

QUERY 1 10 20 30 40
UniRef90_U4K523
UniRef90_UPI00046320F0
UniRef90_UPI0003B2FAD5
UniRef90_UPI000377BE2E
UniRef90_Q1YXD9
UniRef90_W9VI82
UniRef90_Q21P93
UniRef90_D5RSE3
UniRef90_UPI0003706A4C
UniRef90_UPI000299E2E1
UniRef90_Q1MZ28
UniRef90_A1KBB3
UniRef90_W8ZWL7
UniRef90_C5BUN8
UniRef90_Q1YUB6
UniRef90_UPI000470389F
UniRef90_V5FIY4
UniRef90_L1LS53
UniRef90_UPI0004767FD1
UniRef90_L8JDH7
UniRef90_I1YJC4
UniRef90_F9ZXE6
UniRef90_R4VKJ1
UniRef90_UPI00047517AB
UniRef90_D0I5R6
UniRef90_B2JF68
UniRef90_I2JF47
UniRef90_UPI00037E8676
UniRef90_K9SXD7
UniRef90_E2CHN9
UniRef90_UPI000375BD7
UniRef90_B8GQ27
UniRef90_UPI000237D97E
UniRef90_K9T949
UniRef90_Q39IW4
UniRef90_C7RRP3
UniRef90_K0C2P5
UniRef90_A0A011PDV6
UniRef90_Q210G0
UniRef90_A0A024K9U2
UniRef90_B1XHX4
UniRef90_UPI00035FE683
UniRef90_G7LUR9
UniRef90_UPI000378FA35
UniRef90_UPI000382A6B4
UniRef90_A0A011QQM0
UniRef90_G1Y142
UniRef90_U7FTS4
UniRef90_UPI000301E441
UniRef90_A3X9H6
UniRef90_D4YZJ0
UniRef90_F5SWH3
UniRef90_B0BYN2
UniRef90_L8LMB6
UniRef90_R4YRR4
UniRef90_UPI00035D343A
UniRef90_A8LRR8
UniRef90_K8GJB7
UniRef90_F7UNG4
UniRef90_UPI0002F1A4BF
UniRef90_Q11EW3
UniRef90_W9UV5C
UniRef90_UPI00047D6EA8
UniRef90_A3JS09
UniRef90_D0Z448
UniRef90_UPI0004782B1A
UniRef90_D7DI65
UniRef90_UPI00031BCD8D
UniRef90_UPI00035FCCB2
UniRef90_W6M7Y7
UniRef90_A6D6R3
UniRef90_F5SNT0
UniRef90_C6XAM2
UniRef90_A2S995
UniRef90_G8M6K2
UniRef90_UPI0004256933
UniRef90_G4T1M7
UniRef90_UPI0002260393
UniRef90_K9XZB7
UniRef90_K9RDS7
UniRef90_UPI000319398B
UniRef90_C1DNG3
UniRef90_UPI00034CF7DF
UniRef90_DOCNS2
UniRef90_UPI00037F9CE7
UniRef90_C6XQA3
UniRef90_B0JR63
UniRef90_UPI00039D2BC3
UniRef90_K9Z1W3
UniRef90_UPI0004715A4B
UniRef90_N6XGH8

QUERY
UniRef90_U4K523
UniRef90_UPI00046320F0
UniRef90_UPI0003B2FAD5
UniRef90_UPI000377BE2E
UniRef90_Q1YXD9
UniRef90_W9VI82
UniRef90_Q21P93
UniRef90_D5RSE3
UniRef90_UPI0003706A4C
UniRef90_UPI000299E2E1
UniRef90_Q1MZ28
UniRef90_A1KBB3
UniRef90_W8ZWL7
UniRef90_C5BUN8
UniRef90_Q1YUB6
UniRef90_UPI000470389F
UniRef90_V5FIY4
UniRef90_L1LS53
UniRef90_UPI0004767FD1
UniRef90_L8JDH7
UniRef90_I1YJC4
UniRef90_F9ZXE6
UniRef90_R4VKJ1
UniRef90_UPI00047517AB
UniRef90_D0I5R6
UniRef90_B2JF68
UniRef90_I2JF47
UniRef90_UPI00037E8676
UniRef90_K9SXD7
UniRef90_E2CHN9
UniRef90_UPI0003F75BD7
UniRef90_B8GQ27
UniRef90_UPI000237D97E
UniRef90_K9T949
UniRef90_Q39IW4
UniRef90_C7RRP3
UniRef90_K0C2P5
UniRef90_A0A011PDV6
UniRef90_Q210G0
UniRef90_A0A024K9U2
UniRef90_B1XHX4
UniRef90_UPI00035FE683
UniRef90_G7LUR9
UniRef90_UPI000378FA35
UniRef90_UPI000382A6B4
UniRef90_A0A011QQM0
UniRef90_G1Y142
UniRef90_U7FTS4
UniRef90_UPI000301E441
UniRef90_A3X9H6
UniRef90_D4YZJ0
UniRef90_F5SWH3
UniRef90_B0BYN2
UniRef90_L8LMB6
UniRef90_R4YRR4
UniRef90_UPI00035D343A
UniRef90_A8LRR8
UniRef90_K8GJB7
UniRef90_F7UNG4
UniRef90_UPI0002F1A4BF
UniRef90_Q11EW3
UniRef90_W9UVC5
UniRef90_UPI00047D6EA8
UniRef90_A3JS09
UniRef90_D0Z448
UniRef90_UPI0004782B1A
UniRef90_D7DI65
UniRef90_UPI00031BCD8D
UniRef90_UPI00035FCCB2
UniRef90_W6M7Y7
UniRef90_A6D6R3
UniRef90_F5SNT0
UniRef90_C6XAM2
UniRef90_A2S995
UniRef90_G8M6K2
UniRef90_UPI0004256933
UniRef90_G4T1M7
UniRef90_UPI0002260393
UniRef90_K9XZB7
UniRef90_K9RDS7
UniRef90_UPI000319398B
UniRef90_C1DNG3
UniRef90_UPI00034CF7DF
UniRef90_D0CNS2
UniRef90_UPI00037F9CE7
UniRef90_C6XQA3
UniRef90_B0JR63
UniRef90_UPI00039D2BC3
UniRef90_K9Z1W3
UniRef90_UPI0004715A4B
UniRef90_N6XGH8

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

50

60

Multi-sequence alignment table showing UniRef90 IDs (e.g., UniRef90_UPI00035D7840) and their corresponding amino acid sequences. The alignment is divided into columns labeled 1, 10, 20, 30, and 40. Residues are color-coded: blue for conserved positions, yellow for positions with some variation, and red for positions with significant variation. Gaps are represented by dashes (-).

