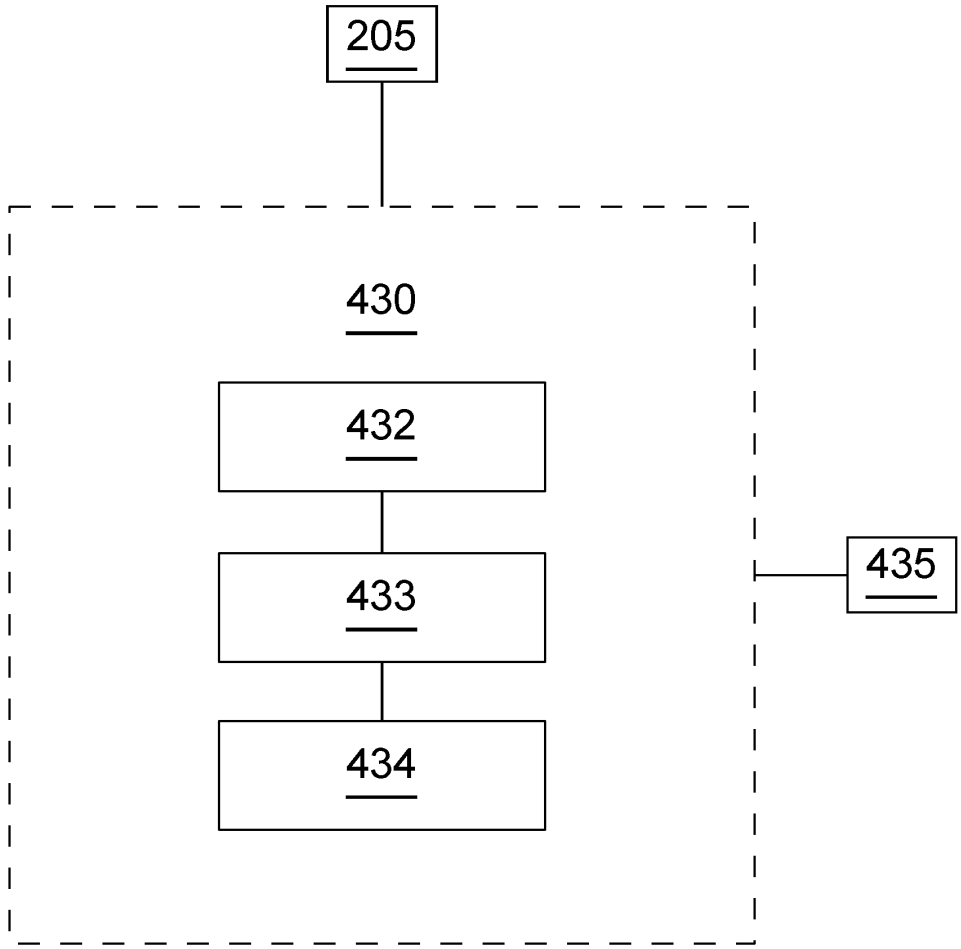


FIG. 4B

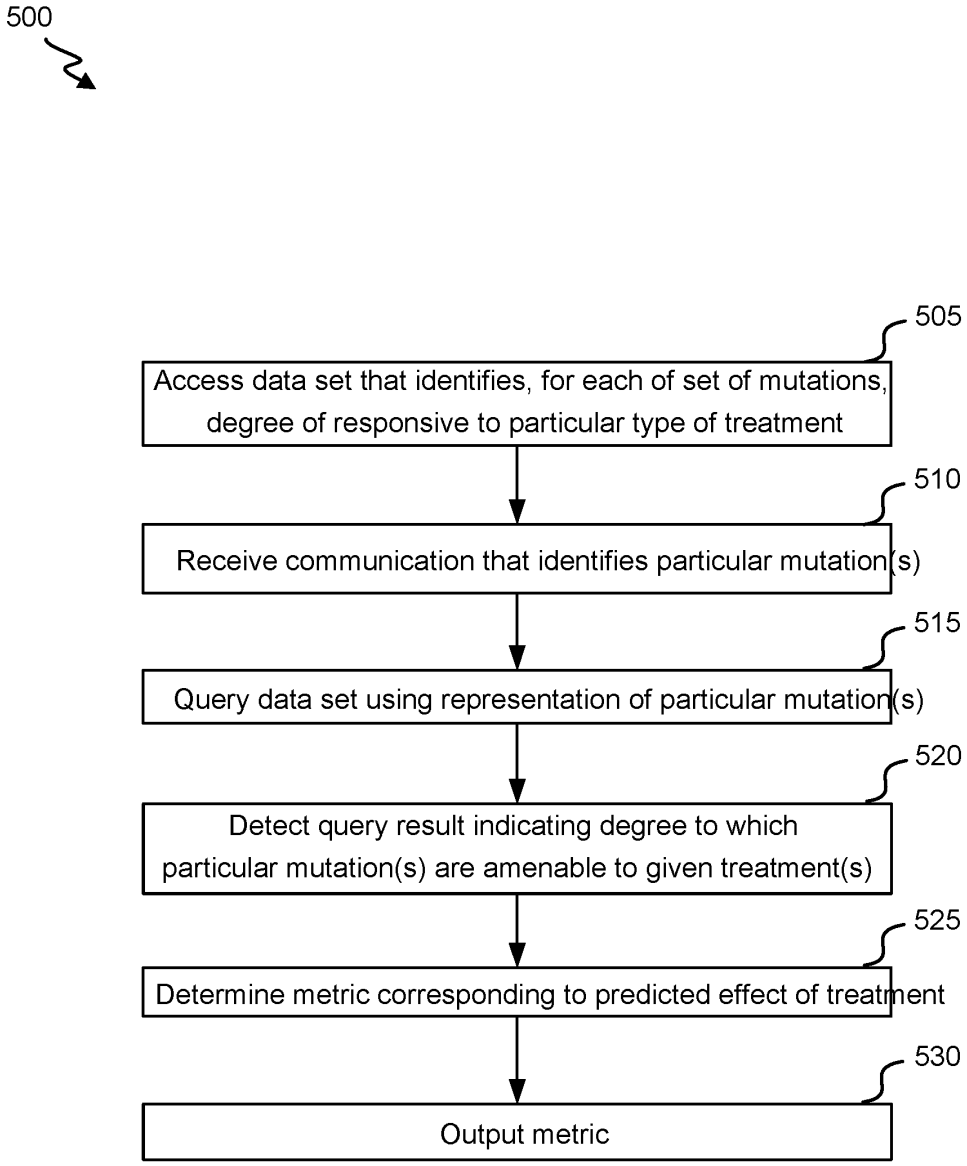

500
505
Access data set that identifies, for each of set of mutations, degree of responsive to particular type of treatment
510
Receive communication that identifies particular mutation(s)
515
Query data set using representation of particular mutation(s)
520
Detect query result indicating degree to which particular mutation(s) are amenable to given treatment(s)
525
Determine metric corresponding to predicted effect of treatment
530
Output metric

