

Sup. Figure 1

1 **ATG**TGGCGTGCAGCCTTCCTGTTATTGGCTGCCAGCTTGTCTGTGAGCCTGGCCAGACCC
1 M W R A A F L L L A A S L S V S L A R P

61 CACCTCAAACCACTGTCCAATGAGATGGTCAACTACATCAATAAGTTTAACACTACCTGG
21 H L K P L S N E M V N Y I N K F N T T W

121 AAGGCTGGTCACAACCTTTCATAATGTGCGACTACAGTTATGTCCAGAGACTCTGCGGTACG
41 K A G H N F H N V D Y S Y V Q R L C G T

181 ATGCTGAAGGGACCTAAACTGCCCGTTATGGTTCAGTATGCTGGTGACCTGGAGCTTCCA
61 M L K G P K L P V M V Q Y A G D L E L P

241 AAAGAGTTTGACTCCAGAGTGCAGTGGCCCAACTGTCCCACTCTGAAGGAGATCAGAGAG
81 K E F D S R V Q W P N C P T L K E I R D

301 CAGGGCTCCTGTGGATCCTGCTGGGCGTTTGGTGCTGCAGAGGCCATCTCCGACCGTGTG
101 Q G S C G S C W A F G A A E A I S D R V

361 TGTATCCACAGCAATGCCAAGGTCAGCGTGGAGATCTCCTCCGAGGATCTGTTGACATGC
121 C I H S N A K V S V E I S S E D L L T C

421 TGTGACAGCTGTGGCATGGGATGTAATGGTGGCTACCCTTCAGCTGCCTGGGACTTCTGG
141 C D S C G M G C N G G Y P S A A W D F W

481 ACCAAAGACGGGCTGGTCTCTGGAGGCCTCTATGATTCCCATGTCGGTTGTCGTCCTAC
161 T K D G L V S G G L Y D S H V G C R P Y

541 ACCATCGCCCCCTGCGAGCACCATGTGAATGGCAGTAGACCCCTTGACCGGAGAAGGT
181 T I A P C E H H V N G S R P P C T G E G

601 GGAGAAACACCCCAGTGCATCTTCCAGTGTGAAGCTGGATACACACCAAGCTACAAACAA
201 G E T P Q C I F Q C E A G Y T P S Y K Q

661 GACAAGCACTATGGTAAAACGTCTTACAGCGTGCTGTGCGATGAGGAGCAGATTCACTAC
221 D K H Y G K T S Y S V L S D E E Q I Q Y

721 GAGATATACAAGAATGGCCCAGTAGAGGGAGCCTTTATAGTCTATGAAGACTTTGTGCTG
241 E I Y K N G P V E G A F I V Y E D F V L

781 TACAAGTCTGGTGTGTATCAGCATGTGTCTGGCTCTCAAGTTGGCGGCCATGCCATTAAG
261 Y K S G V Y Q H V S G S Q V G G H A I K

841 ATCCTGGGCTGGGGGGAGGAGGCCGGTGTTCCTACTGGCTCTGTGCCAACTCCTGGAAC
281 I L G W G E E A G V P Y W L C A N S W N

901 ACGGACTGGGGTGATAACGGATTCTTTAAGTTCCTGCGTGGATCTGATCACTGTGGTATT
301 T D W G D N G F F K F L R G S D H C G I

961 GAGTCTGAAATTGTGGCAGGAATTCCTCAAGTAA
321 E S E I V A G I P K *

Sup. Figure 2

1 **ATG**AGGAGCCTGGTCTGTTTCGTGTTTCGCGGCGCTGGTTCTGACCACCGACGCGCTGGTT
1 M R S L V L F V F A A L V L T T D A L V

61 CGAATTCCTTAAAGAAATTCGGTTCCATCAGACGTGAGCTGACGGACTCGGGGAGGACC
21 R I P L K K F R S I R R E L T D S G R T

121 GCAGAGGAGCTCCTGGCTGGCAAACACTCCACTAAGTACAACCTTTGGCTTCCCCTCCAGC
41 A E E L L A G K H S T K Y N F G F P S S

181 AATGCACCCACTCCAGAAACCCTGAAGAACTACCTTGACGCGCAGTATTACGGCGAGATC
61 N A P T P E T L K N Y L D A Q Y Y G E I

241 GGCCTGGGGACTCCTCCTCAGCTCTTCACTGTGGTGTGTTGATACGGGCTCCTCCAACCTG
81 G L G T P P Q L F T V V F **D** T G S S N L

301 TGGGTGCCCTCCGTTCACTGCTCCCTCTTAGACATCGCCTGCTTGCTTCACCACAAATAT
101 W V P S V H C S L L D I A C L L H H K Y

361 AATTCTGCCAAGTCCAGCACATACGTGAAGAACGGCACCGCCTTTGCAATCCAGTATGGA
121 N S A K S S T Y V K **N** G T A F A I Q Y G

421 TCTGGCAGTCTGTCTGGGCTACCTCAGTCAGGACACATGCACAATCGGAGACATCGCGGTG
141 S G S L S G Y L S Q D T C T I G D I A V