UniRef90_UPI00035D7840
UniRef90_D4ZV96
UniRef90_V4JPM8
UniRef90_UPI00039E687A
UniRef90_A8TMF5
UniRef90_UPI00035F0277
UniRef90_UPI0003645348
UniRef90_F4XRH4
UniRef90_K2QXR9
UniRef90_UPI0003B528D0
UniRef90_A0A058ZNNW5
UniRef90_K9TKR0
UniRef90_I8I429
UniRef90_J5PV09
UniRef90_UPI0004764B4C
UniRef90_UPI000368E7C4
UniRef90_UPI00037A2D1A
UniRef90_Q9FAS4
UniRef90_Q9AQ72
UniRef90_I3CDU8
UniRef90_K9UWL6
UniRef90_UPI000464FBFC
UniRef90_V5PWS6
UniRef90_K9VK85
UniRef90_UPI00046F78C2
UniRef90_UPI000462EBFE
UniRef90_A0A037ZIP7
UniRef90_A1B1B8
UniRef90_L8N5T2
UniRef90_K9QMN2
UniRef90_B6B305
UniRef90_K2JH55
UniRef90_A6VD00
UniRef90_G6FP28
UniRef90_K9W0S8
UniRef90_UPI0003FD1E98
UniRef90_K2JSB6
UniRef90_X5XXD3
UniRef90_UPI000329FFF9
UniRef90_Q161S6
UniRef90_UPI00025562F8
UniRef90_UPI000367F7E6
UniRef90_D3NWP3
UniRef90_G5ZXH1
UniRef90_K9YJ02
UniRef90_N2J689
UniRef90_UPI00036421F4
UniRef90_UPI00047E99AE
UniRef90_H8L4U5
UniRef90_A6FSJ3
UniRef90_K2PPM2
UniRef90_H2IBY7
UniRef90_W0ABS5
UniRef90_Q8XXT2
UniRef90_A4EHT4
UniRef90_D4TQH6
UniRef90_M5DQG6
UniRef90_F1W418
UniRef90_W615K0
UniRef90_K9ZAW6
UniRef90_UPI0003701CBB
UniRef90_UPI0003B6ADD8
UniRef90_UPI000464FA1D
UniRef90_F1Z7X0
UniRef90_Q3J771
UniRef90_H0Q2J8
UniRef90_A0A017HGK1
UniRef90_A9DDB7
UniRef90_A0A059IR67
UniRef90_V7EJG0
UniRef90_I3YAL7
UniRef90_Q8DJ62
UniRef90_UPI00038255D2
UniRef90_F9UCJ0
UniRef90_F2IZB6
UniRef90_I1ATL9
UniRef90_UPI00036DB31A
UniRef90_N9MG68
UniRef90_UPI000373A201
UniRef90_K9SEA3
UniRef90_A4SY43
UniRef90_B0TT72
UniRef90_Q473Q8
UniRef90_A3YCE2
UniRef90_A3K5Z9
UniRef90_K9YC94
UniRef90_E0XTM9
UniRef90_K9RPP9
UniRef90_A8I4S6
UniRef90_UPI0003A49D56
UniRef90_UPI00047850A9
UniRef90_W6M1U1

50 60
D S V L Q A M L E K M N H I Q A E T A P F H P E T G A
D G V L A D L V K L G H V T Q E I A P F F Y P D K G A
D H V L D A M V R G L G L Q V S V E D A P F F N P E P G A
D H V L D S M L R G F G L D V E E I V A P F F N P E P G A
D H V I E A M L E G L G A T L T R V T R A F F Q P E G G A
D K V I A D M V E G L G A A A T I L E A P F N Q P E G G A
D H V L E E M V K G L G C E V I C E T E A P F F Q P E S G A
D P V L Q G M L E Q L G V E V H Q E V V I P F F Q P E I G A
D H V L R D D M L A G L G A E V S E V V E P F F Q P V R G A
D H V L R D D L V R G L G L P V E L M R L T F F E P E G G A
D H V L A D M L T K L G A T V E T R Q A P F F T P E G G A
D P V L K A M L E Q L G L T V Q E E T A P F F H P E I G A
D H V I T D M L I G L G A Q V R H L Q A P F T P E S G A
D H V L E E M L Q K L G A A V T P I E A P F D P E S G A
D H V L D A M A A G L G L A V H H E S A P F F N P E A G A
D H V L D I M V E G L G Q K V S E E Q Q P F F N P E N G A
D P V I K V M L E G L G A T V S E V T E P F F Q P M R G A
D H V L D D M V K G L G L G V R V E R A K Y Q P E P G A
D H V L E T M L R G L G A R V E R R M E P F R P E S G A
D H V L D D M L R H F G L N V R V I D A P F F E P E G G A
D P V L K S M I E H L G L E V K A E I L P F F Q P E A G A
D H V I R Q M L N G L G A T V S E I V A P F Q P V R G A
D P V L R D M L L R L G V D V A E A L M P F F E P E A G A
D S V L Q G M L E K M G L E V T E E I V P F F Q P E T G A
D H V I A E M L R G L G A H V H H I E A A F D P E T G A
D P V I A H M L A H L D A T V T E A T E P F F T P E G G A
D H V L A K M L R R L G A E V V I E A P F V P E G G A
D H V L E A M L R R L G A E I S H Q N L P F R P E G G A
D P V L E D M V I Q M G L T I A K E N Q P F F Q P E S G A
D P V L C N L L E Q M G L N I T E E I L P F F Q P E L G A
N H V M Q D M L H K L G A S V T E I S A P F T P E G G A
D H V L A D M A R R L G A E V T A V A R P F D P E G G A
D Y V L K A M L E Q L G A S V N A L Q A P F F Q P E A G A
D P V L Q V M L Q Q L G V E I K E E I S P F F Q P E A G A
D Y V L K T M L E H L N L Q V T E E I V I P F F Q P E S G A
D P V L S S M L V H Q G L T I Q E E I A P F F Y P E G G A
D P V L K A M L E Q L G A E V H D I L A P F S P E G G A
D H V I K A M L E G L G A T V R E V S E P F K P V R G A
D H V L D E M L T L M G L T V E F A D L P F F E P E A G A
D H V M A D M L G K I G A T V A E I V E P F T P E G G A
D H V L D E L I L G I G G N V V S E Q N K F F E P E D G A
D H V L D D M V R G L G L S V V L E Q A S F F E P E
D H V I E D M L R G L G A E V R D V T A P F M P E G G A
D H V L E D M L R L L G A D S E R L E A P F F T P E G G A
D H V L A S M V I N L G L Q V T E E I A P F C P E I G A
D H V L K A M L D Q L G T T C E S I Q A P F F Q P E
D H V L D D M V R S L G L V V E H Q E A S F F E P E S G A
D H V L D D M V R G L G L T V E H T L M P F F E P E R
D P V L R D M L D Q L G V H C Q A M Q A P F F Q P E H G A
D P V I A H M L E H L G A S M T S A R A P F F T P E G G A
D H V I R D M L L G L G A A I E E I V A P F S P E R G A
D H V L E E M V E L F G L E C N H H Q A M F N P E S G A
D H V I Q A M L V G L G A E V V L T D G P F T P E A G A
D P V L E D M L V R L G V T T H V Q A P F F E P E A G A
D S V I G H M L H L G A T V T P I T A P F T P E G G A
D S V L Q S M L E K L Q L E V T E E V A P F F Y P E P G A
D H V L E D M L H L L G L T V S H E N A V F V P E S G A
D P V L K E M L Q Q L G A N V T E E L A P F F E P E S G A
D H V I I A M L R G L G A H V R S V T M P F F N P E G G A
D P I L V A M L A Q L G L E I K E E V V I P F F Q P E L G A
D H V I Y A M L H G L G A T T R A L R A P F T P E N G A
D H V L D E M V R G F G L T V T V E I D A F E P E G G A
D H V L D D M V R L L G G T V T V E E Q P V I Q P
D G V I L E M L L G L G A E V D V V D A P F T P E G G A
D Y V L R D M L M R L G V E V F E V T A P Y Q P E S G A
D H V L E G M L V G L G A R V S A L C A P F F E P E A G A
D H V L R D M L G R L G A E V R E V S E P F F V P E G G A
D H V I R D M L I G L G A K V D E I E A P F D P E G G A
D P V L E K M L Q Q L G A R I T K V T A G F T P E G G A
D H V L K A M L V Q L G A R V T H E M A P F R P E G G A
D H V L D D L V R G L G L A V R I E E Q P F F E P E P G A
D S V V Q T M L E Q R G L T V T F E V A P F C P E R G A
D H V L A E M L R Q M H L V T E V Q A P F F E P E G G A
D Q V L D E M V R G L G L E V R L V D A G F F E P E S G A
D H V I E D M V Q R L G G R L T P L A A P F D P E G G A
D H V I A D M L S R I G A T V R E V D E P F T P E G G A
D P V I A D M I A G L G G H I H P H E A P F S P E S G A
D H V L A E M V I G L G L T V N E V I E H P F F E P E S G A
D P V L A D M L R R M G L Q V L E T L A A F F E P E A G A
D S V L A D M L T K M G L Q I T A E T V T F F Q P E A G A
D S V L E V M I R Q L G L E A I H E L A P F F E P E T G A
D Y V L D E M L I G L G L Q V T T V E N E A F F Q P E
D P V L A D M L A R L R V Q A V Q I D A P F F E P E A G A
D H V L E E M L Q N L G L T L S H K E A I F V P E S G A
D P V I R H M L E H L G A D V R E T V R P F T P E G G A
D P V L E K M L Q Q M G L T V T A E M T P F F P E L G A
D H V L E E M L K N L G A T V E N I E A P F S P E G G A
D P V L E K L L H Q R G L T V E L G S H P F F Q P E L G A
D P V L E A M L R G L G A A V K P V V R P F K P E R G A
D P V L R D M L L R L G V Q V T E A L E A F D P E G G A
D H V L V E M V R G L G G A A N P V K R P F R P E G G A
D P V L D R M M E D L G L S V N R E Q A P F F E P E G D A

