

QUERY UniRef90_UPI000329B94F UniRef90_B4VX36 UniRef90_UPI0003B629A8 UniRef90_BOJQ77 UniRef90_UPI00036E9F18 UniRef90_UPI00038193DA UniRef90_UPI000313FC16 UniRef90_UPI0002F03C5C UniRef90_UPI0004727930 UniRef90_G2KNF4 UniRef90_UPI00040CF4B8 UniRef90_B3QX58 UniRef90_K9Z7N6 UniRef90_K9TK00 UniRef90_A3UCG8 UniRef90_E0MJF5 UniRef90_R9NJU2 UniRef90_N1R6H6 UniRef90_S3DCM4 UniRef90_N9BFP9 UniRef90_K9ZDA1 UniRef90_D4TG01 UniRef90_H5V327 UniRef90_K6GGV0 UniRef90_Q0FZR4 UniRef90_U2ZPN1 UniRef90_C6AW73 UniRef90_H0U088 UniRef90_B8H5A8 UniRef90_R9ZJX8 UniRef90_K9VVP6 UniRef90_U6BBR1 UniRef90_Q0APK4 UniRef90_C1DEU6 UniRef90_U5DJJ2 UniRef90_J4WYU0 UniRef90_U1GFH9 UniRef90_R7YZA6 UniRef90_N2JJ19 UniRef90_C6XKE1 UniRef90_X5UUP0 UniRef90_H8FVZ1 UniRef90_A4CT51 UniRef90_A4A8B3 UniRef90_B1MZR3 UniRef90_UPI0003F4EB3D UniRef90_A0A010TEM2 UniRef90_S0LBQ2 UniRef90_N9RLJ5 UniRef90_D8JEX7 UniRef90_K7SBQ6 UniRef90_H3RAR1 UniRef90_K2N8T7 UniRef90_D0Z2F3 UniRef90_L5NDT5 UniRef90_UPI00035E8A90 UniRef90_S5K6M1 UniRef90_V6MFG4 UniRef90_U4KEH4 UniRef90_U1PI33 UniRef90_R4YNG8 UniRef90_UPI0002EFCCB2 UniRef90_K9FZM3 UniRef90_A5GQG9 UniRef90_G3J7N1 UniRef90_UPI00046D8263 UniRef90_N8WSW7 UniRef90_Q12KA9 UniRef90_A9R3X8 UniRef90_W0SB06 UniRef90_UPI00040DDDFB UniRef90_E8M373 UniRef90_UPI0003A25658 UniRef90_UPI0002F1CF30 UniRef90_D0SM79 UniRef90_A9BJX3 UniRef90_J2B243 UniRef90_N9B9T8 UniRef90_D3NVZ9 UniRef90_R0KB35 UniRef90_UPI000407A062 UniRef90_A7HQF3 UniRef90_D4GXR7 UniRef90_E3BJG1 UniRef90_W7Z4W0 UniRef90_E0TD72 UniRef90_UPI00047CC664 UniRef90_UPI000376AEEA UniRef90_UPI00037BB923 UniRef90_UPI00045EA658 UniRef90_C6HVX5

1 P V E P G E T A A A 10 R R L L Q E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S 40
UniRef90_UPI000329B94F F P G D E N A A A L A R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_B4VX36 L E P A G E K A A A K Q H R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_UPI0003B629A8 W P A G E Q A A A Q H R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_BOJQ77 P L T P G E K A A A H S R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_UPI00036E9F18 L E P A G E K A A P Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_UPI00038193DA W T P G E T A A A R D R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_UPI000313FC16 E P G E V A A L E R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_UPI0002F03C5C P G E K A A A E E R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_UPI0004727930 F P A G E D A A A L Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_G2KNF4 W T P G E H G A R E R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_UPI00040CF4B8 W Q P G E Q G A A L Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_B3QX58 V Q G G E P K G L K R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_K9Z7N6 P L S P G E E S A L E R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_K9TK00 L E P A G E S A A A R S Q L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_A3UCG8 W T P G E S A A A H S R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_E0MJF5 W P A G E S A A A Q T R A R A F M S D D L D V Y D S A R D D L P A A E A G T S G R L S S S
UniRef90_R9NJU2 F P A G E A A A L K R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_N1R6H6 W P C A G E H E A K K R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_S3DCM4 W P A G E H E A H S R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_N9BFP9 W P V G E K A A A H K R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_K9ZDA1 E P G E A A A Q E R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_D4TG01 L E P G E V A A W E R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_H5V327 F P V G E K A A A L S R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_K6GGV0 W P A G E D A A A A R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_Q0FZR4 W T P G E K A A A H D R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_U2ZPN1 W P A G E D A A L R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_C6AW73 W T P G E E G A Q Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_H0U088 W Q P G E A A A Q Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_B8H5A8 W T P G E A G A H A R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_R9ZJX8 W P A G E E V A Q Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_K9VVP6 E P G E D A A Q Q K L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_U6BBR1 F Y P G E K Q A A K Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_Q0APK4 W E P G E D G A L N R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_C1DEU6 W P A G E I A A Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_U5DJJ2 P L A P G T R A A H K R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_J4WYU0 W E L G E E G A K K L L K N F L K N K V K R Y S E S R N D F P A A E A G T S G R L S S S
UniRef90_U1GFH9 W P P G E H E A A Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_R7YZA6 W P A G E H E A L M R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_N2JJ19 W P A G E N E A H A R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_C6XKE1 W V P G E A G A F E R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_X5UUP0 W T P G E A G A W Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_H8FVZ1 W Q P G E A G A E A R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_A4CT51 P C R P G E V A A V D Q L A V I F A D D G P L L G Y E P D R N D F P A A E A G T S G R L S S S
UniRef90_A4A8B3 W T P G E D G A Q Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_B1MZR3 W P G E A K A L Q T L K D F L I E S H L S E Y D T Q R D L P A A E A G T S G R L S S S
UniRef90_UPI0003F4EB3D W T P G E S G A Q K R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_A0A010TEM2 W P A G E E A H R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_S0LBQ2 W P G E E A A Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_N9RLJ5 W Q V G E A H A L M L L D Q F I D E H L A A Y K T A R D L P A A E A G T S G R L S S S
UniRef90_D8JEX7 W P T G E G F A L E Q L D V F I E N H L A S D Y K L E R D F P A A E A G T S G R L S S S
UniRef90_K7SBQ6 W E P G E R E A H E H L E D F L R H H C A R Y G K G R D E M G R S E A T S S R L S S S
UniRef90_H3RAR1 F P A G E Q A A K R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_K2N8T7 W T P G E T G A H K R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_D0Z2F3 L Q H L R L E A S F L C C D D K V G V Y H Q Q R D Y P A A E A G T S G R L S S S
UniRef90_L5NDT5 W P A G E A D A W A R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_UPI00035E8A90 W P A G E E S A L N R L K G F L E K V S N Y S K D R N D F P A A E A G T S G R L S S S
UniRef90_S5K6M1 G E R A A N T R L A N F L I E K H V A D Y D K A R D F P A A E A G T S G R L S S S
UniRef90_V6MFG4 E E E A L K R L K H F C C R E S A S Q Y K D D R D L P A A E A G T S G R L S S S
UniRef90_U4KEH4 E R A R E R L E A F C C E D D Y R Y G E R R D Y P A A E A G T S G R L S S S
UniRef90_U1PI33 W P L G E D E A H D R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_R4YNG8 W E P G E K H A H R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_UPI0002EFCCB2 Y P A G E H E A L Q R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_K9FZM3 P C R P G E T A A L E Q L E H F A A R A M E H Y C E G R N D F P A A E A G T S G R L S S S
UniRef90_A5GQG9 W P C G E H E A K A R L D K F C E E R L G E Y S E K R N V P A A E A G T S G R L S S S
UniRef90_G3J7N1 W T P G E Q A A E R L K K F V E H A L A G Y K A E R D F P A A E A G T S G R L S S S
UniRef90_UPI00046D8263 W P G E A A L D L L D D F I E D K M A H Y K T D R D L P A A E A G T S G R L S S S
UniRef90_N8WSW7 W Q A G E G A A K R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_Q12KA9 F P A G E D A A L Q R R L R R E E F F C D R A A D Y D P Q R N D F P A A E A G T S G R L S S S
UniRef90_A9R3X8 V P T G M S G A Q A L F R D F I E R I D D Y A A T R D F P A A E A G T S G R L S S S
UniRef90_W0SB06 W P A G E D A A L E Q L R S F I E E I L A A Y K T K R D F P A A E A G T S G R L S S S
UniRef90_UPI00040DDDFB W P A G E D A A L E Q L R S F I E E I L A A Y K T K R D F P A A E A G T S G R L S S S
UniRef90_E8M373 W P A G E D A A L E Q L R S F I E E I L A A Y K T K R D F P A A E A G T S G R L S S S
UniRef90_UPI0003A25658 H P G E A A A H E V W E K F L D G G L D G Y A V N R D R P A A E A G T S G R L S S S
UniRef90_UPI0002F1CF30 W P A G E N V A Q E R L M R F S S E Q I H Y Y K A D E R D F P A A E A G T S G R L S S S
UniRef90_D0SM79 W R V G E K H A R N L N N Q F V S E K R I I Q Y N A L R D Y P A A E A G T S G R L S S S
UniRef90_A9BJX3 L K G G R K E G L S Y I E R L V E K L K N Y S E T R N T P S I L D G T T K L S S S
UniRef90_J2B243 W T P G E A A A Q E K L S A F V E D G L S G Y S A D R D F P A A E A G T S G R L S S S
UniRef90_N9B9T8 W A V T E Q H A A Q L L D D F T R E Q M Q D Y Q Q Q R D F P A A E A G T S G R L S S S
UniRef90_D3NVZ9 W V P G E T A A L S H L A D D F L D G P V G V Y A T E R D R P A A E A G T S G R L S S S
UniRef90_R0KB35 W P A G E S A A L D R V E R F L D T E K V V G Y R D T R N F P A A E A G T S G R L S S S
UniRef90_UPI000407A062 W T P G E V T A Q E R L Q D F L D N D I A N Y A S L R D R P A A E A G T S G R L S S S
UniRef90_A7HQF3 W Q P G E R A A Q S R L A A F I D D A M V G Y R E A R D L P A A E A G T S G R L S S S
UniRef90_D4GXR7 P A G T E A A R E R L S A F C A D A I Y R Y A D D R D Y P A A E A G T S G R L S S S
UniRef90_E3BJG1 T E V I Q A L R E F E A K V K L Y A E N R D Y P A A E A G T S G R L S S S
UniRef90_W7Z4W0 A G E A S A Y E Q L E S F I E N D L A T Y H V N R D L P A A E A G T S G R L S S S
UniRef90_E0TD72 W T P G E K G A R A R L R A W F L Q D T D A A S Y D D D R N R P A A E A G T S G R L S S S
UniRef90_UPI00047CC664 I R P G M A G A R A A W A D F Q D R L G R Y K A L R D F P A A E A G T S G R L S S S
UniRef90_UPI000376AEEA I P T G E S G A Q A L L H D F L T R I L D A Y E D T R N F P A A E A G T S G R L S S S
UniRef90_UPI00037BB923 W Q P G E Q G A L A N L D L F L E Y L S G Y K E T H R N E P A A E A G T S G R L S S S
UniRef90_UPI00045EA658 W S V G E A A R E R L S A F I A H G L K G Y A T G R D R P A A E A G T S G R L S S S
UniRef90_C6HVX5 F E P G E A G A M H C L R S E F L E N S L A G Y A S R R D Y P A A E A G T S G R L S S S

QUERY UniRef90_UPI000329B94F UniRef90_B4VX36 UniRef90_UPI0003B629A8 UniRef90_BOJQ77 UniRef90_UPI00036E9F18 UniRef90_UPI00038193DA UniRef90_UPI000313FC16 UniRef90_UPI0002F03C5C UniRef90_UPI0004727930 UniRef90_G2KNF4 UniRef90_UPI00040CF4B8 UniRef90_B3QX58 UniRef90_K9Z7N6 UniRef90_K9TK00 UniRef90_A3UCG8 UniRef90_E0MJF5 UniRef90_R9NJU2 UniRef90_N1R6H6 UniRef90_S3DCM4 UniRef90_N9BFP9 UniRef90_K9ZDA1 UniRef90_D4TG01 UniRef90_H5V327 UniRef90_K6GGV0 UniRef90_Q0FZR4 UniRef90_U2ZPN1 UniRef90_C6AW73 UniRef90_H0U088 UniRef90_B8H5A8 UniRef90_R9ZJX8 UniRef90_K9VVP6 UniRef90_U6BBR1 UniRef90_Q0APK4 UniRef90_C1DEU6 UniRef90_U5DJJ2 UniRef90_J4WYU0 UniRef90_U1GFH9 UniRef90_R7YZA6 UniRef90_N2J19 UniRef90_C6XKE1 UniRef90_X5UUP0 UniRef90_H8FVZ1 UniRef90_A4CT51 UniRef90_A4A8B3 UniRef90_B1MZR3 UniRef90_UPI0003F4EB3D UniRef90_A0A010TEM2 UniRef90_S0LBQ2 UniRef90_N9RLJ5 UniRef90_D8JEX7 UniRef90_K7SBQ6 UniRef90_H3RAR1 UniRef90_K2N8T7 UniRef90_D0Z2F3 UniRef90_L5NDT5 UniRef90_UPI00035E8A90 UniRef90_S5K6M1 UniRef90_V6MFG4 UniRef90_U4KEH4 UniRef90_U1PI33 UniRef90_R4YNG8 UniRef90_UPI0002EFCCB2 UniRef90_K9FZM3 UniRef90_A5GQG9 UniRef90_G3J7N1 UniRef90_UPI00046D8263 UniRef90_N8WSW7 UniRef90_Q12KA9 UniRef90_A9R3X8 UniRef90_W0SB06 UniRef90_UPI00040DDDFB UniRef90_E8M373 UniRef90_UPI0003A25658 UniRef90_UPI0002F1CF30 UniRef90_D0SM79 UniRef90_A9BJX3 UniRef90_J2B243 UniRef90_N9B9T8 UniRef90_D3NVZ9 UniRef90_R0KB35 UniRef90_UPI000407A062 UniRef90_A7HQF3 UniRef90_D4GXR7 UniRef90_E3BJG1 UniRef90_W7Z4W0 UniRef90_E0TD72 UniRef90_UPI00047CC664 UniRef90_UPI000376AEEA UniRef90_UPI00037BB923 UniRef90_UPI00045EA658 UniRef90_C6HVX5

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

QUERY A W R E F F Y Q H A L Y H F P S L A D G P Y R S L W Q Q F P W E N R E A L F T A W 120
UniRef90_UPI000329B94F I W R E F F Y R H L M T Y H P E L K H R G P F R G W T D G V K W S D N N K S H L E A W
UniRef90_B4VX36 A W R E F F Y Q H A L Y G F Y P E L A S R R A P F R D T E F E F P W D N N K S H L E Q A W
UniRef90_UPI0003B629A8 L W R E F F Y K H I L V G Y F P K V L S R R A F F K P D T E F L J A W R H S P K D L L J A W
UniRef90_BOJQ77 A W R E F F Y Q H C L Y F F P E L A V G A Y R K D E F R H F P W Q D N N E E H F Q A W
UniRef90_UPI00036E9F18 A W R E F F Y Q H A M Y F F P E L A A N G R A P Y R D Q Q F K D A F F P W Q D N N E E Y F Q A W
UniRef90_UPI00038193DA G W R E F F C R H L L F D V P D M A D R N L Q L Q F D F P W K R N N A L A L E A W
UniRef90_UPI000313FC16 A W R E F F Y Q H A M Y H F P E L A E G A F R E T F K D A F F P W Q T N N E Q Y Y Q A W
UniRef90_UPI0002F03C5C A W R E F F Y Q H A L Y F F P E L A E G P Y R E A F W Q D F P W D N N E D H F Q A W
UniRef90_UPI0004727930 V W R E F F Y R H L L V A Y P K C R H K P F J A W T D N V R W S G D A D H L A A W
UniRef90_G2KNF4 G W R E F F S Y S L L L Y T H P D L P T Q P L Q H K F A G A F P W D K N D K A L L R A W
UniRef90_UPI00040CF4B8 A W R E F F Y Q H L L F N L P K I E K R E E F E N A F K W R G N A A E L L K A W
UniRef90_B3QX58 I W R E F F Y Q H L L D H F P H V I E K H S F K P E F E N L K W E N N E E V F F E A W
UniRef90_K9Z7N6 A W R E F F Y Q H C L Y F F P Q L A E G A Y R E Q F K D F F P W E N N E E K K F Q A W
UniRef90_K9TK00 A W R E F F Y Q Q A L L Y H F P E L A T A G P Y R D T W K D F F P W E N N E E K L F H A W
UniRef90_A3UCG8 A W R E F F S Y N L L Y H F P D L P E A N F Q S K F D A F F W E D C E D K L K A W
UniRef90_E0MJF5 V W R E F F S Y H L L Q E W P D L A N E N F N T K Y D S F P W R S D D D E Q L L R A W
UniRef90_R9NJU2 I W R E F F Y R H L L V A W P S Y C M N K P F G W T E K V I K W S Q D N G R H L E A W
UniRef90_N1R6H6 A W R D F F Y K H V L V H W P Y C M N K P F K P E Y T N I N W E Y D D A N F T A W
UniRef90_S3DCM4 A W R D F F Y K H V L A H W P Y C M N K P F K P E Y T N I N W E Y D D A N F T A W
UniRef90_N9BFP9 L W R E F F Y Q Q L M F Y F P K S R H G A F Q D D Q T K T P W K D N D A H F K A W
UniRef90_K9ZDA1 A W R E F F Y Q H A M Y F F P E L A D G A Y R D S F K S F P W Q N N E K H F Q A W
UniRef90_D4TG01 A W R E F F Y Q H A M Y H F P E L A E G A Y R D V F K N F P W S D N D Q E H F Q A W
UniRef90_H5V327 L W R E F F Y R H I L J A Y W P A C R Y K A F P W T E R S V I Q W N Q D N A Q L A A W
UniRef90_K6GGV0 V W R E F F Y L N I M H S F P K V L S R N K P F D Y T D S V I K W S Y D N D E L K A F
UniRef90_Q0FZR4 V W R D F F N Y H L L F H F G P L A D K N F N D R E F D N F S W R S S K K D L L K A W
UniRef90_U2ZPN1 L W R E F F Y K H I L L V G Y P R V L S R H A N F R L E T E A V P W R D A P K D L E A W
UniRef90_C6AW73 A W R E F F S Y H I L L F H F P R L L A S A N W N D R F D G F F E W R N N S P G D F E A W
UniRef90_HOU088 G W R E F F S R Q L L L Y D R P D L A T C N L Q T S F D D D F F P W R D D A P A L A S W
UniRef90_B8H5A8 G W R E F F N H S I L L Y N W P H M P S A N F K P E E T E A G F P W V K A G A L E A W
UniRef90_R9ZJX8 L W R E F F Y K H I L L V G Y P R V R H R P F R E E T E A L R W R Q A P A E L E A W
UniRef90_K9V RP6 A W R E F F Y Q H A M Y N F P E L A D G A P Y R Q A F K D F P W E N D E E K L F Q A W
UniRef90_U6BBR1 I W R E F F Y Y M I L M H S F E S K R D E A V N T Q Y R E E W E K S N E G F K A W
UniRef90_Q0APK4 G W R D F A Y L L A H H F G S L R D Q A F N R Q F D H F P W R S N P A G L D A W
UniRef90_C1DEU6 L W R E F F Y K H I L L A G H P R V L S M R A L R T E T E A L P W R D A P Q E L A A W
UniRef90_U5DJJ2 A W R E F F Y Q H A L Y F F P E L A D G P Y R E P F T N H F P W D D D E D R S F Q A W
UniRef90_J4WYU0 V W R E F F Y R N I M H S F P K V L S K K P F Q E Y T D N I N W R Y D N E S F Q A W
UniRef90_U1GFH9 A W R D F F Y K H V L A H W P Y C M S K S F K P E Y T D I H W E Y N A E H F Q A W
UniRef90_R7YZA6 A W R D F F Y K H V L A H W P Y I W H K A F F K Y E Y T N I E W E Y N D A H F D A W
UniRef90_N2JJ19 L W R E F F Y K H I L L V G Y P H V L S M R A F H R H T E A L P W R R D T D D L D A W
UniRef90_C6XKE1 G W R E F F S H S I L L F Y A D N L S Q T N W K S D F D G F A W V Q D E N G L T A W
UniRef90_X5UUP0 G W R E F F S Y H L L F H N P H L H K Q P E F R P E F E G F P W R D R Q A T K A W
UniRef90_H8FVZ1 G W R E F F C A H L L L F T V P D L P E Q P L R G E F A A F P W R D D P E L L V A W
UniRef90_A4CT51 A W R E F F Y Q Q A L L F H F P E L A D G P Y R E Q W R R F F P W E N N E D W F D F W
UniRef90_A4A8B3 G W R E F F S Y H L L H F F P E L A T P E K A F K E N F A D F P W D K T R L E R W
UniRef90_B1MZR3 A W R D Y Y N M I Y A M N P Q Q N T Q S L R P E F A Q K I A W R N N H N D F L L W
UniRef90_UPI0003F4EB3D A W R E F F N Y H V L Y H R P D V A T K N L Q G R F D S L A P W D P P R A E L D A W
UniRef90_A0A010TEM2 L W R E F F Y K H I L L V G Y P R V R H R A F R P E T E A L A W R D A P D E L A A W
UniRef90_S0LBQ2 C W R D F F Y N M I F T K H P R V Q Q N E P I Q A Q F R F I L Q W E N D K E K F K A W
UniRef90_N9RLJ5 L W R E F F Y Q H I L L F D F P K V K H Q P F Q S Q T Q K I N W R D D P I S L E K W
UniRef90_D8JEX7 L W R E F F Y Q H I L L F D F P H V L S K H P F K K D Q K K I K W N H N S E H L T A W
UniRef90_K7SBQ6 G W R E F F A K Y T L L F H Q P R L P D H V S L G Q K F G K M P W R K N S E Q D L T A W
UniRef90_H3RAR1 I W R E F F Y R H L I V A F P R C K H Q P F V H W T R H V A W Q R N E A H F D A W
UniRef90_K2N8T7 G W R E F F C W H L L F H N P Q L A A K N F N S D F D A F P W N R D D D G A L Q A W
UniRef90_D0Z2F3 I W R E F F Y H H L L M A E Y H Q H C K G Q P F Q A Y T Q Y V T W N E D S H Y L K A W
UniRef90_L5NDT5 A W R D F F Y N M I Y H F Y P N A H D E E V V E K Y Q G I P W N N D E D V L E R W
UniRef90_UPI00035E8A90 V W R E F F Y R N I M F S F P K V R N E P F Q D F S K S I Q W R F E E T E L H A W
UniRef90_S5K6M1 C W R D F F Y N M I Y V S F P N Q K N E P I Q E N Y R F I Q E W N N E E Y F K A W
UniRef90_V6MFG4 I W R E F F Y Q H L I V A N P N C K H I A F Q L W T E K I N W R N S Q D E F T A W
UniRef90_U4KEH4 I W R E F F Y Q H L L E F E P K L V S K G P F V D W S L D L E W H N D E D W L T R W
UniRef90_U1PI33 A W R E F F Y T Q V L W D R P D L V V T N N Y K S Y E N E I Q W R D D P E A I Q A W
UniRef90_R4YNG8 V W R E F F Y R H I L V A F P K C K G K P F K D L T D N L P W K A D N Q D F Q A W
UniRef90_UPI0002EFCCB2 A W R D F A Y Q Q L A V Y P D A K T K P L K R N F N Q F P W L Q D R Q L F D A W
UniRef90_K9FZM3 A W R D F F Y K H V L V N W P F C M N K C F K P E H T N E W E Y D K D L F Q A W
UniRef90_A5GQG9 A W R E F F Y Q Q A L L F H F P E L A D G P Y R P Q W R Q F P W E D D P V R L K A W
UniRef90_G3J7N1 A W R D F F Y R H V L F R W P D C M N K P Y K P D Y A D F E W S Y D N T E H F K A W
UniRef90_UPI00046D8263 A W R E F F S Y N L L F H N P D L G R Q N L D R R F D G F R W L D N T E F F H R W
UniRef90_N8WSW7 L W R E F F Y L Q T L F D F P R V K H Q P F K Q N T H K I Q W R N A P E D L V A W
UniRef90_Q12KA9 M W R E F F Y R H L L V A F P R S M G H N F N A L G D G I K W R N S D K A E F N A W
UniRef90_A9R3X8 I W R E F F Y R H L L V A Y P R C Q H H P F L G W T D G L V W N R S E S Q L K A W
UniRef90_W0SB06 I W R D F F Y H A I L W H Q P R V A T Q C F K P A F D A L R W D D A P D L L D A W
UniRef90_UPI00040DDDFB V W R E F F A Y Q M L V H F P L T V N K P L N Q N F E K F P W L N N E E H Y Q K W
UniRef90_E8M373 I W R E F F Y Q H L L Y F F P K L V S R E S F L P W G V H L R W E N C P R R I K A W
UniRef90_UPI0003A25658 A W R E F F Y A D V L H H R P E T A R K N Y D E R F D K L E Y D T G R E C F E R W
UniRef90_UPI0002F1CF30 I W R E F F Y K H I L L V G Y P R V R H R A F K A P E T E F V P W R N A P R E L A A W
UniRef90_D0SM79 L W R E F F Y Q H I L L F D F P Q V S K H P F K A A T Q N V Q W R D D S E G F E K W
UniRef90_A9BJX3 H W R D F F T H I L L Y H F P H V L G N S F K E K Y N Q L Q W E N D V D K F K A W
UniRef90_J2B243 A W R E F F S Y H L L F H F P E L A R D N W N D S F A D G F G W R E D E D G F H A W
UniRef90_N9B9T8 L W R E F F Y Q H I L L F D Y P K V K H R P F K D Q T A Q V A W R N D P A G L A A W
UniRef90_D3NVZ9 G W R E F F Q Y H L L H H A P E L P E R P L D P R F A D F P W R E D A A G L Q A W
UniRef90_R0KB35 A W R D F F Y R H V L V N W P Y C M N K P F K Y E Y R N E W E Y N D A H F E A W
UniRef90_UPI000407A062 G W R E F F S R H L L F D L P Q L A E K N L Q P S F D A F P W R N D R K A L R A W
UniRef90_A7HQF3 A W R D F A H H L L F H W P D I A E R N W K S Q F D A F P W K E D T A A F T A W
UniRef90_D4GXR7 A W R E F F Y A H V L R G H P N V V T E N Y K E Y E E D I A W R D D D E E L A A W
UniRef90_E3BJG1 I W R E F F Y Q H V L Y F E P N S K G E S F N P W G E H L R W E N S Q V F L E A W
UniRef90_W7Z4W0 A W R D F F Y N M I Y A N Y P N S K N E E I Q S N Y R D L N W R K D H D Q L K A W
UniRef90_E0TD72 A W R E F F S Y Q L L Y Y H P T M R D Q P L M E K F T D F E W D T D K K A L N A W
UniRef90_UPI00047CC664 V W R D F F Y F M L L D H F P H V E G A S F K P E F D A L V W D D W P E G L A A W
UniRef90_UPI000376AEEA I W R D F F Y V Q V L H N F A H V G H Q S F K P D Y D A I H W P H A H K L F D A W
UniRef90_UPI00037BB923 G W R E F F S Y Q L L Y H F P Q L L M E A N F K P Q F D A F P W Q N D E E G L R L A W
UniRef90_UPI00045EA658 Y W R E F F S Y H L L A E E P D I A R R N I Q P S F D A F P W R E C E S G E L K A W
UniRef90_C6HVX5 G W R E F F S A H L L F F H P E M L V D P L K K E W A T M E W T S D E A G F L A W

QUERY
UniRef90_UPI000329B94F
UniRef90_B4VX36
UniRef90_UPI0003B629A8
UniRef90_BOJQ77
UniRef90_UPI00036E9F18
UniRef90_UPI00038193DA
UniRef90_UPI000313FC16
UniRef90_UPI0002F03C5C
UniRef90_UPI0004727930
UniRef90_G2KNF4
UniRef90_UPI00040CF4B8
UniRef90_B3QX58
UniRef90_K9Z7N6
UniRef90_K9TK00
UniRef90_A3UCG8
UniRef90_E0MJF5
UniRef90_R9NJU2
UniRef90_N1R6H6
UniRef90_S3DCM4
UniRef90_N9BFP9
UniRef90_K9ZDA1
UniRef90_D4TG01
UniRef90_H5V327
UniRef90_K6GGV0
UniRef90_Q0FZR4
UniRef90_U2ZPN1
UniRef90_C6AW73
UniRef90_H0U088
UniRef90_B8H5A8
UniRef90_R9ZJX8
UniRef90_K9VVP6
UniRef90_U6BBR1
UniRef90_Q0APK4
UniRef90_C1DEU6
UniRef90_U5DJJ2
UniRef90_J4WYU0
UniRef90_U1GFH9
UniRef90_R7YZA6
UniRef90_N2JJ19
UniRef90_C6XKE1
UniRef90_X5UUP0
UniRef90_H8FVZ1
UniRef90_A4ACT51
UniRef90_A4A8B3
UniRef90_B1MZR3
UniRef90_UPI0003F4EB3D
UniRef90_A0A010TEM2
UniRef90_S0LBQ2
UniRef90_N9RLJ5
UniRef90_D8JEX7
UniRef90_K7SBQ6
UniRef90_H3RAR1
UniRef90_K2N8T7
UniRef90_D0Z2F3
UniRef90_L5NDT5
UniRef90_UPI00035E8A90
UniRef90_S5K6M1
UniRef90_V6MFG4
UniRef90_U4KEH4
UniRef90_U1PI33
UniRef90_R4YNG8
UniRef90_UPI0002EFCCB2
UniRef90_K9FZM3
UniRef90_A5GQG9
UniRef90_G3J7N1
UniRef90_UPI00046D8263
UniRef90_N8WSW7
UniRef90_Q12KA9
UniRef90_A9R3X8
UniRef90_W0SB06
UniRef90_UPI00040DDDFB
UniRef90_E8M373
UniRef90_UPI0003A25658
UniRef90_UPI0002F1CF30
UniRef90_D0SM79
UniRef90_A9BJX3
UniRef90_J2B243
UniRef90_N9B9T8
UniRef90_D3NVZ9
UniRef90_R0KB35
UniRef90_UPI000407A062
UniRef90_A7HQF3
UniRef90_D4GXR7
UniRef90_E3BJG1
UniRef90_W7Z4W0
UniRef90_E0TD72
UniRef90_UPI00047CC664
UniRef90_UPI000376AEEA
UniRef90_UPI00037BB923
UniRef90_UPI00045EA658
UniRef90_C6HVV5

