

Fig. S1

GCTGGCCGGCTGAATACGGCGCTGGCAAAATGTTGCAAACTCTTAGCAACCATTGTGCGTCCAGTGTCTGATATAATCGGATTC 90
TACCGATAGGCTCGTTATCTTGTGTACCGCGTGTGTGCGGCGTACGTGTGATGAAAGCGATCGAGCGGCTGTGCGGCATAGTTTGTTC 180
GAATTCGCTGTAAACATGCTTATGCAATCGCTCTCCGCGCGTGCCTGATGGAGATCCGAGGGCTGCTGATGGGTAGACTACGGTTAGGAC 270
GGCGGATGGTTCGGTGGTCTGCTCGGCGTGACCGCGTGTACTAATCTGCCACCCTTCGCGTGGTGCAGGGCCGGCACCCAGGAC 360
-24 M V P L G L L G V T A L L L I L P P F A L V Q G R H H E 4
TCAACAATGGTGGCCATCGGATCGCATCAGCTGTGCGCTGCCCGGCTGTGGCCTTGCCTCCAGTCCGCCCAGTCCGGATCGTCTG 450
L N N G A A I G S H Q L S A A A G V G L A S Q S A Q S G S L 34
CATCCGGTGTGATGTATCCGTTCTGCTGCCGAGCGTATCTCTCTCGTCTGCTGCTGTCATCGTCCAGCCGAGGACGACGTTG 540
A S G V M S S V P A A G A S S S S S S S S L L S S S A E D D V 64
CGCGCATTACTCTCAGCAAGGACGCAACGCAATTTTTTACCATATATAGGTACGCGTGGTCCGTACGAATTATAGATGCCGAGTTGG 630
A R I T L S K D A D A F F T P Y I G H G E S V R I I D A E L 94
GCACGCTCGAGCATGTCCACAGTGGACAACCGCCGGCGCAGCGGCTGACGAGGCGGAGTCAAACCTCGACCGCAACGACAACGATC 720
G T L E H V H S G A T P R R R R G L T R R E S N S D A N D N D 124
CGTGTGGTCAACACGGATAAGGGGCGCATCCGCGCATTACGGTTCGATGCCCGCAGCGGCAAGAAGTGGACGCGTGTGGCTCGGCATTC 810
P L V V N T D K G R I R G I T V D A P S G K K V D V W L G I 154
CCTACGCCAGCCCGGTCGGGCCGCTACGGTTCGCTACCGCGCGCGGCAAAAGTGGACCGCGTGTGAACACGACACCCGCGC 900
P Y A Q P P V G P L R F R H P R P A E K W T G V L N X T T T P 184
CCAACAGCTGCGTGCAGATCGTGGACACCGTGTTCGGCGACTTCCCGGGCGCACCATGTGGAACCCGAACACGCCCTGTCCGAGGACT 990
P N S C & V Q I V D T V F G D F P G A T M W + N P N T P L S E D 214
GTCTGTACATTAACGTGGTGGCACCGCGAACCCCGGCAAGAAATGCGGCGTATGCTGTGGATCTTCGGCGGCGGCTTCTACTCCGGCA 1080
C & L Y I N V V A P R P R P K N A A V M L W + I F G G G F Y + S G 244
CCGCCACCCTGGACGTGTACGACCACCGGCGCTTCGCTCGGAGGAGAACGTGATCGTGGTGTGCTGTCAGTACCAGCGTGGCCAGTCTGG 1170
T A T L D V Y + D H R A L A S E E N V I V V S L Q Y R V A S L 274
GCTTCTGTTTTCTCGCACCCCGGAAGCGCCGGCAATGCGGACTGTTCGATCAGAACCTTGCCTACCTGGGGTGGGACAAACATTC 1260
G F L F L G T P E A P G N A G L F D Q N L A L R W V R D N I 304
ACCGGTTCCGTTGGCGATCCGTCGCGTGTGACACTGTTCGGCGAGAGTCCCGTCCGCTCTCGGTGTGCTGCATCTGCTGTCCGCCCTTT 1350
H R F G G T D P S R V T L F G E S A G A V S V S L H L S A L 334
CCCGCATCTGTTCCAGCGGCGCATCTTCAGAGCGGCTCGCCGACGGCACCGTGGGCAATTGGTATCGCGCGAGGAAGCCACACTAAG 1440
S R D L F Q R A I L Q S G S P T A P W + A L V S R E E A T L R 364
CACTGCGGTTGGCCGAGGCGGTTCGGTTCGCCGACGAAACCGAGCAAGTGCAGGATCGCGTTCGAGTGCCTGCGCGCAAGGACCCGACG 1530
A L R L Q A E A V F G C \$ P H E Y T D W T S K L S D A V E C \$ L R G K D P H 394
TGCTGGTCAACAACGAGTGGGACGCTCGGCATTTGCGAGTTCGCCGTTTCGTCGCGGTTGTCGACGCTGCGTTCCTGGACGAGACGCCG 1620
V L V N N E W G T L G I C E F + P F + V P V V D G A F L D E T P 424