UniRef90_UPI0003813B4B 1 E C L S R A D C T D P L V L A R V C Y H L G N N R R H V V A V V Q I E P G R L S Y L H
UniRef90_UPI0003772D99 D E E L L Q I K G D L L L R F A W H L G G N N R R H V V P L C Q I E E G T T P G R Y L L I Q K
UniRef90_U5DFC0 E E L V L T A T A Q T H A L D L L L R A A V Y H L G G N N R R H V V P L V E E I T T T P D Y Y L R L R L S S
UniRef90_B21VV8 E E L V V T A F A P H L L L L L R A A Y Y H L G G N N R R H V V P L V E E I T T T P D Y Y L R L R L S S
UniRef90_UPI0003487BB6 S E Q V V Y W V T A P T P L L L L L R G A Y H L G G N N R R H V V P L V E E I V S P E G L L R L R L S P
UniRef90_UPI00046EF109 UniRef90_UPI0003FE5394 E Y L L L R V Y T A D T A A L L L R V S W H L G G N N R R H L L P T A A I Q I M S T E K E K R L R I R R Q
UniRef90_UPI00047AA962 E E D L L L E V R T G R D T S H L L L A L G W Q L G G N N R R H L L A A Q I V S T E S D R F I L I R Y Q Q
UniRef90_UPI000469B67D UniRef90_E0MQK4 D E K L L D V V R T G R D T A H L L L I E L A F W H L G G N N R R H T L A Q T Q V V G E E D F F R I L Y Q R
UniRef90_W4HNI1 UniRef90_UPI00031271A6 E E A T Y R V E T G G G A R K L L V R L A W H L G G N N R R H T P C Q Q V V E A D E R F L L L I R R R
UniRef90_A4WR77 E E E V V S I T T G G P L L L R A A W H L G G N N R R H T P C Q Q I E E P G D D R L L V L I R R R
UniRef90_UPI0003761438 E E A L V A V T A D A D A L L V K L A W H L G G N N R R H L P A Q I L S S D R I L L R D
UniRef90_B8KGH2 S E S L Y E A Y T S D D A H L L R R A A Y H L G G N N R R H V S L Q I L E P G A L R F P K R
UniRef90_G4RA39 UniRef90_S4XT46 D E E L V A V T T G R E A T D L A R V L A W H L G G N N R R H I P A T A F D G A G R I L L I R R H
UniRef90_Q07K75 E E P L L E I R G A D P Q H L V R L A W H L G G N N R R H L P T Q I V I G A K G R L R I R R R
UniRef90_UPI000367EA89 D E A L L M E V T A G N R H A L M R I V W H L G G N N R R H L P V E I E E V D R L R L R P
UniRef90_V4RHP5 E K L M E V T A G N R H A L M R I V W H L G G N N R R H L P V E I E E V D R L R L R P
UniRef90_M9RBR8 E P L I E T A G D D L V R I A W H L G G N N R R H T P C Q I E S S R L Q Q P
UniRef90_Q2SDQ0 E T V A T A Q A N D P R Q F A Q L C Y H L G G N N R R H T P L Q I G E S S R L Q Q P
UniRef90_U2ZRP8 E K L L H V T C A S S F E L L R A A Y H L G G N N R R H V T L Q I G D G W L R L P E
UniRef90_M31YD0 N E A L Y E I T T A R S P K A L S E L A W H L G G N N R R H L P A E I A L K R I L L I G R Y
UniRef90_G8PTQ9 E P L Y K V T T A R S D P L H Y A E L C W H L G G N N R R H L P A Q I T P P A I F I L G R Y
UniRef90_F2L7X3 E P V L T R I R A S P D A L T F T R A A Y H L G G N N R R H T P V E I V G L D D T L K L E Y
UniRef90_K9EJP4 P V L R I V T A G S P F D L L T Q A A Y H L G G N N R R H V V A L E E V G P A D D Y L K L A P
UniRef90_F3KP39 Q D L L A E V T C A T P E T D L L A R A A Y H L G G N N R R H V V P V E I E L R G P D H L K L R W
UniRef90_W9GYD3 E D V L A E V T R G Q T P F E D L L R A A Y H L G G N N R R H V V P V E I E L A G A D A L R L R W
UniRef90_K9S7W9 E P V L T V R G A D P F A L L L R A A Y H L G G N N R R H V V A L E E L Q L T L L R L L A P
UniRef90_UPI0002F99F58 E P V F T V R E A D T P L A L L K A A Y H L G G N N R R H V V P L E E L R H E H L K L L E P
UniRef90_F3LPG5 Q V L V V R A A A P F E L M R A A Y H L G G N N R R H V V A L E E L R H E H L K L L E P
UniRef90_I3UCH1 E E Q L V R I M A D S A V I D L L A R A A Y H L G G N N R R H V V M L E V I G G A D Y R L Q L L E Y
UniRef90_UPI000362C78A E E L Y A I Q M G R D A V H L L R A A Y W Q L G G N N R R H L P C Q I G A G E R I L V R R N
UniRef90_A9BUC3 Q A V L R V T A A T P L G L L R A A Y H L G G N N R R H I P V E V T P T H L H L L E N D
UniRef90_G2J455 E E A L L H V T C A N P R E L C R A A Y H L G G N N R R H V H L G E S A A I R L L D D
UniRef90_A3VEP4 E E D L Y E V T G A N M V R L A W H L G G N N R R H T P A Q L A G S A A I R L L Q R
UniRef90_K9UAZ4 E P V L T V T S E N A I D L L R A A Y H L G G N N R R H V S L E I A P T Y L I R L T P
UniRef90_UPI0003B7B9B4 D E A V V K V T G D L L A R L A W H L G G N N R R H T P C Q Q I K T D H L C L I S R R
UniRef90_A6DVR2 E D L L E V R G D L L L A R L A W H L G G N N R R H T P C Q Q I G A D H L C L I S R R
UniRef90_K1Z704 E T V S T V R T S D P L L L A R L C Y H L G G N N R R H V A L E I G R E Y L R Y L H
UniRef90_C7DA53 E D L Y A V T G D L L L T Q L A A Y H L G G N N R R H T P C Q I Q P G R L L I Q P
UniRef90_A0A014P3V4 Q R V L K I T A G T A F D L T V R A A Y H L G G N N R R H V P I E L Q P D H L K L I P
UniRef90_C8PXE0 Q T L T K V T A D N A F E L M R G A Y H L G G N N R R H V P L M L V E Q A L L Y F E P
UniRef90_V9VX83 E P V L Q I T G D G L L L R L A W H L G G N N R R H T P C Q I E D Q M R Y L L T R Q
UniRef90_K9XE79 E P V L V K A T P V L L K A A Y H L G G N N R R H V V E V T E Q D Y L L R L P
UniRef90_M4SF03 E P L M A V R A G P G I G L V R L A W H L G G N N R R H L P A E I Q A D D R I L L R E E
UniRef90_B81J85 E R L L E I R A P D P R A L K R L A W H L G G N N R R H V P A E I G D D V V W I L A P
UniRef90_UPI0002377A7D Q P V L R L S C A T P L D L A R A A Y H L G G N N R R H I P A E I Q A D D V V W I L A P
UniRef90_B4RSY0 E D V A T A T A D D W L S F S K I C Y H L G G N N R R H T S L Q I G E R W V V R F K P
UniRef90_UPI00046D66EC E E E V S T A H T G D P L L L A R A C Y H L G G N N R R H V P C Q I R D R W V R Y G H
UniRef90_UPI00046AF7C3 E A V L S V T G D N L L Q R L A W H L G G N N R R H T P C Q I E A D R L V I M N
UniRef90_J2L9S0 D E K L F E V R G R D R A H L T E L A W H L G G N N R R H L S A Q I E E D R I L V I L R
UniRef90_UPI0004664E9E E E A L M R V T A T S E A R L L I R A A Y H L G G N N R R H T P V E F G D G Y L Q L E T
UniRef90_UPI00042990A5 E E A L Y E V H P R N A L H L L E L A W H L G G N N R R H L P A A M E T E G R I L L I A
UniRef90_UPI00045E66B0 E E D L V E V T T A N P L R L M K V A W H L G G N N R R H V P A E I T E T A V I F V D
UniRef90_UPI0004635AA4 E E D L I Q I R P D R L H L V L A W H L G G N N R R H L A A Q I I D E S D R I L L R
UniRef90_B8HW49 E P V L T V T G P A L D L L R A A Y H L G G N N R R H V P L E I T S A Y L R L P
UniRef90_A0L6F3 E P V L E I T P R D A Q N A A R L A W H L G G N N R R H T P A Q I L L G V M R I H E
UniRef90_UPI0003B44188 E P V I T A L S S D W K Q F S R A C Y H L G G N N R R H V R L Q L G E R W L R I T P
UniRef90_S9S2E3 E A L L E V R G P D D L L A R L A W H L G G N N R R H V P C Q I E A G R L L V P H
UniRef90_L0NJ04 E K L F E I T A R D R L H L T E L A W H L G G N N R R H L S A Q I E E A G R I L L I L R
UniRef90_Q1YG02 E E L Y E I R G R D A R H L L V L A W Q L G G N N R R H L A A Q L L G D D R I L R P W
UniRef90_H6SJM9 E D V A E V Y C P T P E M L A R L A W H L G G N N R R H M A V Q I E G D R I L R L P
UniRef90_A2SDI8 Q S V L V V R H G S A F D L L R A A Y H L G G N N R R H V P L E I L Q P D R L Q L E P
UniRef90_E3F423 D E D L L E V T G G D L L H R L A W H L G G N N R R H A P C Q I E A D R L V I R A
UniRef90_A9EEK7 E L L E V T G S D L L P R I A W H L G G N N R R H S P C Q I E A D R L V I Q R
UniRef90_UPI000464A12E E A V I T V T A P T S L L L L K A A Y H L G G N N R R H V P L E I V Q Q T Y L R F S P
UniRef90_UPI000225F178 E P C L R V E G P L P R L A W H L G G N N R R H T P C Q I N A D H L L R A
UniRef90_UPI0003624CCB D E P V V T A Y I E N G L P L G K L C Y H L G G N N R R H V T L A I G S D W V L R F P
UniRef90_J3HUT4 E E A L Y E V L P R S R Q H L T E L A W H L G G N N R R H L P A Q I E E G R I L T L K
UniRef90_UPI00035D7226 E P V L T V T G D L L L R L A W H L G G N N R R H T P C Q I A P F H L V I R A
UniRef90_UPI00025577C0 E E V L E A G C D D W R I F A R A C Y H L G G N N R R H V R I E V L T P T H L H L P
UniRef90_V4YN96 D Q P V L R I T P G R P F D L V R A A Y H L G G N N R R H V P I E V T P T H L H L P
UniRef90_UPI00036F1D7 D E P V I T A R I E G A L A L A R L C Y H L G G N N R R H V S L A I L G G D W V R F P
UniRef90_B21D54 E H L V E I T C P D A A K L A K I A W H L G G N N R R H L P V E A A G T K L R F R Y
UniRef90_H2FUQ2 E P V I T A H A P D W P T F T R A C Y H L G G N N R R H V T L E I I G E C W L R F A Y
UniRef90_A4GJP4 E S L L E I K G K N L M Q L I W H L G G N N R R H M A C Q I E K D R I L F L Q Y
UniRef90_K9P8A8 D E P L L V R A A D P L A L L Q A A Y H L G G N N R R H V P A M E L H E R D A L R L V A
UniRef90_I4YW12 E K L V E I T T E D P L D L L T V A Y H L G G N N R R H V P A E I A R E A I R L Y A Y
UniRef90_V8QS10 E T L M R V T A H S A T D L L R A A Y H L G G N N R R H T V Q V E A D G Y L Q L E R R
UniRef90_UPI00034641AD E P T Y L V R C A D A H T L L R C A F H L G G N N R R H T Q A H V G E D G F L R I R R
UniRef90_F8J7W2 E E L T E I T T T S A A D L V R V A W H L G G N N R R H L P M L L P D R I L L R R
UniRef90_A5GWV2 E P V V V V R A S Q P L A L L Q A A Y H L G G N N R R H V A L E H P Q E L L L A
UniRef90_UPI00046A3B3D Q T L L Q I R G D D L L V R L A W H L G G N N R R H T P C Q I E R T R L L I O S
UniRef90_UPI00035E82AF E P V I T A S S D D W L T F S K V C Y H L G G N N R R H T V L Q V G E R W L R F K P
UniRef90_UPI00037F2ED6 E E E L Y D I R A R D A V H L T Q L A W H L G G N N R R H L A A A I S V D R I L L R
UniRef90_C9Y747 Q A V L K I T R H G T P F D L L R A A Y H L G G N N R R H V P I E L Q P D R I K I P
UniRef90_D7A8Z6 E P V A E I V A Q D A H H L A R L A W H L G G N N R R H V P A E L L A D R I R I A R D
UniRef90_N1MRG3 E A L V E V T A A D P S T E M M R L A W H L G G N N R R H L P A E L H P H A R L R A
UniRef90_D0LX06 E P L I E I S G P S E L L R A A W H L G G N N R R H L P A E M R G D C A R L R A
UniRef90_F61F16 E P L I E I A A H S S A E L V R S W H L G G N N R R H L P T Q L L P G T L R I R H