250
260
270

IERRGGYPAPPIVVDHNGELRQKQFKALY NQLKAAI
DKRLDYPPEPIVVDHKKRKAATLAA YEAAARKA
DESGADYPEPIVVDHKKRKAATLAA YEAAARKA
FGETADYPKPIVVDHKKRKAATLAA YEAAARKA
LERHGYPEPIVVDHKKRKAATLAA YEAAARKA
LDREGYPPQPIVVDHKKRKAATLAA YEAAARKA
ELGKTYPLPIVVDHKKRKAATLAA YEAAARKA
LERDGYPQPIVVDHKKRKAATLAA YEAAARKA
REAGADYPAPIVVDHKKRKAATLAA YEAAARKA
LKLGDYPPPIVVDHKKRKAATLAA YEAAARKA
ANGKTYPMPIVVDHKKRKAATLAA YEAAARKA
ALGRDYPPIVVDHKKRKAATLAA YEAAARKA
ALGKDYPHPIVVDHKKRKAATLAA YEAAARKA
LEASGYPLPIVVDHKKRKAATLAA YEAAARKA
LEREGYPAPIVVDHKKRKAATLAA YEAAARKA
TLGRTYPPPIVVDHKKRKAATLAA YEAAARKA
LLGDTYPRPIVVDHKKRKAATLAA YEAAARKA
KKHLDYPPQPIVVDHKKRKAATLAA YEAAARKA
AKKNGYPAPIVVDHKKRKAATLAA YEAAARKA
VEKRGYPRPIVVDHKKRKAATLAA YEAAARKA
QTSKNGYPKPIVVDHKKRKAATLAA YEAAARKA
LERKNGYPAPIVVDHKKRKAATLAA YEAAARKA
LERQGYPTSIVVDHKKRKAATLAA YEAAARKA
QKQRDYPQPIVVDHKKRKAATLAA YEAAARKA
FSSSDYPAPIVVDHKKRKAATLAA YEAAARKA
KLGETYPEPIVVDHKKRKAATLAA YEAAARKA
FGMAEYPRPIVVDHKKRKAATLAA YEAAARKA
TLGRTYPKPIVVDHKKRKAATLAA YEAAARKA
ALGRTYPAPIVVDHKKRKAATLAA YEAAARKA
LAKRLYSRPIVVDHKKRKAATLAA YEAAARKA
FAGVDYPRPIVVDHKKRKAATLAA YEAAARKA
LERRHYPSPIVVDHKKRKAATLAA YEAAARKA
RKDYGYPEPIVVDHKKRKAATLAA YEAAARKA
ALGQTYPAPIVVDHKKRKAATLAA YEAAARKA
LRPAGYPPPIVVDHKKRKAATLAA YEAAARKA
RDRCHYPMPIVVDHKKRKAATLAA YEAAARKA
RDLNYPQPIVVDHKKRKAATLAA YEAAARKA
AEKNGYPRPIVVDHKKRKAATLAA YEAAARKA
AKRNGYPKPIVVDHKKRKAATLAA YEAAARKA
RALKDYPAPIVVDHKKRKAATLAA YEAAARKA
RLGENYPKPIVVDHKKRKAATLAA YEAAARKA
ALGKTYPNPIVVDHKKRKAATLAA YEAAARKA
DILGRSYPHPIVVDHKKRKAATLAA YEAAARKA
LERRGGYPEPIVVDHKKRKAATLAA YEAAARKA
KEGSDYPPQPIVVDHKKRKAATLAA YEAAARKA
TLDKDYPKPIVVDHKKRKAATLAA YEAAARKA
ALILDYPKPIVVDHKKRKAATLAA YEAAARKA
TPQLNYPKPIVVDHKKRKAATLAA YEAAARKA
TEGKTYPRPIVVDHKKRKAATLAA YEAAARKA
RKTLDYPTPIVVDHKKRKAATLAA YEAAARKA
GEGKTYPEPIVVDHKKRKAATLAA YEAAARKA
GDKKGYPAPIVVDHKKRKAATLAA YEAAARKA
MLGEDYPEPIVVDHKKRKAATLAA YEAAARKA
REYCHYPPQPIVVDHKKRKAATLAA YEAAARKA
LGLKDYPPPIVVDHKKRKAATLAA YEAAARKA
AKTLDYPLPIVVDHKKRKAATLAA YEAAARKA
RHTLDYPKPIVVDHKKRKAATLAA YEAAARKA
LGTLDYPAPIVVDHKKRKAATLAA YEAAARKA
AMQHGYPTPIVVDHKKRKAATLAA YEAAARKA
ELGKTYPEPIVVDHKKRKAATLAA YEAAARKA
AQKNGYPKPIVVDHKKRKAATLAA YEAAARKA
LERRGGYPEPIVVDHKKRKAATLAA YEAAARKA
AGDKGYPKPIVVDHKKRKAATLAA YEAAARKA
SLGVSYPTPIVVDHKKRKAATLAA YEAAARKA
DILQLDYPKPIVVDHKKRKAATLAA YEAAARKA
GKSATYPAPIVVDHKKRKAATLAA YEAAARKA
ERQQDYPVPIVVDHKKRKAATLAA YEAAARKA
RTIGADYPAPIVVDHKKRKAATLAA YEAAARKA
VLGETYPPPIVVDHKKRKAATLAA YEAAARKA
VKGSYPAPIVVDHKKRKAATLAA YEAAARKA
RPPKNYPAPIVVDHKKRKAATLAA YEAAARKA
FGVADYPAPIVVDHKKRKAATLAA YEAAARKA
LKLGDYPHPIVVDHKKRKAATLAA YEAAARKA
PKLDYPTPIVVDHKKRKAATLAA YEAAARKA
ALGKTYPRPIVVDHKKRKAATLAA YEAAARKA
NLKLDYPHPIVVDHKKRKAATLAA YEAAARKA
TEGADYPRPIVVDHKKRKAATLAA YEAAARKA
AKKNGYPMPIVVDHKKRKAATLAA YEAAARKA
TLGKTYPEPIVVDHKKRKAATLAA YEAAARKA
ALGRTYPKPIVVDHKKRKAATLAA YEAAARKA
DLERDYPPIVVDHKKRKAATLAA YEAAARKA
RAQLKYPAPIVVDHKKRKAATLAA YEAAARKA
TEQKQYDPIVVDHKKRKAATLAA YEAAARKA
VLGETYPPPIVVDHKKRKAATLAA YEAAARKA
PIGRDYPAPIVVDHKKRKAATLAA YEAAARKA
VILKTYPAPIVVDHKKRKAATLAA YEAAARKA
KGTADYPAPIVVDHKKRKAATLAA YEAAARKA
RLGHYTPPIVVDHKKRKAATLAA YEAAARKA
ASSQGYPEPIVVDHKKRKAATLAA YEAAARKA

UniRef90_A2BUR6
UniRef90_A1S3R2
UniRef90_J4WV79
UniRef90_L0M5B9
UniRef90_V2VU87
UniRef90_F8D8R8
UniRef90_A3D723
UniRef90_UPI00036A0AF1
UniRef90_UPI0004759284
UniRef90_UPI000378F2EB
UniRef90_J7M3U5
UniRef90_L9VM49
UniRef90_U7PUY6
UniRef90_I3IAQ5
UniRef90_Q0BDK0
UniRef90_UPI00047707DF
UniRef90_S3I4Y3
UniRef90_UPI000378F49C
UniRef90_UPI0002624F80
UniRef90_Q03Y03
UniRef90_K6UXW4
UniRef90_A9ASJ0
UniRef90_U1LDG0
UniRef90_A5UYV1
UniRef90_M0PHC9
UniRef90_A0A059E4R5
UniRef90_E5AS07
UniRef90_UPI00022601C6
UniRef90_M3DAF4
UniRef90_UPI0004759882
UniRef90_UPI0003B6A7EA
UniRef90_I8IAX0
UniRef90_R8EDM4
UniRef90_UPI0003A339AA
UniRef90_C5BG83
UniRef90_F6EMA3
UniRef90_E2CLK5
UniRef90_E8LXK8
UniRef90_F9RK27
UniRef90_F7RYU2
UniRef90_D5QHZ9
UniRef90_D0J6L3
UniRef90_C7NYW0
UniRef90_UPI00038041D4
UniRef90_Q10W56
UniRef90_J3QA37
UniRef90_UPI0002D5CFC6
UniRef90_U0FTD1
UniRef90_A0A023VKV0
UniRef90_T0RE18
UniRef90_UPI000200138A
UniRef90_M1XSR6
UniRef90_I3UA50
UniRef90_UPI000472D453
UniRef90_U3ALS4
UniRef90_B9GWN1
UniRef90_B1XLX0
UniRef90_Q04449
UniRef90_D2S8X0
UniRef90_E9UZD7
UniRef90_A2SA88
UniRef90_UPI0004721B78
UniRef90_S8A8G7
UniRef90_C6XGZ0
UniRef90_V6KM54
UniRef90_U2ZK10
UniRef90_V4NMC1
UniRef90_K6W878
UniRef90_B0XR57
UniRef90_Q2JPS4
UniRef90_F0LZB2
UniRef90_A4SVE8
UniRef90_M2Y3R8
UniRef90_UPI000225C20C
UniRef90_K9T8L1
UniRef90_UPI000474D28E
UniRef90_UPI0004662B3A
UniRef90_B4WS74
UniRef90_S2K125
UniRef90_W7CQ69
UniRef90_P12768
UniRef90_G8YVU5
UniRef90_E6PGE7
UniRef90_C5WCP4
UniRef90_R3HQZ4
UniRef90_U6B904
UniRef90_I8HZS6
UniRef90_DOMJ32
UniRef90_UPI00037586A6
UniRef90_K5WK78
UniRef90_M0LSW3
UniRef90_H0A9P9

UniRef90_A2BUR6 A S L R F G T I S L R K V W N S T L F T D L K N K N N H N K I S I E T W Q K E L
UniRef90_A1S3R2 P Y L A L G V I S S P R Q C C L A A L L E D F P D V F V N E S S P A R P W L N E L
UniRef90_J4WV79 A Y L A S G I I S S P K R Q C C L E A L L K T E N P F E L D S S G E K G I V K W I D E L
UniRef90_L0M5B9 A A L A I G A I S S P R Q Q C L H R L L L E Q P K T L D D G P G S V I W L N E L
UniRef90_V2VU87 T Y L N I G I L S S P R Q Q C V I Q A L F R P Q Q G Q F L L T D Q G Q Q T W L D E L
UniRef90_F8D8R8 V H H K W G T I S G P R Q V Q V A A T E R A L E R A E T E A Q D R E D V T A F R R Q L
UniRef90_A3D723 P Y L A I G V I S S P R Q C V A A L L H D F P E V I V D D T S P A R T W L N E L
UniRef90_UPI00036A0AF1 P H I H F G E L S S P N Q A W Y L A K D K G S D K N I D H F L N S E L
UniRef90_UPI0004759284 P H L R F G T I S G P R R V W Q S A L A A T D R V R S E E E A N G I Q T W Q Q E L
UniRef90_UPI000378F2EB P H L H F G E I S P R Q I L R A L R Q A G L D T E H G G A E F V R R E L
UniRef90_J7M3U5 P F L R I G A I S G I R T V Y H A V R Q A P N S L G Q A T F L K E L
UniRef90_L9VM49 V H L K W G T I S G V R E V Y A A T E R A R D R A E T D E Q S R A S V A A F Q R Q L
UniRef90_U7PUY6 P Y L A T G T I S S A R T V V Q T A S D R A G A P S L D D G S D G F R V W V S E V
UniRef90_I3IAQ5 P Y F A V G S L S S P R Q A L S A V L A Y T Y G D W S G N A G A A C W I S E L
UniRef90_Q0BDK0 P F L R F G N V S S P R Q V W H A V Q G A T Q A G G A A C A A G A E K F L S S E L
UniRef90_UPI00047707DF A H L R F G T T S V R H L V R T A V Q Q L A L S G A G G T G A G A G T G A S T W L S Q L
UniRef90_S3I4Y3 P Y L A L G V I S S P A R I W C E T R L S G S S K R V P V A D L V H F R K E L
UniRef90_UPI000378F49C P Y L R W G Q I S S P R Q V W H Y S Q Q Q C S T P G L E H P L D T F L K E L
UniRef90_UPI0002624F80 P H L S H G E I S S P R Q I W Q E T R F H L R Q H P E L T D E G E H F L R E L
UniRef90_Q03Y03 R Y L R T G E I S I R T V W R A I D Q S P D S D G K S T F M K E L
UniRef90_K6UXW4 A Y L N I G V L S S I R Q Q C I Q A L F R H Q S G Y F V P E Q E G Q S I W L D E L
UniRef90_A9ASJ0 P Y L R F G N I S S I R Q V W Y A M Q R T R K A D L G D P Q S G P L N K F L S E I
UniRef90_U1LDG0 P Y L A L G I V S P K Q L T A Q I Q L H Y P E V L E N P S K P E F C W V N E L
UniRef90_A5UYV1 P Y L R F G C I A P R A A L R A A L L L D R A G E E Q D A E C I E T W G G E L
UniRef90_M0PHC9 A F L K Y G E I G V R E V Y E A T E R A M A A E S D D R P C A E H A E Y Q Q Q L
UniRef90_A0A059E4R5 P H L R F G E I S G P L Q I W R A V H A G M E A G T I P E K D G H T F L S E I
UniRef90_E5AS07 P Y L R F G N L S A R Q V W H A A V M S A A R V G R H C G D A R R T C K F L D E L
UniRef90_UPI00022601C6 P Y L R F G H V T P A Q L W H A A L M Q A D A S A Q N K D K F L A E L
UniRef90_M3DAF4 V H F S A G T L S S R T A I R S A V S L H S S P E K D S G P E G I K T W I S E L
UniRef90_UPI0004759882 V H L R F G T I S V R E A V S L A L S Q E N E G A S C W L N E L
UniRef90_UPI0003B6A7EA P H L H F G E I S G V R Q V L V H T R R L I G E R Q V L G L T G N I E H F I R E L
UniRef90_I8IAX0 P Y F A S G S L S A R T A V A K A K K A N K N Q L D R N E L G F V S W I S E V
UniRef90_R8EDM4 S Y L S F G Q I S S A K L M Y H Y L I N K S T E R Q C S F F E K Q V L S F I R Q L
UniRef90_UPI0003A339AA P Y L A V G A I S S A K Q C I S S L L E W H E G D E E A F Y K D T W L S E I
UniRef90_C5BG83 P Y L T L G V L S P R Q C L A A L Q P Q A L V S P G L S S G A E A W L N E L
UniRef90_F6EMA3 V H L K F G T I H P R T M L A D L A G R D G D G P K E M H A D V H P E H A T D A D K F L S E L
UniRef90_E2CLK5 P H L R F G E I S P T Q I W A T T Q M H A D V H P E H A T D A D K F L S E L
UniRef90_E8LXK8 P Y L A I G A L S V R Q C M A R L H D Q H P K P L P P G R E M W M S E L
UniRef90_F9RK27 P Y L A I G A L S V R Q C V A R V L Y S A Q A H Q S P L L G E G I H T W I S E L
UniRef90_F7RYU2 A Y F E I G A L S P R V A V H L L Y Q R V S P E F P E G L S D G A Y T W L S E L
UniRef90_D5QHZ9 P D L R F G H I S P R Q A W H A A V A A V R G G A A G G M G E Q D E K F L S E L
UniRef90_D0J6L3 V H L R F G T I S I R E V L A R A H E A A H N E D W S A A A R E G A A T W L S E L
UniRef90_C7NYW0 A H L K F G T V S G I R E V Y E R T A S A A A A D D E E R R E S V A E F Q S S Q L
UniRef90_UPI00038041D4 A H L R F G T V S I R E L L A A F A W A D G G G G A Q S W L G E L
UniRef90_Q10W56 P W L A L G C I S S P R Y C I Y E E V K E Y E Y Q R V K N Q S T Y W L I F E L
UniRef90_J3QA37 A Y L A A G V I S S P R A C I V R A T F Q I G E K G K K P V N G M Q V D M W Q S E L
UniRef90_UPI0002D5CFC6 P Y L A I G A V S P R Q C I A R L M L E A K D C L I E K G T S G A N V W L S E L
UniRef90_U0FTD1 P Y I A I G A L S V R Q C M A R L M F G Q A P S L S Q G R E V W Q S E L
UniRef90_A0A023VKV0 V Y L R T G E I N I R T V Y A A I S K A K A S K G K A S L S Q G R E V W Q S E L
UniRef90_T0RE18 P Y I R F G L I S I R E L V D I C A E G K N S G E K S W L N E L
UniRef90_UPI000200138A A A L K F G T I S P R Q A W A A Q Q A R Q V G G A E E A L A S I G V W E Q E L
UniRef90_M1XSR6 V H L K F G T I S G I R E V D K R V R D A L E S A S G E R R E S V A E F R S Q L
UniRef90_I3UA50 V H L R F G T L S I R Q L V K V A C S A M S T G S Q G A A T W L S E L
UniRef90_UPI000472D453 V H L R F G T L S V R R Q C L A M L Q E R I A D G S G G P G A P V W L S E L
UniRef90_U3ALS4 P Y L A I G A L S A R A Q C L A R L C N E M P P E E L T D G K A T W L S E L
UniRef90_B9GWN1 P Y L K F G C I S S R Y F Y Q C L Q D V Y K N V Q K H T S P P V I S L A G Q L
UniRef90_B1XLX0 P W L A L G C L S A R Y I A A Q V A E Y E Q K R I A N N S T Y W L I F E L
UniRef90_Q04449 P Y I K T G A V S S R S I Y H I L N A E A D S Y S A E T F L K E L
UniRef90_D2S8X0 A Y L K Y G C I H P R T L L A D L E D L D S D S A D S F R N E L
UniRef90_E9UZD7 V A L K Y G E I H P R T L L A D L G T H G T G A S G E D V E R F V A E L
UniRef90_A2SA88 P Y V R F G N I S A R Q L W H A A A D A Y A H G A T Q A D L D K F L S E L
UniRef90_UPI0004721B78 P Y L A V G I L S P R Q V L A L L L I H S P Q L L Q N T H E S A S I W F N Q L
UniRef90_S8A8G7 L H F S A G T L S A R Q A V R A V L D H S S T R S L D S G H H G W I R E I
UniRef90_C6XGZ0 P Y L S I G V L S P R Q C W N R L K E E F V D L L I K P K S G A F S W L N E L
UniRef90_V6KM54 P H L H F G T L S P T E L V A R A R R S G S G A E A F V R Q L
UniRef90_U2ZK10 P Y L A I G A L S V R Q C F A R L S Y G H P H L C S G R E V W Q S E L
UniRef90_V4NMC1 P H L R F G E I S P R R I L A D V D D A V C E A P R L A A P A E K W R K E L
UniRef90_K6W878 P Y L K F G V L H P R S L L A D L E A S G G P D A E P R L A A P A E K W R K E L
UniRef90_B0XR57 P Y F A S G L I S A R T A L E H A R R A N K G S L Q H G D P G L V R W I G E V
UniRef90_Q2JPS4 P H C I S G W T I S G I R Q V W Q A T R E V I E A E V R S Q E A E S S L Q T W R Q E L
UniRef90_F0LZB2 P Y L A I G A L S P R Q C I A R V Y A E S A M G A L S D G A Q T W L S E L
UniRef90_A4SVE8 T H L R F G M L S I R G L V R E A H R R M L A G S M G A T I W L S E L
UniRef90_M2Y3R8 P H L K F G E I S V K R I F Y M V R K R V A N N R E N W Y L Y S Q K A F L K N L
UniRef90_UPI000225C20C P H L A W G E I S V R Q L W H A I H T Q I R L Y P V L E Q D A L N F L S E I
UniRef90_K9T8L1 P W L A L G C I S P R L I Y E Q V Q K Y E S E R I K N D T S Y W L V F E L
UniRef90_UPI000474D28E P Y L A I G A I S P R T L V N A L T Q A F P A L L D D T A S S A F C W L N E L
UniRef90_UPI0004662B3A P Y L A V G S L S P R Q C L T A A L S A N E G R W D E G S E G V T T W I S E L
UniRef90_B4WS74 P W L A N G S L S P R R V Q E V Q R Y E R E R G K N N S T Y W M I F E L
UniRef90_S2KI25 P Y L A L G M I S H R Q C L Q A V L A E N E G S L I E G H P G L V A W G N E L
UniRef90_W7CQ69 P Y L K Y G V L S I V E V Y R R V V T S E Q R G Q A T Y I K E L
UniRef90_P12768 P H L H F G T I S A A E L H R R A R E K G G L G G E A F V R Q L
UniRef90_G8YVU5 V H I S S G T V S T A R S L I R Y M L A N K L V K Q V D S G D K G L T E W I R Q L
UniRef90_E6PGE7 P D L R A G T I S G I R T C V A R A R S A M E G A S A K R R A S L D V W L S E L
UniRef90_C5WCP4 P Y L A V G I S P R Q C L N T L N H Y P N L L E N N I A V S W F N Q L
UniRef90_R3HQZ4 T F L R T G E I S I R T V W H K L D S V V T S L G K E T Y K K E L
UniRef90_U6B904 P Y L S I G A I S T R Q C F N R L K A E F P D I F I K N A F S W L N E L
UniRef90_I8HZS6 P H L H F G E I T P V Q A L A R V Q R E L A S E S R A G L H G G A E V Y E R E L
UniRef90_DOMJ32 P Y L A N G E I S P H L L W R V V G E A Q R A G V S S K A V E A F R R Q L
UniRef90_UPI00037586A6 A H L K F G T V S V R E A Y H A I K R Q L G E G H P L L R Q L
UniRef90_K5WK78 P Y L A A G V I S A R E C V R A T R A L K H S K V D V S R D T G V G R W V Q E L
UniRef90_M0LSW3 V H F K W G T I S G P R A V Y A T E R A L M D R A E A D A E R D G V T A F R R Q L
UniRef90_H0A9P9 P H L K F G T V S I R E C F W E A E R T K A R N P N S D T S G V K T W Q E E L

| | 90 | 100 | 110 | 120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|-----|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_A2BUR6 | VWR | E | F | Y | Q | H | C | L | F | H | F | P | E | L | E | K | G | P | Y | R | K | K | W | D | H | F | P | W | Q | N | N | H | E | E | F | F | D | R | W | | | | | |
| UniRef90_A1S3R2 | VWR | E | F | Y | R | N | H | L | L | V | A | F | P | G | L | S | M | K | N | F | N | F | P | L | G | D | G | I | R | W | R | N | N | D | E | T | E | F | E | A | W | | | |
| UniRef90_J4WV79 | IWR | E | F | Y | K | N | I | M | F | S | F | P | K | V | S | R | Q | P | F | Q | E | Y | T | K | K | R | V | I | K | W | R | N | D | D | E | E | L | N | A | W | | | | |
| UniRef90_L0M5B9 | IWR | E | F | Y | R | N | H | L | M | T | Y | N | P | K | A | C | K | H | R | P | F | I | G | W | T | E | R | V | I | K | W | R | V | S | P | E | H | L | K | A | W | | | |
| UniRef90_V2VU87 | LWR | E | F | Y | Q | H | I | L | L | F | D | Y | P | Q | D | V | S | K | H | P | F | Q | P | K | T | Q | Q | L | Q | W | R | D | D | P | E | G | L | N | A | W | | | | |
| UniRef90_F8D8R8 | A | F | H | E | F | Y | T | H | V | L | V | A | F | N | P | D | S | V | J | A | D | F | T | A | Y | Q | A | D | N | G | I | D | W | R | N | N | P | D | E | L | A | A | W | |
| UniRef90_A3D723 | T | W | R | E | F | Y | T | H | L | L | V | A | F | P | D | S | K | N | H | N | R | Q | A | D | H | V | I | Q | W | R | N | N | P | Q | E | F | F | A | A | W | | | | |
| UniRef90_UPI00036A0AF1 | G | W | R | E | F | S | Y | C | Q | L | Y | F | N | P | E | L | P | T | K | N | L | Q | S | K | F | D | A | F | P | W | E | D | N | R | P | K | N | L | L | A | W | | | |
| UniRef90_UPI0004759284 | A | W | R | E | F | Y | Q | N | V | L | F | H | F | P | E | L | A | I | G | A | Y | R | P | Q | M | R | F | E | W | D | N | R | A | Y | F | A | A | W | | | | | | |
| UniRef90_UPI000378F2EB | G | W | R | E | F | A | H | H | V | L | V | A | F | P | H | T | P | E | R | P | L | N | P | Q | F | M | E | A | F | P | W | R | E | S | T | D | L | L | G | S | W | | | |
| UniRef90_J7M3U5 | A | W | R | D | F | Y | N | M | V | Y | V | A | Y | P | D | Q | K | T | Q | P | L | Q | K | A | F | S | Q | I | E | W | V | N | N | P | D | W | F | Q | L | W | | | | |
| UniRef90_L9VM49 | A | W | R | E | F | Y | A | H | V | L | V | A | F | N | P | E | T | V | T | E | N | F | S | G | P | A | Y | E | N | E | I | P | W | R | N | D | D | E | L | A | A | W | | |
| UniRef90_U7PUY6 | A | W | R | D | F | Y | K | H | V | L | V | G | W | P | H | V | A | M | H | E | N | F | F | K | P | A | Y | A | N | V | A | W | A | E | D | D | R | F | T | A | W | | | |
| UniRef90_I3IAQ5 | IWR | E | F | Y | Q | H | V | V | V | D | Y | P | Q | C | K | R | K | A | M | Q | A | H | T | E | A | F | P | W | Q | K | D | T | A | L | F | E | A | W | | | | | | |
| UniRef90_Q0BDK0 | G | W | R | E | F | S | H | V | L | L | F | H | F | P | A | L | A | T | D | N | F | R | A | Q | F | D | A | M | P | W | R | D | P | A | A | L | L | R | A | W | | | | |
| UniRef90_UPI00047707DF | IWR | E | F | Y | A | V | I | L | L | Y | R | H | P | H | M | V | A | M | R | C | F | R | P | A | F | D | A | E | W | P | E | A | D | A | L | F | A | A | W | | | | | |
| UniRef90_S3I4Y3 | A | W | R | E | F | S | Y | H | L | I | Y | H | F | P | E | L | P | N | R | N | W | N | D | R | M | D | A | F | P | W | Q | N | D | K | K | H | F | S | A | W | | | | |
| UniRef90_UPI000378F49C | A | W | R | E | F | S | Y | Q | L | Y | H | S | P | S | M | T | E | E | N | L | N | Q | K | F | N | R | F | P | W | Q | N | D | K | K | H | F | S | A | W | | | | | |
| UniRef90_UPI0002624F80 | G | W | R | E | F | S | Y | H | L | L | F | H | F | P | Q | L | P | D | T | P | L | R | P | K | F | A | D | F | P | W | Q | K | E | T | L | L | L | E | R | W | | | | |
| UniRef90_Q03Y03 | C | W | R | D | F | Y | N | M | I | Y | V | M | Y | P | N | Q | N | V | E | S | V | N | K | D | F | R | H | V | D | W | I | N | N | E | Q | Q | F | E | A | W | | | | |
| UniRef90_K6UXW4 | L | W | R | E | F | Y | Q | H | I | L | L | F | H | F | P | N | V | K | Y | L | P | F | K | A | N | A | R | N | L | P | W | Q | D | D | K | T | A | L | T | A | W | | | |
| UniRef90_A9ASJ0 | G | W | R | E | F | S | Y | H | L | L | F | H | F | P | L | H | Q | V | L | P | F | R | Q | F | N | R | Q | F | D | S | M | P | W | R | D | D | N | A | L | R | K | W | | |
| UniRef90_U1LDG0 | IWR | E | F | Y | R | H | L | I | V | A | F | P | R | C | K | G | F | N | F | N | D | K | Y | N | A | V | R | W | C | D | D | S | Q | A | F | E | L | W | | | | | | |
| UniRef90_A5UYV1 | A | W | R | D | F | Y | T | Q | I | L | W | H | H | P | H | V | L | R | S | A | F | K | P | Q | Y | D | A | L | E | W | N | D | P | A | L | F | D | A | W | | | | | |
| UniRef90_M0PHC9 | A | W | R | E | F | Y | T | Q | V | L | F | H | N | P | E | V | L | T | R | S | A | F | K | P | Q | Y | D | A | L | E | W | N | D | P | A | L | F | D | A | W | | | | |
| UniRef90_A0A059E4R5 | G | W | R | E | F | S | H | T | L | L | F | Y | N | P | A | L | A | S | E | N | Y | N | D | S | F | E | F | M | P | W | R | K | D | K | A | F | D | A | W | | | | | |
| UniRef90_E5AS07 | G | W | R | E | F | S | Y | H | L | F | H | C | A | P | L | H | Q | V | L | R | S | N | F | K | R | P | E | F | D | T | M | P | W | R | A | D | T | A | D | L | R | A | W | |
| UniRef90_UPI00022601C6 | G | W | R | E | F | A | W | S | I | L | L | F | E | Q | A | N | V | A | T | R | S | L | R | P | E | F | D | A | P | W | R | T | D | P | K | G | L | K | A | W | | | | |
| UniRef90_M3DAF4 | A | W | R | D | F | Y | K | H | V | L | A | H | W | P | Y | C | M | S | K | P | F | K | Y | E | Y | S | D | I | E | W | E | Y | N | D | D | L | F | T | K | W | | | | |
| UniRef90_UPI0004759882 | IWR | E | F | Y | Q | H | L | L | W | H | H | P | H | V | A | T | E | S | F | K | P | A | Y | Q | S | L | Q | F | P | G | D | A | R | S | W | F | E | A | W | | | | | |
| UniRef90_UPI0003B6A7EA | G | W | R | E | F | S | Q | H | L | L | F | H | F | P | T | T | P | D | Q | P | L | Y | P | K | F | A | A | F | P | W | K | F | A | D | F | P | W | K | E | S | C | Q | T | W |
| UniRef90_I8IAX0 | A | W | R | D | F | Y | K | H | V | L | V | R | W | P | F | C | M | N | K | C | F | K | P | E | F | T | D | L | E | W | E | Y | N | M | D | Y | F | N | A | W | | | | |
| UniRef90_R8EDM4 | IWR | E | F | Y | S | Y | L | L | Y | H | Y | P | F | E | T | V | S | K | P | L | N | K | N | F | E | H | F | P | W | N | K | E | E | E | L | L | R | V | W | | | | | |
| UniRef90_UPI0003A339AA | IWR | E | F | Y | R | I | I | I | D | N | P | F | E | T | S | K | H | K | V | F | K | N | R | D | A | K | E | V | W | D | G | E | Q | E | L | F | D | L | W | | | | | |
| UniRef90_C5BG83 | IWR | E | F | Y | R | H | L | L | V | A | W | P | D | C | R | H | R | P | F | I | P | W | T | A | R | I | R | W | R | D | D | P | A | G | L | L | R | W | | | | | | |
| UniRef90_F6EMA3 | A | W | R | D | F | Y | G | D | V | L | H | H | N | P | E | S | A | R | R | N | L | D | R | K | F | D | A | M | R | H | D | D | A | W | T | R | W | E | A | W | | | | |
| UniRef90_E2CLK5 | V | W | R | E | F | S | Y | H | L | L | F | H | F | P | D | L | P | E | K | N | W | K | V | G | F | D | A | Y | P | W | R | E | N | A | E | D | L | R | A | W | | | | |
| UniRef90_E8LXK8 | IWR | E | F | Y | Q | H | L | I | Y | F | E | S | K | S | K | G | K | C | F | L | E | W | G | D | R | L | S | W | R | N | S | S | A | D | I | D | A | W | | | | | | |
| UniRef90_F9RK27 | V | W | R | D | F | Y | Q | H | L | L | F | H | F | P | E | K | C | K | G | R | H | F | V | T | W | E | K | L | H | W | P | G | S | K | H | L | A | A | W | | | | | |
| UniRef90_F7RYU2 | A | W | R | E | F | Y | Q | H | L | M | F | H | E | R | P | L | A | M | E | P | F | Q | A | E | S | A | F | P | W | V | N | D | K | A | Q | F | V | A | W | | | | | |
| UniRef90_D5QHZ9 | G | W | R | D | F | A | V | S | L | L | Y | A | Q | P | E | L | V | S | C | N | F | R | T | E | F | D | A | M | P | W | R | N | D | A | R | D | L | C | A | W | | | | |
| UniRef90_D0J6L3 | IWR | E | F | Y | T | Q | I | L | A | H | Q | P | Y | V | T | E | R | S | F | K | P | A | Y | D | A | L | E | W | E | A | D | T | L | E | F | A | A | W | | | | | | |
| UniRef90_C7NYW0 | A | W | R | E | F | Y | T | Q | V | L | F | A | N | R | S | V | V | T | D | N | Y | K | T | Y | E | R | P | L | Q | W | R | E | D | P | E | A | L | Q | A | W | | | | |
| UniRef90_UPI00038041D4 | V | W | R | D | F | Y | H | M | I | L | W | H | H | P | R | V | V | S | A | C | F | R | P | E | Y | D | R | I | A | W | D | A | A | P | D | L | F | A | A | W | | | | |
| UniRef90_Q10W56 | IWR | E | F | Y | R | F | I | C | Q | K | H | G | R | K | I | F | H | K | S | G | L | Q | G | I | A | I | P | W | Q | E | D | W | E | K | F | R | K | W | | | | | | |
| UniRef90_J3QA37 | G | W | R | D | F | Y | Q | H | V | L | A | W | P | R | C | M | G | K | A | F | N | L | K | Y | E | E | V | W | E | N | D | E | I | F | E | K | W | | | | | | | |
| UniRef90_UPI0002D5CFC6 | V | W | R | E | F | Y | Q | H | I | T | A | T | Y | P | A | I | S | R | K | A | F | L | E | W | T | D | N | I | E | W | N | Q | D | E | L | F | E | R | W | | | | | |
| UniRef90_UOFTD1 | IWR | E | F | Y | Q | H | L | I | Y | F | E | A | K | S | K | Q | R | S | E | V | N | W | G | D | R | L | V | W | K | N | E | P | Q | Y | I | E | A | W | | | | | | |
| UniRef90_A0A023VKV0 | V | W | R | E | F | Y | H | M | I | Y | V | N | H | P | H | Q | K | G | E | P | L | Q | A | Q | F | A | A | I | E | W | E | N | D | Q | A | L | F | E | Q | W | | | | |
| UniRef90_T0RE18 | IWR | E | F | Y | Q | M | L | L | F | N | F | P | K | V | E | K | A | A | F | K | D | E | Y | N | D | L | Q | W | P | T | D | N | K | I | I | E | K | W | | | | | | |
| UniRef90_UPI000200138A | A | W | R | E | F | Y | Q | A | L | L | F | H | F | P | E | D | V | A | E | G | P | Y | R | P | Q | W | R | Q | F | P | W | D | N | H | Q | H | Y | E | A | W | | | | |
| UniRef90_M1XSR6 | A | W | R | E | F | Y | T | H | V | L | F | H | F | P | E | D | V | V | T | N | Y | T | S | Y | E | N | P | I | E | W | E | N | D | D | L | L | A | A | W | | | | | |
| UniRef90_I3UA50 | IWR | E | F | Y | F | M | I | L | H | H | F | P | Q | V | A | D | H | A | F | N | A | K | Y | D | A | I | E | W | P | Q | A | E | R | H | F | L | J | A | W | | | | | |
| UniRef90_UPI000472D453 | V | W | R | E | F | Y | M | M | I | L | A | R | H | P | R | V | V | T | Q | S | F | K | A | A | F | D | A | V | A | W | D | A | D | A | D | A | L | F | D | A | W | | | |
| UniRef90_U3ALS4 | IWR | E | F | Y | Q | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UniRef90_A2BUR6 S N G E T G V P I I V D A A M R Q L N S T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_A1S3R2 K H G R T G Y P I I V D A A M R Q L N Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_J4WV79 K S E G N T G F P I I V D A A M R Q L N A T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_L0M5B9 Q E G Q T G Y P I I V D A A M R Q L L J A T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_V2VU87 Q A G G R T G Y P I I V D A A M R Q L N R T E G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_F8D8R8 K A E G R T G Y P I I V D A A M R Q L N Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_A3D723 C E G R T G Y P I I V D A A M R Q L W L T G S M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI00036A0AF1 Q K G Q T G Y P I I V D A A M R Q L N Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI0004759284 C E G R T G Y P I I V D A A M R Q L N Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI000378F2EB Q R G R T G Y P I I V D A A M R Q L W E T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_J7M3U5 K E G K T G Y P I I V D A A M R Q L Q K T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_L9VM49 K A G E T G Y P I I V D A A M R Q L L J A E G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_U7PUY6 T A G R T G Y P I I V D A A M R Q L R H E G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_I3IAQ5 C K G M T G I P I I V D A A M R Q L N A T T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_Q0BDK0 Q R G R T G Y P I I V D A A M R Q L W T T T G F M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI00047707DF C E G R T G Y P I I V D A A M R Q L N R T T G F M H N R L R M I V A S F F L T K H L L L I
UniRef90_S3I4Y3 T K G V T G Y P I I V D A A M R Q L W R H G F M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI000378F49C Q R G Q T G F P I I V D A A M R Q L W Q T G Y M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI0002624F80 Q S G Q T G Y P I I V D A A M R Q L W Q S T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_Q03Y03 R T G Q T G F P I I V D A A M R Q L N A T T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_K6UXW4 Q Q G Q T G I P I I V D A A M R Q L L V T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_A9ASJ0 Q T G H T G Y P I I V D A A M R Q L W H T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_U1LDG0 C N G Q T G Y P I I V D A A M R Q L N K T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_A5UYV1 K E G R T G Y P I I V D A A M R Q L N R E A F M H N R L R M I V A S F F L T K H L L L I
UniRef90_M0PHC9 K R G E T G Y P I I V D A A M R Q L R A E A F M H N R L R M I V A S F F L T K H L L L I
UniRef90_A0A059E4R5 T K G Q T G Y P I I V D A A M R Q L W Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_E5AS07 Q H G R T G Y P I I V D A A M R Q L W H T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI00022601C6 Q S G R T G Y P I I V D A A M R Q L W H T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_M3DAF4 K D G M T G F P I I V D A A M R Q L C K H M S Y I H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI0004759882 C E G R T G Y P I I V D A A M R Q L N Q T G Y M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI0003B6A7EA Q R G H T G V P I I V D A A M R Q L W I T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_I8IAX0 C E G R T G F P I I V D A A M R Q L M K S S A W M H N R L R M I V A S F F L T K H L L L I
UniRef90_R8EDM4 S Q K G E T G Y P I I V D A A M R Q L W Q T G F M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI0003A339AA S Q G K T G F P I I V D A A M R Q L L Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_C5BG83 Q Q G M T G F P I I V D A A M R Q L N R C G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_F6EMA3 C E G Q T G Y P I I V D A A M R Q L R E E G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_E2CLK5 Q R G Q T G Y P I I V D A A M R Q L W Q T G Y M H N R L R M I V A S F F L T K H L L L I
UniRef90_E8LXK8 K K G Q T G Y P I I V D A A M R Q L N H T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_F9RK27 Q K G M T G Y P I I V D A A M R Q L N Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_F7RYU2 S E G R T G F P I I V D A A M R Q L N A T T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_D5QHZ9 Q Q G R T G Y P I I V D A A M R Q L W R T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_D0J6L3 C E G R T G Y P I I V D A A M R Q L N S S G Y M H N R L R M I V A S F F L T K H L L L I
UniRef90_C7NYW0 K D G E T G Y P I I V D A A M R Q L R Q E A F V H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI00038041D4 C D G R T G Y P I I V D A A M R Q L A T T G Y M H N R L R M I V A S F F L T K H L L L I
UniRef90_Q10W56 Q A G Q T G F P I I V D A A M R Q L L A T T G F M S N N R L R M I V A S F F L T K H L L L I
UniRef90_J3QA37 K E G M T G Y P I I V D A A M R Q L K H I G Y M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI0002D5CFC6 K Q G K T G Y P I I V D A A M R Q L N E T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_UOFTD1 K Q G E T G F P I I V D A A M R Q L N Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_A0A023VKV0 K A G T T G Y P I I V D A A M R Q L S Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_T0RE18 K L G E T G V P I I V D A A M R Q L Y L Y G T M P N R L R M I V A S F F L T K H L L L I
UniRef90_UPI000200138A C E G L T G M P I I V D A A M R Q L N E S G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_M1XSR6 K R G E T G Y P I I V D A A M R Q L R A E S G F M H N R L R M I V A S F F L T K H L L L I
UniRef90_I3UA50 C Q G K T G Y P I I V D A A M R Q L N Q T G Y M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI000472D453 C A G R T G Y P I I V D A A M R Q L E R T G F M H N R L R M I V A S F F L T K H L L L I
UniRef90_U3ALS4 K N G T T G Y P I I V D A A M R Q L N Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_B9GWN1 R E A R T G Y P I I V D A A M R Q L R K W G W M H H L A R H S V A C F L T R G D L L I
UniRef90_B1XLX0 R T G Q T G I P I I V D A A M R Q L L Y T G F M S N R L R M I V A S F F L T K H L L L I
UniRef90_Q04449 R K G E T G F P I I V D A A M R Q L L N E G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_D2S8X0 A R G R T G Y P I I V D A A M R Q L L G E A Y V H N R L R M I V A S F F L T K H L L L I
UniRef90_E9UZD7 K S G T T G Y P I I V D A A M R Q L L A E G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_A2SA88 R R G A T G Y P I I V D A A M R Q L W A T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI0004721B78 T Q G K T G Y P I I V D A A M R Q L N Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_S8A8G7 V E G K T G Y P I I V D A A M R Q L A S N K Y M H N R L R M I V A S F F L T K H L L L I
UniRef90_C6XGZ0 K Q G Y T G F P I I V D A A M R Q L N T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_V6KM54 K A G R T G Y P I I V D A A M R Q L R H E G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_U2ZK10 K E G R T G Y P I I V D A A M R Q L N Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_V4NMC1 T R G E T G Y P I I V D A A M R Q L W R T G F M H N R L R M I V A S F F L T K H L L L I
UniRef90_K6W878 Q Q G R T G F P I I V D A A M R Q L L J A T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_B0XR57 R E G K T G F P I I V D A A M R Q L A K Q D K W M H N R L R M I V A S F F L T K H L L L I
UniRef90_Q2JPS4 C C E Q T G Y P I I V D A A M R Q L N E T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_F0LZB2 C E G N T G Y P I I V D A A M R Q L N Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_A4SVE8 C E G K T G Y P I I V D A A M R Q L N Q S T G Y M H N R L R M I V A S F F L T K H L L L I
UniRef90_M2Y3R8 S V G H T G Y P I I V D A A M R Q L R E L R S T G W I H N R L R F L L A S F F L T K H L L L I
UniRef90_UPI000225C20C S Q G Q T G Y P I I V D A A M R Q L W H T G Y M H N R L R M I V A S F F L T K H L L L I
UniRef90_K9T8L1 Q Q G K T G Y P I I V D A A M R Q L A A T G F M S N R L R M I V A S F F L T K H L L L I
UniRef90_UPI000474D28E C Q E K T G Y P I I V D A A M R Q L L Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI0004662B3A R R G E T G I P I I V D A A M R Q L L D T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_B4WS74 R E G K T G Y P I I V D A A M R Q L A A T G F M S N R L R M I V A S F F L T K H L L L I
UniRef90_S2KI25 C E G R T G Y P I I V D A A M R Q L T Q T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_W7CQ69 C K G E T G Y P I I V D A A M R Q L N A T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_P12768 K S G L T G Y P I I V D A A M R Q L A H E G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_G8YVU5 C N G Q T G Y P I I V D A A M R Q L N A T G F L P N R L R M I V A S F F L T K H L L L I
UniRef90_E6PGE7 C E A R T G Y P I I V D A A M R Q L N T T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_C5WCP4 Q N G Y T G Y P I I V D A A M R Q L N S T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_R3HQZ4 Q N G Q T G Y P I I V D A A M R Q L K E T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_U6B904 K Q G L T G I P I I V D A A M R Q L N S G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_I8HZS6 Q R G R T G V P I I V D A A M R Q L W T T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_DOMJ32 Q H G R T G I P I I V D A A M R Q L W Q S T G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_UPI00037586A6 A D G K T G F P I I V D A A M R Q L N A T G F M H N R L R M I V A S F F L T K H L L L I
UniRef90_K5WK78 K D G R T G V P I I V D A A M R Q L M N K G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_M0LSW3 T A G E T G Y P I I V D A A M R Q L R E E G W M H N R L R M I V A S F F L T K H L L L I
UniRef90_H0A9P9 I N G K T G F P I I V D A A M R Q L K K T G W M H N R L R M I V A S F F L T K H L L L I