481 GAAAAACAGCTTTTCGGAGAAGCCATCAAGCAGCCCGGTGTGACCTTCATCGCTGCCAAG
161 E K Q L F G E A I K Q P G V T F I A A K

541 TTTGACGGCATCCTCGGCATGGCTACCCACGCATCTCTGTGGACGGTGTGGCTCCCGTC
181 F D G I L G M A Y P R I S V D G V A P V

601 TTTGACAACATCATGAGCCAGAAGAAGGTGGAGAAGAAGCTCTTCTCCTTCTACCTGAAC
201 F D N I M S Q K K V E K N V F S F Y L N

661 AGGAACCCCGACACCGAGCCCGGCGGTGAGCTGCTGCTCGGAGGGACTGACCCCAAATAC
221 R N P D T E P G G E L L L G G T D P K Y

721 TACAGCGGAGACTTCAACTACGTCAACATCACCCGCCAGGCGTACTGGCAGATCCACATG
241 Y S G D F N Y V **N** I T R Q A Y W Q I H M

781 GACGGGATGTCAGTGGGAACCCAGCTGAGTCTGTGTGGGAGCGGCTGTGAAGCCATCGTG
261 D G M S V G T Q L S L C G S G C E A I V

841 GACACCGGGACGTCTCTGATCACCGGACCCTCAGCGGAGGTGAGGTCCCTGCAGAAAGCC
281 **D** T G T S L I T G P S A E V R S L Q K A

901 ATCGGAGCCACTCCACTCATCCAGGGAGAGTACATGGTGAGCTGTGACAAAGTCCCGACG
301 I G A T P L I Q G E Y M V S C D K V P T

961 CTGCCTGTCATCACCTTCAAAGTTGGCGGACAGTCTTACTCTCTGACCGGAGAGCAGTAC
321 L P V I T F K V G G Q S Y S L T G E Q Y

1021 ATCCTCAAGGTGAGTCAGGCTGGAAAGACCATGTGTCTGAGCGGCTTCATGGGTCTGGAC
341 I L K V S Q A G K T M C L S G F M G L D

1081 ATCCCCGCCCCCGCCGGGCCCTGTGGATTCTGGGAGACGTCTTCATCGGCCAGTACTAC
361 I P A P A G P L W I L G D V F I G Q Y Y

1141 ACCGTCTTCGATCGGGACAACAACCGGGTCGGCTTCGCCAAGTCTAAATAA
381 T V F D R D N N R V G F A K S K *

Sup. Figure 3

3 GGTTTGAAGCTGAGTTTCTGGGAGAACGGACCGAAGCCCGGCCAGTTCTACTCTTTCCCC
1 G L K L S F W E N G P K P G Q F Y S F P

63 GCGGCAGCAGCAGCAGCGGGTCGGCAGCATCATGCGGGCCGGTCAGACACACACTGAAC
21 G G S S S S G S A A S C G P V R H T L N

123 CCGATGGTCACAGGGACGTCGGTGCTCGGTGTGAAGTTCACCGCGGCGTCATCATCGCG
41 P M V T G T S V L G V K F T G G V I I A

183 GCGGACATGTTGGGCTCGTACGGCTCTCTGGCTCGCTTCAGGAACATCTCTCGTCTCATG
61 A D M L G S Y G S L A R F R N I S R L M

243 AAGGTGAACGGTAACACCATCCTGGGAGCGTCCGGAGACTACGCCGACTACCAGTACCTC
81 K V N G N T I L G A S G D Y A D Y Q Y L

303 AAACAGATCATCGAACAGATGGTTATCGACGAGGAGCTGCTGGGTGACGGTCACAGCTAC
101 K Q I I E Q M V I D E E L L G D G H S Y

363 AGTCCCAAGGCGGTCCACTCCTGGCTCACCAGAGTCATGTACAACCGGCGCTGCAAGATG
121 S P K A V H S W L T R V M Y N R R C K M

423 AATCCTCTGTGGAACACGGTGGTGATCGGAGGCTTCTACAACGGAGAGAGTTTCCTAGGT
141 N P L W N T V V I G G F Y N G E S F L G

483 TACGTGGACAAGCTGGGCGTGGCCTATGAGGCGCCACAGTGGCCACAGGCTTTGGAGCG
161 Y V D K L G V A Y E A P T V A T G F G A

543 TACCTGGCTCAGCCTCTGATGAGGGAGGTGGTGGAGAACAAGGTGGAGATCACTAAGCAG
181 Y L A Q P L M R E V V E N K V E I T K Q

603 GAGGCTCGGGAGCTAATCGAGCGCTGCCTCAAAGTGCTTTACTACAGAGACGCTCGCTCC
201 E A R E L I E R C L K V L Y Y R D A R S

663 TACAACAGATACGAGATCGCCATCGTCACAGAGGAGGGCGTGGAGATCGTCGGTCCGCTG
221 Y N R Y E I A I V T E E G V E I V G P L

723 TCTTCTGAGACCAACTGGGACATCGCTCACATGTCA
241 S S E T N W D I A H M S

Sup. Figure 4