UniRef90_UPI0003813B4B D H V L D D L V R G L G L A V V V D H G P F E P E S G A
UniRef90_UPI0003772D99 D H V I K E M L I K L G A E V E T V K E P F F N P E E S G G A
UniRef90_U5DFC0 D P V L Q R S L L I Q L G L E V V C E E T L P F F R Q P E P G G A
UniRef90_B2IVW8 D S V L R A M L E Q L G L E V K E E L L P F F Q P E P G G A
UniRef90_UPI0003487BB6 D P V L K A L L E Q L G L H I E E Q Y S P F F Q P E P T G A
UniRef90_UPI00046EF109 D H V I E E M L V T L G A K P V R L M A P F F D P E G G A
UniRef90_UPI0003FE5394 D H V I A D V I R G L G G K V E A V V G P F F D P E T G G A
UniRef90_UPI00047AA962 D H V I K E M L I G L G A T A V I E L R A P F F N P E E S G G A
UniRef90_UPI000469B67D D S V L E R E M L L G L G A T V V I E E N A Q F F E P E S S G A
UniRef90_E0MQK4 D R V I A E M L V G L G A Q V A E V T E P F F S P Q R G G A
UniRef90_W4HNI1 D H V M R D M L G R L G A T V T E E V T A P F F R P E G G A
UniRef90_UPI00031271A6 D P V L K E M L E G L G A T V T E E E A P F F E P E S S G A
UniRef90_A4WR77 D H V L E G M L R G L G L S L E P R T E P F F R P E G G A
UniRef90_UPI0003761438 D A V I V D M L R G L G A H V E R I T A P F F T P E S R G A
UniRef90_B8KGH2 D H V L E E M L K G L G L G V R A I S D D A F S P E S S G A
UniRef90_G4RA39 D H V I K E M L E G L G A K V V I S A S F S P L R G A
UniRef90_S4XT46 D H V I V D M V R G L G A E A T P L R A P F F T P E R G A
UniRef90_Q07K75 D H V I E A M V A G L G A K V V I E I E A P F F D P E
UniRef90_UPI000367EA89 D P V L R A M L D G L G A V V T D V T G P F R P E G G A
UniRef90_V4RHP5 D H V I E A M I V G L G G K V A H V V E A P F H P E T G A
UniRef90_M9RBR8 D H V I E A L M L K L G A S V T K V V E P F I P E G G A
UniRef90_Q2SDQ0 D H V L E E D L C R L Y G L D V V R E S A C P F N P E N G A
UniRef90_U2ZRP8 D H V L Q A M L D Q L G A S T C Q V I E A P F F Q P E
UniRef90_M31YD0 D H V I K T M L E G L G A Q V T E I L A P F F N P L R G A
UniRef90_G8PTQ9 D H V I Y H M L E G L G A R I E E V E L P F S P V R G A
UniRef90_F2L7X3 D P V L A D M L T R L G A H V E R V E A P F S Q P E A G A
UniRef90_K9EJP4 D P V L A A M L H Q L G V T V T E E T V P F F Q P E S S G A
UniRef90_F3KP39 D H V L A A M L R A M H L I V T E Q Q D A F E P E G G A
UniRef90_W9GYD3 D H V I V D M L T G L G A E V V R T S A G F F T P E S S G A
UniRef90_K9S7W9 D P V L Q A L V E Q L G L L V E P E V A P F F Q P E A G A
UniRef90_UPI0002F99F58 D P V L Q H L L E H L G L R I R E E I A P F S P E T G
UniRef90_F3LPG5 D H V L A E M L R R M G L D V A E A H E P F F E P E G G A
UniRef90_I3UCH1 D P V L V Q M L H R L G V H T S L V E Q A P F N P E T G A
UniRef90_UPI000362C78A D H V I R D M L L E L G A H I H E V E A A F D P V G G A
UniRef90_A9BUC3 D P V L H D M L L R L G A Q V A L V D A P F F E P E A G A
UniRef90_G2J455 D E V L A Q M L L Q L G A R S V E R L S A P F F N P E
UniRef90_A3VEP4 D H V M R D M L T R L G A S V R E V V A P F T P E G G A
UniRef90_K9UAZ4 D S V L E R M L V Q L G L Q V V A E I A P F S P Q G G A
UniRef90_UPI0003B7B9B4 D P V L E G M L I Q L G A T L T V T N Q P F C P E G G A
UniRef90_A6DVR2 D H V I E A M L A Y L G A K L T P V T G P F R P E G G A
UniRef90_K1Z704 D H V L D G M V H G L G G E A V V E E A P F F E P E
UniRef90_C7DA53 D K V I G H M L E H L G A T L V V E V S E P F F T P E G G A
UniRef90_A0A014P3V4 D H V L A D M L R S L H M T V V A A D L P F P E G G A
UniRef90_C8PXEO D Y V L A D M L V K L G L T V S E V I H A F F E P E T G A
UniRef90_V9VX83 D H V I R A M L V Q L G A T V E E V T E P F T P E G G A
UniRef90_K9XE79 D P V L R T M L E Q L G A Q V Y E A V L P F F Q P E G A
UniRef90_M4SF03 D H V I R H M L E G L G A S V D A T H A P F T P E Q G A
UniRef90_B8IJ85 D H V L A A M V E G L G G T A T P V V R P F R P E G G A
UniRef90_UPI0002377A7D D H V L A D M L R A M H L I V Q E Q N L P F F E P E G G A
UniRef90_B4RSY0 D H V L E E L A E N Y G L S I N K T P A V F F E P E S G A
UniRef90_UPI00046D66EC D H V L D D L V G R L G L K V V R E R A R F F E P E T G
UniRef90_UPI00046AF7C3 D P V I K H M L E H L G A T I V E T T E P F F T P E G G A
UniRef90_J2L9S0 D H V I R T M L Q G L G A M V L D I N E P F F Q P A R G A
UniRef90_UPI0004664E9E D S V L R A M L Q G I G M T V T A V D A P F F Q P E P G A
UniRef90_UPI00042990A5 D P V I R A M L E G L G A K V D E V T E P F H P L R G A
UniRef90_UPI00045E66B0 D H V L T E M V R G L G A G V A K V T R P F R P E K G A
UniRef90_UPI0004635AA4 D H V I E A M L E G L G A T L V A P V R T G F F P V R G A
UniRef90_B8HW49 D S V L E A M V Q H L G L T V V T E L A S F Q P E T G A
UniRef90_A0L6F3 D H V L M A M L Q G L G A T V H R V M A P F A P E G G A
UniRef90_UPI0003B44188 D H V L E A L L R S F G L E I C H E R A V F F E P E P G A
UniRef90_S9S2E3 D H V L A G M L R Q L G A E L R E V T A P F F Q P E G G A
UniRef90_L0NJ04 D H V I R K M L E G L G A T V T E V E E P F H P
UniRef90_Q1YG02 D A V V R T M L E G L G A E I T E T E A A F D P E G G A
UniRef90_H6SJM9 D H V L V E M L A G L G A P V N R V Q A P F Q P E S S G A
UniRef90_A2SDI8 D H V L A D M L R A M H L I V S E A Q A P F F E P E S S G A
UniRef90_E3F423 D K V M Q D M L R G L G A A V K S I R E P F R P E G G A
UniRef90_A9EEK7 D H V M V K M L A Q I G A E T R E I T G P F R P E G G A
UniRef90_UPI000464A12E D H V L E G M L S Q L G L Q L Q G E I V I P F F P E E G A
UniRef90_UPI000225F178 D H V L E A M L R G L G A R V T P T M T A F A P E G G A
UniRef90_UPI0003624CCB D H V L E E L A E L L G A T L E R H E A P F D P E S S G A
UniRef90_J3HUT4 D H V I K T M L E G L G A R V S E I T A Q F Q P L R G A
UniRef90_UPI00035D7226 D H V L R A M L V G L G A T V A E A H R P F T P E G G A
UniRef90_UPI00025577C0 D H V L E E M L Q L L G L E T R Q C E A V F M P E S S G A
UniRef90_V4YN96 D H V L A D M L R E M H L T V A Q A Q S A F F E P E S S G A
UniRef90_UPI00036EF1D7 D H V L E E L A E R L G A T L R E H H E A P F D P E P G A
UniRef90_B2ID54 D P V I A S M L K N F S A R L R E I E A P F F E P E G G A
UniRef90_H2FUQ2 D H V L E H L A E H L G L R L E R D H V I P F H P E S S G A
UniRef90_A4GJP4 D E V I K K M I L K L G G K V K K V L R P F K P E G G A
UniRef90_K9P8A8 D S V L E D L R R R G L S V E R M S G P F L P E P G A
UniRef90_I4YW12 D H V L V D M L L G L G A K V E I V I E R P F R P V R G A
UniRef90_V8QS10 D T V L K D M L Q Q L G L H T V I V N Q P F N P E Q G A
UniRef90_UPI00034641AD D P V L K E M L E G L R A S V T E E S A P F F E P E
UniRef90_F8J7W2 D H V I E D M V R L L G A S V A M V I E A A F D P E D G A
UniRef90_A5GVV2 D S V L E Q M L R Q R G L Q L D Q Q E A P F C P E G G A
UniRef90_UPI00046A3B3D D P V I G H M L E H L G A K V T E V S E P F T P E G G A
UniRef90_UPI00035E82AF D H V L T E L C E M Y G L T I S D K E A V F F E P E S S G A
UniRef90_UPI00037F2ED6 D H V I K A M L E G L G A S I T D I L A P F F P V R G A
UniRef90_C9Y747 D H V L A D M L R A M H L I V N A V D E A F F E P E N G A
UniRef90_D7A8Z6 D G V L E E M A R G L G A T V E V I E A A F E P
UniRef90_N1MRG3 D H V I N A M L E G L G A T V V K I H A P F T P E
UniRef90_D0LX06 D H V I A D M L S G L G L S P R A L D A P F N P E P G A
UniRef90_F6IF16 D H V I A E M V V G L G G H C Q P V L A P F D P E G G A