UniRef90_A2BUR6 C N W Q M G E E K F M K V L V D G D L A A N N G G W Q W S A S S G M D P K P L R
UniRef90_A1S3R2 I D W R W G E E R Y F F M Q N Q L I D G D L A A N N G G W Q W A A S T G T G D A A Q P Y F
UniRef90_J4WV79 H D W R L G E E E F F M S Q N Q L I D G D F S A N N G G W Q W S A S S T G T G T D A A P Y F
UniRef90_L0M5B9 I D W R E L G E R Y F F M S Q N Q L I D G D L A A N N G G W Q W A A S S T G T G T D A A P Y F
UniRef90_V2VU87 I D W R K G E Q W F M Q H L I D G D L A A N N G G W Q W S A S S T G T G T D A A P Y F
UniRef90_F8D8R8 V D W R E G E Y D W Y F R Q K L A D H E S A N D A A G W Q W A A S S T G T G P D A Q P Y F
UniRef90_A3D723 I D W R W G E R Y F R Q K L I D G D L A A N N G G W Q W S A S S T G T G D A A Q P Y F
UniRef90_UPI00036A0AF1 L N W H H G E Q W F W D C L V D A D L A S N S A S W Q W I A G C G G A D A A P Y F
UniRef90_UPI0004759284 L N W Q W G E L Y F M Q Q L V D G D L A A N N G G W Q W S A S S T G G M D T K P L R
UniRef90_UPI000378F2EB L H W H H G A R W F W D T L V D A D L A A N T L G W Q W A G C G G A D A A P Y F
UniRef90_J7M3U5 C D W R L G E Q Y F Q Q Q L I D Y D A A S N I G G W Q W A A S T G T G T D A V P Y F
UniRef90_L9VM49 I D W R E G E Y D W F R R K L A D H D T A N D V G G W Q W A A S T G T G T D A Q P Y F
UniRef90_U7PUY6 V D W R R G E Q W F M R H L V D G D V A S N V G G W G F A A S V G V D P Q P Y F
UniRef90_I3IAQ5 I D W R W G E Q Y F M S Q L I D G D F A N N G G W Q W S A S T G T G T D A A P Y F
UniRef90_Q0BDK0 I D W R A G E R W F H D T L V D A D E A A N N P A N W Q W A G C G G A D A A P Y F
UniRef90_UPI00047707DF I D W R R G E R Y F A L R L N D A D E L A S N N G G W Q W A A S T G G C D A Q W F R
UniRef90_S3I4Y3 I D W R H G E T W F R E T L V D A D P A N N A A S W Q W V A G S G A D A S P F F
UniRef90_UPI000378F49C Q H W H N G G A R W F W D T L V D A D L A N S A S W Q W V A G C G G A D A A P Y F
UniRef90_UPI0002624F80 V S W Q D G E A W F W D T L V D A D L A N S A S W Q W V A G S G G A D A A P Y F
UniRef90_Q03Y03 I D W R W G E A Y F H N K L L D Y D A A S N I G G W Q W A A S T G T G T D S V P Y F
UniRef90_K6UXW4 I D W R Q G E Q W F M Q H L I D G D L A A N N G G W Q W C A S T G T G D S V P Y F
UniRef90_A9ASJ0 I D W R E G E A W F W D T L V D A D E A S N P A S W Q W V S G S G A D A A P Y F
UniRef90_U1LDG0 I D W R K G E A Y F M S K L I D G D L A S N N G G W Q W A A S T G G C D A Q P Y F
UniRef90_A5UYV1 I D W R W G E R Y F M Q Q L V D G D H A N N G G W Q W S A G T G T D A Q P Y F
UniRef90_M0PHC9 A D W R Q G Y E Y F R E T L A D H D T A N D N G G W Q W A A S T G T G T D A Q P Y F
UniRef90_A0A059E4R5 L P W Q D G E A W F W D T L V D A D P A N N A A S W Q W T A G S G A D A A P Y F
UniRef90_E5AS07 I N W R E G E A W F W D T L V D A D E A S N P A N W Q W V A G S G A D A A P Y F
UniRef90_UPI00022601C6 I D W R E G E R W F A D T L V D H D P A S N P M N W Q W N A G T G V D P Q P Y F
UniRef90_M3DAF4 L D W R Q G E Y F M E H L I D G D F A S N N G G W G F S A S T G T G V D P Q P Y F
UniRef90_UPI0004759882 I D W R W G E A Y F A A K L M D F D L A A N N G G W Q W A A S T G G C D A Q P Y F
UniRef90_UPI0003B6A7EA I P W Q E G A R W F W D T L V D A S L A Q N S L G W Q W S A G C G G A D A A P Y F
UniRef90_I8IAX0 I D W R R G E R Y F M E H L I D G D F A S N H G G W G F G S S T G V D P Q P Y F
UniRef90_R8EDM4 I P W Q E G A K W F M D T L L D A D L A N T M G W Q W V A G S G A D A S P Y F
UniRef90_UPI0003A339AA I D W R Q G E A F F M R H L I D G D F A S N N G G W Q W C S S T G A D G A P Y F
UniRef90_C5BG83 I D W R L G E R Y F L R Q L I D G D L A A N N G G W Q W A A S T G S D A A P Y F
UniRef90_F6EMA3 I P W W W G A R H F M R Y L V D G D L S A N N H G W Q W V A G S T G D A A P Y F
UniRef90_E2CLK5 L S W Q H G E N W F R D T L V D A D V A N S A S W Q W V S G T G A D A A P Y F
UniRef90_E8LXK8 I V D W H V G E R Y F M S K L V D G D Y A A N N G G W Q W C A S T G G C D G Q P Y F
UniRef90_F9RK27 L H W H H G E R Y F M Q R L V D G D Y A A N N G G W Q W S A S T G C D A Q P Y F
UniRef90_F7RYU2 L N W Q W G E R Y F M Q R L I D G S F P A N N G G W Q W S A G T G T D A A P Y F
UniRef90_D5QHZ9 C D W R M G E A W F R D T L V D A D I A S N V I N W Q W V A G C G V D A A P Y F
UniRef90_D0J6L3 I D W R R G E A Y F A E K L N D F D L A A N N G G W Q W A A S T G C D A Q W F R
UniRef90_C7NYW0 I D W R A G E Y F A E K E R L V D H D T A N D N G G W Q W A A S T G T D A Q P Y F
UniRef90_UPI00038041D4 I D W R R G E R H F A D Q L I D Y D L A A N N G G W Q W A A S T G C D A Q P Y F
UniRef90_Q10W56 L N W Q M G A E W F E S L L I D Y D V L C S N W G N W N Y T A G V G N D G R G F R
UniRef90_J3QA37 M D W R R G E K W F M E N L V D G D L G S N N G G W Q W S A S T G T D A Q P Y F
UniRef90_UPI0002D5CFC6 I D W R W G E R Y F N W K L I D G D F A A N N G G W Q W S A S V I G T D A Q P Y F
UniRef90_U0FTD1 V D W R L G E R Y F L N K L V D G D Y A A N N G G W Q W C A S T G G C D G Q P Y F
UniRef90_A0A023VKV0 I D W R W G E E Y F Q E A L M D Y D S A S N I G G W Q W A A S T G T D A V P Y F
UniRef90_T0RE18 Q D W K V G E Q Y F A D K L M D F D L A A N N G G W Q W S S S T G C D A A P Y F
UniRef90_UPI000200138A C D W R W G E T A F M Q R L V D G D L A A N N G G W Q W S A S S T G M D P K P L R
UniRef90_M1XSR6 I D W R H G E H F R D L V D H D T A N D N G G W Q W A A S T G T D S Q P Y F
UniRef90_I3UA50 I D W R R G E H Y F A L K L N D F D L A A N N G G W Q W A A S T G C D A Q P Y F
UniRef90_UPI000472D453 I D W R R G E R W F A L K L N D Y E L A A N N G G W Q W A A S T G C C D A Q W F R
UniRef90_U3ALS4 I D W R W G E Q Y F M T K L V D G D F A A N N G G W Q W S A S T G C D G Q P Y F
UniRef90_B9GWN1 L H W E R G R D V F E R L I D S D W A I N N G N W L W L S C S S F F Y Q Y N R
UniRef90_B1XLX0 I D W R W G A A W F E S Q L I D Y D V C S N W G N W N Y T A G V G N D A R G F R
UniRef90_Q04449 I D W R L G E R Y F E R M L I D Y D P S S N I G G W Q W A A S V I G T D A V P Y F
UniRef90_D2S8X0 V D W R R G A R Y F M Q H L V D G D L A S N N H G W Q W V A G T G T D A S P Y Y
UniRef90_E9UZD7 M W W P V G A R H F M D H L V D G D M A S N S H G W Q W A A G T G T D A A P Y F
UniRef90_A2SA88 I D W R A G E A W F W D T L V D A D A S N A A N W Q W V A G C G G A D A A P Y F
UniRef90_UPI0004721B78 I D W R W G E R Y F R Q K L I D G D L A N N G G W Q W A A G T G C D A Q P Y F
UniRef90_S8A8G7 I D W R K G E K Y F M E S Q L I D G D F A S N N A G W Q F C A S S T G T D A Q P Y F
UniRef90_C6XGZ0 V D W R L G E Y F M S Q L L D G D L A S N N G G W Q W A A S T G N D S V P Y F
UniRef90_V6KM54 V D W R V G A R Y F L E L L V D G D L A N N Q L N W Q W M A A G T G T D S R P N R
UniRef90_U2ZK10 I D W R E G E K Y F M S K L I D G D Y A A N N G G W Q W C A S T G G C D G Q P Y F
UniRef90_V4NMC1 I D W R R G E Q W F W D C L V D A D P A N N P G N W Q W V A G C G G A D A A P Y F
UniRef90_K6W878 V W W P A G A R W F L D H L I D G D L A S N T H G W Q W I A G T G T D A A P Y F
UniRef90_B0XR57 L D W R R G E R Y F M E T L V D G D F A S N N H G G W G F G S S T G V D P Q P Y F
UniRef90_Q2JPS4 I D W R W G E R Y F M Q K L V D G D L A A N N G G W Q W S A S V I G T D P K P L R
UniRef90_F0LZB2 I D W R W G E R Y F M Q H L V D G D Y A A N N G G W Q W C A S T G C D G Q P Y F
UniRef90_A4SVE8 V D W R W G E A Y F A E K L N D F E L S A N N G G W Q W S A S S T G C D A Q P Y F
UniRef90_M2Y3R8 L P W Q L G A H F L Y S H L I D G D L A A N T L G W Q W T A G C G A D A A P Y F
UniRef90_UPI000225C20C L S W Q Q G E A W F W D T L V D A D L A N N S A S W Q W V A G C G G A D A A P Y F
UniRef90_K9T8L1 I N W Q M G A E W F E S L L I D Y D V L C S N Y G N W N Y T A G V G N D A R G F R
UniRef90_UPI000474D28E V D W R R G E R W F M Q H L I D G D F S A N N G G W Q W A A G T G G C D A Q P Y F
UniRef90_UPI0004662B3A I D W R L G E R W F M S Q L I D G D F A A N N G G W Q W S A S T G T D A A P Y F
UniRef90_B4WS74 I D W R M G A E W F E S L L I D Y D V L C S N W G N W N Y T A G V G N D A R G F R
UniRef90_S2K125 I D W R R G E S F F L H L V D G E F A A N N G G W Q W A A S T G T D A A P Y F
UniRef90_W7CQ69 I D W R E G E R Y F A E K L I D Y D R A S N A G G W Q W A A S T G V D A V P Y F
UniRef90_P12768 V D W R E G A R H F L D L V D G D V A N N Q L N W W V A G T G T D T R P N R
UniRef90_G8YVU5 I D W R Y G E Y F A D N L I D T D F A S N N G G W E F S A S V I G V D P Q P Y F
UniRef90_E6PGE7 L N W Q W G E R Y F E R Q L A D A D L A Q N N G G W Q W A A S T G T D A A P Y F
UniRef90_C5WCP4 I D W R L G E K Y F M L H L I D G D N L A L N N G N W Q W I S S T G N N S V P Y F
UniRef90_R3HQZ4 I D W R W G E K Y F E K M L I D Y D A A S N I G G W Q W A A S T G T D A A P Y F
UniRef90_U6B904 I D W R L G E K Y F M S Q L I D G D L A S N N G G W Q W A A S V I G S D S V P Y F
UniRef90_I8HZS6 I P W Q E G E R W F W G T L V D A D L A N N T L G W Q W V A G C G G A D A A P Y F
UniRef90_DOMJ32 I H W L R G A R W F W D T L V D A D L A N N T L G W Q W T A G C G G A D A A P Y F
UniRef90_UPI00037586A6 I S W R W G E R Y F A Q H L V D Y D P C V N N G N W Q W A A S T G C D A Q P Y F
UniRef90_K5WK78 I D W R L G E K Y F M E T L I D G D L A S N N G G W Q W S A S T G V D P V P Y F
UniRef90_M0LSW3 I D W R K G Y D W F R R R L A D H D T A N D V G G W Q W A A S T G M D A Q P Y F
UniRef90_H0A9P9 L D W K D L H Q F F N E N F V D A E I A S M I G G Q W A Y S I G T D A Q P Y F

UniRef90_A2BUR6 UniRef90_A1S3R2 UniRef90_J4WV79 UniRef90_L0M5B9 UniRef90_V2VU87 UniRef90_F8D8R8 UniRef90_A3D723 UniRef90_UPI00036A0AF1 UniRef90_UPI0004759284 UniRef90_UPI000378F2EB UniRef90_J7M3U5 UniRef90_L9VM49 UniRef90_U7PUY6 UniRef90_I3IAQ5 UniRef90_Q0BDK0 UniRef90_UPI00047707DF UniRef90_S3I4Y3 UniRef90_UPI000378F49C UniRef90_UPI0002624F80 UniRef90_Q03Y03 UniRef90_K6UXW4 UniRef90_A9ASJ0 UniRef90_U1LDG0 UniRef90_A5UYV1 UniRef90_M0PHC9 UniRef90_A0A059E4R5 UniRef90_E5AS07 UniRef90_UPI00022601C6 UniRef90_M3DAF4 UniRef90_UPI0004759882 UniRef90_UPI0003B6A7EA UniRef90_I8IAX0 UniRef90_R8EDM4 UniRef90_UPI0003A339AA UniRef90_C5BG83 UniRef90_F6EMA3 UniRef90_E2CLK5 UniRef90_E8LXK8 UniRef90_F9RK27 UniRef90_U7RYU2 UniRef90_D5QHZ9 UniRef90_D0J6L3 UniRef90_U7NYW0 UniRef90_UPI00038041D4 UniRef90_Q10W56 UniRef90_J3QA37 UniRef90_UPI0002D5CFC6 UniRef90_UOFTD1 UniRef90_UPI00023VKV0 UniRef90_T0RE18 UniRef90_UPI000200138A UniRef90_M1XSR6 UniRef90_I3UA50 UniRef90_UPI000472D453 UniRef90_U3ALS4 UniRef90_B9GWN1 UniRef90_B1XLX0 UniRef90_Q04449 UniRef90_D2S8X0 UniRef90_E9UZD7 UniRef90_A2SA88 UniRef90_UPI0004721B78 UniRef90_S8A8G7 UniRef90_C6XGZ0 UniRef90_V6KM54 UniRef90_U2ZK10 UniRef90_V4NMC1 UniRef90_K6W878 UniRef90_B0XR57 UniRef90_Q2JPS4 UniRef90_F0LZB2 UniRef90_A4SVE8 UniRef90_M2Y3R8 UniRef90_UPI000225C20C UniRef90_K9T8L1 UniRef90_UPI000474D28E UniRef90_UPI0004662B3A UniRef90_B4WS74 UniRef90_S2KI25 UniRef90_W7CQ69 UniRef90_P12768 UniRef90_G8YVU5 UniRef90_E6PGE7 UniRef90_C5WCP4 UniRef90_R3HQZ4 UniRef90_U6B904 UniRef90_I8HZS6 UniRef90_DOMJ32 UniRef90_UPI00037586A6 UniRef90_K5WK78 UniRef90_M0LSW3 UniRef90_H0A9P9

| | | | | | | 250 | | | | | | | 260 | | | | 270 | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|-----|---|---|---|---|---|---|-----|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| UniRef90_A2BUR6 | L | E | K | N | N | Y | G | A | I | V | N | H | N | T | Q | Q | R | L | F | K | D | L | Y | A | H | I | | | | | | | |
| UniRef90_A1S3R2 | F | D | S | S | G | Y | P | S | P | L | V | E | H | T | Q | A | R | V | R | A | L | D | V | M | A | V | M | K | K | G | | | |
| UniRef90_J4VW79 | R | N | K | H | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UniRef90_L0M5B9 | D | K | T | L | A | Y | P | R | P | I | V | C | H | K | Q | A | R | S | E | T | L | A | A | Y | E | A | A | R | K | A | | | |
| UniRef90_V2VU87 | K | A | G | L | G | Y | P | K | A | I | V | D | L | K | S | S | R | V | R | A | I | E | A | F | K | A | L | | | | | | |
| UniRef90_F8D8R8 | A | D | R | R | T | D | Y | P | A | P | I | V | D | H | A | E | R | R | E | R | A | I | A | A | F | E | R | A | R | G | S | | |
| UniRef90_A3D723 | T | I | K | T | A | Y | P | S | A | I | V | E | H | S | A | A | R | A | R | A | L | T | V | L | G | V | L | K | K | A | | | |
| UniRef90_UPI00036A0AF1 | V | I | G | K | D | Y | P | E | P | I | V | N | L | K | A | S | R | E | K | A | L | D | A | F | K | S | L | K | K | | | | |
| UniRef90_UPI0004759284 | H | R | K | H | N | Y | P | T | P | I | V | A | H | D | T | Q | R | Q | R | I | F | K | S | R | Y | Q | A | A | K | | | | |
| UniRef90_UPI000378F2EB | A | R | N | N | Y | P | P | I | V | D | L | K | A | S | R | Q | A | A | L | E | A | F | D | A | L | K | | | | | | | |
| UniRef90_J7M3U5 | I | I | G | T | D | Y | P | Q | P | I | V | D | H | A | K | Q | R | E | A | I | A | K | Y | E | W | A | K | | | | | | |
| UniRef90_L9VM49 | H | A | A | P | A | Y | P | A | P | I | V | D | H | A | D | R | E | R | E | A | L | E | A | F | E | R | A | R | G | | | | |
| UniRef90_U7PUY6 | A | R | E | A | G | Y | P | E | P | I | V | N | H | K | E | A | R | E | A | L | S | A | Y | K | R | A | | | | | | | |
| UniRef90_I3IAQ5 | L | T | K | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UniRef90_Q0BDK0 | R | L | G | L | D | Y | P | A | P | I | V | D | H | D | A | R | R | R | A | L | D | A | L | A | T | L | P | | | | | | |
| UniRef90_UPI00047707DF | P | E | G | V | D | Y | P | A | P | L | V | D | H | D | G | A | R | K | R | T | L | E | R | F | A | V | V | K | K | G | | | |
| UniRef90_S3I4Y3 | A | L | G | T | T | Y | P | E | P | V | D | H | A | F | A | R | D | R | V | L | V | A | Y | A | A | T | K | D | G | | | | |
| UniRef90_UPI000378F49C | T | L | G | T | T | Y | P | P | I | L | D | L | N | T | T | R | K | Q | A | L | S | A | Y | T | E | L | K | K | K | | | | |
| UniRef90_UPI0002624F80 | V | L | G | G | N | Y | P | K | R | L | I | D | H | H | E | A | R | Q | A | L | D | I | F | E | K | L | K | K | | | | | |
| UniRef90_Q03Y03 | R | I | L | Q | N | Y | P | F | P | I | V | D | H | S | Y | A | R | K | R | A | I | S | I | Y | E | S | S | K | | | | | |
| UniRef90_K6UXW4 | V | Q | Q | L | D | Y | P | K | P | I | V | D | L | K | Y | S | R | A | R | A | I | D | H | F | K | Q | | | | | | | |
| UniRef90_A9ASJ0 | A | E | G | R | T | Y | P | F | P | I | V | D | H | Q | A | S | R | T | R | A | L | E | S | V | K | R | V | | | | | | |
| UniRef90_U1LDG0 | M | G | K | D | D | Y | V | E | P | L | V | D | H | K | E | A | R | A | R | A | L | D | A | F | K | | | | | | | | |
| UniRef90_A5UYV1 | I | L | G | R | D | Y | P | A | P | V | D | H | H | E | R | R | E | R | A | L | A | L | Y | R | A | V | | | | | | | |
| UniRef90_M0PHC9 | P | T | Q | R | A | Y | P | A | P | I | V | D | H | S | E | R | R | E | A | L | A | M | Y | K | R | A | R | G | | | | | |
| UniRef90_A0A059E4R5 | E | E | G | K | T | Y | P | K | P | I | V | D | H | S | G | A | R | Q | R | A | L | D | A | Y | D | T | L | K | | | | | |
| UniRef90_E5AS07 | R | L | G | Q | T | Y | P | L | P | V | P | H | Q | Q | A | R | E | R | A | L | K | A | M | E | H | M | R | G | | | | | |
| UniRef90_UPI00022601C6 | Q | E | G | R | T | Y | P | H | P | L | I | E | H | H | K | L | A | R | E | R | A | L | S | V | W | K | S | F | R | G | | | |
| UniRef90_M3DAF4 | A | E | K | N | G | Y | P | R | P | M | V | E | H | S | K | A | R | A | K | A | L | E | R | Y | K | E | | | | | | | |
| UniRef90_UPI0004759882 | V | L | G | D | T | Y | P | A | P | I | V | D | H | A | V | Q | R | E | R | A | L | A | L | F | | | | | | | | | |
| UniRef90_UPI0003B6A7EA | P | L | G | Q | D | Y | P | K | P | I | V | S | L | S | E | S | R | E | R | A | L | A | A | Y | A | R | L | K | G | | | | |
| UniRef90_I8IAX0 | A | E | K | N | G | Y | P | R | P | I | V | D | H | A | T | R | R | A | L | A | L | D | R | Y | K | K | A | | | | | | |
| UniRef90_R8EDM4 | E | L | G | N | T | Y | P | Y | P | I | V | D | H | K | A | A | R | E | R | A | L | Y | A | Y | K | S | M | K | | | | | |
| UniRef90_UPI0003A339AA | R | E | K | L | G | Y | P | Q | P | L | I | D | Y | K | E | A | R | K | R | A | L | D | L | L | | | | | | | | | |
| UniRef90_C5BG83 | L | R | R | Q | D | Y | P | D | P | Q | V | D | H | A | R | A | R | Q | D | T | L | L | A | F | A | R | A | R | A | G | | | |
| UniRef90_F6EMA3 | D | K | I | E | N | Y | P | Q | P | I | V | D | H | K | E | R | R | E | A | L | D | R | Y | D | R | V | K | R | | | | | |
| UniRef90_E2CLK5 | R | L | G | E | T | Y | P | P | P | M | V | D | H | H | Q | E | A | R | K | K | A | L | D | G | Y | E | A | V | K | A | | | |
| UniRef90_E8LXK8 | A | K | E | L | S | Y | P | P | P | I | V | D | H | H | K | T | E | R | E | I | T | L | S | L | Y | K | E | A | K | G | N | V | |
| UniRef90_F9RK27 | V | T | S | L | S | Y | P | K | P | M | V | D | H | H | K | S | Q | A | R | E | I | T | L | R | L | F | Q | D | A | K | | | |
| UniRef90_F7RYU2 | K | Q | Q | E | T | Y | P | K | P | I | V | D | H | H | K | S | Q | A | R | E | V | F | I | S | T | F | K | Q | V | K | | | |
| UniRef90_D5QHZ9 | R | A | R | V | A | Y | P | S | P | I | V | D | L | Q | G | G | R | A | R | A | L | A | A | W | K | G | L | S | D | A | | | |
| UniRef90_D0J6L3 | T | L | G | R | D | Y | P | L | P | V | D | H | H | A | A | R | E | K | T | L | A | R | Y | G | L | K | K | | | | | | |
| UniRef90_C7NYW0 | L | T | Q | R | E | Y | P | D | P | I | V | D | H | S | E | R | R | D | Q | A | L | E | M | F | E | T | A | R | G | | | | |
| UniRef90_UPI00038041D4 | R | V | G | R | D | Y | P | A | P | V | D | H | H | A | A | R | E | R | T | L | A | R | F | A | V | A | R | D | A | | | | |
| UniRef90_Q10W56 | K | L | G | V | D | Y | P | E | P | I | V | D | L | S | W | Q | S | V | K | E | N | E | K | K | Y | N | R | A | | | | | |
| UniRef90_J3QA37 | F | K | K | L | N | Y | P | K | P | I | V | D | H | S | V | V | R | K | R | A | L | A | R | Y | K | | | | | | | | |
| UniRef90_UPI0002D5CFC6 | E | I | E | L | S | Y | V | K | P | I | V | D | H | K | L | A | R | L | K | A | I | E | M | F | E | T | A | K | S | G | | | |
| UniRef90_U0FTD1 | V | R | S | L | S | Y | P | P | P | I | V | D | H | H | K | V | E | R | E | V | T | L | R | L | Y | K | E | A | K | D | A | | |
| UniRef90_A0A023VKV0 | L | P | E | R | D | Y | P | L | P | I | V | S | H | K | I | Q | R | K | K | A | I | A | K | Y | E | W | A | K | | | | | |
| UniRef90_T0RE18 | K | I | G | E | D | Y | P | S | P | I | V | N | Y | A | V | I | R | R | E | E | C | L | K | L | Y | K | T | I | K | | | | |
| UniRef90_UPI000200138A | M | E | R | A | N | Y | P | A | Q | V | V | S | H | H | K | Q | Q | A | R | F | K | A | L | Y | A | S | L | P | K | | | | |
| UniRef90_M1XSR6 | T | E | R | A | N | Y | P | E | P | V | V | E | H | S | E | R | R | E | Q | A | L | S | M | F | E | R | A | R | G | | | | |
| UniRef90_I3UA50 | D | L | D | T | T | Y | P | R | P | V | D | H | H | K | A | R | R | I | A | L | A | R | Y | G | E | L | | | | | | | |
| UniRef90_UPI000472D453 | P | E | G | T | D | Y | P | L | P | V | D | H | E | D | A | R | E | K | T | L | A | R | F | K | A | I | R | | | | | | |
| UniRef90_U3ALS4 | F | M | T | L | D | Y | F | K | P | M | V | D | H | H | K | A | E | R | E | I | T | L | Q | L | F | K | N | A | K | | | | |
| UniRef90_B9GWN1 | I | T | G | R | D | Y | P | K | P | V | Y | H | D | S | A | S | K | E | C | K | R | K | L | A | E | A | | | | | | | |
| UniRef90_B1XLX0 | I | L | G | E | T | Y | P | K | P | M | V | D | L | Q | T | S | V | Q | E | N | E | R | I | Y | Q | K | A | | | | | | |
| UniRef90_Q04449 | R | L | D | E | D | Y | P | L | P | I | V | D | H | S | K | Q | R | K | K | A | L | S | F | F | K | | | | | | | | |
| UniRef90_D2S8X0 | D | G | P | D | G | Y | P | L | P | I | V | D | H | A | E | R | R | V | A | L | E | R | Y | E | Q | V | R | | | | | | |
| UniRef90_E9UZD7 | E | L | A | H | G | Y | P | E | P | V | D | H | A | E | E | R | R | E | A | L | D | R | L | A | E | L | K | E | S | | | | |
| UniRef90_A2SA88 | R | L | G | E | T | Y | P | L | P | I | V | D | H | A | Y | D | A | R | R | R | A | L | D | A | F | G | A | I | R | | | | |
| UniRef90_UPI0004721B78 | L | L | L | A | N | Y | P | E | P | I | V | E | H | Q | F | A | R | Q | A | L | S | C | L | A | A | I | K | A | S | | | | |
| UniRef90_S8A8G7 | F | K | K | L | G | Y | P | D | P | I | V | E | H | H | K | A | R | E | R | A | L | E | R | Y | K | | | | | | | | |
| UniRef90_C6XGZ0 | D | L | S | L | N | Y | P | L | P | I | V | D | H | H | K | A | C | H | H | T | L | N | Q | Y | A | A | K | K | | | | | |
| UniRef90_V6KM54 | K | A | E | R | D | Y | P | D | P | L | V | E | L | A | E | G | R | D | R | F | L | R | A | | | | | | | | | | |
| UniRef90_U2ZK10 | V | K | S | L | S | Y | P | S | P | I | V | D | H | K | A | E | R | E | I | T | L | R | L | Y | K | E | A | K | | | | | |
| UniRef90_V4NMC1 | T | K | D | V | T | Y | P | Q | P | I | V | D | H | H | A | H | A | R | D | R | A | L | D | A | Y | R | | | | | | | |
| UniRef90_K6W878 | E | G | A | H | G | Y | P | E | R | L | V | D | H | H | G | A | E | R | R | E | A | L | A | R | Y | A | E | V | R | G | A | V | |
| UniRef90_B0XR57 | A | A | K | N | G | Y | P | R | P | M | L | N | H | S | Q | Q | R | D | L | A | L | H | R | Y | K | R | A | S | E | S | | | |
| UniRef90_Q2JPS4 | R | R | S | C | G | Y | P | D | P | I | V | D | H | H | K | V | Q | Q | A | F | K | R | R | Y | Q | A | V | Q | Q | A | | | |
| UniRef90_F0LZB2 | V | N | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