FIG. 5

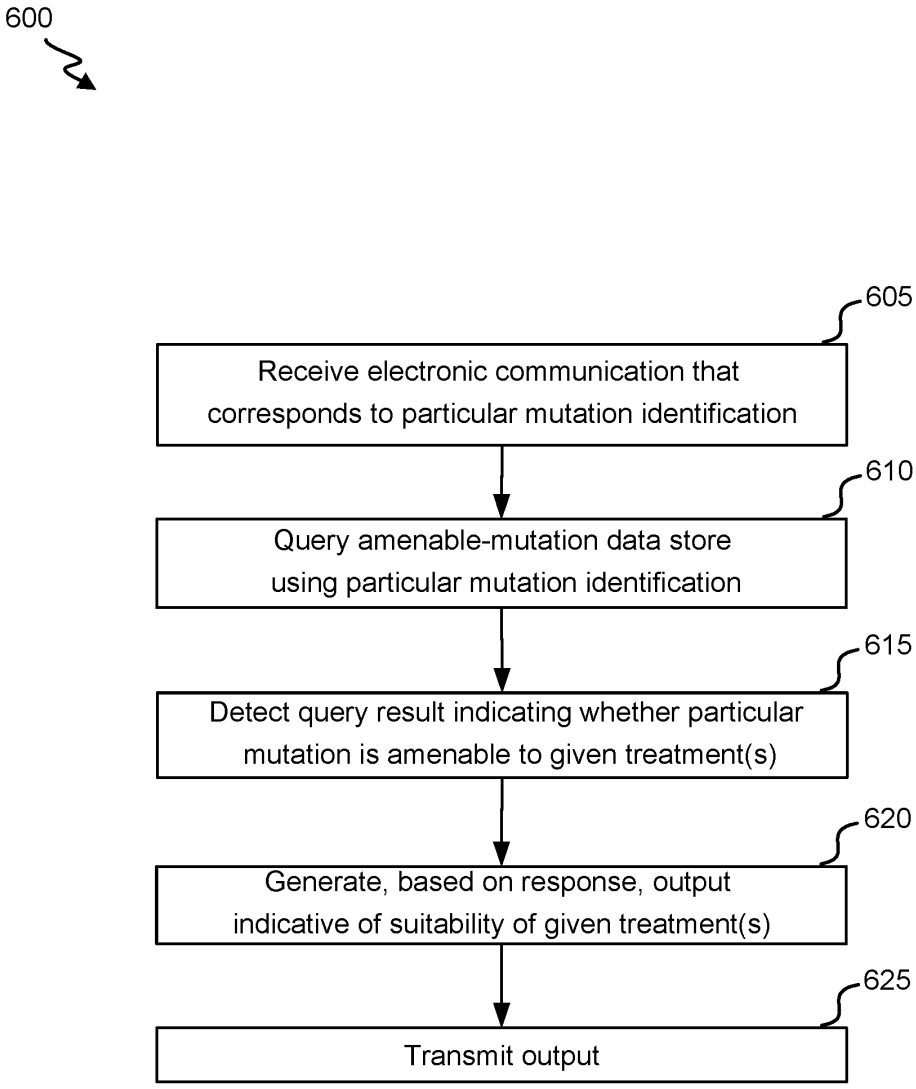

600
605
Receive electronic communication that corresponds to particular mutation identification
610
Query amenable-mutation data store using particular mutation identification
615
Detect query result indicating whether particular mutation is amenable to given treatment(s)
620