UniRef90_A0A024IAD0
UniRef90_O87398
UniRef90_U9VU87
UniRef90_UPI00025589FC
UniRef90_UPI00047CAA70
UniRef90_UPI00020015D0
UniRef90_UPI0003B43395
UniRef90_UPI0003600D47
UniRef90_E1JTD5
UniRef90_M3KE31
UniRef90_UPI000262CCBA
UniRef90_A3Z3N9
UniRef90_UPI0004658115
UniRef90_Q0G3L0
UniRef90_F5XYN2
UniRef90_I9L0W7
UniRef90_D8IY66
UniRef90_A1U4Z7
UniRef90_UPI0002F90098
UniRef90_G0A9Q8
UniRef90_U2Z1F9
UniRef90_C8S0Q9
UniRef90_UPI0003778407
UniRef90_K9GQN6
UniRef90_UPI0003606471
UniRef90_UPI00038146C0
UniRef90_G6YWB9
UniRef90_A3V5C6
UniRef90_X0QZ20
UniRef90_UPI0003B4A4A8
UniRef90_A0A021X6S5
UniRef90_H5WL72
UniRef90_UPI000372F6F9
UniRef90_B5IIQ1
UniRef90_A0A059KPI8
UniRef90_F0JE34
UniRef90_S2LFU0
UniRef90_Q3AVR5
UniRef90_W6K7T4
UniRef90_W7QFQ9
UniRef90_UPI0004735AC4
UniRef90_A1WIM2
UniRef90_UPI00036D0AC2
UniRef90_I4YNA7
UniRef90_A4U4V5
UniRef90_U4V2Q7
UniRef90_Q7U3I7
UniRef90_A2C4R8
UniRef90_A2CDZ7
UniRef90_UPI0003B64E94
UniRef90_K2MRB0
UniRef90_B8EPU8
UniRef90_O06708
UniRef90_Q7V1B2
UniRef90_B0UK83
UniRef90_A3YWX7
UniRef90_E6PMP6
UniRef90_UPI00035C1AB6
UniRef90_I9CNI7
UniRef90_T0YKW7
UniRef90_F7Z6I8
UniRef90_E1VBA3
UniRef90_UPI0002F5E305
UniRef90_UPI0003636BA7
UniRef90_N9Y5G7
UniRef90_B1BU44
UniRef90_W0H178
UniRef90_E8SHS5
UniRef90_B1Z902
UniRef90_UPI0004694E8B
UniRef90_Q07401
UniRef90_UPI0003603AE5
UniRef90_W7Z6J5
UniRef90_M7PB53
UniRef90_I3TLD2
UniRef90_I3TLD2
UniRef90_R7ZFB7
UniRef90_UPI00034C3DCC
UniRef90_E6QCR8
UniRef90_UPI000463BA23
UniRef90_R7X344
UniRef90_UPI00026272C2
UniRef90_UPI000248D6C2
UniRef90_UPI00047EB160
UniRef90_UPI00037B1A4B
UniRef90_B8IH72
UniRef90_M2Y703
UniRef90_Q75TC2
UniRef90_Q733J7
UniRef90_P50049
UniRef90_J4IQ29
UniRef90_I0JR93