UniRef90_K1PMJ9
UniRef90_U1JT29
UniRef90_R7SDD8
UniRef90_V4HU75
UniRef90_U1KR21
UniRef90_B0LQ55
UniRef90_Y0KJP4
UniRef90_K9ULC6
UniRef90_Q7MFG3
UniRef90_G3IZT8
UniRef90_UPI0003815CB8
UniRef90_U7HMU3
UniRef90_UPI000382277B
UniRef90_R7SYP5
UniRef90_UPI0002EDDBA5
UniRef90_I5B6V4
UniRef90_UPI0004046ADA
UniRef90_UPI0003C1253E
UniRef90_UPI00047015AA
UniRef90_UPI00036DC5FE
UniRef90_A6VUF2
UniRef90_M3ZPM5
UniRef90_Q4P1D4
UniRef90_UPI0003754D6F
UniRef90_M0US8
UniRef90_C7JCY6
UniRef90_UPI00035991FC
UniRef90_UPI0003699A4E
UniRef90_N9V8B5
UniRef90_W7S3J39
UniRef90_G2IZF8
UniRef90_C1KUR2
UniRef90_E8TXI3
UniRef90_I3CHU2
UniRef90_H0F6I9
UniRef90_E1ZS30
UniRef90_B3RK17
UniRef90_K9YK79
UniRef90_M0LGK1
UniRef90_A3TJ93
UniRef90_B7GJF0
UniRef90_D0FZ20
UniRef90_B5HCZ1
UniRef90_D7DL60
UniRef90_A0A022PS46
UniRef90_E2SDH5
UniRef90_UPI0003817770
UniRef90_UPI00047E63FC
UniRef90_A0A011MYB1
UniRef90_M5BMN4
UniRef90_G0AI49
UniRef90_B6BWL3
UniRef90_W0V2F0
UniRef90_A7RWD1
UniRef90_W0P4T9
UniRef90_Q6DFA2
UniRef90_F2JTA9
UniRef90_M2MPB3
UniRef90_G0A1Q7
UniRef90_W5U707
UniRef90_UPI00030A6F16
UniRef90_E8RSQ6
UniRef90_A0A025Z275
UniRef90_I0KG03
UniRef90_J9YYX4
UniRef90_A4TCB0
UniRef90_R7WR99
UniRef90_R7UL99
UniRef90_UPI0004732CF7
UniRef90_A9UXR7
UniRef90_UPI000377C9D2
UniRef90_W2UQU1
UniRef90_C5E333
UniRef90_UPI00037EF877
UniRef90_K4IGZ0
UniRef90_L1J295
UniRef90_S9T167
UniRef90_F4FZY9
UniRef90_G8M701
UniRef90_L9VXA6
UniRef90_UPI00036193B0
UniRef90_S5ADG8
UniRef90_A0A031JE64
UniRef90_UPI00037FA41B
UniRef90_E6J940
UniRef90_B9LS48
UniRef90_U3A9W9
UniRef90_S7PB29
UniRef90_UPI000380A0CD
UniRef90_UPI000476C2E8
UniRef90_G0QAU1
UniRef90_K7IVD0

1 F H G G E A E A L T R L R L E R H L E R K V A S F E R P K M S Q Q Q S L F P S S Q L S S S 40
 W P E G T D A A R R Q L L T A R F L V E R K V A S F E R R N D T P G L K G T S S Q L S S S
 G G E S E G R Q D R L D T A W L H S R R D A G A Y E Q D Q H R N L V D G D N A T S S R R L S S
 K V V Q A F I R Q E K M V D Y K A N R S D F P G V K G T S S G L S S S
 W S P G W S N A D K I L N E D F L E E K Q L I D Y K A K N R S K K V V G N S G S L L S S S
 L P T G M S G G K A L L E D F L E E R I S Y Y E E E A R N R F P A V K G P S Y L L S S S
 Y R G G E T A G L D R L N E Y L R D R L R V Y K E E T R N M L G A D Y S S K F S S S
 R E T L R R F C H E E V D R Y H E Q R D F P A T A G T S S V L S S S
 K G G R K Q A L L L D R L E G D Y V D Y L N T R D F P A L D A T S S K L S S S
 E A G E Q A A H E Q W E A F V G E H L T D Y D D T R D R P D K P G T S S R M S S S
 W L P G E D A A V R R L K V F V E E H I G D Y K R R L R D V P A E T A T S S E L S S S
 P G S Q G A E K T W L D F T Q R L P V Y H K Q T R D F P A L K G P S Y L L S S S
 W P A G E D A A H E V L R R F L E S R L G K Y N D Q R D R D V D A D T T S S R M S S S
 G G E R E G R R R M A A W L R S G V D A Y A E R H D D L A G A D A T S S L S S S
 K A L Q K K L T D F C T G P M N V Y I Q E R D D F P A V A G T S S G L S S S
 Y P A G E V A A C H R L D Q F V A D D I H N Y D V S R D V P S L H A T S S Q L S S S
 W A P G E D G A Q E K L D D F I E D G A L K G Y E E G R D F P A R D A T S S M L S S S
 Q K G L E Q L T R F I E E G L A Q Y H L P I D R D F P A R K E G T S S F L S S S
 W Q P G A D A M N R A I R F L D S A L D A Y A Q G R D L P G T T G T S S T L S S S
 W P A D H D T A K Q K L W Q F C H H K E R H Y Q E G S R D Y P L E P A T S S L L S S S
 W D F S E D G A H A R L E A F L H D G V Y R Y E K E S G R A D A P A N T S S C L S S S
 W P A T D Q A A H Q V L D N F I K G R L A R Y A E G R N L L S E N G T S S R I S S S
 H V I G E A A A Q Q A L D S F L G G A L D D Y S E H Q R D Y P F V L D G T S S Q L S S S
 W S P G W S N A D K V L S E F I S S G H L L D Y S E N R M K V E G T T S S L L S S S
 W T S G E K A A H A N L H R F I E N A L A D Y E T Q R D R A D A P G T S S L L S S S
 F P G G E T E A L D R M E Y H L K N W I C N F Y E K P K T S P N S P S T T S S L L S S S
 P A G E K A A L E R W K Y F Q K N G L D N Y D E K G R N L A G L D G T S S K L S S S
 W P V A E G E A E A R L R E F V E A E V L T A Y A E R R D F P A R Q G T S S R L S S S
 L P A G E A A A L E A W E D F R D G A L A D Y D T G R D R P D A R E G T S S Y L S S S
 I R A G M A G A A V F A D F G Q R I E H Y Q T W R D F P A A K G V S Y L S S S
 W K G G E S E A L A R L E H H L E R K V A S F G R P K M T P Q S L Y P S Y R L S S S
 P L P T G M R G A Q Q L Q D F M P R M A A Y H E A R D Y P G R K G V S Y L S S S
 W Q V I G E V H A Q H L L N Q W F E Q A M M E Y A E Q R D F P A N P S Y H L S S S
 W P A G E T A A S D R L A A F A D D A I D A Y K D E R D F P S L P A T S S C L S S S
 P F K G G E S A A L A R M A D Y L S K S V C A F S E K P K G N P A R P S T T S S V L S S S
 W H P G G E G A I Q K L K R F M S D N L K V I S Y S E K R D C I W L D A T S S N L S S S
 F M G G E T E A L K R L Q Y Y L T D N I S N Y K K T R N M L G G D Y S S K F S S S
 F E G G E S A G K R L E E F Y F E D R L R E Y K E T R N L L G A A Y G T S S K F S S S
 A G E R A A M A R W R E F C E T G L T A Y A T D R D L P A A D G T S S R L S S S
 E Q D A L H V L Q Q F I D T S L P Y Y H R Q R D I P A V S G T S S R L S S S
 W Y P G W N K T D K A L T E F V E E Q H L L H Y S K N R L K V G G D M T S S L L S S S
 G G E S A G R K R F H D W E A S G L D A Y D V Q H D S L A G D M T S S R L S S S
 L P T G M Q G G L T L F N D F I E R M S R Y K D A R D F P A I K G V S Y L S S S
 W S P G W Q N A N K A F S E F L E H N L Q S Y S T E S P L L I G A H S T S S L L S S S
 G E E A A R R R W R D W K E Q V T Q Y D D V R D L P G V D R T S S R M S S S
 Y P A G E Y T A K K R L K S F I K K D I T N Y D T A R D K P A D N S T S S H L S S S
 E A G E A A A L K R W E T F L H N G L T A Y D D E R D R P D L D T T S S R L S S S
 P G M S G G R Q R L Q D F V L G R L A L Y R Q Q R D F P A V K G V S Y L S S S
 Y P A G E D A A H E V L E R F L H S R I K E Y M N G R D H A D A D T T S S R I S S S
 P G M S G A C G L L E D F M P R L E G Q Y G Q S R D F P A V K G P S Y L S S S
 Q K Q I N E F K D R L E H Y D Q T R N F P A I K G V S Y L S S S
 L P T G M S G G A G L F E Q F L P R I A N Y G V A R D F P A I K G V S Y L S S S
 Y P G G E T E A L E R L E E V M E D W V C K F Y S K P N T A P N E P S T T S S V L S S S
 F P V I G E I E A F N R L K N F C I Y K V N D Y S L E R N F P L N S T S S M L S S S
 W K G G E S E A L C R L E Q H L E K Q V A N F Q K P Q T V P N L P S T T S S G L S S S
 W P A N Y A H L K E T L D S F C S L K E A D Y E A V R E L P S T A G T S S L L S S S
 W P A G N D A G M K R L D H F L N D K I E D Y K A H R S E P A K D A T S S R M S S S
 L P G G R Q A A L Q Q L D Q L T A C R D Y S Q Q R D F P A L A A T S S N L S S S
 W R G G E T E A L D R L N K H L M K K V A N F D R P R A H S L F A A S P T G L S S S
 D F M Q S G L L N N Y H H R D R D F P A I K G T S S G L S S S
 W T P G E D G A H Q R L S A F L R S G L K G Y A P D R D R P D L D I T S S R L S S S
 Q R Y F E L R D F P A V E G T S S R L S S S
 P F K G G E S V A L A R L N A Y I W G R L K T Y K E T R N L L G E D Y S S K F S S S
 W T P G E K A A Q D Q L S R Y L K T D I D I Y K D A R D R P D L D Q T S S K L S S S
 L P A G E T A A R R Q W K Q F V D D D L A G A Y A E D R N R P D L L A A T S S R M S S S
 E A G A A Q A W S E F V A D D L A D Y G E G R D R L D R D G T S S R M S S S
 W K G G E T E A L S R L D R H L E R K V A S F E K P K M T P L M A S P T G L S S S
 W T P G E A G A A A L A T F I E S G L A D Y A V G R D V P G R R G T S S R L S S S
 P F K G G E T A A R A L Q Y Y L W E S L A S Y K D T R N L V G G D Y S S K F S S S
 P A G E D A A L A T W S A F L D E D V E H Y A A E R D R P D H A G T S S R L S S S
 I G N Y H Q T R D F P A Q D G T S S L L G S S
 P A T E A D A H E L L Q E F I S S G N A H Y N E K K D T L S L D S T S S H L S S S
 P G G E R E A R R R V T A Y W R S G L D D Y E R T H D D L A G D A T S S R L S S S
 K D L L E H H Y E D T R N L P S I E G T S S R L S S S
 W E F G E E G A L K A L E E F V R F G C H H F G R Q R F R A D R K T A V I S S S
 L P T G M S G G A T L L D D F E D R M D D Y H A R R D F P A V R G P S Y L S S S
 F K G G R R A A L D L T L N R A Q T L D Y S L R N F P G L P G T T R L S S S
 F P A G T S A A F L F D D F R E R M S D Y G R T R D F P A L K G P S Y L L G S S
 A A A R D R L D A F C A S G I T Q Y K D R R D D L E A D A V S Y L S S S
 R G G R Q A A L A L L D D M D Q H R D Y A G R R D F P A L A A T T G L S S S
 W T P G E D G A D N L S D F I E N S A R R Y K D G R D F P A A K G T S S R L S S S
 W T P G E A G A A E R L S R D F D D E V S G Y D R A R N L P S C E G T S S R L S S S
 I K N Y E A T R N F P A K D A T S S R L L S S
 R W R A F L E D D L E H Y G Q R D R P D L D A T T S S R L S S S
 G Y R A A R E R F D G F L E H G I R S Y A D T R D D L A R A A V S R M S S
 E A G H D A A A R L D D F C A A D I Y R Y V E A R E Y P A M D A T A R I S S S
 W P G G E T E A L T R L E R H L E R K I V A N F E R P R M N A L A S P T G L S S S
 L K G G R E G F K I L K R A C N I Q D Y K N Q R D L L E K E A N T F L S S S
 P A G E K A A S G A W A F L E R V S D Y D D E R N R P D L D S T S S R M S S S
 E A G Y D G A N Q R V T R F L D N K H Y K D E R D N M R N V G V S K M S S S
 W V G G E T E A L A R L E R H L E R K V A S F G R P K M T P L L P S Q T G L S S S

UniRef90_K1PMJ9 P Y L R F G C L S 50 A R L F Y W K L R E L Y R K V K K R K D P P L S L H G Q L
UniRef90_U1JT29 P Y L A I G A I S 50 V K Q L T A E V Q C H F P D I L Q T P S K D E F T W I N E L
UniRef90_R7SDD8 P Y L A L G V I S 50 G R M V L N E A A K L G K G K R L E G R D T G V G M W V Q E V L
UniRef90_V4HU75 P H L H F G T L S 50 A A E L V H R A R R K E G A G P A A F V R Q L
UniRef90_U1KR21 P Y L A L G I V S 50 V K Q L L A E S Q L H F A D L L Q M T S A P A F S W I N E L
UniRef90_B0LQ55 P Y L H F G E I S 50 V R H V F A Q C A R M K Q I W A R D K N S E G E E S F L R N G I
UniRef90_Y0KJP4 V H L R F G T V S 50 L R Y L A R A A W Q T G S A G A S T W L N E L
UniRef90_K9ULC6 A W L A L G C L S 50 P R Y L Y Q Q V K K Y E D E R I E N D S T Y W L I F E L
UniRef90_Q7MFG3 P Y L A I G A L S 50 V R Q C I A R L Y W Q Q S Y L S N G R E V W L S E L
UniRef90_G3IZT8 A H L K F G T C S 50 V R E V F Y A I L T E Q L G S E H P L I R Q L
UniRef90_UPI0003815CB8 V H L K Y G T V H 50 P R T L L A G A R M A M G D G K G A T S Y R N E L
UniRef90_U7HMU3 V A L S A G T L A 50 P A E A W R A A R M A M R D P A A R E G A V T W I G E L
UniRef90_UPI000382277B V H L R F G T I S 50 R Q L V A F A R V Q E G S A G A Q T W L S E L
UniRef90_R7SYP5 P Y L A A G V I S 50 A R T Q V R E A L E T C G K K K V D I S R D T G V R W I Q E I
UniRef90_UPI0002EDDBA5 P Y L H F G C L S 50 A A E L A R K A R E H G G A G A E A F E R N Q L
UniRef90_I5B6V4 P Y L A I G A V S 50 S R M C L A G V I S S A E Q S R G G T T W K N E L
UniRef90_UPI0004046ADA A Y L A I G V I S 50 P R L C Y Q A A K A Q E Q L H G N D G D N E D I N R W I S E L
UniRef90_UPI0003C1253E P H L A L G E I S 50 P T T V Y W H A T K G L S R H I A S N D I S R F R K E I
UniRef90_UPI00047015AA P F L R I G A V G 50 R T V Y H A V K Q A P K S Q G Q A I F L K E L
UniRef90_UPI00036DC5FE P Y L H F G E I G 50 P R Q V L A L I A A R Y G T V E A P A A E A Y V L K E L
UniRef90_A6VUF2 P Y L A L G A L G 50 P R Q C L E A I F Y T C N Q E E R R W Q D S I W K E L
UniRef90_M3ZPM5 P Y L H F G Q L S 50 P R W L W D A K G A R C R P P K F O R K E L
UniRef90_Q4P1D4 P Y L A A G V V S 50 A R E C L R R T K Q L T K G K L H V G R D S G V A M W N T E I
UniRef90_UPI0003754D6F P H L H F G E I S 50 P T Q I S Y A T Q Q I L D A D P A L A A G Y E R F M K E L
UniRef90_MOU9S8 P Y L H Y G E I S 50 R K I Y Q N V R I K Q L O W A K E G N C R S V N F F L R S I
UniRef90_C7JCY6 P Y I R V G Q I S 50 V R Q I W H A I R H A E H Q N P H L A T P A E K F L A E L
UniRef90_UPI00035991FC P Y L K F G C L S 50 P R L F Y H R L Q Q V Y S G K K H S Q P V S L H G Q L
UniRef90_UPI0003699A4E A H L K W G E I H 50 P R T L L A P L G E S K A H D T F R K E I
UniRef90_N9V8B5 T Y L A A G V L S 50 P N Q C L A A I Q S G L G V L P M E K G A P G F A W L N E L
UniRef90_W7SJ39 T Y L R W G C V H 50 P R T L L A D L K P G N E T F R S E L
UniRef90_G2IZF8 V H L R F G T I S 50 R Q L A Q F A W Q Q G S A G A T T W L N E L
UniRef90_C1KUR2 P Y L R F G C L S 50 A R R F F A E L N D L Y R K I K K S P A P L S L H G Q L
UniRef90_E8TXI3 V H L R F G T V S 50 R Q L A A L A A A Q A A Q G C E G A Q A W L S E L
UniRef90_I3CHU2 P Y L R F G E L S 50 P R Q V F H A L L K A Q A L N P A I T T G N A Y L R Q L
UniRef90_H0F6I9 P Y L A A G V L S 50 P G Q A L R A A L A A N Q G E L D S G K A G A A T W I N E L
UniRef90_E1ZS30 P Y L K F G C L S 50 P R L F H A K L Q Q I Y A E R N G M H T Q P V S L R G Q L
UniRef90_B3RK17 P Y L H F G E I S 50 P F T I W H T A M R H S T T R S I S V P L H C T K R Y L T E L
UniRef90_K9YK79 P W L A Q G C L S 50 P R L I Y T E I E K Y E Q E R V K N D S T Y W L I F E L
UniRef90_M0LGK1 P W L A A G G L S 50 P R T W I H E E V R R Y E D E R V S N E D T Y W L V F E L
UniRef90_A3TJ93 P Y L K L G V V H 50 P R T L L A D L A R R R G E G A Q T Y I N E L
UniRef90_B7GJF0 P H L K T G T L S 50 I R T V F H A V A Q Q F G N G Y D E A V E T Y I K E L
UniRef90_D0FZ20 P Y I H F G E I S 50 V R K V F Q L A R T K Q L L W A N E G N S E S A T V F L R A I
UniRef90_B5HCZ1 P Y L H F G A L S 50 L E L V R E A S A H G G T G A E A F V R Q L
UniRef90_D7DL60 V H L R F G T I S 50 I R H L A R E A M Q S A N T G A Q T W L S E L
UniRef90_A0A022PS46 P Y L H F G E L S 50 P R K V Y Q S L M K Q I V W K N E Q N T V G E S S F L R S I
UniRef90_E2SDH5 V H L K W G T I H 50 P R T L L A D L D L D G H D S D G V R S Y V R E I
UniRef90_UPI0003817770 A Y L T V G S L S 50 A R L C Y H M A K Q L S Q N Q S G D A S A T D V K R W I S E L
UniRef90_UPI00047E63FC A P L K Y G E I H 50 P R T L L A D I A T H S A G R S E A A R T Y V T E L
UniRef90_A0A011MYB1 V H L R F G T V S 50 V R E L V A L A I A A G A L R P E A E G A A T W L S E L
UniRef90_M5BMN4 P Y L A S G V I S 50 A R E C V R A A M K V Q G I K R V D G K T N G P G V W V S E L
UniRef90_G0AI49 I H L R F G T I S 50 I R T L A R L A Y Q A L H Q G A A A G G A A I W L S E L
UniRef90_B6BWL3 V H L N R F G T I S 50 I R E M A N I C L O N Y A T S G S K S W L N E L
UniRef90_W0V2F0 V H L R F G T V S 50 L R H L V R T V V D L I D R G A G G E G A P V W L A E L
UniRef90_A7RW1D P Y M T Y G C L S 50 A R L F Y T R L A E T Y A K K K K H S Q S P P V S L H G Q L
UniRef90_W0P4T9 P Y L S I G I S 50 S R H C L S M F L K T K I N I S L N N F F N S W I N Q I
UniRef90_Q6DFA2 P Y F S F G C L S 50 A R V F Y H R L S N I Y A Q S K N H S L P P V S L Q G Q L
UniRef90_F2JTA9 P Y L A L G A V G 50 P R E L L S A L K N G Y Q I R E E G Y W A D S I W L K E L
UniRef90_M2MPB3 A Y H N S G I V S 50 M R A V L A K T K Q F N G G K H F D E G D V G V A A W V R E I
UniRef90_G0A1Q7 A Y L K F G C C S 50 V R E T Y Y A V L R E L Y M K L R R H S S P E G S L F R Q L
UniRef90_W5U707 P Y L C F G C L S 50 S R V L Y H L R E L Q H P Q A L E A I S Q P E G S W L N E L
UniRef90_UPI00030A6F16 P Y L A I G A I S 50 P K R I L S E L L H Q H P Q A L E A I S Q P E G S W L N E L
UniRef90_E8RSQ6 P H L R F G E I S 50 P H R V L H E A E A H A A A H P A L S D D L E K F R A N E L
UniRef90_A0A025Z275 A S L A T G G L S 50 P R Q C L H R L L A R E E Q P Q A L D G G A G S V W L S E L
UniRef90_I0KG03 A W L A H G C L S 50 P R Q L Y H H I K R Y E Q E R V A N E S T Y W L I F E L
UniRef90_J9YYX4 P Y L R F G E I S 50 P R T V L N I L K S K N L S T S V L T Y L S E I
UniRef90_A4TCB0 A H L K F G T I H 50 P R T L L A D L G R G K G A Q A Y L R E L
UniRef90_R7WR99 V H L K Y G T I H 50 P R T M L A E L A R R R S D G A A G R G K G A Q A Y R R Q L
UniRef90_R7UL99 P Y L R F G C L S 50 T R L F Y W R L T D L Y R K V K K R T D M P L S I H G Q L
UniRef90_UPI0004732CF7 P H L H W G E I S 50 P R G V V R A V R A A V A D G R V A P A Q A D K F I A E I
UniRef90_A9UXR7 P W L A H G N L T 50 A R W I Y H E V K R Y E Q E R T E N T S T Y W L I F E L
UniRef90_UPI000377C9D2 P Y L K F G V L H 50 P R T L L A S L A A R Q G E S E R Y V A E L
UniRef90_W2UQU1 P H L R F G T V S 50 R R L V N E K A L N E K D T T F L N E L
UniRef90_C5E333 C Y I T S G L I S 50 T R E V V N R A F H E N G M R R D I K Q N N S V E N F I K E V
UniRef90_UPI00037EF877 A H L H F G T L S 50 P V E L L V H R A R R R G G P G A D A F V R Q L
UniRef90_K4IGZ0 P Y L R F G L I G 50 Y R R K L I Q A A L S V K N E T F L N E L
UniRef90_L1J295 P Y V R F G E L S 50 P R R I F H E L V V R H R Y K A K T F L R R L
UniRef90_S9T167 T H L R F G T V S 50 I R T L A A R A H A A M L R G S R G A A T W L S E L
UniRef90_F4FZY9 P Y L K F G V L S 50 P R E V Y Y S V N E E I R R Q L
UniRef90_G8M701 V H L R H G T M S 50 I R A L A R S A H D A Q R H G D K G A E T W L G E L
UniRef90_L9VXA6 P H L A G G T I G 50 I R E V W A A V T D V F E S V D G R E R R N V E K Y G S E L
UniRef90_UPI00036193B0 A Y L K F G C C S 50 L R E A Y Y G I M E T L G E E H P L L R Q L
UniRef90_S5ADG8 P H L H F G E I S 50 P N Q V W Y A I K D R F G T S E D K S I E T Y L S E L
UniRef90_A0A031JE64 P H L H F G E I S 50 P A E I W H R V S G K G E G A A V F L K E L
UniRef90_UPI00037FA41B P H L R F G E I S 50 V R K M V E K A L A E D N E I F W Q E L
UniRef90_E6J940 A P L K Y G E I H 50 P R T L L A D L A A H P A A D G E G A R R F V T E L
UniRef90_B9LS48 P Y L A T G A I G 50 I R E M W A D A T D A F E A A T G D E R R N V D K Y R D E L
UniRef90_U3A9W9 Q D L S F G T L G 50 P R E A Y A R T T E A M A G V E N E D E G E D E D E F R R Q L
UniRef90_S7PB29 P Y L R F G C L S 50 C R L F Y F K L T D L Y K K V K N S S P L S L Y G Q L
UniRef90_UPI000380A0CD P Y L K F G C L S 50 P R E V Y H T I K N N N P D P E P L L R Q L
UniRef90_UPI000476C2E8 V H L K Y G T L H 50 P R T M L A D L G K L R S E G S A S Y R R Q I
UniRef90_G0QAU1 M Y I S N G M M G 50 M R E I L E R A V L R M D G A G S D G R R N I A K Y R N E L
UniRef90_K7IVD0 P Y L R F G C L S 50 T R L F Y Y Q L A D L Y K K I K K T I P P L S L H G Q L