Generate, based on response, output indicative of suitability of given treatment(s)
625
Transmit output

FIG. 6

Nucleotide Change	Nucleotide Change	Protein Sequence Change
c.167G>T	c.G167T	C56F
c.170A>G	c.A170G	Q57R
c.170A>T	c.A170T	Q57L
c.175G>A	c.G175A	E59K
c.178C>A	c.C178A	P60T
c.178C>T	c.C178T	P60S
c.179C>T	c.C179T	P60L

FIG. 7

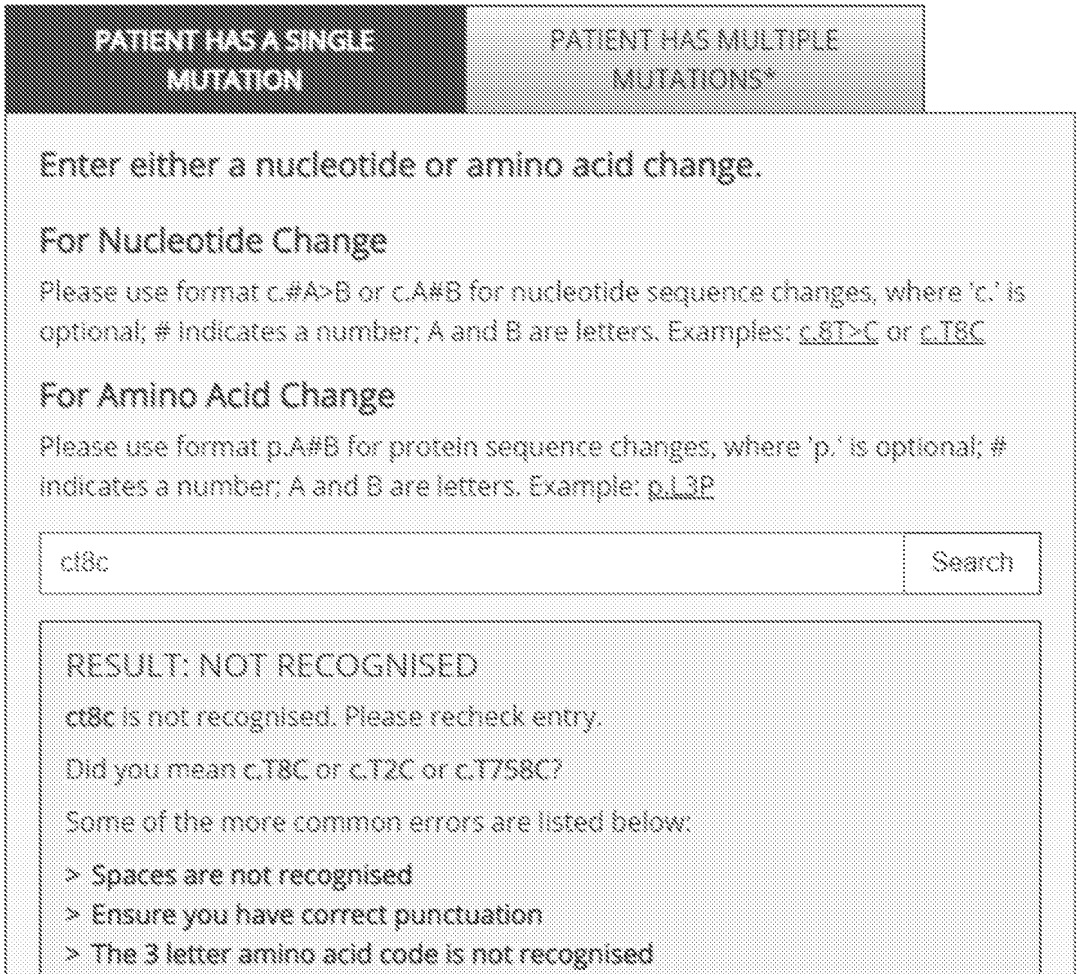


FIG. 8