1 10 20 30 40

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

UniRef90_A0A024IAD0 D H V L A D M L R A M H L D V A E V S E A F E P E G G A
UniRef90_O87398 D S V L E A M L R S R G L R V S A C E R P F F L P E G G A
UniRef90_U9VU87 D S V L E A M L R N Q L G V M V T V E T V P F F Q P E M G A
UniRef90_UPI00025589FC D R V I A E M L R H L G A R V E A V I E A P F L P E G G A
UniRef90_UPI00047CAA70 D H V L A N M L R A M H L T V R E E V N E A F F E P E S G A
UniRef90_UPI00020015D0 D S V L A E E L R R Q R Q L R V D C L D A P F Q P E A G A
UniRef90_UPI0003B43395 D H V L E E L A E N L G L R L R R E N L P F V P E G G A
UniRef90_UPI0003600D47 D H V I E H M T E H L G G S V T R T T E P F M P L G G A
UniRef90_E1JTD5 D A V L D D M L R G L G F L P E A V H G P F E P E D G A
UniRef90_M3KE31 D H V I K A M L E G L G A K V M D T V E L F S P L R G A
UniRef90_UPI000262CCBA D H V L A D L C R H W G L E V K D F E G S F N P E K G A
UniRef90_A3Z3N9 D S V L A E M L R R R R G L Q V E T G C L P F H P E G G A
UniRef90_UPI0004658115 D S V I A D M V E G L G G I V T R R D L P F D P E N G A
UniRef90_Q0G3L0 D P V I A T M L E G L G A E L R R I E S G F D P E G G A
UniRef90_F5XYN2 D H V L A Q M L R S M H L T V R E A Q L P F E P E G G A
UniRef90_I9L0W7 D H V I A E M I E G L G G H C H Q V T A P F D P E G G A
UniRef90_D8IY66 D P V L K E M L E G L G A R V T E E L A A F E P E A G A
UniRef90_A1U4Z7 D H V L E E L A E R L G A T V V H H T A T F D P E P G A
UniRef90_UPI0002F90098 D S V L Q S M L E Q L G L H V P K S E I S T F Y P E T G A
UniRef90_G0A9Q8 D A V L K E M L Q G L Q A T V T E E Q A A F E P E S
UniRef90_U2Z1F9 D H V I A H M L A H L G A E L R D V T G P F T P E G G A
UniRef90_C8S0Q9 D P V L E A M L A Q L G A A L P M M L A F H P E G G A
UniRef90_UPI0003778407 D D V L A D M L Q M G L Q V E R L A A G F S P E
UniRef90_K9GQN6 D H V I A A M V E G L G A S V T R K T Q P F Q P E
UniRef90_UPI0003606471 D P V L I E M L E Q I G L T V E T V D A L F E P D V G A
UniRef90_UPI00038146C0 D P V L R E L A L K L G A T V T E E M A P F D P E P G A
UniRef90_G6YWB9 D H V L E E L A E R L G A T L T H H T A P F D P E P G A
UniRef90_A3V5C6 E K V M R A M L E Q L G A T V T D V D G P F T P E G G A
UniRef90_X0QZ20 D H V L A Q M L E N L G L H I E S T S V P F F E P E T G A
UniRef90_UPI0003B4A4A8 D K V I E E L I T K L G G K I K K T N E K F C P V G G A
UniRef90_A0A021X6S5 D H V I R E D M L T G L G A A V R D V V E P F H P
UniRef90_H5WL72 D P V L A E M L Q R L H L Q V Q A C E E P F E P E G G A
UniRef90_UPI000372F6F9 D H V I K A M L E G L G A R V K E I V A Q F N P V R G A
UniRef90_B5IIQ1 D P V L A Q L L E H R G L S V T A V E A P F L P E A G A
UniRef90_A0A059KPI8 D H V L A D M L R Q M H L T V T E T Q A A F E P
UniRef90_F0JE34 D P V V D D M L R T M G F A V T A L M G P F H P E A G A
UniRef90_S2LFU0 D H V L E E L A E R L G A R I E H Q Q A P F D P E P G A
UniRef90_Q3AVR5 D S V L A S M L K G R G L V V T Q C R R P F L P E G G A
UniRef90_W6K7T4 D L V M V H M V E G L G G A V S R T T A P F E P E G G A
UniRef90_U7QFQ9 D H V L E E L A E R L G A T L E H H Q A P F D P E P G A
UniRef90_UPI0004735AC4 D Y V I E N M L K N F D V E V K K I M K K F F P E T G A
UniRef90_A1WIM2 D P V L A D M L R A L H L T V Q A D N L P F F P E
UniRef90_UPI00036D0AC2 D P V I K A M L E G L G A Q V A P A V E P F R P V Q G A
UniRef90_I4YNA7 N P A V A E L V R G Q G C T A T P V I E R P F K P E R S A
UniRef90_A4U4V5 D H V L M T L I D G Q G V Q A W R R R A P F Q P E P G A
UniRef90_U4V2Q7 D H V I E H M I E H L G G K V E H V T R P F N P M G G A
UniRef90_Q7U3I7 D A V L A T M L E S R G L Q L S R C Q R P F R P E G G A
UniRef90_A2C4R8 D V V M N K M L E G R G F E I E S F Q R P F F P E T G A
UniRef90_A2CDZ7 D P V L A D L R V R G L A L E S V M E P F Y P E P G A
UniRef90_UPI0003B64E94 D D V L A E M L C Q M G L V E R I I A P F E P E Q G A
UniRef90_K2MRB0 D H V M R D M V E G L G G V V F A E V A P F D P
UniRef90_B8EPU8 D Q V T I E D M L N G L G A D C R K T L R P F S P E Q G A
UniRef90_O06708 D A V L I D M L A Q L G V T A T R L R A V F E P D V G A
UniRef90_Q7V1B2 D Y I I E E L L R N F D V V Y S K V E K K F F P E L G A
UniRef90_B0UK83 D P V V A D L V R G Q G C L A S A V E R P F R P E R
UniRef90_A3YWX7 D G V L E E L I R Q R G L L V E H R L E P F L P E P G A
UniRef90_E6PMP6 D P V L A D M L R R M H L I V T E A L A P F E P E
UniRef90_UPI00035C1AB6 D P L V E A E L V E R G A R I A P V V A A F D P E A D A
UniRef90_I9CNI7 S P A N A E L V R G Q G C T A S P V S R A F R P E R A A
UniRef90_T0YKW7 D H V T A Q L V Q R L G G H V E A V R A V F T P E A G A
UniRef90_F7Z6I8 D Y L V E E L L E G L G I P Y R R E K R
UniRef90_E1VBA3 D H V L E E L A E R L G A R L E R H V A P F D P E P
UniRef90_UPI0002F5E305 D H V I K N L L E S F D A E I K L V N K K F F P E L G A
UniRef90_UPI0003636BA7 D K V I E N L I I K L G G S I K R V K E E F
UniRef90_N9Y5G7 D Y V V E E D L R L R G I D F S R E N
UniRef90_B1BU44 D Y V I E K M L K D M N I K Y S L E N
UniRef90_W0H178 D S V L A T M L E G R G L T V S P C L Q P F A P E G G A
UniRef90_E8SHS5 D Y L V E D L L K G L G I P Y Q R E D R
UniRef90_B1Z902 R A A E L V R G G G C T A T P V N R P F K P E K A A
UniRef90_UPI0004694E8B D H V L E E L A E R L G A T L I H H E A P F D P E P G A
UniRef90_Q07401 D Y L V E E L L Q K L S I P F T R E N R A F R P
UniRef90_UPI0003603AE5 T A A N A E L I R Q G G C A A T S V T R A F K P E R
UniRef90_W7Z6J5 D Y L V E E L L R Q L G I P F K R E D R
UniRef90_M7PB53 D Y L V E D L L K E L G I P Y V R E D R
UniRef90_I3TLD2 E P L V R R I A A A L G L R V L P A A D A F E P E P G A
UniRef90_I3TLD2 E P L V R R I A A A L G L R V L P A A D A F E P E P G A
UniRef90_R7ZFB7 D H T I N P L L D E V G V Q Y E T T E R R F K
UniRef90_UPI00034C3DCC D S T L E V L F K E I G V D Y E R T E E R F K
UniRef90_E6QCR8 D H V L H L L E G L G L Q V M S E T T P F L P D A G A
UniRef90_UPI000463BA23 E S G M A D E L R E L G A Q V R E I A A P F H P
UniRef90_R7X344 D P V L R D M L R L D V D V A E A L M P F E P E A G A
UniRef90_UPI00026272C2 E P A A E H L F Q L G I N Y E V S E R P F T P
UniRef90_UPI000248D6C2 D Y L V E E L L Q E Q G I P F S R E
UniRef90_UPI00047EB160 D Y L V E R L L V E L E V P Y T R E E R
UniRef90_UPI00037B1A4B D Y L I E E M L V Q A D I P Y L R E T Q P F R
UniRef90_B8IH72 D P V V A E L I R G Q G C A S S P V I E R P F R P E R
UniRef90_M2Y703 N N Q V D E N K L A E L G L E V H T E R A L F C P D R D A
UniRef90_Q75TC2 D Y L V E E L L Q Q L A I P Y K R E K R
UniRef90_Q733J7 D Y L V E D L L K K E G V P Y Q K E N R P F K
UniRef90_P50049 D K T L E K L I D E V G V S Y E Q S E R R F K
UniRef90_J4IQ29 D S V L A T M L N G R G L K V T R C C R P F M P E G G A
UniRef90_I0JR93 D Y L I E E L L L D L G V P H K R E N R P F R