UniRef90_K1PMJ9 LWR E F F Y T V A T N N P N F D R M K D N P L C V Q I P W D K N P E A L A K W
UniRef90_U1JT29 IWR E F F Y R H L V A Y P N C K Y R N F N S K Y D T V V W N D N E E L F S A W
UniRef90_R7SDD8 S W R D F Y N H V L M A R C P R V S M R P F L E R K F A D V Q W E G N D A E E N T E Q A W
UniRef90_V4HU75 C W R D F Y H H Q V L A A R P D A A H A D Y R A R E D H W R T G R D A E Q L F A W
UniRef90_U1KR21 I W R E F Y R H L C A Y P K C K G A N F N E K Y D H V D W Q Q D D A H F K A W
UniRef90_B0LQ55 G L R D E F Y S R Y L C F N F P D T H E K S L L S H L R F F P W D A D V D K F K A W
UniRef90_Y0KJP4 I W R D F Y R Q I L Y H R P D L A E K A Y K A E Y E A L Y F P N N P A H Y L A W
UniRef90_K9ULC6 L W R D Y F R F I C A K H G N N M F K R S G L Q G V N L N W K Q D W V R F D L W
UniRef90_Q7MFG3 I W R E F F Y H H L L H F E P K L V K G Q F V E W E K H L L W P A K P D W F E R W
UniRef90_G3IZT8 Y W R D F F T H I A Y H F P Q V F G R A F L E K F A D L T W D N N P D Y F Q A W
UniRef90_UPI0003815CB8 C F R D F Y G H V L W W F P R S A R E N F D P K F D R I T L D D A Q R R F A Q W
UniRef90_U7HMU3 A W R D F Y R Q I L L H R F P A L A K G P F R P E T R L L R W N D N E A H F A A W
UniRef90_UPI000382277B I W R D F Y H Q I L W H F P H A A T T A F K A D Y Q S L V F P N N P H W L A A W
UniRef90_R7SYP5 A W R D F Y N H I L L A F F P R V S M R P F L E K Y A H L Q W E T N E A H L Q A W
UniRef90_UPI0002EDDBA5 A W R D F H H Q V L A A R P D D A A S Q D Y R A R G D R W R R A G P R D A D A W
UniRef90_I5B6V4 L W R D F Y H H L M F I P D D L S R W C F H A W G D R L L W D D N N P D Y F Q A W
UniRef90_UPI0004046ADA A W R D F Y R H V L D Y K P E L I Q H Q A N E T D V K I N W S Y N E D D F D A W
UniRef90_UPI0003C1253E A W R E F C Y H L L F H F P E L D E K N W N D S F D A F G W R D N E E K S F A W
UniRef90_UPI00047015AA I W R D F Y N M I Y M V N P D Q K T M S I Q K P F R Q L E W D N H P D W F Q A W
UniRef90_UPI00036DC5FE G W R E F A H H L L Y H F P H T A T D P L D P R F A R Y P W R T E G E L L A A W
UniRef90_A6VUF2 A W R D F Y R Q L M S H F P D C K S R S P F K P E T S A L T R W Q D N E E F Q A W
UniRef90_M3ZPM5 A W R D L A Y W Q L T L F P D L P W E S L R P P Y K A L R W S T D C R H L K A W
UniRef90_Q4P1D4 S F R D F Y A H V L A A W P K C M G H A F I T K Y E D V V W E T D S S T L D A W
UniRef90_UPI0003754D6F V W R E F A I M L L Y H F P H T L D K P L D S R F E Q F P W A D E A S G L R R W
UniRef90_M0U9S8 G L R E Y S R Y L C F N F P F T Y E R S L L G S N L K H Y P W R A D A D L A A W
UniRef90_C7JCY6 G W R D F A W M Q M F T T P D L A T R N L R A E F D H M P W R A D A D L A A W
UniRef90_UPI00035991FC L W R E F F Y T V L G A V T N F D R M K G N P V C R Q L P W G S K P A H L E A W
UniRef90_UPI0003699A4E A W R E F Y A D V L W N N P H T D R K D Y S P K F A E M R Y N K P D A K F D A W
UniRef90_N9V8B5 I W R E F Y R H L L Y L E P H S M N Q P F Q R H T R A L A W S H D E K H F T A W
UniRef90_W7SJ39 A W R E F Y A D V L W H Q P K T A R E N Y D R K F D K F E H D T A Q Q R F E A W
UniRef90_G2IZF8 I W R E F Y Q Q L W H Y P H V V E S F K P E Y R Q L G F P N D D S L F V A W
UniRef90_C1KUR2 L W R E F Y Y T A A T N N P K F D H M E G N P I C V Q I P W D K N A E A L A K W
UniRef90_E8TX13 A W R D F Y F M I L W H H P C Q V A T Q S F K P V Y D R V Q W D D A P E L W Q A W
UniRef90_I3CHU2 Y W R E F A H Y L L Y H F P H T P E K A L Y S Q F D N F P Y Q E N T E L L M A W
UniRef90_H0F6I9 L W R E F Y Q H L L A A Y P S S M H Q P M K P E T A A V P W R D A P D D L A A W
UniRef90_E1ZS30 L W R E F F T L C G A A I P N D F R M A G N P L C K Q I P W V D D E R I A A W
UniRef90_B3RK17 G W R E F T C H L L F H Y P D L P E K S N F H Q L K L E I D D E E K L H A W
UniRef90_K9YK79 L W R D F F R F T C L K Y G N S V F H K S G L Q N T I Q I P W Q E N Q N L F E L W
UniRef90_M0LGK1 L W R D F F Q F Q F C K H G S R F H P N G I R D V V E K A W E R D P R A F D R W
UniRef90_A3TJ93 G W R E F Y A D V L W H N P S S A W K D L R D P L A G M A Y D E P R A D A I E A W
UniRef90_B7GJF0 A W R D F Y H M I Y A H F P F T K T E A F I E K Y R H L P W S R D D E R F E A W
UniRef90_D0FZ20 G L R E Y S R Y L C F N F P S T I E K P L L G N L A F F P W K T D D A N F K A W
UniRef90_B5HCZ1 C W R D F H H Q V M A A R P A S S V E D Y R P R H D R W R T Q D D A E D I T A W
UniRef90_D7DL60 I W R D F Y V Q I L H H N P S V A G R A Y K V E F E S L K F P N D T A L F Q A W
UniRef90_A0A022PS46 G L R E Y S R Y L C F N F P F T H E R P L L G A L R F F P W D F D Q A R F K A W
UniRef90_E2SDH5 A F R E F Y A D V L H H R P D S A H G Y N P A L A R M E Y D R P G E S L D A W
UniRef90_UPI0003817770 A W R D F Y R H V I V D R P D I V K G Y N K Q A D K K V I W S Y D M D D F Q V W
UniRef90_UPI00047E63FC V W R E F Y A D V L W H R P D S A W H D L R P E L A R L P Y D S G D E T D D A W
UniRef90_A0A011MYB1 V W R D F Y F M I L W D R F P H V V E R S F R P E Y D A I V W E Q A F A D W
UniRef90_M5BMN4 A W R D F Y T H V M A A F P R V S M R P F H E K Y A D V E W E T T A A H L K A W
UniRef90_G0A149 I W R D F Y F M I L H H H P H V A G A A F K P E Y D A I R W E R A H S L F L A W
UniRef90_B6BWL3 I W R D F Y F Q I I V N F S H Q D G H S F K L Q Y D N L Q Y E N N E S F F F E S W
UniRef90_W0V2F0 I W R D F Y A M I L L F N H P H V V G A A F K P A Y D A I V W E T A D A F A A W
UniRef90_A7RWD1 L W R E F F T T A A Y K T N F N F N K M V G N S L C L Q V I P W D Q N D E Y L A A W
UniRef90_W0P4T9 L W R E F Y Y H L L I S F P K S K N Q A L V E W E N R I D W N N K H F N A W
UniRef90_Q6DFA2 L W R E F F Y T A A S S T P N F T H M V G N P I C L Q I E W Y K N E E Q L Q K W
UniRef90_F2JTA9 A W R D F Y R Q L M W H F P R S M R Q A F K P E T E Q I W S K N D T H F Q A W
UniRef90_M2MPB3 V F R E F Y R Q L T I I T P H T T M N P Q N L K F D F V I W S E D D V D G W K W
UniRef90_G0A1Q7 Y W R D F F T Q I L A F H F P R V F G H A F H E R Y D K I V W R N D R E E F Q A W
UniRef90_W5U707 L W R E F F Y T A A S N N P S F D R M E G N P I C V Q I P W D Q N P E A L A K W
UniRef90_UPI00030A6F16 A W R D F Y R H L L H H F P D N K H R N F N A K Y N G L S W L N S P K L L H A W
UniRef90_E8RSQ6 A W R D F S Y N I L Q L Q P E L D R V N F K S A F D A M P W R D D P A G L R A W
UniRef90_A0A025Z275 I W R E F Y R H L M T Y Y P S C K H C P F I A W T D R V Q W S N P A H L Q A W
UniRef90_I0KG03 L W R D F F R F V A L K F G T R I F C P S G I R Y D L K K W H D L A L F H Q W
UniRef90_J9YYX4 G W R E F S Y S L L Y Y S K N L S S V P I N L K F Q N F P W R K S V K D L D L W
UniRef90_A4TCB0 A F R D F Y A A D V A E W P R S T W W N W N S T F D A M E V D D A Q R A F E A W
UniRef90_R7WR99 A W R D F Y A D F L H H R P D T A R R N Y D G R F D A M Q Y E T A D E A F A W
UniRef90_R7UL99 L W R E F F Y T A A T N N P K F D R M V G N P I C V Q V I P W D K N P E A L A K W
UniRef90_UPI0004732CF7 G W R E F S A H L L H Q F P Y M A Q R A F R P E F D A M P W R A D P E G L Q A W
UniRef90_A9UXR7 L W R D Y F R F V L Q H G T A I F K P G G V Q H K D V P W R H S P A D F E A W
UniRef90_UPI000377C9D2 A W R E F Y A D V L F R H P G S V T S D L R P L P L S Y D E P G D A F S A W
UniRef90_W2UQU1 I W R E F F M Q I L Y H F P H T T T K S F K P K Y D R I N W R N D E N E F L A W
UniRef90_C5E333 A W R D F H K H V M C N W P Y M S M E A I K F E T M D L K W E N D E K F S K W
UniRef90_UPI00037EF877 A W R D F H R Q V L A A R P A A A H A D Y R T R H D H W R P R T A R A D I E A W
UniRef90_K4IGZ0 I W R E F Y K A L L Y N H P K T Q N S A F K P K Y D R I E W R N D E N E F E K W
UniRef90_L1J295 A W R D L A Y W C L W K F P T M A D H P L R P Q Y A H Q T W D Y D Q K L R A W
UniRef90_S9T167 I W R D F Y F M I L H H R P D L A D G S F H P E F D R I R W E T G D T R F D A W
UniRef90_F4FZY9 Y W R D F F T L L A Y Y N P Y V F G H A Y K R E Y D C V G W N A D T N L F S A W
UniRef90_G8M701 I W R E F Y F S V L H H R P H V D H R A F R P E Y D R I G W D A D A N F A A W
UniRef90_L9VXA6 S W R E W N Y L L L Y E F P E L A S E N Y N D P P N E I A W R N A D D A E L A A W
UniRef90_UPI00036193B0 Y W R D F F T H I A F H F P H V F G Q A F H R Q Y D A L P W R N D P D D F Q A W
UniRef90_S5ADG8 G W R E F S Y L L F H F P T L P N K N F N D K F D K F P W R T D A K A L K A W
UniRef90_A0A031JE64 I W R D Y A H V Q I W V M P E Y G S K N A R G T F D N M P W R D L R E D F A A W
UniRef90_UPI00037FA41B I W R E F F M S I L W H F P H T Q N E S F K A K Y D R I E W R N E T E F K A W
UniRef90_E6J940 A W R E F Y A D V L W H Q P R S A W R D L R D A L S G M P Y D R G P E V N E A W
UniRef90_B9LS48 S W R E Q M Y H L L Y Y T P D L A V A N Y K S F P N E T A W R E D D T A F E A W
UniRef90_U3A9W9 A W R E F Y A Q V L Y F N P A V V T E N Y D D Y E N P I A W R N D G A E I A A W
UniRef90_S7PB29 L W R E F F Y T A A T N N P R F D K M E G N P I C V Q I P W D K N P E A L A K W
UniRef90_UPI000380A0CD Y W R D F F T I T A F Y F P H V F G N A F N K S F Q N V W S K D E N T F T L W
UniRef90_UPI000476C2E8 A W R D F Y A D I L F Q R P D S A R E N Y D K F D K I E L D H A Q E L F D A W
UniRef90_G0QAU1 G W R E W F Q Y L L M Y N P E T V Q E N Y K D M K P V E W R D N P E H L Q A W
UniRef90_K7IVDU L W R E F F Y C A A T N N P N F D R M H G N P I C V Q I P W D K N V V A L S K W

Table with UniRef90 IDs in the first column and amino acid sequences in the subsequent columns. Residue positions 130, 140, 150, and 160 are indicated above the columns. The sequences are color-coded with yellow and red highlights.

UniRef90_K1PMJ9 I S W E E G M K V F E E L L L D A D W S V N A G M W M W L S C S S F F Q Q Q F F H
UniRef90_U1JT29 I D W R K G E R Y F M E K L I D G D F A S N S G G W Q W A A S T G C D A Q Q P Y F
UniRef90_R7SDD8 L D W R L G E K Y F M E S F I D G D L A A N N Q M N G G W Q W T A S T G T D T D P Q P Y F
UniRef90_V4HU75 V D W R T G A D H F L S L L V D G D I L A A N N Q M N G G W Q W V A G T G T D T R P H R
UniRef90_U1KR21 I D W R K G E H Y F M S K L I D G D L A S N N G G W Q W A A S T G C D A Q Q P Y F
UniRef90_B0LQ55 L P W K W G M K Y F W D T L L D A D L E C D I L G W Q Y I S G S I P D G A H Q E L D
UniRef90_Y0KJP4 V D W R W G E R Y F A E Y L I D F D F S A N N G G W Q W A A S T G C D A Q Q P Y F
UniRef90_K9ULC6 I D W R M G A E W F E S L L I D Y D V C S N W G N W N Y T A G V I G N D A R V F R
UniRef90_Q7MFG3 V N W R L G E Q Y F M Q K L I D G D F A A N N G G W Q W C A S T G C D G Q P Y F
UniRef90_G3IZT8 I D W R W G E R Y F A R H L V D Y D P C V N N G N W Q W T A S T G C D A Q P Y F
UniRef90_UPI0003815CB8 L P W W W G A R H F M N L L V D G D L A S N Q H G W Q W A A G T G T D A A P Y F
UniRef90_U7HMU3 I D W R R G E R F F M Q H L I D G D F A A N N G G W Q W S A S T G T D A A P Y F
UniRef90_UPI000382277B I D W R L G E A Y F A E K L L D F D L A A N N G G W Q W S A S T G C D A Q P Y F
UniRef90_R7SYP5 I D W R L G E R Y F M E V L I D G D L A S N N G G W Q W S A S T G T D P A P Y F
UniRef90_UPI0002EDDBA5 T D W R V G A E H F L G L V D G D L A A N N Q L N G W Q W V A G T G T D T R P N R
UniRef90_I5B6V4 I D W R H G Q A Y F M R H L V D G D F P A A N N G G W Q W S A S T G C D A Q P Y F
UniRef90_UPI0004046ADA I D W R L G E R Y F M Q Q L I D G D F A S N N G G W Q W S A S T G T D S A P Y F
UniRef90_UPI0003C1253E I D W R K G E R Y F R D T L V D A D P A S N A A N G W Q W V A G S T G T D A S P F F
UniRef90_UPI00047015AA V D W R L G E E Y F K E K L I D Y D S A S N I G W Q W A A S T G T D A V P Y F
UniRef90_UPI00036DC5FE L P W Q A G A A W F W D T L V D A D L A A N T L G W Q W T A G C G A D A A P Y F
UniRef90_A6VUF2 A D W R R G E A Y F M S K L I D G E F A A N N G G W Q W S A S T G C D A A P Y F
UniRef90_M3ZPM5 L P W Q E G E R Y F Q D T L M D A D V A I D A M M W Q N G M C G L D H W N F
UniRef90_Q4P1D4 H D W R H G E R H F S L N F I D Q D F A S N N G G W Q W S A S T G T D P Q P Y F
UniRef90_UPI0003754D6F L P W Q L G E Q W F R D T L V D A D L A A N N V L G W Q W V A G C G L A D A P Y F
UniRef90_M0U9S8 L P W T W G L K Y F R D T L L D A D L E S D I L G W Q Y V A G S L G P D A G H E L K
UniRef90_C7JCY6 T D W R E G E R W F Y A Q L I D A D A A V N A M N W Q W G A G T G I D A A W F R
UniRef90_UPI00035991FC V S W E Q G M K V F E E L L L D A D W S L N A G M W M W L S A S A F F H Q Y F R
UniRef90_UPI0003699A4E L E W Q L G A D F F M E H L V D F D V A S N A H G W Q W T A G T G T D A S P Y Y
UniRef90_N9V8B5 I S W R R G E D Y F M S Q L I D G D L A A N N G G W Q W A A G T G A D A A P Y F
UniRef90_W7S3J9 V P W W W G A R H F M R Q L I D G D L A A N N Q H N W Q W V A G C G T D A A P Y F
UniRef90_G2IZF8 V D W R W G E R Y F A E K L I D Y D L A A N N G G W Q W A A S T G C D A Q W F R
UniRef90_C1KUR2 V S W E E G M K V F D E L L L D A D W S V N A G S W M W L S C S S F F Q Q F F H
UniRef90_E8TX13 L D W R R G E R H F A A H L N D Y D L A A N N G G W Q W A A S T G C D A Q W F R
UniRef90_I3CHU2 L P W Q T G A R Y F W D T L V D A D L A A N T L G W Q W V A G C G A D A A P Y Y
UniRef90_H0F6I9 I D W R L G E A W F M S Q L I D G D L A A N N G G W Q W S A S T G A D A V P Y F
UniRef90_E1ZS30 C S W E A G Q A V F D K Y L I D A D W S L N A A N W Q W L S A S A F F S Q Y F R
UniRef90_B3RK17 I P W Q K G E E W F N R Y L D A D L A Q S V C N W Q W L A G C G P D V A P Y F
UniRef90_K9YK79 I N W Q M G A E W F E S L L I D Y D V C S N W G N W N Y T A G V I G N D A R G F R
UniRef90_M0LGK1 I D W R W G A A R Y F E E R L V D Y D V A S N N G N W A Y Q A G V I G N D S R D N
UniRef90_A3TJ93 V W W P V G A R H F L L I D G D I L A S N N H G W Q W V A G T G T D A S P Y F
UniRef90_B7GJF0 I D W R M G E Q Y F Q H M L I D Y D E A S N I G G W Q W A A S V I G T D A V P Y F
UniRef90_D0FZ20 I P W R W G M K Y F W D T L L D A D L E S D I L G W Q Y I S G C L P D G H K L E
UniRef90_B5HCZ1 V D W R L G A R Y F L D R L V D G D I V N N Q L N W Q W V A G T G T D T R P H R
UniRef90_D7DL60 I D W R W G E R Y F A E K L I D F D L S A N N G G W Q W A A S T G C D A Q W F R
UniRef90_A0A022PS46 L P W Q W G M K Y F W D T L L D A D L E C D I L G W Q Y I S G S I P D G A H Q E L
UniRef90_E2SDH5 V E W T H G A A H F M D R L A D G D L A S N Q H G W Q W V A G C G T D A S P Y Y
UniRef90_UPI0003817770 I D W R W G E R Y F M Q R L I D G D F A S N N G G W Q W S A S V I G T D A S P Y F
UniRef90_UPI00047E63FC V W W P V G A Q H F L D H L V D G D I A S N N H S W Q W V A G T G T D A S P Y V
UniRef90_A0A011MYB1 L D W R W G A R Y F A R Q L I D F D L A A N N G G W Q W A A S T G C D A Q P Y F
UniRef90_M5BMN4 L D W R L G E K Y F M E Q F I D G D L A S N N G G W Q W S A S T G T D P Q P Y F
UniRef90_G0A149 I D W R W G E R Y F A E K L N D Y D F L A A N N G G W Q W A A S S G C C D A Q P Y F
UniRef90_B6BWL3 I D W R W G E Y F A E K L I D Y D F S A N N G G W Q W A A S V I G C D A Q W F R
UniRef90_W0V2F0 I D W R R G E A Y F A Q H L N D F D L S S N N G G W Q W A S S S G C C D A Q P Y F
UniRef90_A7RWD1 I S W E E G L K Y F E R L L I D H D W N L N A G M W M W L S A S S F F H A Y F R
UniRef90_W0P4T9 I D W R M G E K Y F M S H L I D G D L A L N N G G W Q W S A S I G T D S V P Y I
UniRef90_Q6DFA2 I S W E E G M K V F E E L L L D A D Y S I N A G N W M W L S A S A F F H H Y T R
UniRef90_F2JTA9 I D W R K G E D Y F M S K L I D G E F A A N N G G W Q W S A S T G C D A V P Y F
UniRef90_M2MPB3 I D Y R L G E R Y F A E H L V D W D L N N T Q G W E P S
UniRef90_G0A1Q7 I D W R W G E R Y F A R H L L D Y D P C V N N G N W Q W A A S T G C D A Q P Y F
UniRef90_W5U707 I S W E S G M R V F E E M L D A D W S V N A G S W M W L S C S S A F F Q Q F F H
UniRef90_UPI00030A6F16 V D W R L G E K F F M E H L I D G D L A S A N N G G W Q W A A G T G C D A Q P Y F
UniRef90_E8RSQ6 I D W R Q G E Q W F W D T L V D A D P A S N T A S W Q W V A G S G A D A A P Y F
UniRef90_A0A025Z275 I D W R E G E R Y F M S Q L I D G D L A A N N G G W Q W A A S T G T D A A P Y F
UniRef90_I0KG03 I D W T W G A M W F E S Q L V D Y D P C S N W G N W N Y Q A G V I G N D P R Q P F
UniRef90_J9YYX4 L N W T L G E Q Y F Q E T L L D Y D E A S N A A G W Q W I A G C G A D A S P Y F
UniRef90_A4TCB0 L P W Q W G A R W F L D Q L T D G D M A N N Q H G W Q W A A G C G T D A A P Y F
UniRef90_R7WR99 L P W W W G A R H F M T Q L V D G D L A A N N Q H G W Q W T A G T G T D A S P Y F
UniRef90_R7UL99 I S W E E G M K V F E E Q L L D A D W S I N A G M W L W L S C S S F F Q Q F F H
UniRef90_UPI0004732CF7 I D W R E G E A W F W D T L V D A D Q A S N V Q N W Q W V A G S G A D A A P Y F
UniRef90_A9UXR7 I D W R L G A E W F E T L L D H D P C S N Y G N W N Y A A G V I G N D P R Q G R
UniRef90_UPI000377C9D2 I W W P H G A R H F L D R L I D G D L A S N A H G W Q W V A G T G T D A A P Y F
UniRef90_W2UQU1 I D W R W G E A Y F A Q K L L D Y E M S N V G N W Q W V A G S G V D A A P Y F
UniRef90_C5E333 V D W R W G E R Y F R K L L D A D L A S N A G G W G F C S T G I D A A Q P Y F
UniRef90_UPI00037EF877 V D W R V G A A H F L H W L V D G D I S N N Q L N W Q W T A G T G T D S R P N R
UniRef90_K4IG20 I D W R W G E A Y F A E K L L D Y E M S N V G G W Q W V A G S G V D A A P Y F
UniRef90_L1J295 M H W V D G E K W F H D T L V D A E M A I N A Y M W Q N G G H S G L D Q W N F
UniRef90_S9T167 I D W R R G E Q Y F A D V L N D F D F A A N N G G W Q W A A S S G C D A Q W F R
UniRef90_F4FZY9 V D W R W G E K Y F A T K L V D Y D P S V N N G N W Q W V A S T G V D R M F R
UniRef90_G8M701 I D W R R G E A Y F E A L N D F D L S N N G G W Q W A A S S G C D A Q P Y F
UniRef90_L9VXA6 I D W R L G A A H F R D R L V D H D P A T N A G S W Q W I A S T G T D S V D V R
UniRef90_UPI00036193B0 V D W R W G E R Y F A R H L L D Y D P S I N N G N W Q W A A S T G C D A Q P Y F
UniRef90_S5ADG8 L S H E G E R W F W D T L L D A D L A S N S A S W Q W V A G S G A D A A P Y F
UniRef90_A0A031JE64 I D W R H G A R W F W D T L V D A D Y A N N S V N W Q W V A G S G V D A N I F S
UniRef90_UPI00037FA41B I D W R W G E A Y F A E K L H D Y E M A S N V G N W Q W V A G S G V D A S P Y F
UniRef90_E6J940 V W W P V G A R H F L D H L L D G E L A S N N H G W Q W V A G T G T D A S P F F
UniRef90_B9LS48 I D W R R G A R Y F T T Q L I D H D H A S N H G A W Q W T A S T G T D S V D V R
UniRef90_U3A9W9 C D W R V G Y R H F R E R L V D H D T A N D T G G W Q W A A S T G T D A Q P Y F
UniRef90_S7PB29 I S W E E G
UniRef90_UPI000380A0CD I N W L W G E K Y F A T K L I D Y D P P V N N G N W Q W V A G T G C D A Q P Y F
UniRef90_UPI000476C2E8 L P W W W G A R Y F L D R L V D G D L A S N Q H G W Q W T A G T G T D A S P Y F
UniRef90_G0QAU1 I D W R E G A R H F E R L A D H D T A S N Y G S W Q W S A S T G T D S V D V R
UniRef90_K7IVD0 I S W E E G M K V F D E L L L D A D W S I N A G M W M W L S C S S F F Q Q F F H

UniRef90_K1PMJ9
UniRef90_U1JT29
UniRef90_R7SDD8
UniRef90_V4HU75
UniRef90_U1KR21
UniRef90_B0LQ55
UniRef90_Y0KJP4
UniRef90_K9ULC6
UniRef90_Q7MFG3
UniRef90_G3IZT8
UniRef90_UPI0003815CB8
UniRef90_U7HMU3
UniRef90_UPI000382277B
UniRef90_R7SYP5
UniRef90_UPI0002EDDBA5
UniRef90_I5B6V4
UniRef90_UPI0004046ADA
UniRef90_UPI0003C1253E
UniRef90_UPI00047015AA
UniRef90_UPI00036DC5FE
UniRef90_A6VUF2
UniRef90_M3ZPM5
UniRef90_Q4P1D4
UniRef90_UPI0003754D6F
UniRef90_MOU9S8
UniRef90_C7JCY6
UniRef90_UPI00035991FC
UniRef90_UPI0003699A4E
UniRef90_N9V8B5
UniRef90_W7SJ39
UniRef90_G2IZF8
UniRef90_C1KUR2
UniRef90_E8TXI3
UniRef90_I3CHU2
UniRef90_HOF6I9
UniRef90_E1ZS30
UniRef90_B3RK17
UniRef90_K9YK79
UniRef90_MOLGK1
UniRef90_A3TJ93
UniRef90_B7GJF0
UniRef90_D0FZ20
UniRef90_B5HCZ1
UniRef90_D7DL60
UniRef90_A0A022PS46
UniRef90_E2SDH5
UniRef90_UPI0003817770
UniRef90_UPI00047E63FC
UniRef90_A0A011MYB1
UniRef90_M5BMN4
UniRef90_G0AI49
UniRef90_B6BWL3
UniRef90_W0V2F0
UniRef90_A7RW1D
UniRef90_W0P4T9
UniRef90_Q6DFA2
UniRef90_F2JTA9
UniRef90_M2MPB3
UniRef90_G0A1Q7
UniRef90_W5U707
UniRef90_UPI00030A6F16
UniRef90_E8RSQ6
UniRef90_A0A025Z275
UniRef90_I0KGO3
UniRef90_J9YYX4
UniRef90_A4TCB0
UniRef90_R7WR99
UniRef90_R7UL99
UniRef90_UPI0004732CF7
UniRef90_A9UXR7
UniRef90_UPI000377C9D2
UniRef90_W2UQU1
UniRef90_C5E333
UniRef90_UPI00037EF877
UniRef90_K4IGZ0
UniRef90_L1J295
UniRef90_S9T167
UniRef90_F4FZY9
UniRef90_G8M701
UniRef90_L9VXA6
UniRef90_UPI00036193B0
UniRef90_S5ADG8
UniRef90_A0A031JE64
UniRef90_UPI00037FA41B
UniRef90_E6J940
UniRef90_B9LS48
UniRef90_U3A9W9
UniRef90_S7PB29
UniRef90_UPI000380A0CD
UniRef90_UPI000476C2E8
UniRef90_G0QAU1
UniRef90_K7IVD0