AGCGTTCGCTCGCAGCGGCGCTTCAAGAAGACGGAGATCTCTACCCGCGAGCAACCGGAGGAGGGCTACTACTTCACTTCACTTACC 1710
Q R S L A S G R F F K K T E I L T G S N T E E G Y Y F + I I Y + Y 454
TGACCGAGCTGCTGCGCAAGGAGGAGGGCGTGACCGTGCAGCGCGAGGAGTTCCTGCAGGCGGTGCGCGAGCTCAACCCGTACGTGAACG 1800
L T E L L R K E E G V T V T R E E F L Q A V R E L N P Y V N 484
GGGCGCCCGGCGAGCGATCGTGTTCGAGTACACCGACTGGACCGAGCCGGACAACCCGAACAGCAACCGGGACGCGCTGGACAAGATGG 1890
G A A R Q A E A V F E Y T D W T A H G R H Y L E L G L N X T S F V 514
TGGCGACTATCACTTCACTGCAACGTTGACGAGTTCGCGCAGCGGTACGCCGAGGAGGGCAACAACGTTACATGTATCTGTACACCG 1980
V G D Y H F T C • N V N E F A Q R Y A E E G N N V Y M Y L Y T 544
ACCGCAGCAAGGCAACCCGTCGGCCGCTGGACGGCGTGTGACGCGGCGAGATCAACTACGTGTTCCGGCAACCCGCTCAACCCCA 2070
H R S K G N P W + P R W T G V M H G D E I N Y V F G E P L N X P 574
CCCTCGGCTACACCGAGGACGAGAAAGACTTTAGCCGGAAGATCATGCGATACTGGTCCAACCTTTGCCAAAACCGCAATCCAAATCCCA 2160
T L G Y T E D E K D F S R K I M R Y W S N F A K T G N P N P 604
ACACGGCCAGCAGCAATTCGCCGAGTGGCCCAAGCACACCGCCACGGACGACTATCTGGAGCTGGGCTCAACACGTCCTTCGTCG 2250
N T A S S E F P E W P K H T A H G R H Y L E L G L N X T S F V 634
GTCGGGCCCCAGGTTGAGGCGTGTGCCTTCTGGAAGAAGTACCTTCCCGAGTGTGACGCTACCTCGAACCTACCAGGGCCAGCAC 2340
G R G P R L R Q C • A F W K K Y L P Q L V A A T S N L P G P A 664
CGCCTAGTGAACCGTGCAGAAAGCAGCGCATTTTTTTACCGACCTGATCTGATCGTGTGCTGCTTACGGCGACCGTACAGAT 2430
P P S E P C # E S S A F F Y R P D L I V L L V S L L T A T V R 694
TCATACAATAATTACTACCCATCCATGGCTAGTTCGTTAAGCTTTAAGATAGTGAGGAACAAATTTTTCCCAACAATTTTCCCCC 2520
F I Q * 697
TTTAGAGCAGAACCAGGAGAGATAGGACTACATAGCGAAAAGGGAAAAACAAGTGGTGGCGGACGAGGAGAGAAGAAGCAAATCGAATA 2610
ATCGAAGCAACAACAACAACAACAAAAAATGCAACCCGGTTCACTAAACCCAGGGGCGAGCTCAGTAGCAAACTACTACTTAAATAAC 2700
TACTTTCTTATGGCAAATATAGGCAAGAGCAGTGTGATGGGTTTCGATCAGTATCCATCTGACCGGAGCAGCTGAACCGTTTCATGGGCA 2790
GTTGCTGCAATACACCAGACCCGTACACACAGTAACACACTTTTTATAGCTTTACACTAACACCCTCTCCCCAGCTCTCTTCCCC 2880
TTCCCCCACCACAGACAGCAGCGCCGTTGTAGCAGGATCTACTACCGTCCGTTGGTATGGCGGCAACAACACTAAACACCACACA 2970
TCTACTAAAACACACCGGAACAATAAACAATGTTAACTTACTATATGAATATACATCTAGACGATATATACGCATGAACACTACTT 3060
CCCTCGTTCGTGACAAAACACTTACCTTGTCCCCCTCCCCCTCCGTTTGTCTTACCACCTGCACCACCAGTATGAATTTGTTC 3150
TAATAACGCTTCGTAACCTTACCAGGACACACTGGTTCGTTGGGGAGTGTGCGCGTTCGCTGAAGATGAACTAGCACCG 3240
CGCACACTTTCGACACGCAACCAAGCTACACATCACGAAAGCAACATCCTGGCCCTATCCGTTTTCTCATTTTAAACTTCTTTCTCT 3330
AGACAAAACCAACGCAACTAGCAAAAGGTACTTGGTAAACCGGTCAGTACACACTGTGTACAATTGAGCGTAGGGAGGAGTATAA 3420
TTTCTGAAAATGTATAAAACAAACTAAACAAACTAATTACTTGCAATCCATTCTAAAGCACGAAAACCTCTCAAATAAACGGGA 3510
AGTAAACAAAAAATCAGAACGAACAATTTACTTAAAAAAGTAAACAAAAAATAAAAAA 3574