UniRef90_Q9KG58
UniRef90_M1ZIG5
UniRef90_UPI00037A6BAB
UniRef90_H3SNI0
UniRef90_A9KJR8
UniRef90_L1Q9G3
UniRef90_UPI00034AEF16
UniRef90_D7E422
UniRef90_C8RX19
UniRef90_UPI00042645E3
UniRef90_W7D517
UniRef90_T0INY5
UniRef90_N4WU78
UniRef90_R6TBK2
UniRef90_K5U6B8
UniRef90_U7V8F5
UniRef90_B1AJ72
UniRef90_UPI000429F10F
UniRef90_R2SG76
UniRef90_UPI0003B65290
UniRef90_M1UT40
UniRef90_UPI000471E3D9
UniRef90_UPI0003801F74
UniRef90_X0PLP2
UniRef90_UPI00037D85FC
UniRef90_UPI00046ABD4A
UniRef90_U7PFE0
UniRef90_A8ESZ9
UniRef90_Q8FQX1
UniRef90_G2FWQ5
UniRef90_C9K309
UniRef90_B7GT18
UniRef90_B1VHT3
UniRef90_A1R1C6
UniRef90_U2GSY0
UniRef90_W5XY48
UniRef90_R5VUG0
UniRef90_UPI000378ED7F
UniRef90_G2JHX2
UniRef90_Q2JK35
UniRef90_M2YCL1
UniRef90_UPI00036245C7
UniRef90_UPI0003B6202C
UniRef90_F1YNE0
UniRef90_F6B8Y0
UniRef90_G2EGF2
UniRef90_K6CHQ9
UniRef90_E6U8Q4
UniRef90_C0XS66
UniRef90_M1NNM9
UniRef90_UPI00041384E7
UniRef90_C5C8U4
UniRef90_UPI0001745DDB
UniRef90_Q55055
UniRef90_Q2JWN9
UniRef90_UPI000417F111
UniRef90_H5WP47
UniRef90_A4QA24
UniRef90_B4D6T5
UniRef90_UPI000478B636
UniRef90_UPI00047B1A19
UniRef90_UPI000365FFB5
UniRef90_D5XB73
UniRef90_T0CA10
UniRef90_UPI000366FE63
UniRef90_H1Y7Y2
UniRef90_UPI000360969F
UniRef90_UPI0003B2E2B9
UniRef90_X2H9Q6
UniRef90_F0T2K0
UniRef90_G8T6K0
UniRef90_H1ZDS9
UniRef90_I0R4T7
UniRef90_Q9X525
UniRef90_UPI00035FA75D
UniRef90_Q9Z3B7
UniRef90_UPI000369F179
UniRef90_A3DGF7
UniRef90_N1ZGQ5
UniRef90_UPI0002D95212
UniRef90_C2GJ42
UniRef90_UPI00037E2751
UniRef90_S0FF10
UniRef90_O54422
UniRef90_B5JQP9
UniRef90_R2LZS1
UniRef90_L1ME11
UniRef90_UPI0003760093
UniRef90_C2FXK5
UniRef90_A5FAD0
UniRef90_T0CNQ2
UniRef90_F7QZ11