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

210

220

230

240

UniRef90_K1PMJ9 I L I G K D Y P V P M I V N H A E V S K R M K Q V Y Q Q L 250 260 270
 UniRef90_U1JT29 F S S S N Y S P A T V E H K E A R Q R A L D A F K
 UniRef90_R7SDD8 F N K L G D Y P D P I V D H K Q S R E R A L F R Y K N V
 UniRef90_V4HU75 R A G L G D Y P D P V V G L S E G L D R F R R A R G
 UniRef90_U1KR21 F G I S G Y M K P I V E H K A A R E R A L A A F K
 UniRef90_B0LQ55 L L G T N Y A K P I V D I D T A R E L L A K A I S R T R E A
 UniRef90_Y0KJP4 E I G R D Y P Y P I V D H A V Q R A L A L D L Y K S A K
 UniRef90_K9ULC6 R L G V D Y P Q P V V D L K S A R
 UniRef90_Q7MFG3 H S A C S Y P A P I V D H K Q E R E I T L S L Y T Q A K D C L
 UniRef90_G3IZT8 E P A D Y P E P M V D H K A E R N E A L S R F N S L
 UniRef90_UPI0003815CB8 L L T G D Y P P P L V P H E G V K Q R V E A A F R A A R D A
 UniRef90_U7HMU3 T L G K D Y P A P I V D H G V Q R V Q A L D L F K A A K G G
 UniRef90_UPI000382277B A D K L G Y P R A L V E H D M A R K Q A I E R Y K N I
 UniRef90_R7SYP5 L R E R G Y P E P I V E L D A G R D R F L A A
 UniRef90_UPI0002EDDBA5 G S T Q S Y P P I V D H A K A R L V A L Q R Y S Q K K
 UniRef90_I5B6V4 F R R L D Y P A P M V E H K A A R Q L A I T E F K K
 UniRef90_UPI0004046ADA K E G K T Y P L P I V D H A K
 UniRef90_UPI0003C1253E V I G K D Y P Y P I V D H
 UniRef90_UPI00047015AA T L G A D Y P P P S I V D L A R S R L E A L A G F E T I K G S
 UniRef90_UPI00036DC5FE R K G C H Y P E P I I D Y K P A R L A A L A A F D E L K G
 UniRef90_A6VUF2 A S G Q T Y P E R I V N L E E Q R S K S L Q D V A L V R K
 UniRef90_M3ZPM5 F E K L G Y P K P L V E H A Q A R Q R A L K R Y K N
 UniRef90_Q4P1D4 E G L A D Y P L A M L D L A E S R Q Q A L A A F A S I K S A
 UniRef90_UPI0003754D6F R L G L N Y P Q P I V E F D T A R D Q A V N M M W Q L D R A
 UniRef90_M0U9S8 T Q R L K Y P A P I V D L K L G R L R A L E N W K N L P K
 UniRef90_C7JCY6 I V I G K D Y P R P I V D H D R A R Q E N I K K M
 UniRef90_UPI00035991FC D G S K G Y P E R I V D H A T E R L E S L V R L Q E I K A
 UniRef90_UPI0003699A4E G P L G N Y P A P I V D H G A A R L R A I A M F K E L
 UniRef90_N9V8B5 E E Y P A P I V D H A H E R R V S L D R Y E A I R
 UniRef90_W7SJ39 L L G R D Y P R P L V D H A E Q R T R A L A L F G Q R Q K A
 UniRef90_G2IZF8 V I G R D Y P M P M V D H V K Q S Q A N L M R M K Q V
 UniRef90_C1KUR2 R L G V D Y P L P I V D H A R A R E R T L M R F H
 UniRef90_E8TXI3 Q R I L G Y P C P I V D Y K T T K A Q A L S L Y E T I K K
 UniRef90_I3CHU2 R A A A C Y P Q P I V D L A Q S R L R A L E A F G N L P S A
 UniRef90_H0F6I9 L S G K D Y P R P I V D H Q A A M K E N M A R M K A A Y G A
 UniRef90_E1ZS30 T L G K T Y P R P L V E H K V A R E L A L A T Y S Q L K R
 UniRef90_B3RK17 K E G V T Y P R P M V D F F K S V K H N E K V Y
 UniRef90_K9YK79 R P G V D Y P E P I D L E A R Y E
 UniRef90_M0LGK1 D G A H G Y P Q R L V D H A E E R R E A L R R L G E L K D S
 UniRef90_A3TJ93 I L Q T D Y P A P T V D H Q L Q R Q R A I A L F R
 UniRef90_B7GJF0 L L G Q N Y P K P I D I D Q A R E Q L T E A
 UniRef90_D0FZ20 A D R R D Y P D P L I D L A E G L A R F K H A R G
 UniRef90_B5HCZ1 L T G K D Y A A P V V D H A T Q R L Q A L A L Y K N I
 UniRef90_D7DL60 D L G V N Y P N P I D I D L A K E R L T E A L A V M
 UniRef90_A0A022PS46 T P P D G Y P A P L V D H A E E R R E A L R R Y E A V R
 UniRef90_E2SDH5 Y N N V N Y P T P M V E H K Q A R L Y A I G Q F K A G K
 UniRef90_UPI0003817770 N G Y D D Y P R P V I D H D D E R K E T L A R Y D H A R R
 UniRef90_UPI00047E63FC R V G C E T P P P L V D H D E A R R R T L Q R Y A V V R R A
 UniRef90_A0A011MYB1 F K K L G Y P E P L V D H K E A R E R A L R R Y K N
 UniRef90_M5BMN4 R L G Q D Y P P P L V Q H D E A R K A T L Q R Y A V V K
 UniRef90_G0AI49 F T P K D Y P K P I D H A T Q R P K A L K M F E H V
 UniRef90_B6BWL3 R L G R D Y P E P I V Q H D M A R K E T L E R Y A V V K A
 UniRef90_W0V2F0 L I G R D Y P C P I V D H N K V V T R N M S R M K E A R S
 UniRef90_A7RWD1 K K M K D Y P D P L I N Y D S R K R T L L I F K R V R S
 UniRef90_W0P4T9 L I G K D Y P L P M V D H T T A S E H N L Q L M R L V R E A
 UniRef90_Q6DFA2 R Q Q C R Y P E P I D Y K S A R K H A L D A F A E
 UniRef90_F2JTA9 F E K L G Y P Y P H I D Y A Q S A Q R A K Q R Y K Q
 UniRef90_M2MPB3 L A G D Y P P P I V E H G L R S Q Q A K V L F Q Q A
 UniRef90_G0A1Q7 I V G V D Y P K P M I N H A E S S R L N I E R M K Q V
 UniRef90_W5U707 K Q N E S Y W P A V V D H H A T A R Q Q A L S F Y K
 UniRef90_UPI00030A6F16 S N S K G A P R L I V D H A A V A R Q R A L D A Y A Q M K K
 UniRef90_E8RSQ6 Q K A L D Y P Q P I V D H K E A R L R T L A A Y E E A R K G
 UniRef90_A0A025Z275 T L G N Q Y P P I V D P A K W Q A E A R
 UniRef90_I0KG03 V N Q N L Y E P L V D L K D S R N R A L E A Y Q K I K
 UniRef90_J9YYX4 D R P A D Y P E P I V D H A Q E R A E A L R R Y N S L R G
 UniRef90_A4TCB0 G A Y P E P I V D H A H E R R V A L A R F D A I R S
 UniRef90_R7WR99 M E G V D Y P L P I V N H A E I S Q I N M E R M K Q I
 UniRef90_R7UL99 R L G R T Y P R P I V D H
 UniRef90_UPI0004732CF7 S E G S T Y P R P V D
 UniRef90_A9UXR7 D G Y A G Y P Q R I V D H D A E R K E A L A R Y Q L A R R G
 UniRef90_UPI000377C9D2 K D A V D Y P S P I V D L K D S R E R A L E A F R E A
 UniRef90_W2UQU1 G P E R D Y P D P V V G L S E G L A R F R R A R G
 UniRef90_C5E333 T D R Y P K P M V D H K I A R E R C L E T Y K E A V K S
 UniRef90_UPI00037EF877 V L G R N Y P H R I D L E G A R T R S L A A V N A V R C G V
 UniRef90_L1J295 V L G E T Y P H P I V D H A G A R A A T L D R Y A V T K A
 UniRef90_S9T167 V D G Y P K P I V N Y L J E E V R K A R E Y Y E K S R S
 UniRef90_F4FZY9 A L G A D Y P P P L V D H G A A R N R T L A R Y D V V R G
 UniRef90_G8M701 A D V R D Y P D P I V D R N A A Y G R A Q R V F E A A
 UniRef90_L9VXA6 Q P G D Y P A P I D H T L R S R Q T K A L F Q S L Q K
 UniRef90_UPI00036193B0
 UniRef90_S5ADG8 A R P R D Y P A K R V G H R Q A R E R A L A A Y R H V K R
 UniRef90_UPI00037FA41B D G H D G Y P E R I V D H H A E E R L E A L R R Y D V V R N G
 UniRef90_E6J940 R V E R E Y P H P I V D R N E G Y E R A Q R V F E E A
 UniRef90_B9LS48 A D E R D Y P D P L V D H G E R R E A A I D A F E A A R S
 UniRef90_U3A9W9 L I G I N Y P K P M V N H A E A S R L N I E R M K Q I
 UniRef90_S7PB29 Y P Q I D Y P A P I V N H H E E A E Q S K I L F K N A R
 UniRef90_UPI000380A0CD R P K D Y P D A I V D H K H E R E V A L A R F K A L
 UniRef90_UPI000476C2E8 D R G I N Y P D P L V N Y G Q R F G E A K K V F N R A
 UniRef90_G0QAU1 I I G Q E Y A L P M V N H S K S S R I N V E R M K R V
 UniRef90_K7IVD0

```

1       10       20       30       40
UniRef90_UPI0003793DEA 1 WQCGEAAAGLRLQLQAFLADTVAAGYADKRDPAALRAATSSRLLS
UniRef90_F0SC80          WTPEGEGARNRLEESFVTERLADYHDRAARNDEPAALKGATSSRLLS
UniRef90_A4AIU5        WTPEGEGATARRERMADFFVAKAAAYDRTARNMPSSEDEGATSSRLLS
UniRef90_F3WSN0        WKPGVGGVGGALSLEEFHFLAEERLTFEHYDKRTNRFPAKKEGSSRLLS
UniRef90_A8JF11        WKPGVGGVGGALSLEEFHFLAEERLTFEHYDKRTNRFPAKKEGSSRLLS
UniRef90_UPI0004209860 UniRef90_J9YG9          FVGGEDNAVKRLNEYTITKSVGSYAITRYNGLIAGANYSSKFLS
UniRef90_T1KEA9        WVGGETEALQLRQLSRLHLEEHKVAATFGKPKKLKSLLAGASQTTGLLG
UniRef90_Q2P5K7        WHAGEAGAHEMLFEFFIDGGGLSGYRKNRDRPDRVIGTSRLLS
UniRef90_G7UV77        WQAGEAGAHLALEVFVEGALRGLDQDRDLPDRVIGTSRLLS
UniRef90_C8PY65        YPAGEEAAQSRLLDFFLKKHLADYNTARDLPALNNTSSRLLS
UniRef90_UPI0003B3A6AA UniRef90_Q5V438        WTPEGEGAGAQRLLEESFVLDTRARRYDEQNRNLPSCSGTSSMLLS
UniRef90_H3BZL6        FPGGEQEALRRRLEEDQMKKWVCFNFEPQTSPNSPSTTVLSS
UniRef90_A9E3M9        FVGGETEKALELMEEYIKDRVNSFSKPFTSPNKPSTTALSS
UniRef90_J9J1P3        FVGGETEKALELMEEYIKDRVNSFSKPFTSPNKPSTTALSS
UniRef90_G2LPG0        FPGGEEKEALSRLKKNFCYTKTKNYAKLKKKFSLLIDSSMLSS
UniRef90_UPI0003F97D48 UniRef90_K1QHW3        WDFGEEGAWKALEELFLLSEGVRYKYEKESCRADHLNLCRIS
UniRef90_H5U7A1        LPAGEDAALERWRRTFVDDDLVSGYESDRDRPDLDDVSSRMS
UniRef90_H8H2B3        GGRQAARQRLLEESFLLTTRGVDDYMRMMSRPAEDSSCRIS
UniRef90_U4V2F4        GGEAAIDQLYHFFDFTTRDRYAGDRDRPDLDDVSSRMS
UniRef90_I2EUD2        FRGGETSAIYRLDEYFDWKPKTYKETRNLVGGDYSTKFLS
UniRef90_V5A4Z7        PGGYAGARDRLDRFQFGELDTYNDTRDLDLEGGATVSSRMS
UniRef90_U4V6F2        AGEDVLAQDLFLQFMDTGVDRYATGRDLMGVNGTSSRMS
UniRef90_UPI00046694CF UniRef90_W8BJA9        FPGGEGTARGLRRLAARWTSGGMAAYGERHDDLAGDATTSSRLLS
UniRef90_UPI0001D2D5EC UniRef90_U2YLN4        WRPGGEGARARLDAFLVEDGVRDYAAARDFAAKDNVSSRLLS
UniRef90_UPI0002558F5B UniRef90_Q31DQ9        WQVVGEGHKAWSKFETITTEGLANYEQDRDFPAILDGTSSRLLS
UniRef90_H6BMC5        WPAAGHDAAVQRLNEFLSCLKLADYAATRSNPAKDDSTSSRLLS
UniRef90_D5V5K7        WPAAGHDAAVQRLNEFLSCLKLADYAATRSNPAKDDSTSSRLLS
UniRef90_G8RM32        LPAGERAAKRQWRSFVQKHLLDGYAENRNRPLDLPATSSRMS
UniRef90_F9WZJ1        YPAGSPAAARLRAHFLLSSKAHQYNAASRSDDPAHAATSSLLS
UniRef90_UPI00046E6CD1 UniRef90_UPI00047AD618 UniRef90_UPI0003B4E2F8 UniRef90_D7UWG4        LPA GGRHAA LDRLA IIGNCKNYLAVRDFPAMAATSSQLLS
UniRef90_UPI000377F9ED EEQAVANWQTFLENESEIEAYETNREVLAEKTSWLLS
UniRef90_H7FP28        KGGENLAWRYLDSFVKERYVINYSKHLISKPAARKGCSSRMS
UniRef90_D5UUQ6        PAGEASAALDRWHFRFTDEVLARYAQDRLRDPDVEDASSRLLS
UniRef90_A0A013WVY0    UniRef90_B3RK16        WTPEGEGARAHLTAFLDEVGDYPAVARNLPDVEGSSRLLS
UniRef90_Q30Q43        PGEDGAIKRLKEFLKYKLVDYRKGKETVWPSKTSQLLS
UniRef90_D2QTL3        PFGGGETVLAJRLDRYLTDLIATYKETRNLLGEGDYSSKFLS
UniRef90_UPI000413050C UniRef90_G8S688        GGETEGRRLQAWFKEMARYAEDHDDMAADNTSSRLLS
UniRef90_C6W145        ELWFRFRDERLPLDYHRTRDDLPVGDVDTSSRLLS
UniRef90_G4SXM1        LRGGRQAALIAIFDALLENLKEYQNRDYPALASTSSRLLS
UniRef90_E4TU72        GGTAAQAYKYLNSFLSDRHFEGYKNKRSKPAEASSCRIS
UniRef90_M5XLH3        WSPGWSNADKALTTFINDGPLLEYSQNRKADGATSSLLS
UniRef90_G0LHQ3        PSGYEAADRLDRFCDDRGLIYDYNDRDDLAGAAVSSRMS
UniRef90_UPI000377C3CC UniRef90_UPI0003FB3FF0 UniRef90_UPI00045EAE8D UniRef90_Q2BJV5        WTPEGEGAKARLJLAFLDNLGPRYAAERDHPAVGATSSRLLS
UniRef90_UPI000255F041 UniRef90_U1PZQ7        KGGEKLAWRYLKSFVEDRVKNYNRHISKPSRTGCSSRLLS
UniRef90_L0G0D5        WPAgteAAHKLQGHYVLEEKVADYKQRSDFPAEPGTSSLLS
UniRef90_E2S0F6        WPGCVTAGEALLAGLEEITVTGYSSTTRDVPDGDGTSSRLLS
UniRef90_U1RLW8        PAGEDAAGKRFDRFCNQALFQYNDMRDLPAAAVSSRLLS
UniRef90_UPI00047A26CF UniRef90_W7KKG5        WTPEGEGARERLAQQLDLANYAERDRPAAENATSSLLS
UniRef90_Q2CFF7        EQQAARKAWAFLSSEDISNYKMTDDVSSQDYVSSRLLS
UniRef90_UPI000382E752 UniRef90_G2NQ94        FKGGRVKTAGLRYMKSFFEERLVQNSHRSKPAARKGCSSRLLS
UniRef90_D8S8F7        GEAAAARRLERFVEERLADYPAARNRFDVEGTSGLLS
UniRef90_D7AW62        EAAARTRWLDFLAEERLGRYAERDRPDLDATSSRMS
UniRef90_I2GB54        GGEAAARGRLRAWLDRLGPRYARRRDDLPAATSSGLLS
UniRef90_UPI000225DF23 UniRef90_UPI000360039C UniRef90_C1FHX2        FRGGETEVAJLTRLLEDSLESKVVCEAFYKPKGDPAPATSSVLLS
UniRef90_B7QTF8        RGGERRAARERLDAAWLSGLAAAYPDRHDDLPGAATSSVLLS
UniRef90_UPI00026CAC8A UniRef90_UPI000475C65C UniRef90_H8KNL7        WTVGEDAAHERLQGWADHVAEYSDGRNFLPSVDQTTSSRLLS
UniRef90_UPI000348790 UniRef90_G6A0C2        PFEVGGESAALARVRYVSEKIATYFETRNMLGGDYSSKFLS
UniRef90_U5E2V6        CRVGGEEAADRLDEFIETGLIARYQDRLRDLPSAVDGTSSRLLS
UniRef90_UPI000374B3D1 UniRef90_C5DP22        WTPEGEDAARKRLNAFRTDQARYDETARNLPASIVEGTSSRLLS
UniRef90_A1SER8        WQPGQAAGLDLHSLAQRARTYQRGMSSPAQAQVCSRLLS
UniRef90_C7P560        RGGELISGRVLLRKWLAGPIIDEYAAARNDDLAAADATSSRLLS
UniRef90_BOEVY5        RGGELISGRVLLRKWLAGPIIDEYAAARNDDLAAADATSSRLLS
UniRef90_C5DP22        EEAALSRLRKYLEDGIDKYPEKDLIHESSHMS
UniRef90_A1SER8        DRVDEYAEEDRPAVDGTSSQMS
UniRef90_C7P560        PGGRAAGARRLRQFVADLEEQYPGNLSAPARTGTSSQLLS
UniRef90_BOEVY5        YKGGESEALKRLQWVMKNDFTPEETLHSLLSXSAATHLLS

```

UniRef90_UPI0003793DEA P Y L R F G N L S V R Q V W Y A A L S 60 A A S A D A G A A G A D L D K F L D E I
UniRef90_F0SC80 M H L R F G T I S I R K L A R Y A L D Y N E T F Y L N E I
UniRef90_A4AIU5 P H L R F G E I S P T R A V W H L R G T G S T D V P N P A R N N V A K F L S E I
UniRef90_F3WSN0 P H L R F G E V S P R A V W H L R D R K A E T E T F R K E I
UniRef90_A8JF11 P W I H I G S I S V R Y I F Y R V R Q A E W L A A G T D R A Q S C D D F L Q Q M
UniRef90_UPI0004209860 I H L R F G T I S I R K L A L K A Y G L N E T Y L N E I
UniRef90_J91YG9 P W L A C G A L S P K Y I J Y Q V K E F E K T H K S N E S T K V T F L D E I
UniRef90_T1KEA9 P Y L R F G C I S P R L L Y H Q L S N L Y S K L K K G N P P L T L C G Q L
UniRef90_Q2P5K7 P H L H F G E I A P W R I A S A L E A Q R T A R N G A E I D G Y I R Q L
UniRef90_G7UV77 P H L H F G E I A P W R V T A R L Q A Q R G V S L D R D I D G F I R Q L
UniRef90_C8PY65 P Y L A I G M L S P R L C Y L E A R Q K L N S Q Q G L G S E K D I M R W I S E L
UniRef90_UPI0003B3A6AA P H L H F G E V S P A T V W H A V A D A G G S V D V F L S E L
UniRef90_Q5V438 P Y L A A G M I G I R E M W R D A S D R H T E A T G D A Q R N I Q K Y R Y E L
UniRef90_H3BZL6 P Y V T F G C L S A R T F W W R L S D V Y S G K K H S A P P V S L H G Q L
UniRef90_A9E3M9 P H L R F G T I S I R K C V I Q N G L Q S E N N V F L K E L
UniRef90_J9J1P3 P Y L K F G C L S I R L F F H E K V K S V L R S D C T Q P P V S L I G O I
UniRef90_G2LPG0 P Y L S A G I I S S R H C L I M L R N I Q N Q E S F K N I L L N S T W F N Q I
UniRef90_UPI0003F97D48 P H L R F G T V S V R Q M V R D A D K E R N K T F L D E I
UniRef90_K1QHW3 P Y L H F G Q I S P R A V L E A R H M K S P K T F L R K L
UniRef90_H5U7A1 A Y L K F G N I H P R T M A A D L G R S Q S A Q A Y L R R E L
UniRef90_H8H2B3 A P L V F G T I S L R E V V Q A T R Q R L A A V K G D P A A D P R W V F E S R E L
UniRef90_U4V2F4 A H L R F G E I S P R Q V W H A T V S L M D Q D H V T V P G G K F F E S E L
UniRef90_I2EUD2 A W L S L G C I S P R T I Y E E V K K Y E K E V E A N E S T Y W I F E L
UniRef90_V5A4Z7 P Y L S S G I I G I R E V Y N A A S E V Y E S T Y G S E R R N V D K Y R Y E L
UniRef90_U4V6F2 Q F L T L G E I S P R Q V W H V A R A Q A M M Q G A D A E A F I R Q L
UniRef90_UPI00046694CF P Y F H F G A L S P V E A I H R A R G I G G P G A E A F V R Q L
UniRef90_W8BJA9 P Y L K F G C L S A R L F H Q R L M D I L K R H P K H S K P P V S L H G Q L
UniRef90_UPI0001D2D5EC P H L H W G E I G P R Q V W R A I E G A D A P R A D I A A F L R E L
UniRef90_U2YLN4 P R L R W G E L S P H T V W H A G V E T G G G T G A H A T S A S R F L S E L
UniRef90_UPI0002558F5B P A L T I G S L S A R Q C L A A L K A T Y Q D E S W Q S S T W L N E L
UniRef90_Q31DQ9 P H L H F G E L S S R A I V F E L S L E T E P T I A N Q A I R V W L R Q L
UniRef90_H6BMC5 A Y L S S G V I S V R E V L T A V R K H N S G S A S H G A D A G L S G W V R E L
UniRef90_D5V5K7 V D L R F G T I S P R M L F N E I K K G S D K E N S E A F I R Q L
UniRef90_G8RM32 A H L K F G T I H P R T M A A D L G S S A D A Q A Y I R R E L
UniRef90_F9WZJ1 P H L S V G S I S A R T I L S L T R S I G Q P S N L S D W S R D G S R W I R E L
UniRef90_UPI00046E6CD1 P H L R F G T V S I R K L V N W A N R K N Q T F L S E L
UniRef90_UPI00047AD618 A Y L K F G C C S V R E A F S I Q A E L D P D H P L L R Q L
UniRef90_UPI0003B4E2F8 V H L R F G T I S V R K L V I Q Y A A K F Q E E T Y L K E L
UniRef90_D7UWG4 V H L A Y G L I D I Q K I F N Q L G L D Q R E A N E K N Y E A F I R E L
UniRef90_UPI000377F9ED I H L R F G T V S I R K A A R I G L K K G K T F L N E L
UniRef90_H7FP28 P Y L T Y G A I S M R M I Y Q Y T N Q H Y E N S K N K R A I L N F V S R L
UniRef90_D5UUQ6 P H L K V G A V H P R T L T L G L G S S D G A A K Y A S E L
UniRef90_A0A013WVY0 P H L H F G E I S P A T V W H R V A S G Q D A T I Y L K E L
UniRef90_B3RK16 T H L H F G E I S P F V V W H T A K E S V H L R S V P S D S S Q K F L T E L
UniRef90_Q30Q43 V D L R F G T I S I R E V L L E V L K L A E V S E P F I R Q L
UniRef90_D2QTL3 A W L A T G C L S P R K I Y E E V T R Y E T E R V R N E S T Y W L I F E L
UniRef90_UPI000413050C V H L R F G T I S I R E L A A K A T E A S E K D D S P G A Q A Y I R Q L
UniRef90_G8S688 A Y L R F G C L S P L E L L A L A A K A D D S P G A Q A Y I R Q L
UniRef90_C6W145 A F L R W G V V H P R T L L D D L G Q D E G S K V F R S E L
UniRef90_G4SXM1 A H L K F G T V S I R E A F Y V V Q C V L G D G H P L L R Q F
UniRef90_E4TU72 P Y L A Y G N I S M R V A F Q S M I S A K E H G N K S A L N N F G S I
UniRef90_M5XLH3 P H L H F G E L S V R K A F H L V R I K Q V L W A N E G N K E S V N L F L K S I
UniRef90_G0LHQ3 P Y L S G G M I G I R E V W D A A S S V Y E A V H G N E R R N A D K Y R Y E L
UniRef90_UPI000377C3CC I H L R F G T I S I R K L V H K V S S L N E T F L G E I
UniRef90_UPI0003FB3FF0 P H L R F G E I A V A R V V H E V M K A A S S E A A E K F L A E I
UniRef90_UPI00045EAE8D P Y L A W G C L S I R Q V Y Q V S E L K K K S G F Q V R N F T N F Q S R L
UniRef90_Q2BJV5 P Y L S V G V L S T R Q C L A A M Q A Y F D Q P E W F D S Q W V T E L
UniRef90_UPI000255F041 P R L R F G E L S P R Q L H A V T A H P E L G V P E N E D R R A W V R Q L
UniRef90_U1PZQ7 P Y I A G G M I G I R S L W N R T Q N L A D S V S G R E R R N A E K F P Y E L
UniRef90_L0G0D5 I H L R F G T I S I R K L A L E A E K L N A T F L S E L
UniRef90_E2S0F6 P H L R F G E V S P R E V V F A A A E E P E A A K T F H S E L
UniRef90_U1RLW8 K Y L A Y G L L D I H E I I N D L L E D Y E N D E A N Y E S Y I R E V
UniRef90_UPI00047A26CF P Y I A W G N L S I R Q V Y T K A W E L H Q Q G K F K R Q I S N F A S R L
UniRef90_W7KKG5 P H L K F G T V S P R E V Y Y A L R E N L A J A F T R Q L
UniRef90_Q2CFF7 E N L A V G E I S A R S C W Q A G L M A R D A G N P G A E T F L K E V
UniRef90_E6SFH1 V P L K Y G E I H P R T L L A D I L E A S H P D G R T G G A A T F V T E L
UniRef90_UPI000382E752 A D L R F G C L S P T E L I H R A R S A G G A G A E A F V R Q L
UniRef90_G2NQ94 P H L H F G T L S P T E L I H R A R S A G G A G A E A F V R Q L
UniRef90_D8S8F7 P Y L K F G C L S S R L E V Y S R V K E V Y S R A K S F T S P P V S L E A Q L
UniRef90_D7AW62 A D L R L G C L S P L E A A L A A S P L A G G E A F V R Q L
UniRef90_I2GB54 I H L R F G T I S I R D L V R Q A Q A T S E R F L T E L
UniRef90_UPI000225DF23 P H L H W G E I S P V T I W H A L K D K R S D G W K T F E S E L
UniRef90_UPI000360039C A A L H F G H L S S R A L F A L L E S Q R Q G T N K P Q Q N Q Q V W M S Q L
UniRef90_C1FHX2 P W L A H G C V S P R Q V A E V R K F E S Q R V E N K S T Y W L I F E L
UniRef90_B7QTF8 E N L A W G E I S P Q R M W H R G A E A M A Q G A A G A E T F L K E V
UniRef90_UPI00026CAC8A P H L H F G E L S A A Q V W H A V T D A G G S V D V F L S E I
UniRef90_UPI000475C65C P H L A L G E V S P N T A W H V I A D A V G E T V A E P Y L S E L
UniRef90_H8KNL7 I H L R F G T I S I R R L A R K A Y E A N S L A W L N E L
UniRef90_W5BDB3 P Y L R F G E L S V R K V F H K V R V K Q L V W S N E G N H E S C T L F L R S V
UniRef90_E3JA07 P Y L H L G C L S A L E L A T Q A G T G D A A R D F V R Q L
UniRef90_UPI000468ACE8 E N L A L G E I S P H Q C W A G E R A L E E G K Q G A E T F L K E L
UniRef90_T0RK11 I H L R F G T I S I R E Y V R E A K K I N E T W L S E L
UniRef90_UPI00037C772A P Y L R F G C L S V R E V H R H V D E K A P D G R G K S M F V S R L
UniRef90_W0DU63 I H L H F G E I S S V A I L E A C R N A I T S R P A D S E A I H A F I R S L
UniRef90_UPI00034D8790 P R L R W G E I S P Y Q V W H A T L R E H R G S G K H A E S A T G F L S E L
UniRef90_G6A0C2 P H L S W G S L S P R E V E Q A V R R A Q L G P Q D Q M F K R S L A S F S S R L
UniRef90_U5E2V6 P H L H F G C L S P V E I V H R T D L S T E G G H A F A R Q L
UniRef90_UPI000374B3D1 I H F R F G T I S I R E K A R R A R Q L N E F L N E L
UniRef90_C5DP22 A Y L S V G V I S A R T V V N E A F H L K L V G K S P K D M I P M E E F I R E V
UniRef90_A1SER8 A H L K W G E I H P R T M L A D L A R R R G A G A A T Y R K E L
UniRef90_C7P560 P H L R F G S L S V R E Y A D Y V M D N A P P C T G R E M F V S R L
UniRef90_B0EVY5 P Y L R C G C L S P R L L H Q R I T E E Y I K S K G V S P P S E L F V K L

UniRef90_UPI0003793DEA G W R E F S Y Y L L Y H F A A L H Q V N F R R Q F D A M P W R D D P Q A L L G A W
UniRef90_F0SC80 I W R D F F Y M M I L L Y H Y P K R I V R H S F R K A D Y D K I P W L N N E K D F K A W
UniRef90_A4AIU5 G W R E F S T D A L L F D N P R D Y L A T D S N G R P A Y F N A F P W G Y T V D A D L E A W
UniRef90_F3WSN0 A W R D F F T G D V V M A I P P R D Y A D R N S Y R E A F D K M P W R K A E A D L E A W
UniRef90_A8JF11 G Y R E Y S R Y L A F H F P F I H E R S L L R H L R A C P W R I D Q H A F K A W
UniRef90_UPI0004209860 I W R E F F Y Q M L L A Y N P D T V V D K A F K P A Y D A L P W R N N E N E N F K R W
UniRef90_J91YG9 F W R D F Y R F W A L L K Y G N Q M F S S Y G I Y N R Y Y N W Q E D R E N E N V R R W
UniRef90_T1KEA9 L W R E F F Y Y C V A T N N P N F D K M Q N N P L C V Q I A W N S N A E A L N K W
UniRef90_Q2P5K7 G W R D F A Y H L L H H F P D T T N Q N L N P R F E G F D W A K D P V A L Q A W
UniRef90_G7UV77 V W R E F F A H L L L H H F P H T A Q N L N P R F D R F D W S T A P G P L Q A W
UniRef90_C8PY65 A W R D F Y Y D V M V N R P D V K G K A F P L D E S V A W R Y D L A D F E S W
UniRef90_UPI0003B3A6AA G W R D Y A E N L L L Q C P D Y G A R N G R A A F D A L E P W R D A P E E L A A W
UniRef90_Q5V438 S W R E Q S Y H L L Y Y N P T L L S E N Y K T F P N R I E W E N D E D N F E A W
UniRef90_H3BZL6 L W R E F F Y T A S V G I P N F N K M A D N P V C T Q V I D W D T D E S E Y L A A W
UniRef90_A9E3M9 V W R E F F M Q I L W H F P K S V T N N F K S K Y D G I K W R N D E D E Y K A W
UniRef90_J9J1P3 Y W R E F F Y A K S Y T V K N F H V M Q G N P L C K Q I N W N K D E E I K K A W
UniRef90_G2LPG0 L W R E F F Y Y H L L I G F P E I K F Q S L T K W E K N I D W I D N K Y L N A W
UniRef90_UPI0003F97D48 V W R E F F M Q I L Y H F P N T V T E A F K K K Y D R L N W R N N E D E F E L W
UniRef90_K1QHW3 A W R D L S Y W L L T L W P D L T A S Q N L N P T R V H Y R D Q A W S R D P G H L K A W
UniRef90_H5U7A1 A F R D F Y A D V L Y N W P K S L W H N W N D Q F D D T A L D T A E K H F D A W
UniRef90_H8H2B3 H W H C H F M Q R L E S E P A M E F R N L N R A F D D L R P E W N S Q E H F D R W
UniRef90_U4V2F4 I W R D F F Y H L Q L Y Y R P D I A E I D M R D T L A N T R W Q S N S G G I N S
UniRef90_I2EUD2 I W R D Y F H F I A L K F G T R I F K Q S G V K N D M K Q W K R N Q E V F E K W
UniRef90_V5A4Z7 S W R E Q N Y H L L Y Y N P D L A V I S N Y K S I P N K I A W R N D E D D F R A W
UniRef90_U4V6F2 V W R E F G Y H L M Y H T P H I T T G N W S E K W D H F P W Q E D D H P H A W
UniRef90_UPI00046694CF C W R D F H H Q V L A A R P E A S W R D Y R T R D D R W R G E D D A E D I A A W
UniRef90_W8BJA9 L W R E F F Y Y T A A A S E S N F D R E M L G N K F C M Q I P W E I N E E H L T A W
UniRef90_UPI0001D2D5EC G W R E F F C H H L L L D H P S L P R A M P L L D P D F A R F P W Q D D G T L F R A W
UniRef90_U2YLN4 G W R E F A W H T L Y H F P D L A T K N W R K G F D A F P W P A D P A H L T A W
UniRef90_UPI0002558F5B V W R E F F Y R H L L V S F P G Q R Y E P F R P E A E T I S W L D N Q H L E A W
UniRef90_Q31DQ9 A W R E F F A R A L L W H F P H T E T H P F Q A K F E T F Y R P E S K N Y Q A W
UniRef90_H6BMC5 V F R E L Y R Q T T L T T P H T A M N P Q N L K F E F V Q W E D D E E G Y D R W
UniRef90_D5V5K7 F W R E F Y A Y I L F H F P N S E N E N W N G I E I E S W S E D D E D F Q K W
UniRef90_G8RM32 A F R D F Y A A V L D Q W P D S V W W N W N K S F D K I E V D D D E D A F D A W
UniRef90_F9WZJ1 A W R E F Y R H I M I A H P W I S M G K P F Q Y E S W T P E P L A T T Y F T A W
UniRef90_UPI00046E6CD1 I W R E F F I Q I L F S F P K C V N H A F K S A Y D G I Q W R N N E D D F K R W
UniRef90_UPI00047AD618 C W R D F F T H I G F H F P H V F G H A F D R R Y D G L L W R N Q E D F W A W
UniRef90_UPI0003B4E2F8 I W R E F F M Q I L W H F P H T V H Q S F R P K Y D A I Q W K N D E K L F E K W
UniRef90_D7UWG4 L F R E F Y Y V L M V T Y P E M A T Q S F K P N Y R Q I E W S L N K A N F E R W
UniRef90_UPI000377F9ED I W R D F Y I M L L T H F P H V A K G N F H K K Y D A L E W R N D E A E F Q A W
UniRef90_H7FP28 H W H C H F I Q K F E D E C R M E F E N V N R A Y D T L V K P K N E R Y I K A W
UniRef90_D5UUQ6 C W R D F Y A D V L Y H M P D S L R T D L T K A L A G L E Y T P P A G D F T A W
UniRef90_A0A013WVY0 I W R D H A H V Q I C Q M P T Y G S E N A R A D F D A L E W R D A G S D F A A W
UniRef90_B3RK16 G W R D F C F H L L H Y Y P D F P E K S Y K L N F D E T I W K V D K E K L K L W
UniRef90_Q30Q43 I F R D F Y A Y A L E H T P H V I E S E N Y K Y S F N G I E D E K F I A F
UniRef90_D2QTL3 L W R D F F R F V A L K F G T R I F K R S G I K H D L H K T Y R D E D K L F Q K W
UniRef90_UPI000413050C I W R D F Y A M I L W H F P Y T V D A A F K S Q Y D Q I E W R N N A E E F K A W
UniRef90_G8S688 C W R D F Y Y Q V T A T F P E I S T R P L R R E K A D Q N W R Y D D D A L R H W
UniRef90_C6W145 A W R E F Y A D V L W H H P A S A R H L N D R R F D R T E L D E D R D H F D A W
UniRef90_G4SXM1 Y W R D F F T H I A Y H F P E V F G H A F V R K Y D A L P W R N D Q A Q F Y A W
UniRef90_E4TU72 R W H C H F I Q K F E M E D R Y E F E N I N R G Y D S I R Q N E N D I L Y E A W
UniRef90_M5XLH3 G L R E Y S R Y I S F N H P Y S H E R P L L G H L K F F P W I I N Q S Y F K A W
UniRef90_G0LHQ3 S W R E Q N Y H L L Y Y N P D L A V I S N Y K S I P N E I Q W R D D D E A F K S W
UniRef90_UPI000377C3CC I W R E F F M M I L Y H N P R V V D E S Y K E K Y D R L K W R N E E G E F R Q W
UniRef90_UPI0003FB3FF0 G W R E F A W H L L A G F P D L A S A N F Q T G F D R F P W R T D E A F A A W
UniRef90_UPI00045EAE8D R W H C H F I Q K F E M E S R M E F E P I N K G F L E F Y P K V N H D W I Q A W
UniRef90_Q2BJV5 I W R E F Y R H L L V L F P E M R W E P F K P E E E K L S W Q Y D D S L F Q A W
UniRef90_UPI000255F041 Y W R E F S W H L T Y H C P P L E S G P L R P E F R A F P W E P D D A L R A W
UniRef90_U1PZQ7 S W R E Q N Y H L L Y Y N P D L A V I E N Y N E F P N Q M Q W R E D K D D F N A W
UniRef90_L0G0D5 V W R E F F M M I L L Y H H P Q V V T E S F K K Y D N I P W R N N E E E F N K W
UniRef90_E2S0F6 L W R D F A W H R L Y H L P N I A T E S N V R E K F D R F D W S W D P R L K D W
UniRef90_U1RLW8 M F R E F Y Y I L M T Q Y P E T A T K A F T E K Y R N M Q W S Y N K Q N F D A W
UniRef90_UPI00047A26CF R W Q A H F I Q K F E M E C S M E F I A V N K G Y R N L N Q R V N E K Y H K A W
UniRef90_W7KKG5 F W R D F Y T L L A Y Y N E R V F Q E P F K A K F D V K W R N D R V L F E L W
UniRef90_Q2CF77 A W R D F A Y H L L H H T P R L A T D N W R P E W A A F P W N T D E D A P E A W
UniRef90_E6SFH1 A W R E F Y A D V L W H H P E S A W E D L R P D L G R M S Y D D G P E T D R A W
UniRef90_UPI000382E752 A W R D F H H Q V A R A F P D L P V R D Y R P R D R G W R E D P D A L D A W
UniRef90_G2NQ94 C W R D F H H Q V L A A R P A A S H A D Y R T R D D R W R T R T A A G D I E A W
UniRef90_D8S8F7 L W R E F F Y T A Y A T A N F D K M V G N P L C K Q I P W K D D D E L L S A W
UniRef90_D7AW62 A W R D F H H Q V T A A F P A V N V R D Y R P R D R K W R E D P D A L D A W
UniRef90_I2GB54 A W R D F Y F Q I L D H F P H V I E K H A F R R E Y E N I P F L N R A E D I E R W
UniRef90_UPI000225DF23 I W R D Y A Q N I V Y Q F P D Y P R E T Y R D A I D D T K L W R N Q E E L E A W
UniRef90_UPI000360039C A W R E F A R S I L W H F P E S E H Q A F Y P K F E G F Y P D A D H K N Y Q A W
UniRef90_C1FHX2 I W R D F F K F F A L K H G N A I F F S A G Y K G G A G P W R D D P A A L A A W
UniRef90_B7QTF8 V W R E F A Y H L M F H T P H L L T K S W R E E W Q S F A W S E N E D T P E A W
UniRef90_UPI00026CAC8A G W R D Y A Q N V I L Q Y P D Y G T R N G R D A L G G L E W R E A N A D L E A W
UniRef90_UPI000475C65C G W R D F A N I I D Q F P D H G D A P N R E A F N R F P F I D D P V G L T A W
UniRef90_H8KNL7 I W R D F Y F M I L W H F P Y V V S K A F K P A Y D H I Q W R N N E E E F R R W
UniRef90_W5BDB3 G L R E Y S R Y L C F N H P C S H E K P L L A H L R F F P W V V N E E E F K F W
UniRef90_E3JA07 A W R D F F H Q L L A A R P A A A H E D Y R D A H R T W R D D P A A L D A W
UniRef90_UPI000468ACE8 V W R E F A Y H L M H H T P H M L D S N W R E E W E A F P W R T D P D S D E A W
UniRef90_T0RK11 I W R E F F S Q L L F N F P N V V N E E F K E K Y R K I P W S H D Q N N F K R W
UniRef90_UPI00037C772A Y W N R H Y T Q K L L D W P G W L D R A V N P V Y E F N H D R H D P D L V A A W
UniRef90_W0DU63 I W R E F F A R Y L L F F N P D L Q T Q A Y Q A K F N Q L S W P A P D E Q V T A W
UniRef90_UPI00034D8790 I W R E F A W H V L F H S P D L A T K N W R E Q Y D A F P W P R N R A H L E T W
UniRef90_G6A0C2 V W R C H F M Q K L E D Q P D L D Q L C M H Q A F E G L R P H H N D A H L Q A W
UniRef90_U5E2V6 A W R D F H H Q L L S A R P D T A W T S Y R P G P F A V R D D P D A V A A W
UniRef90_UPI000374B3D1 I W R D F Y A Q L L A N F P H V A E N S F R P E Y D F I E W R N N E E F A A W
UniRef90_C5DP22 A W R D F Y K H T M S F W P Y L S M D P F N L A S E N M K W I N E E P N F E K W
UniRef90_A1SER8 A W R E F Y A D V L H A R P E T A R Q Y L R P E F A R M R Y D E P G E H L D A W
UniRef90_C7P560 Y W N K H Y Q K L E D W S G W T T A V N P A M R G C R A E H D P L V T A W
UniRef90_B0EVY5 L W R E F F F V V G G Q I P D A H E M I N N P I S L E I P W E D S V I E Y L E R W

