

ATGAAAAAACCCTTTGATTTGCGGTTGCGGCAGCATTGCTCGGGCTTGCTTTGGGCACGCCTTATTATTTGGGTGTCAAAGCCGAAGAAAGCTTGACGCAGCAGCAAAAAATATTGCAGGAA
M K K P L I S V A A A L L G V A L G T P Y Y L G V K A E E S L T Q Q Q K I L Q E

CGGGCTTCTTGACCGTGAATCGACCAATATGAGCGCGGCTGGTTTACCTCTACGAAACGACGGTATCCGCTTAAACCCGAGTGTCTGAATAATGCCGGAATACCTGCCGGAC
A G F L T V E S H Q Y E R G W F T S T E T T V I R L K P E L L N N A R K Y L P D

AACTGAAAAACAGTGTGGAACAGCCGGTTACGCTGGTAAACCATATCACGCACGGCCCTTTCGCCGGCGGATTTCGCACGCAGCGCTACATTGAAACCGAGTTCAAATACGCGCTGAA
N L K T V L E Q P V T L V N H I T H G P F A G G F G T Q A Y I E T E F K Y A P E

ACGAAAAAGTTTTGAAACGCTTTTTTGGAAACAAGCTCCGGTTTCCCTTGCCAAATCCGTTTATTTTAAACGGCAGCGTAAAATGGAAGTCAGTGTCCCGCTTCGATTATGAAGAG
T E K V L E R F F G K Q A P V S L A N T V Y F N G S G K M E V S V P A F D Y E E

CTGTCGGGCATCAGGCTGCATTGGGAAGGATTGACGGGAAAAACGGTTTATCAAAAAGTGTTCAAAAGCTACCGCAACAGCTATGATGCGCCCTTGTTCAAAATCAAGCTGGCAGACAAA
L S G I R L H W E G L T G K T V Y Q K G F K S Y R N S Y D A P L F K I K L A D K
174 179 182 148 194

GGCGATGCCGCTTTGAAAAAGCGCATTTCGATTTCGAAACTTCAGACGGTATCAATCCGCTTGCTTTGGGCAGCAGCAATCTGACCTTGAAAAATTCCTCCTAGAATGGAAAGAGGTT
G D A A F E K A H F D S E T S D G I N P L A L G S S N L T L E K F S L E W K E G
208 232

GTCGATTACAACGTCAAGTTAAACGAACTGGTCAATCTTGTTACCGATTTGCGACATTGGCGCGTTTATCAATCCCAACGGCAGCATCGCACCTTCCAAAATCGAAGTCGGCAAACCTGGCT
V D Y N V K L N E L V N L V T D L Q I G A F I N P N G S I A P S K I E V G K L A
246 273 278

TTTTCAACCAAGACCGGGAATCAGGCTCATTATCAACAGTGAAGGGCAGTTCCTGTTTTGACACGCTGGTGTACGGCAATGAAAAATACGGCCCGCTGGACATCCATATCGCCGCCGAA
F S T K T G E S G S F I N S E G Q F R F D T L V Y G N E K Y G P L D I H I A A E
284 309

CATCTCGATGCTTCTGCCTTAACCGTATTGAAACGTAAGTTTGCACAAATTCGCCAAAAAATGACCGAGGAACAAATCCGCAATGATTTGATTCGCCCGCTCAAAGGCGAGGCTTCC
H L D A S A L T V L K R K F A Q I S A K K M T E E Q I R N D L I A A V K G E A S
331 341 356

GGACTGTTCCACCAACATCCCGTATTGGACATTAAAACCTTTTCGTTTACACAGCCGTCGGGAAAAATCGATGTGGGTGAAAAATCATGTTTAAAGACATGAAGAAGGAAGATTTGAAT
G L F T N N P V L D I K T F R F T Q P S G K I D V G G K I M F K D M K K E D L N
371 382 382 395

CAATTGGGTTTGATGCTGAAGAAAAACCGAAGCCGACATCAGAATGAGTATTTCCCAAAAAATGCTGGAAGACTTGGCGGTGAGTCAAGCAGGCAATATTTTTCAGCGTCAATGCCGAAGAT
Q L G L M L K K T E A D I R M S I P Q K M L E D L A V S Q A G N I F S V N A E D
407 408 420

GAGGCGGAAGGCAGGGCAAGTCTTGACGACATCAACGAGACCTTGCGCCTGATGGTGGACAGTACGGTTTTCAGAGTATGGCAAGGAAAAAATATCTGACTTTTGAACGGCGACAGATTGAT
E A E G R A S L D D I N E T L R L M V D S T V Q S M A R E K Y L T L N G D Q I D
470

ACTGCCATTTCTCTGAAAAACAATCAGTTGAAATGAACGGTAAAACGTTGCAAAAACGAACCGGAGCCGGATTTTGTGAAAGCCGGTATGTTTTCAGAGCCGACAGTAA
T A I S L K N N Q L K L N G K T L Q N E P E P D F D E G G M V S E P Q Q
486 491 495