UniRef90_Q9KG58 D S T L A A L F N E I G V N Y E Q T E K R F K
UniRef90_M1ZIG5 D E P S V E L L R R L N I P F T I E E Q P F R P
UniRef90_UPI00037A6BAB D E T L E R L F D E V G V K Y E K T E R R F T
UniRef90_H3SNI0 D Y L V E D Q L T Q D G I P F A R E N
UniRef90_A9KJR8 D Y L V E E L L K Q L E V P Y T R E N
UniRef90_L1Q9G3 D A L V E E E L K K D G I N Y S R E N
UniRef90_UPI00034AEF16 D R P L V D W L E A G G I R F E A I E A P F Q P N S V A
UniRef90_D7E422 D P I L Q T M L V K L G L E I K
UniRef90_C8RX19 D K V P E A L M R D L G A Q V T A A R E P F T P D
UniRef90_UPI00042645E3 D Y L V E E L L Q Q K G I P F K R E D R A F R H T T G A
UniRef90_W7D517 D Y L V E N L L K E A G I P F K R E N R
UniRef90_T0INY5 N S V L E D Q L Q K L G F A T Q V E N R P F A P
UniRef90_N4WU78 D Q T L E R L F E E V G V T Y E Q T E H R F K
UniRef90_R6TBK2 D E P T E K H L K N L G F E C E N I I G R F D
UniRef90_K5U6B8 D H V L E E L A L L L G A T L T H H Q A P F D P E S G A
UniRef90_U7V8F5 D K Y L D N T L K E K K C P F D I E
UniRef90_B1AJ72 D Y L V E E Y L Q D N K A L Y E R
UniRef90_UPI000429F10F D P L L E Q L F V S L E V P F V R E E R P F R
UniRef90_R2SG76 D Y L I E H L L G H K E V S F E R K Q H P F R
UniRef90_UPI0003B65290 D S T I P P L L K D I N V T F A N E K R R F N
UniRef90_M1UT40 D S T V V D F L E H Y Q I A Y V R E A A P F R
UniRef90_UPI000471E3D9 D S V I E E F L T S Q K A K F I K T K R
UniRef90_UPI0003801F74 D Y L I A Q W L D E H N I P F T R E N
UniRef90_X0PLP2 D Y L V E K L L Q D Q Q I N F E H
UniRef90_UPI00037D85FC D H T L E S I F T E T G V A Y H E
UniRef90_UPI00046ABD4A D I S L S D I I V A L G V H V K K T R G Y F Q P N G K A
UniRef90_U7PFE0 D Y L V E D L L K S L G I P H S R E D R
UniRef90_A8ESZ9 D I S I A D I L K D C Y A K V E K T K A Y F K P N G K A
UniRef90_Q8FQX1 D N T V V D F L E H Y G V R Y E R
UniRef90_G2FWQ5 N Q V L Q E Q L A K L G L Y P V K E A G A F A P
UniRef90_C9K309 D Y L I E K M L N E M K V S F E R
UniRef90_B7GT18 D H P T M E Y T K K I G F D P R V I E G G F D
UniRef90_B1VHT3 D H T V E D H L K H V D A Q Y S R E D R
UniRef90_A1R1C6 D H T V E D Y L K S V G V P Y D R Q E R P F R
UniRef90_U2GSY0 D H T V E H H L D H V G V S Y E R T E
UniRef90_W5XY48 D H T V E D F L A H H G V A Y S R E S E P F R
UniRef90_R5VUG0 D E P T F S Y L A K L G F E V E E V T E A F T
UniRef90_UPI000378ED7F D P T V V D F L T Q R G V P H E R Q E R P F R
UniRef90_G2HUX2 D I S L S D I I K D C K I K C E K T K G Y F K P N G K A
UniRef90_Q2JK35 D D P L Q D W L A H M G I P F R L E M A V F E P N
UniRef90_M2YCL1 D H T V E D F L V H H G I P F D R Q E R P F R
UniRef90_UPI00036245C7 D D P T K V L L N K L H V Q Y E T Q C R R F Q P
UniRef90_UPI0003B6202C D H T V E D F L K H H N A I Y T R E E R P F R
UniRef90_F1YNE0 D H T V E D Y L R H A G V P F E R A D R P F R
UniRef90_F6B8Y0 D P T I I E L F H K L G F Q V K I E E R R L E
UniRef90_G2EGF2 E K P L E R L L V A S G Y E V T K T H
UniRef90_K6CHQ9 D Y
UniRef90_E6U8Q4 D E P T E Q H L V K L G F L P E R A E C I F R
UniRef90_C0XS66 D H T V E D F L A H H G V A Y E R R E R P F R
UniRef90_M1NNM9 D H T V E D F L E Q Q E I P Y A R Q R R P F R
UniRef90_UPI00041384E7 H P V L E N L F N S L N I A F R E L D R P F
UniRef90_C5C8U4 D H T V E D F L R A H D V P H R E R Q E R P F R
UniRef90_UPI0001745DDB D S A I T Q L F E R E K W K V V E A M A I F N P
UniRef90_Q55055 D P V V E Q V L T Q K E I A Y T I E E
UniRef90_Q2JWN9 D A A L E E R L R N L G L V V V R E M R S F
UniRef90_UPI000417F111 D H T V V D H L I H V G V P Y T R Q D R P F R
UniRef90_H5WP47 D A A L A Q R L R Q Q H L I V S D A M A G F D P D T G
UniRef90_A4QA24 D H T V V S F L D D H I E Y Q R T E
UniRef90_B4D6T5 D P A V R Q L F E R E G I I Y S A C K R V F H P L S G
UniRef90_UPI000478B636 D H T I A A Y L T E R G V P F E R V E R A
UniRef90_UPI00047B1A19 D E P L F K L L E K K G F K P N K T M Q
UniRef90_UPI000365FFB5 D H T V E H F L D H A G T E Y T R E D R
UniRef90_D5XB73 D Q T I V E L F E R L N I P V K I E R R R L E P E S
UniRef90_T0CA10 H P L L E S L F Q G M D I E C A R V E Q P F
UniRef90_UPI000366FE63 E H S T G Q A L D E A G I A Y T R T T A P
UniRef90_H1Y7Y2 D A P L F R L I A S S G Y Q V E K G E R
UniRef90_UPI000360969F D H T A E A F L Q G A G V R F A R V E R
UniRef90_UPI0003B2E2B9 D H T V E D F L T E Y D I P A T R E Q R
UniRef90_X2H9Q6 D K P L F E W L Q A A G F A P T R Q Q R
UniRef90_F0T2K0 E G P V F A L L E A G G Y R P E R I M
UniRef90_G8T6K0 D M P L F R L L S S Q G Y A I K H
UniRef90_H1ZDS9 E R P M Q D W L T S K G Y Q P K V E Q
UniRef90_I0R4T7 D S V V A K N L E K S N V E F K V E E
UniRef90_Q9X525 D K V V I K M L D K H D I N Y E
UniRef90_UPI00035FA75D D P M V R Q I L A G M D V Q I E E V T Q P F
UniRef90_Q9Z3B7 D H T A E H Y L E H L G V R H A R M E R
UniRef90_UPI000369F179 D H T V E H Y L D H A G A P Y T R
UniRef90_A3DGF7 D E P L M Q A L I K C G L S
UniRef90_N1ZGQ5 D P V V V K T L D Q K Q V E Y T V E K A
UniRef90_UPI0002D95212 D E P L M R L L E K E G F K P E
UniRef90_C2GJ42 D H T V E H F L D H M E T N Y E R
UniRef90_UPI00037E2751 E H P M F R W L E A S G Y Q P R K E T
UniRef90_S0FF10 D P P L L E A L K K C G
UniRef90_O54422 D K P M F E W L Q A A G
UniRef90_B5JQP9 D P A V R Q L L D R N E I P Y Q E A R Q V F Q P A T A A
UniRef90_R2LZS1 D P V V L N V L N H K H V E Y K T E
UniRef90_L1ME11 D H T V E
UniRef90_UPI0003760093 D A S L E Q L I R Q L G L A Y E K
UniRef90_C2FXK5 E D P L Y R L L V K Q G Y Q T V I E D R
UniRef90_A5FAD0 E E P L F K W L S A S G Y H T E K V
UniRef90_T0CNQ2 D E P M K I M L E K L G V S V E E K E V K F D F E
UniRef90_F7QZ11 D K V V N T L D K R H A D Y E

UniRef90_K6U216 N E P M K V M L E K L G L K V E K 50 60
 UniRef90_UPI00040AFBCA E M P M F R W L E V S G F K P E
 UniRef90_UPI00037301E1 D A P L F R L L T A S G Y T V A Q Q Q R
 UniRef90_W1WK30 D E P M K H M L E H L G V K V E A K M
 UniRef90_I0ES16 D K P M L A L L E K L G I Q
 UniRef90_UPI0002EF04D9 E E F L K S L A D S L S V S Y S L E E R
 UniRef90_D5EM15 D L A V E Q M L E R E H I H Y H R V T R V F Q P
 UniRef90_UPI0003613CEF L H T L R R S L D K L G I P Y Q Q K N D L F