| | | 130 | 140 | 150 | 160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|-----|-----|-----|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_UPI0003793DEA | Q | R | G | H | T | G | Y | P | L | V | D | A | G | M | R | E | L | W | H | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | V | K | H | L | L | | | | |
| UniRef90_F0SC80 | C | E | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | T | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | L | | | | |
| UniRef90_A4AIU5 | R | R | R | G | H | T | G | Y | P | L | V | D | A | G | M | R | E | W | H | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | L | | | | |
| UniRef90_F3WSN0 | R | R | R | G | H | T | G | Y | P | L | V | D | A | G | M | R | E | W | H | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | L | | | | |
| UniRef90_A8JF11 | R | R | R | G | H | T | G | Y | P | L | V | D | A | G | M | R | E | W | H | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | L | | | | |
| UniRef90_UPI0004209860 | C | E | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | A | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | L | | | | |
| UniRef90_J9IYG9 | K | E | G | S | T | G | M | P | L | I | D | A | F | M | R | E | L | C | N | E | T | G | F | M | P | N | R | G | R | M | I | V | A | S | F | L | T | T | M | D | L | K | |
| UniRef90_T1KEA9 | A | N | G | Q | T | G | Y | P | W | I | D | A | I | Q | T | Q | L | R | R | E | G | W | I | H | Q | I | A | K | H | A | T | V | C | F | L | T | T | R | G | I | W | | |
| UniRef90_Q2P5K7 | Q | R | G | R | T | G | Y | P | L | V | D | A | G | M | R | E | L | W | H | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | C | K | H | L | R | | | | |
| UniRef90_G7UV77 | Q | R | H | G | R | T | G | Y | P | L | V | D | A | G | M | R | E | L | W | H | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | T | T | K | H | L | R | | |
| UniRef90_C8PY65 | Y | Q | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | S | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | S | K | N | L | L | | | | |
| UniRef90_UPI0003B3A6AA | Q | Q | G | R | T | G | Y | P | L | V | D | A | G | M | R | E | L | W | H | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | L | | | | |
| UniRef90_Q5V438 | K | H | G | E | T | G | Y | P | F | I | D | A | G | M | R | E | L | R | Q | E | G | Y | I | H | N | R | P | R | Q | N | V | A | S | F | L | T | T | R | G | D | W | | |
| UniRef90_H3BZL6 | R | E | A | R | T | G | F | P | F | I | D | A | I | M | T | Q | L | R | Q | E | G | W | I | H | H | L | A | R | H | A | V | A | C | F | L | T | T | R | G | D | W | | |
| UniRef90_A9E3M9 | C | E | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | E | S | G | Y | M | H | N | R | V | R | M | V | A | S | F | L | C | K | H | L | L | | | | |
| UniRef90_J9J1P3 | E | M | G | R | T | G | F | P | A | I | D | A | V | M | N | Q | L | R | Q | E | G | W | M | H | H | L | A | R | H | L | V | A | C | F | L | T | T | R | G | H | Y | | |
| UniRef90_G2LPG0 | K | E | G | N | T | G | F | P | L | I | D | A | S | M | R | E | L | N | Q | L | G | W | M | H | N | R | V | R | M | V | A | S | F | L | V | K | N | L | F | | | | |
| UniRef90_UPI0003F97D48 | K | Q | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | E | S | G | F | M | H | N | R | V | R | M | V | A | S | F | L | C | K | H | L | L | | | | |
| UniRef90_K1QHW3 | K | Q | R | G | R | T | G | Y | P | L | V | D | A | G | M | R | E | L | W | H | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | T | T | K | H | L | R | | |
| UniRef90_H5U7A1 | R | E | G | R | T | G | F | P | L | V | D | A | G | M | R | E | L | S | E | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | V | K | D | L | H | | | | |
| UniRef90_H8H2B3 | A | A | G | Q | T | G | Y | P | L | V | D | A | G | M | R | E | L | A | Q | T | G | W | L | N | F | R | M | R | A | M | T | S | F | S | S | Q | L | L | W | | | | |
| UniRef90_U4V2F4 | W | R | G | K | T | G | Y | P | L | I | D | A | G | M | R | E | L | W | A | T | G | W | M | H | N | R | V | R | M | V | A | S | F | L | C | K | N | M | Q | | | | |
| UniRef90_I2EUD2 | K | N | G | E | T | G | Y | P | F | I | D | A | N | M | K | E | L | K | L | T | G | F | M | S | N | R | G | R | Q | N | V | A | S | F | L | S | K | D | L | G | | | |
| UniRef90_V5A4Z7 | V | K | N | G | E | T | G | Y | P | L | V | D | A | G | M | R | E | L | E | Q | E | G | Y | I | H | N | R | P | R | Q | N | V | A | S | F | L | T | T | K | H | L | L | |
| UniRef90_U4V6F2 | V | K | Q | G | R | T | G | Y | P | L | V | D | A | G | M | R | E | L | I | Y | V | T | G | Y | M | H | N | R | G | R | M | N | V | A | S | F | L | T | T | K | H | L | L |
| UniRef90_UPI00046694CF | R | D | G | R | T | G | Y | P | L | V | D | A | G | M | R | E | L | R | H | E | G | W | M | H | N | R | V | R | M | V | A | S | F | L | T | T | K | T | L | Y | | | |
| UniRef90_W8BJA9 | T | H | G | R | T | G | Y | P | F | I | D | A | G | M | R | E | L | R | Q | E | G | W | I | H | H | L | A | R | H | A | V | A | C | F | L | T | T | R | G | D | W | | |
| UniRef90_UPI0001D2D5EC | A | R | G | A | T | G | Y | P | F | I | D | A | G | M | R | E | L | W | L | T | G | W | M | H | N | R | V | R | M | V | A | S | F | L | V | K | H | L | L | | | | |
| UniRef90_U2YLN4 | E | K | G | E | T | G | Y | P | M | V | D | A | G | M | R | E | L | W | H | T | G | Y | M | H | N | R | V | R | M | V | A | S | F | L | T | K | N | L | L | | | | |
| UniRef90_UPI0002558F5B | K | A | G | E | T | G | F | P | L | V | D | A | G | M | R | E | L | N | E | T | G | W | M | H | N | R | V | R | M | V | A | S | F | L | T | T | K | L | L | R | | | |
| UniRef90_Q31DQ9 | C | E | G | R | T | G | Y | P | L | I | D | A | G | M | K | Q | L | N | E | T | G | W | M | H | N | R | V | R | M | V | A | S | F | L | T | K | N | A | D | | | | |
| UniRef90_H6BMC5 | E | K | G | T | L | G | V | P | F | I | D | A | G | M | R | E | L | K | A | E | A | Y | M | H | N | R | V | R | M | V | A | S | F | L | V | C | N | L | L | | | | |
| UniRef90_D5V5K7 | C | E | G | K | T | G | Y | P | L | I | D | A | G | M | R | E | L | H | F | N | K | T | G | M | H | N | R | V | R | M | V | A | S | F | L | C | K | N | L | L | | | |
| UniRef90_G8RM32 | K | H | G | R | T | G | F | P | L | V | D | A | G | M | R | E | L | A | Q | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | C | K | N | D | L | H | | | |
| UniRef90_F9WZJ1 | S | Q | G | C | T | G | I | P | L | I | D | A | G | M | R | E | L | L | H | L | G | W | M | H | N | R | V | R | M | V | A | S | F | L | T | H | H | L | G | L | | | |
| UniRef90_UPI00046E6CD1 | C | S | G | T | T | G | Y | P | M | V | D | A | G | M | R | E | L | N | E | T | G | Y | M | H | N | R | V | R | M | V | A | S | F | L | C | K | H | L | L | | | | |
| UniRef90_UPI00047AD618 | A | N | G | Q | T | G | F | P | L | V | D | A | G | M | R | E | L | N | Q | T | G | W | M | H | N | R | V | R | M | V | A | S | F | L | V | K | D | L | H | | | | |
| UniRef90_UPI0003B4E2F8 | C | Q | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | K | T | G | Y | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | L | | | | |
| UniRef90_D7UWG4 | K | N | G | E | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | Q | T | G | Y | M | H | N | R | V | R | M | V | A | S | F | L | T | K | D | L | F | | | | |
| UniRef90_UPI000377F9ED | C | E | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | E | T | G | Y | M | H | N | R | V | R | M | V | A | S | F | L | T | T | K | H | L | L | | | |
| UniRef90_H7FP28 | Q | E | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | V | I | T | G | Y | I | N | F | R | M | R | A | M | V | V | S | F | F | T | F | N | L | W | | | |
| UniRef90_D5UUQ6 | Q | R | G | A | T | G | Y | P | L | V | D | A | G | M | R | E | L | R | T | E | G | W | M | H | N | R | V | R | M | V | A | S | F | L | S | K | D | L | H | | | | |
| UniRef90_A0A013WVY0 | K | T | G | H | T | G | Y | P | L | V | D | A | G | M | R | E | L | W | A | T | G | W | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | L | | | | |
| UniRef90_B3RK16 | Q | Q | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | L | N | T | G | V | I | S | Y | R | V | R | T | I | V | A | S | F | L | T | K | H | L | L | | | |
| UniRef90_Q30Q43 | C | S | A | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | L | K | T | G | Y | M | H | N | R | V | R | M | V | A | S | F | F | T | K | D | L | L | | | | |
| UniRef90_D2QTL3 | A | E | G | H | T | G | I | P | F | I | D | A | N | M | R | E | L | M | A | T | G | F | M | S | N | R | G | R | Q | N | V | A | S | F | L | V | S | D | L | G | | | |
| UniRef90_UPI000413050C | C | E | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | S | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | L | | | | |
| UniRef90_G8S688 | Q | D | G | L | T | G | Y | P | L | V | D | A | G | M | R | E | L | L | R | A | E | G | W | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | G | | | |
| UniRef90_C6W145 | R | Q | G | R | T | G | Y | P | L | V | D | A | G | M | R | E | L | L | E | E | G | W | M | H | N | R | V | R | M | V | A | S | F | L | T | V | K | D | L | H | | | |
| UniRef90_G4SXM1 | A | E | G | R | T | G | F | P | L | V | D | A | G | M | R | E | L | N | R | T | G | Y | M | H | N | R | V | R | M | V | A | S | F | L | V | K | D | L | H | | | | |
| UniRef90_E4TU72 | E | K | G | E | T | G | F | P | L | V | D | A | G | M | R | E | L | C | V | T | E | T | G | Y | L | N | F | R | M | R | A | M | V | V | S | F | L | V | V | H | L | W | |
| UniRef90_M5XLH3 | R | Q | G | R | T | G | Y | P | L | V | D | A | G | M | R | E | L | W | A | T | G | W | L | H | D | R | I | R | V | V | V | S | F | F | V | K | V | L | Q | | | | |
| UniRef90_G0LHQ3 | A | L | G | Q | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | R | E | G | Y | I | H | N | R | P | R | Q | V | V | A | S | F | L | T | K | H | L | L | | | |
| UniRef90_UPI000377C3CC | C | E | G | K | T | G | Y | P | L | V | D | A | G | M | R | E | L | N | Q | T | G | F | M | H | N | R | V | R | M | V | A | S | F | L | T | K | H | L | L | | | | |
| UniRef90_UPI0003FB3FF0 | T | A | G | R | T | G | Y | P | L | V | D | A | G | M | R | E | L | W | Q | T | G | W | M | H | N | R | V | R | M | V | A | S | F | L | V | K | H | L | M | | | | |
| UniRef90_UPI00045EAE8D | K | E | G | K | T | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | 170 | 180 | 190 | 200 |
|------------------------|---|---------------------|-----------------|--------------|----------------|
| UniRef90_UPI0003793DEA | I | DWRVGEAWFWDTLV | DADEASNPASWQWVA | SGSGADDAAPYF | |
| UniRef90_F0SC80 | I | DWRWGEAYFAEKL | DDYDLEASANN | GGWQWAASSG | CGADAAVPYF |
| UniRef90_A4AIU5 | I | DWRAGEQWFWDTLV | DDADEASNNP | ANWQWVAAGS | GGADDAANPYF |
| UniRef90_F3W5N0 | I | DWREGERWFWDTC | LVDADYGNNS | VNWQWVAAGT | GGADDAANMFY |
| UniRef90_A8JF11 | L | PWQWGLKHYPWDAL | QIDADLECDAL | LGWQYVAAGT | GGMSDAHPFY |
| UniRef90_UPI0004209860 | I | DWRWGEAYFAASKL | LDLDFDLASANN | GGWQWVAAGT | GGTDAQGRPYF |
| UniRef90_J91YG9 | H | DWREGEAYHFEKLL | LDHDDVQSNNY | GGWNFSAG | GLPGQGRVLL |
| UniRef90_T1KEA9 | I | SWEEMKVFDELL | LIDADWSVNAGT | WMWLSCS | SFFQRCLCH |
| UniRef90_Q2P5K7 | I | HWTIEGARWFWDTLV | DDADLANNTLG | WQWVAAGT | GGADAAAPYF |
| UniRef90_G7UV77 | V | HWLEEGARWFWDTLV | DDADLANNTLG | WQWVAAGT | GGADAAAPYF |
| UniRef90_C8PY65 | I | DWRWGEAYFMQHL | LVDGDFASNN | GGWQWSAS | VGGTDAAPYF |
| UniRef90_UPI0003B3A6AA | I | DWRAGEQWFWDTLV | DDADYGANNAT | SNWQWVAAGS | VGGTDAANMFV |
| UniRef90_Q5V438 | V | DWREGEARHFRKRL | LVDHDPANNA | ASWQWTA | STGTDSDVDR |
| UniRef90_H3BZL6 | I | SWEEMKVFEEELL | LIDGDWALNAGN | WQWLSASA | FAFFHQFFR |
| UniRef90_A9E3M9 | I | DWKWGEAYFAKKLL | LDLDFDLAQNV | GNWQWVAAGT | GGCDDSPYF |
| UniRef90_J9J1P3 | Q | HWRERGRDVFDFKYL | LLDADYALNNAN | NWMLSC | SAFFSQYWK |
| UniRef90_G2LPG0 | I | DWRQGEKYFMSRLL | LDGDLALNNG | GWQWSAS | VGGCDDSPYI |
| UniRef90_UPI0003F97D48 | I | DWRWGEAYFAEKL | LDYDEMSSNV | GNWQWVAAGS | GGVDAAPYF |
| UniRef90_K1QHW3 | L | HWVEGYRFWQDTLL | LDADVAALN | AMWQNG | AGSSGLDAQWNFF |
| UniRef90_H5U7A1 | L | PWWWGAKFWDQLT | LTDGDMASNQ | HGWQWAA | GTGTDAAAPYF |
| UniRef90_H8H2B3 | L | HWRVPGEFLAHHL | WLDDNEPGLH | WAVQVMQ | SSTVGINRVR |
| UniRef90_U4V2F4 | I | DWREGEARWFWDTL | VDDADVASN | PNWQWVA | AGCGGMDPYPFR |
| UniRef90_I2EUD2 | I | DWTWGAAYFEESQL | LDYDVCASN | WNWYVA | AGVIGNPREDR |
| UniRef90_V5A4Z7 | L | DWREGEARWFRKL | LDHWDYASN | HGSWQWT | ASTGTDSDVDR |
| UniRef90_U4V6F2 | T | HWRIGQRWFEEL | LVDHDPALNA | LGWQWVA | AGSGPTDAPYF |
| UniRef90_UPI00046694CF | V | DWRIGARHFLDL | LVDGDVVNNQ | LNNWQWAA | GTGTDTRPHR |
| UniRef90_W8BJA9 | I | SWEEMKVFEEELL | LDDQDVALN | AGNWMLSA | SAFFYQYFR |
| UniRef90_UPI0001D2D5EC | L | DWREGERWFWDTLV | DDADLSSNA | FNWQWAA | AGCGGADAAAPYF |
| UniRef90_U2YLN4 | I | DWRLEGEQWFWDTLV | DDADGASNA | FNWQWVA | AGSGADAAAPYF |
| UniRef90_UPI0002558F5B | I | DWRAGEAYFMSKLL | LDGDFASN | LGGWWSAS | VGGADAAAPYF |
| UniRef90_Q31DQ9 | I | DWRAGEAWFNNDTLV | DDADPANNTLG | WQWVAAGC | GGVDAAPYY |
| UniRef90_H6BMC5 | I | DYRRGERYFAETLL | LDWDLNNNT | QGWEPG | |
| UniRef90_D5V5K7 | I | DWKKEGQYFAKKLL | LDYEAASNN | LGGWQWAA | STGADSAVPYF |
| UniRef90_G8RM32 | L | PWQWGA RWF L D Q L | LVDGDMANNQ | HGWQWAA | AGCGGTDAAAPYF |
| UniRef90_F9WZJ1 | V | DWRRGE EWF M L H L | LVDGDVAASN | SGGWGF | CSTGGERRGGYR |
| UniRef90_UPI00046E6CD1 | I | NWQWGEAYFAEKL | LDLDFELASNV | GNWQWAA | AGTGGCDDAAAPYF |
| UniRef90_UPI00047AD618 | I | SWRWGERYFAQRLL | LDYDPCVNN | GNWQWAA | AGTGGCDDAQPYF |
| UniRef90_UPI0003B4E2F8 | I | DWRWGETYFAQKLL | LDYEQSSNV | GNWQWAA | AGTGGVDAAPYF |
| UniRef90_D7UWG4 | I | DWRWGEDYFRSLL | LDYDNASN | NGWQWS | ASTGTDAAQPYF |
| UniRef90_UPI000377F9ED | L | DWQWGEAYFAKKLL | LDDFDLAANN | NGWQWAA | AGTGTDAQPYF |
| UniRef90_H7FP28 | Q | DWRELFHFLARQFL | LDYEPGLHY | PQQLMQS | STGTGINTIR |
| UniRef90_D5UUQ6 | V | WWPHGGAHFLDL | LVDGDVPASNA | HGWQWVA | AGTGTDAAPYF |
| UniRef90_A0A013WVY0 | I | DWRHGARWFWDTLV | DDASYANNS | VNWQWVA | AGSGVTDANLFT |
| UniRef90_B3RK16 | I | PWQNGAEWFWDTLV | DDADLALNS | CWQRI | TGCGGADISYFY |
| UniRef90_Q30Q43 | L | PWQWGERFFAEKLL | LDYDCKASN | VLSWQWS | AGTGGVDPQPYF |
| UniRef90_D2QTL3 | L | DWTWGAAYFEKLL | LDYDPCASN | WNWYVA | AGVIGNPRQYFR |
| UniRef90_UPI000413050C | I | DWRWGEAYFARKLL | LDYDQASN | VGGWQWAA | AGTGGNDAAAPYF |
| UniRef90_G8S688 | I | DWRPGLQWFRWLL | LDGDVPLNS | GNWQWT | AGTGGNDTRAPYR |
| UniRef90_C6W145 | L | PWWWGA RHF FMEHLV | LVDGDLASNS | HNNWQWAA | AGSGTDDAAAPYF |
| UniRef90_G4SXM1 | L | SWRWGERYFAQHL | LDYDPCVNN | GNWQWAA | ASTGCDDAQPYF |
| UniRef90_E4TU72 | Q | PWKRGAHFLGRQFL | LDYEPGLHY | PQFQMQA | AGVTTGINTIR |
| UniRef90_M5XLH3 | L | PWRWGMKYFWDTLL | LDADLESDA | LGWQYI | STGLPDGRFED |
| UniRef90_G0LHQ3 | V | DWRRGAR YFTKQL | LDHDYASN | HGSWQWI | ASTGTDSDVDR |
| UniRef90_UPI000377C3CC | I | DWRWGEAYFAKLL | LDYELASNN | GNWQWAA | AGTGTDAQPYF |
| UniRef90_UPI0003FB3FF0 | L | DWRWRGKQWFWDTLV | DDADFAASN | PNWQWVA | AGCGGADAAAPYF |
| UniRef90_UPI00045EAE8D | Q | NWKA GADHLGKCF | LDLDFEPGLHY | PQQLMQA | AGVTTGINTVIR |
| UniRef90_Q2BJV5 | Q | DWRLEGARF F M Q H L | LDLDDGDFASN | LGGWQWS | ASTVGGADAAAPYF |
| UniRef90_UPI000255F041 | H | PWWDGEQWFWDTLV | DDADEANN | PVSWQWVA | AGCGGADAAAPYF |
| UniRef90_U1PZQ7 | I | DWRRGAR YFTKQL | LDHDYASN | YNWQWI | ASTGTDSDVDR |
| UniRef90_L0G0D5 | I | DWRWGEAYFAKLL | LDYELASNN | GNWQWAA | AGTGTDAQPYF |
| UniRef90_E2S0F6 | I | HWRLEGEYFWDTLL | DDADASNP | FNWQWVA | AGCGGADAAAPYF |
| UniRef90_U1RLW8 | I | DWTWGE EYFRQYLI | LDYDNASN | VHGWQWS | ASTGTDAAAPYF |
| UniRef90_UPI00047A26CF | Q | PWQNCSPHYLAQQL | LDYEPGLHY | PQQLMQA | AGITTGINTLIR |
| UniRef90_UPI00047AKG5 | V | DWRWGEKYFAKLL | LDYDPSVNN | GNWQWVA | AGTGGVDDY |
| UniRef90_Q2CF77 | S | HWRIGQRWFDALHT | LVDWDVANNA | LGWQWVA | AGSGPDAASFFF |
| UniRef90_E6SFH1 | V | WWPVGARYFLDQL | LVDGDIVASNS | HGWQWVA | AGTGTDAAPYF |
| UniRef90_UPI000382E752 | V | HWRAGA EHFHHL | LVDGDVAADDY | GNWQWVA | AGTGTNDTRPNR |
| UniRef90_G2NQ94 | V | DWRLEGARHFLLELL | LVDGDLANN | QLNWQWMA | AGTGTDSRPN |
| UniRef90_D8S8F7 | V | WEKGRDVFDRLL | LIDADWSLNN | GNWLSASA | FAFFNQYHR |
| UniRef90_D7AW62 | V | HWRLEGADHFHHL | LVDGDVANNNY | GNWQWVA | AGTGAFNDRPNR |
| UniRef90_I2GB54 | I | DWRLEGEAYFARKLR | LDYDLANN | NGWQWI | AGTGNDAAPYF |
| UniRef90_UPI000225DF23 | I | DWRHGERWFWDTLV | DDGDYASN | GTWQWVA | AGTGGVDSNMFY |
| UniRef90_UPI000360039C | I | HWRLDGAWFADTLV | DDADPANNT | MWQWVA | AGSGVDAAPYY |
| UniRef90_C1FHX2 | V | DWRLEGA EWFENKLL | LDYDCAASN | NGWVA | AGMTGGRVN |
| UniRef90_B7QTF8 | T | HWRIGKQWFEHCL | LVDWDDVPASNA | MGWQWVA | AGSGPDAAPFF |
| UniRef90_UPI00026CAC8A | I | DWRAGEQWFWDTC | LVDGDYGSNS | VNWQWT | AGTGTDSNMF |
| UniRef90_UPI000475C65C | I | DWRHGERWFWDCL | LVDADYGSNA | QGWQWVA | AGSGVDSNMFN |
| UniRef90_H8KNL7 | I | DWRWGEAYFAKLL | LDYDELSSNN | GGWQWAA | SSCGADAAAPYF |
| UniRef90_W5BDB3 | L | PWRWGMKYFWDTLL | DDADLESDA | LGWQYI | SGSLPDSREDH |
| UniRef90_E3JA07 | L | DWRAGA AHYTEHL | LDADVANNS | LNNWQWVA | AGTGTDTTRPGR |
| UniRef90_UPI000468ACE8 | T | DWRIGGARWFEETLL | LDWDDPANSN | AMGWQWT | AGSGPDAAPYF |
| UniRef90_T0RK11 | I | DWRLEGEKYFAKLL | LDYDFLASNN | GNWQWAA | SSCGADAAAPYF |
| UniRef90_UPI00037C772A | Q | PWKIGADHFYEHLL | LDGDAALNY | TQWQSQ | CGLVGPRGLRL |
| UniRef90_W0DU63 | Q | HWLVGGQWFELTL | LDADALANN | VMGWQWVA | AGCGGADAAAPYF |
| UniRef90_UPI00034D8790 | I | DWRHGERWFWDCL | LVDADASNP | FNWQWVA | AGSGADAAAPYF |
| UniRef90_G6A0C2 | L | DWRAFGP HFLARQFT | LDYEPGLHY | SQQLMQS | AGVTTGINTLIR |
| UniRef90_U5E2V6 | L | DWRLEGA HFLHHL | LVDADVANQN | LNNWQWAA | AGTGTTRPNR |
| UniRef90_UPI000374B3D1 | I | DWRWGEAYFAKLL | LDYDFLASNN | GGWQWAA | AGCGGADAAAPYF |
| UniRef90_C5DP22 | I | DWRWGERWFRNRL | LDYDLASN | VGGWFL | SSTGTDAAQPYF |
| UniRef90_A1SER8 | L | EQWLIGARHFLRLL | LDGDLASN | QHWQWT | AGCGGTDAAAPYF |
| UniRef90_C7P560 | Q | PWQLIGADFYHYHL | LDYDPAIN | YTQWQSA | AGTGTGNTLMR |
| UniRef90_B0EVY5 | V | NWE EGF KVFDEF | QLDAERSLN | VGNWLV | VSSTS FVKG PVP |

| | 210 | | | | | | | | | | | 220 | | | | | | | | | | | 230 | | | | | | | | | | | 240 | | | | | | | | | | |
|------------------------|-----|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|--|--|
| UniRef90_UPI0003793DEA | R | F | N | P | V | L | Q | S | Q | K | F | D | P | R | G | D | Y | L | R | R | W | V | P | E | I | A | R | L | P | D | A | S | L | H | A | P | W | A | S | M | | | | |
| UniRef90_F0SC80 | R | F | N | P | E | E | Q | T | K | K | F | D | P | N | R | A | Y | I | R | K | W | I | P | E | L | D | S | L | | | | | | | | | | | | | | | | |
| UniRef90_A4AIU5 | R | F | N | P | L | L | Q | Q | K | K | F | D | P | A | G | E | Y | V | A | R | R | W | V | P | E | L | K | D | S | L | | | | | | | | | | | | | | |
| UniRef90_F3W5N0 | R | I | M | A | P | L | S | Q | S | K | F | D | P | A | G | D | Y | I | A | R | R | W | V | P | E | L | K | D | S | L | D | A | A | I | H | D | P | D | E | A | G | | | |
| UniRef90_A8JF11 | M | M | D | L | E | K | E | A | R | R | F | D | P | D | G | E | Y | V | R | R | W | L | P | A | L | S | R | L | P | T | E | Y | I | H | A | P | W | K | A | P | | | | |
| UniRef90_UPI0004209860 | R | F | N | P | E | S | Q | T | K | K | F | D | P | D | K | L | K | Y | I | K | K | W | V | P | E | | | | | | | | | | | | | | | | | | | |
| UniRef90_J91YG9 | V | F | N | S | I | K | Q | S | K | F | H | D | P | H | G | E | Y | I | K | M | W | V | P | E | L | K | N | V | P | I | E | Y | I | H | E | P | W | T | M | P | | | | |
| UniRef90_T1KEA9 | I | Y | C | S | V | S | F | G | R | K | M | D | P | Q | G | D | Y | I | R | R | Y | L | P | V | L | R | N | I | P | N | E | Y | I | H | E | P | W | K | A | P | | | | |
| UniRef90_Q2P5K7 | R | F | N | P | V | T | Q | A | E | K | F | D | P | H | A | T | Y | I | T | R | W | V | P | E | L | G | K | L | P | V | K | E | R | F | A | P | W | L | H | P | | | | |
| UniRef90_G7UV77 | R | F | N | P | V | T | Q | A | R | K | F | D | P | Q | A | R | Y | I | T | R | W | V | P | E | L | E | A | L | P | V | N | A | R | F | A | P | W | E | F | P | | | | |
| UniRef90_C8PY65 | R | M | N | P | F | S | Q | A | A | T | H | D | P | D | A | S | Y | I | Q | H | W | V | P | E | L | G | T | V | P | A | N | T | I | L | Q | T | Y | L | T | Q | | | | |
| UniRef90_UPI0003B3A6AA | R | I | M | A | P | L | S | Q | S | A | K | F | D | P | A | A | Y | I | R | E | W | V | P | E | L | R | H | L | D | D | A | D | I | H | D | P | Q | R | P | P | | | | |
| UniRef90_Q5V438 | I | F | D | P | V | A | Q | M | S | K | F | D | P | D | A | A | Y | I | T | E | Y | V | P | E | L | R | G | V | P | S | T | K | I | V | D | W | P | T | L | S | | | | |
| UniRef90_H3BZL6 | V | Y | S | P | V | A | F | G | K | K | T | D | P | K | N | G | D | Y | I | K | K | Y | L | P | H | L | K | K | F | P | A | Q | Y | I | Y | E | P | W | K | A | P | | | |
| UniRef90_A9E3M9 | R | I | F | N | P | T | Q | L | D | K | F | D | P | H | T | Y | I | N | K | W | A | S | D | Y | Q | E | L | | | | | | | | | | | | | | | | | |
| UniRef90_J9J1P3 | V | Y | S | P | V | S | F | F | Q | K | T | D | P | K | N | G | D | Y | I | R | K | Y | V | P | A | L | K | H | F | P | S | E | Y | I | Y | E | P | S | K | A | P | | | |
| UniRef90_G2LPG0 | R | F | N | P | L | Y | S | K | L | F | D | M | S | G | S | F | I | K | Q | F | I | P | E | L | K | H | V | P | N | Q | Y | I | H | Q | P | Y | E | W | S | | | | | |
| UniRef90_UPI0003F97D48 | R | F | N | P | T | T | Q | L | D | K | F | D | P | K | N | E | A | Y | I | K | E | W | V | P | E | Y | G | S | | | | | | | | | | | | | | | | |
| UniRef90_K1QHW3 | V | M | H | P | V | D | A | A | L | T | C | D | P | D | G | A | Y | V | R | K | W | C | P | E | L | A | A | L | P | N | D | F | I | H | Q | P | W | K | C | P | | | | |
| UniRef90_H5U7A1 | R | F | N | P | E | T | Q | A | K | K | F | D | P | D | G | D | Y | I | R | R | W | I | P | E | | | | | | | | | | | | | | | | | | | | |
| UniRef90_H8H2B3 | I | Y | N | P | I | K | Q | A | R | D | Q | D | P | T | G | D | F | I | R | R | W | V | P | E | L | A | A | L | P | D | F | I | H | A | P | W | E | W | S | | | | | |
| UniRef90_U4V2F4 | V | F | N | P | V | L | Q | G | E | K | F | D | P | T | K | G | V | Y | V | R | K | W | V | P | E | L | A | A | L | P | D | W | I | H | A | K | P | F | A | A | P | | | |
| UniRef90_i2EUD2 | Y | F | N | I | G | R | Q | A | D | M | Y | D | K | D | G | E | Y | V | K | L | W | L | P | E | L | C | K | V | P | A | E | K | V | H | F | A | G | L | L | S | | | | |
| UniRef90_V5A4Z7 | I | F | D | P | V | S | Q | A | S | K | F | D | P | D | G | N | A | Y | M | K | E | Y | V | P | E | L | S | D | V | P | A | G | K | V | T | D | W | P | T | L | S | | | |
| UniRef90_U4V6F2 | R | F | N | P | D | T | Q | A | K | K | F | D | P | D | G | G | A | Y | R | N | A | W | I | P | A | E | G | Q | R | N | A | P | K | T | A | L | D | P | Q | A | W | N | | |
| UniRef90_UPI00046694CF | V | L | N | P | T | V | Q | A | R | R | F | D | P | D | G | A | Y | V | R | R | W | V | P | E | L | A | D | V | A | G | R | R | I | H | E | P | W | R | L | P | | | | |
| UniRef90_W8BJA9 | V | Y | S | P | V | A | F | G | K | K | T | D | P | T | G | A | Y | I | R | K | Y | V | P | E | L | A | K | Y | P | A | G | C | I | Y | E | P | W | K | A | C | | | | |
| UniRef90_UPI0001D2D5EC | R | F | N | P | V | L | Q | G | E | K | F | D | P | D | A | G | A | Y | V | R | R | F | V | P | E | L | A | R | L | D | A | H | Y | I | H | R | P | W | T | A | P | | | |
| UniRef90_U2YLN4 | R | F | N | P | E | R | Q | A | E | K | F | D | P | K | G | L | Y | I | G | Q | W | A | P | D | S | A | G | R | | | | | | | | | | | | | | | | |
| UniRef90_UPI0002558F5B | R | F | N | P | Q | L | Q | S | E | K | F | D | P | N | G | E | Y | I | A | E | W | L | P | E | L | H | Q | L | E | P | K | E | R | H | K | P | G | A | G | Q | | | | |
| UniRef90_Q31DQ9 | R | F | N | P | V | R | Q | S | E | K | F | D | P | D | A | N | G | E | Y | L | R | Q | W | L | P | E | L | K | T | Y | S | N | K | H | I | H | A | P | W | L | I | A | | |
| UniRef90_H6BMC5 | V | F | N | P | V | S | Q | A | E | K | N | D | P | E | G | E | Y | I | R | K | W | I | P | E | L | R | S | V | K | G | K | A | I | F | D | P | E | R | A | D | | | | |
| UniRef90_D5V5K7 | R | F | N | P | Y | L | Q | S | A | K | F | D | P | K | E | A | I | F | I | K | S | V | M | P | E | L | K | D | V | D | A | K | L | I | H | | | | | I | E | G | | |
| UniRef90_G8RM32 | R | F | N | P | T | T | Q | G | E | K | F | D | P | D | G | E | Y | V | R | R | W | V | P | E | | | | | | | | | | | | | | | | | | | | |
| UniRef90_F9WZJ1 | I | F | N | P | W | S | Q | G | R | E | F | D | P | A | E | G | G | F | V | R | R | W | V | P | E | L | E | G | V | D | G | K | V | I | H | D | | | | E | G | G | | |
| UniRef90_UPI00046E6CD1 | R | F | N | P | E | L | Q | Q | K | K | F | D | P | D | K | G | T | Y | I | R | K | W | I | P | E | F | | | | | | | | | | | | | | | | | | |
| UniRef90_UPI00047AD618 | R | F | N | P | W | L | Q | Q | K | K | F | D | P | Q | C | L | Y | I | K | T | W | I | P | E | L | Q | R | F | P | A | E | V | I | H | K | W | D | K | H | P | | | | |
| UniRef90_UPI0003B4E2F8 | R | I | F | N | P | T | E | Q | K | K | F | D | P | K | D | L | K | Y | I | K | K | W | V | P | E | L | E | T | L | Q | | | | | | | | | | | | | | |
| UniRef90_D7UWG4 | R | M | F | N | P | E | R | S | S | E | R | F | D | P | D | G | A | Y | I | K | Q | Y | L | P | I | F | K | A | V | P | A | A | Y | L | H | D | T | E | K | N | K | | | |
| UniRef90_UPI000377F9ED | R | F | N | P | E | S | Q | T | K | K | F | D | P | D | K | D | G | K | Y | I | R | K | W | V | P | E | F | | | | | | | | | | | | | | | | | |
| UniRef90_H7FP28 | I | Y | S | P | I | K | N | S | E | D | H | D | P | D | G | V | F | I | K | Q | W | L | P | E | L | A | D | I | P | V | S | L | I | H | E | P | W | K | N | C | | | | |
| UniRef90_D5UUQ6 | R | F | N | P | T | T | Q | A | E | K | F | D | P | R | G | D | Y | V | R | R | Y | V | P | E | L | R | H | L | D | G | A | A | L | J | A | P | D | K | H | T | | | | |
| UniRef90_A0A013WVY0 | R | I | M | A | P | L | S | Q | S | E | K | F | D | P | A | A | Y | I | A | R | R | W | V | P | E | L | A | D | L | N | D | S | V | I | H | D | P | D | A | H | G | | | |
| UniRef90_B3RK16 | I | I | N | P | V | T | Q | G | E | R | F | D | P | D | S | G | N | Y | V | R | K | W | I | P | E | L | A | K | L | S | N | D | Y | I | Q | Q | P | W | E | A | P | | | |
| UniRef90_Q30Q43 | R | F | N | P | Y | L | Q | S | K | K | F | D | P | D | E | A | G | Y | I | K | R | Y | V | S | E | L | S | T | I | E | I | K | N | I | H | E | E | Y | L | L | C | | | |
| UniRef90_D2QTL3 | Y | F | N | I | L | S | Q | A | L | R | Y | D | P | K | H | W | L | P | E | L | A | K | V | P | E | L | A | K | V | P | N | E | Q | V | H | L | A | W | Y | G | V | | | |
| UniRef90_UPI000413050C | R | F | S | P | E | L | Q | T | K | K | F | D | P | K | L | E | Y | I | K | K | W | I | P | E | F | D | D | P | F | K | | | | | | | | | | | | | | |
| UniRef90_G8S688 | R | F | N | P | I | R | Q | A | Q | K | F | D | P | K | G | V | Y | V | R | R | Y | V | P | E | L | K | D | I | D | G | V | T | V | H | Q | P | W | R | L | P | | | | |
| UniRef90_C6W145 | R | F | N | P | I | T | Q | G | Q | K | F | D | P | Q | K | G | D | Y | I | R | R | Y | V | P | E | L | R | D | V | A | G | K | A | V | H | Q | P | R | D | | | | | |
| UniRef90_G4SXM1 | R | F | N | P | W | L | Q | Q | K | K | F | D | P | G | C | E | Y | I | Y | R | W | I | P | E | L | R | P | F | A | P | S | T | I | H | T | W | D | K | K | | | | | |
| UniRef90_E4TU72 | M | Y | N | P | V | K | Q | S | K | E | H | D | P | N | G | D | F | I | K | K | W | V | P | E | L | Q | N | V | P | I | A | F | I | H | E | P | W | K | L | S | | | | |
| UniRef90_M5XLH3 | R | D | N | P | Q | F | E | Q | S | K | F | D | P | N | G | E | Y | V | R | K | W | L | P | E | L | A | R | L | P | T | E | W | I | H | E | P | W | N | A | P | | | | |
| UniRef90_G0LHQ3 | I | F | D | P | V | S | Q | L | S | K | Y | D | D | P | G | A | N | F | V | R | E | Y | V | P | E | L | S | D | T | P | T | E | K | L | I | E | W | P | T | L | S | | | |
| UniRef90_UPI000377C3CC | R | F | N | P | A | S | Q | Q | K | K | F | D | P | D | N | E | K | Y | I | K | K | W | V | Q | E | | | | | | | | | | | | | | | | | | | |

UniRef90_UPI0003793DEA Q P G R D Y P L P V V S H R D A R A R A L A A M E G L R G 250 260 270
UniRef90_F0SC80 GT D Y P K P I V E H K F A R E R A L N V Y K K A
UniRef90_A4AIU5 G T K N Y P E P I V D L A E T R R E A L E
UniRef90_F3WSN0 C R P K D Y P A K I I G H R E G R E R A L A A G K S V R G
UniRef90_A8JF11 A L G C N Y P L P I I
UniRef90_UPI0004209860 F G T K D Y P K P I V D H K F A R Q R A L D T Y K K A
UniRef90_J9YG9 I I G Q D Y P H P I
UniRef90_T1KEA9 I I G K H Y P Q P I V D H Q E A M R I N Q E R M K Q V
UniRef90_Q2P5K7 L S A P E Y P R P I I G L A E G R D A A L A A Y S K S R A
UniRef90_G7UV77 Q L C R D Y P Q P I V D L A Q G R Q A A L A A Y A R T R
UniRef90_C8PY65 H P H I A Y P T L D T P T K A S R A M A I E A F K K
UniRef90_UPI0003B3A6AA R G Y P A K I I V D H G Q A R A R A L A A H G A M K A
UniRef90_Q5V438 D G E R D Y Y H P I V D R N A A Y E R A Q R V F E T A
UniRef90_H3BZL6 I I G K D Y P H P I V K H E E V S K K N I Q R M K
UniRef90_A9E3M9 T Y P S P I V E H K F A R E R C L S T Y K S
UniRef90_J9J1P3 I I G E D Y P F P I V D Y K A E Q A L N I N K L K
UniRef90_G2LPG0 K K T Q D Y P E P I N Y V I S R K K F L L I F N K I K
UniRef90_UPI0003F97D48 K K T D K Y P E K M V D H K E A R E R A L K T Y K E A
UniRef90_K1QHW3 P L G E T Y P Y R V I D L E G A R E Q S L
UniRef90_H5U7A1 F D T D D Y P E P I V D H K A E R E E A L R R F G E L
UniRef90_H8H2B3 A S R L K Y P A P I V N A E R A I R A A K A R I T A V R
UniRef90_U4V2F4 V L G Q T Y P L P I F T P S K A
UniRef90_I2EUD2 K L G V D Y P N P I I D V K K W L K
UniRef90_V5A4Z7 R S E R N Y A D P I V D R N Q G Y E R A Q R V F E E A
UniRef90_U4V6F2 L R S D R Y P D P I V D L S T G R N R A L E S Y K A
UniRef90_UPI00046694CF E D R R A Y P T P I V D L A D A L T R F R H A R G
UniRef90_W8BJA9 V L G K D Y P H R I V K H K E N I K R M T A A Y K
UniRef90_UPI0001D2D5EC R L G E T Y P L A I I
UniRef90_U2YLN4 E P I V D L A A T R K A A L Q A Y E A V K R A
UniRef90_UPI0002558F5B I Y G R P A P I I D Y K A A R K A A L D D D Y N R
UniRef90_Q31DQ9 P N E K H F C P I I D L T E S R Q H H L D K V A T L K S
UniRef90_H6BMC5 F E K L G Y P K P Y V N W H E T K Q R A I E R F K S
UniRef90_D5V5K7 A L K D K Y V N S I V D I K Y S R D R A M R I F K E A K N A
UniRef90_G8RM32 V D D D D Y P D P I V D H K A E R A E A L R R Y G E I
UniRef90_F9WZJ1 D R G N V Y P R P V V G H K E G R E G A L E R W R A R R G A
UniRef90_UPI00046E6CD1 D L G Y N E P I I D H A F A R D R A I A T Y K A
UniRef90_UPI00047AD618 Q A G D Y P R P R V D H A V Q S L I K A Q F K A L
UniRef90_UPI0003B4E2F8 A L G K T Y P A P I V D H K Q S R Q A L M E K L G R
UniRef90_D7UWG4 A L G K T Y P A P I V D H K F A R E R A I N T Y K R A
UniRef90_UPI000377F9ED E I G K D Y P E P I V N I E E T R K Y A S D I V W S F R K
UniRef90_H7FP28 D G A H G Y P A P I V D H A E E R A V T L A R Y G T V R G
UniRef90_D5UUQ6 A R P A A Y P K I I E H R E G R E R A L A A Y R H A K G
UniRef90_A0A013WVY0 A L G K T Y P K C I V N H K K A R D V A L T K F A P L K R
UniRef90_B3RK16 A D I K D Y P K P I V D H K E A S K R A V E L F K K
UniRef90_Q30Q43 V L G Q D Y P L P V V
UniRef90_D2QTL3 V L G Q D Y P L P V V
UniRef90_UPI000413050C R R G L D Y P G P L E S H R D E
UniRef90_G8S688 P I V D H A H E R Q V A L D R F A A I K
UniRef90_C6W145 F A A C D Y P K P I V D H R L E S E K A K E M F R
UniRef90_G4SXM1 E L G K D Y P S P I I D L E D A G K K A R K V I W E M R K
UniRef90_E4TU72 E L G S N Y P L P I V G I D A K T R L Q E A L L E M
UniRef90_M5XLH3 P G D R A Y P D P I V G R N E G Y E R A Q Q T F E K A
UniRef90_G0LHQ3 S P P A G Y P P P I V E H K M A R E R A L K A F K S A
UniRef90_UPI000377C3CC S P P A G Y P P P I V E H D
UniRef90_UPI00045EAE8D P L G K D Y P F P I V D L E K S G K A A R D K I W D A Q K
UniRef90_Q2BJV5 S Y S R P T P I I D Y A Y E R Q Y S L D A Y K A
UniRef90_UPI000255F041 E P L S G Y P E P I V D L K E S R R H A L D A Y E E M K N A
UniRef90_U1PZQ7 H G K R N Y A E P I V D R N D G Y E R A Q Q R F E R A
UniRef90_L0G0D5 G T D Q Y P A P M I D H K L A R E R A L E T Y K S A
UniRef90_E2S0F6 P P I V D L Q E S R Q A A L D A Y A E I K
UniRef90_U1RLW8 D I G K D Y P E T L V D L K L S R E F V M N K F K S F R
UniRef90_UPI00047A26CF I E G R D Y P N P I V N L E E A R K F S S D E F W S M R K
UniRef90_W7KKG5 I P G Y P R P V D W R E R V E K A R E L Y
UniRef90_Q2CFF7 M S A D D Y P Q P V V G L A E G R A R A L A A Y K
UniRef90_E6SFH1 N G A H G Y P G R V V D H D A E R R E A L A R Y E
UniRef90_UPI000382E752 E P P E G Y P P P I A D
UniRef90_G2NQ94 R A A L D Y P E P L L D L S E G L A R F K D A R G
UniRef90_D8S8F7 I I G K D Y P T P V L D H A A A S K I C R E R M G A A
UniRef90_D7AW62 H P P P G Y P A P I A D
UniRef90_I2GB54 Y Q P I V D H P M A R Q R A I D T Y K K A
UniRef90_UPI000225DF23 R P A D Y P E K L I S H K E G R E R A L E A Y R A M K
UniRef90_UPI000360039C P D A L D Y P P P R M D L V A S R Q Q H L H R V E Q L K
UniRef90_C1FHX2 V I G V D Y P A P
UniRef90_B7QTF8 L S A D A R P R P I I D L K A G R E R A L E A Y H N R D K G
UniRef90_UPI00026CAC8A C R P R D Y P E K I I G H R E G
UniRef90_UPI000475C65C V L G R D Y P Q P I V N H E
UniRef90_H8KNL7 A L G S N Y P S P I I E H K F A R E R C L N V Y K Q A
UniRef90_W5BDB3 P L P I V E L D T A Q V R L Q E A L S E M
UniRef90_E3JA07 D R E R D Y P E P L
UniRef90_UPI000468ACE8 S P D C V Y P D P V V T P A D G R K R A L D A Y E N
UniRef90_T0RK11 F G T S D Y V K P M V D H K V A R E K T L A L Y K E
UniRef90_UPI00037C772A L A G E E Y P Y P V V D Y E A A R S E F R E R Y G A V H G A
UniRef90_W0DU63 A L A A Q Y P L H D P N L K Q S R L E H Q Q R V Q T L K
UniRef90_UPI00034D8790 L D G G A P E P M V D L K E T R Q R A L D A Y D K V R
UniRef90_G6A0C2 Q L G R D Y P F P L V N N D T A M K Q A R S R M G E A R R A
UniRef90_U5E2V6 T P H S T Y P P P L L D
UniRef90_UPI000374B3D1 G T A D Y P P I V D H K M A R E R C L A T Y K E
UniRef90_C5DP22 Q K A K S Y P E A I V D L K G S R Q R A L D T Y S Q
UniRef90_A1SER8 R Q A V G Y P E P I V D H A A E R R E A L G R W E R I R
UniRef90_C7P560 L I G T D Y P P V V E Y E A A R Q R A I E R Y E R L
UniRef90_B0EVY5 V I G R D Y P A P I V N H V K Q R A I C V Q R M Q E L

UniRef90_M4BJC1
UniRef90_Q5V0Z1
UniRef90_X7Y0U3
UniRef90_W4HHCH9
UniRef90_R9GNU5
UniRef90_UPI00034FAE18
UniRef90_A0YDZ0
UniRef90_UPI00047D13AA
UniRef90_B7RQF2
UniRef90_I3Z6N3
UniRef90_UPI00034CF70C
UniRef90_UPI000463307C
UniRef90_U1PR13
UniRef90_D2QBC1
UniRef90_S6E2E2
UniRef90_UPI00047BBAEF
UniRef90_A3X5B8
UniRef90_UPI0003746ECA
UniRef90_UPI00036E4D54
UniRef90_A3JTL5
UniRef90_UPI0003B7344C
UniRef90_Q6CSJ7
UniRef90_UPI000479A87F
UniRef90_B7G0J7
UniRef90_UPI00042B210C
UniRef90_UPI0004415F71
UniRef90_A3VWF1
UniRef90_S2YDY9
UniRef90_UPI00036F1915
UniRef90_D1B254
UniRef90_L7H2G1
UniRef90_UPI0002378AB2
UniRef90_E3Q882
UniRef90_W8KM03
UniRef90_F4L528
UniRef90_M2T8K1
UniRef90_U5EG19
UniRef90_I0GX82
UniRef90_UPI00047ECE76
UniRef90_U1NJP8
UniRef90_F8E8X4
UniRef90_C6XWZ8
UniRef90_B5YL70
UniRef90_F0RPZ8
UniRef90_Q6L055
UniRef90_W7W0D7
UniRef90_UPI00042AFD79
UniRef90_L7W836
UniRef90_UPI0002558B0E
UniRef90_B4WMMV9
UniRef90_A3W242
UniRef90_L8EE48
UniRef90_UPI0004744C13
UniRef90_UPI000467FAFF
UniRef90_F4C6S6
UniRef90_T0P1H3
UniRef90_J9ZF04
UniRef90_H3G5Y1
UniRef90_E4U091
UniRef90_A0A059ILU3
UniRef90_UPI00047A737C
UniRef90_M9LWTW3
UniRef90_A0A058ZKT0
UniRef90_E8SHD6
UniRef90_G4Z6R5
UniRef90_W8RUY3
UniRef90_UPI000375AEC4
UniRef90_A4BQ31
UniRef90_G0QNE6
UniRef90_UPI00036306C6
UniRef90_A6EG10
UniRef90_S9VQJ4
UniRef90_A3Z252
UniRef90_UPI000467EB09
UniRef90_UPI000289946A
UniRef90_UPI00041795E8
UniRef90_UPI000456083B
UniRef90_D7DLZ9
UniRef90_A4EK19
UniRef90_G7EHS0
UniRef90_V6BRH0
UniRef90_S9SHJ1
UniRef90_E4ZKC2
UniRef90_UPI0003FC4761
UniRef90_A3X5Z0
UniRef90_U1LRS2
UniRef90_Q28R72
UniRef90_UPI00034C9558
UniRef90_U1P7Y0
UniRef90_K7R5G5
UniRef90_I0YVL3
UniRef90_A4BYS5

| | 90 | 100 | 110 | 120 |
|------------------------|-------|---|---|-----|
| UniRef90_M4BJC1 | MWR | E F F Y C Y A C S S | P D F D S L E R N P I C K Q V D W R L A M Y H L Q C W | |
| UniRef90_Q5V0Z1 | FWN | K H Y E Q K L E D W P G W L E T A V N P V L E F N A E Q Y D P D L V A A W | | |
| UniRef90_X7Y0U3 | A F R | D F Y A A V L Y D R P A S A W N W N R E D Y D R L R T D K A E R H L F E V W | | |
| UniRef90_W4HHC9 | VWR | E F F A Y H L M W H T P R R L L Y D N W R E E W A A F P W N E D K A D E R R S E A W | | |
| UniRef90_R9GNU5 | IWR | D F Y A M I L W H F P Q R T I H E S F K K P Y D N I T W R N N E D E F E A W | | |
| UniRef90_UPI00034FAE18 | LWR | D F Y F R F V A L K E Y G S R I E F F L R G L Q D K D V L R W K K D E P K L F D A W | | |
| UniRef90_A0YDZ0 | AWR | C H F I Q K F E M E Q P S I E T H C M H P A F E G L R R N D H N E E R Y Q A W | | |
| UniRef90_UPI00047D13AA | IWR | E F F M Q I L W H F P H T K E K A F R P K Y D R L D W R N D E A E F G K W | | |
| UniRef90_B7RQF2 | VWR | E F F A Y H L M H F P R M L E T D N W R E E W Q A F P W N E D A E E V K A W | | |
| UniRef90_I3Z6N3 | RWH | C H F I Q K F E M E C R M E K E H V N T G F E H L A K P L D K K K V K A W | | |
| UniRef90_UPI00034CF70C | AWR | E F N W N E Y F H C E D T A T V N V R R E F D A F P W R D A S E A E G A W | | |
| UniRef90_UPI000463307C | AWR | D F H F M Q K L E D E P A L E W R C L H P A Y D G R P R D A D A A R M H A W | | |
| UniRef90_U1PR13 | IWN | C H Y N Q K L A D W A G W T D R A V N P A F E F N A D R H N P A L V D A W | | |
| UniRef90_D2QBC1 | CWR | D F Y F Q V L D H F P H V E Q Y S F R R E Y D Q I E W R N N E D E F D K W | | |
| UniRef90_S6E2E2 | AWR | D F Y K H A F C Y D W P A Y L S M R D P F N L G S V G I K W L N D K A H F E K W | | |
| UniRef90_UPI00047BBAEF | AWR | D F H H Q V T A Y W P A I I A R M D Y R D R D I A W R D D A G A L E A W | | |
| UniRef90_A3X5B8 | VWR | E F A Y H L A F H T P K I T Q E N W K S Q W N D F P W E H E D E A V L R W | | |
| UniRef90_UPI0003746ECA | VWR | D F A Y H L C F H T P R L T S A N W R E E W D A F P W K D D E S E I H A W | | |
| UniRef90_UPI00036E4D54 | AQR | D Y C L Q L L Y H L P Q L T D K A F H P E L D R L P W D H G P H G F Q A W | | |
| UniRef90_A3JTL5 | AWR | D F A W H L L Y H T P H I L D A N W K A G W D T F P W I T K G P E V L A W | | |
| UniRef90_UPI0003B7344C | LWR | D F A W H R L S Y N P E L S M R V N V R R Q F D H F D W A W N D F H L G A W | | |
| UniRef90_Q6CSJ7 | AWR | D F Y K H I S Y W P F E L S H D L P F K F E T L N I K W E N D V A L V F E K W | | |
| UniRef90_UPI000479A87F | RWS | H F V Q K F E M E H T M E K E S V N K G F Q K L K K D S E D Y Q I A W | | |
| UniRef90_B7G0J7 | HWS | H F F L Q K L E S E P E M E Q R D N A A F R R R Q P G D W N D C Y Y Q A W | | |
| UniRef90_UPI00042B210C | LWR | E F F Y T V A F G T P A I I A R M D Y R D R D I A W R D D A G A L E A W | | |
| UniRef90_UPI0004415F71 | AWR | D F Y T H V M A A F P R V S M R P F L E K Y A A V K W E T N E E H L Q A W | | |
| UniRef90_A3VWF1 | VWR | E F A Y H L M Y H T P H L T T D N W R T D W D A F P W S T D A D H P D A W | | |
| UniRef90_S2YDY9 | MFR | E F Y Y V L M T K Y P Q T A T Q S F S E K Y R G M Q W S N D Q S R F D A W | | |
| UniRef90_UPI00036F1915 | LWR | D F F R L M G K K Y G E K I F L K G G T K R E E P S L R D N W Q N M R P W | | |
| UniRef90_D1B254 | I F R | E F A Y L L Y H F P H L A W K N Y K Y T P P P Y E E N Q E S Y E R F | | |
| UniRef90_L7H2G1 | GWR | D F A H H L L H H F P A T P E H N L N P R F A R F R W T P D P A Q L Q A W | | |
| UniRef90_UPI0002378AB2 | VWR | E F A Y H L M Y H W P H L L T D N W K P E W D A F P W N T D P D T P E A W | | |
| UniRef90_E3Q882 | F R D | M Y F A A H A A L E D Q Y S F T Q T A N N P Y A C R F I R W H Q A D E W F R R W | | |
| UniRef90_W8KM03 | HWH | C H F M Q K L E D Q P S I E F A N L H R A C D G L R E D F D J E R M R L W | | |
| UniRef90_F4L528 | LWR | D F F R F M G K K Y G N K I F Q I G G T R G Q D P R W T E N P Q V L Q K W | | |
| UniRef90_M2T8K1 | VFR | E L Y R Q H T V C V P H T S M N P Q N L K F N S V I Q W E D D K G W E K W | | |
| UniRef90_U5EG19 | IWR | E Y Y C A A A Y E A D F D R M K G N S L C I Q I P W Q E N K K Y K E A W | | |
| UniRef90_I0GX82 | CWR | D F Y Y Q V A R V I F P K L S T E P L R P G G D R G W R Y D E D A L A H W | | |
| UniRef90_UPI00047ECE76 | RWA | A H F I Q K F E M E G E M E F R S V N K G Y H E L D K P R Q L H L Q K A W | | |
| UniRef90_U1NJP8 | FWR | N R H Y N Q K L E D W P G W L E T D S A V N P V L E E F N A D H D P A L V T A W | | |
| UniRef90_F8E8X4 | LWR | E F F N S V L Y N F P H S E F N N F K N V N I P W E N D L K L F E H W | | |
| UniRef90_C6XWZ8 | IWR | E F F M Q I L Y H F P K V F V D Q S F K S K Y D N I K W R N N E H E F D R W | | |
| UniRef90_B5YL70 | AWR | E F Y H L K L N F P Q V V N L E F Q E K R R K I R W Q N D E K L Y K A F | | |
| UniRef90_F0RPZ8 | HWR | D H F I Q R L E S E P R M E F E N L N R A Y D G L R P H W N E E Y F Q R W | | |
| UniRef90_Q6L055 | YWR | D F Y L Y I A Y H F P Y V I F G S A Y R N R K Y N I K W E N K E K Y I D A W | | |
| UniRef90_W7W0D7 | CWR | D F Y H Q V V A G F P D L S T A F Y R R G A R E D W R Y D E H A L D A W | | |
| UniRef90_UPI00042AFD79 | IWR | D Y F R F L S I K Y G N S I F H L G G P R K A E R G W S Q E Q K L F E S W | | |
| UniRef90_L7W836 | RWA | A H F I E K F E M E H E L E W R S V H K A Y R T L D K P V N L K F Q Q A W | | |
| UniRef90_UPI0002558B0E | KWA | A H F I Q K F E M E T M E N A S I N K G Y R M L K T I S E Q Y Q I A W | | |
| UniRef90_B4WMMV9 | HWH | C H F T Q K L E L E P E L E W L P M A R A Y T G I R D D G D H A I K R A F | | |
| UniRef90_A3W242 | AWR | D H F M Q K L E D E P E L E R R C L H P A Y E G L R P R A D A V R L A A W | | |
| UniRef90_L8EE48 | AWR | D F H H Q V L A A R P S A A H A D Y R T R H D R W R D E Q E A E A W | | |
| UniRef90_UPI0004744C13 | LWR | E F A W H R R A V L P H M E S E N I R P Q F D D F E W D D P V A R R A W | | |
| UniRef90_UPI000467FAFF | GWR | E F A W H T A A H E P E L I H E R G L N S A Q F D A F P W R T D P P E L A A W | | |
| UniRef90_F4C6S6 | IWR | E F Y M M I L W H F P E T V N K G A F K S A Y D R I H W R N N E S E F D A W | | |
| UniRef90_T0P1H3 | IWR | E F F M Q I L Y H Y P R V V T H S F K P K Y D S I I W R N N E A E F Q L W | | |
| UniRef90_J9ZF04 | GWR | E F S A H L M W H H P D L S A S E R L H K E R P E I R W R E D P F S L L A W | | |
| UniRef90_H3G5Y1 | MWR | E F Y C Y A C G T P N F D S Q E R N P G C K Q I K W R L R P E N H Q C W | | |
| UniRef90_E4U091 | I F R | E F Y A M L L Y H F P H L S E Q N F R Y P F R G L A N E E Y F N A F | | |
| UniRef90_A0A059IU3 | AWR | E F S Y L L Y H F P E L E T R N W R A E W D A F P W R G D N A D A E A W | | |
| UniRef90_UPI00047A737C | HWH | C H F I Q K F E S E C D M E F R S V N N A Y Q H A P R V K D P Q R L R A W | | |
| UniRef90_M9LTW3 | LWR | D Y F Y F V G W K F P R S A Q S K A Y E W K S T D S L S D G K D A F V R W | | |
| UniRef90_A0A058ZKT0 | AWR | D F A W H L M F H S P S I A T R E N W R D G W Q D F P W N T D A E R P E A W | | |
| UniRef90_E8SHD6 | MFR | E F Y Y V L M T Q Y P D A A T Q S F S V K Y R N M E W S E R Q S H F E A W | | |
| UniRef90_G4Z6R5 | MWR | E F F Y C Y A C G T P G F D S Q K Q N P G C K Q I D W R L R A E V Y Q C W | | |
| UniRef90_W8RUY3 | VWR | D F A Y H L V Y H T P R I V T S G N W R E E W D A F P W D E R R A E V K A W | | |
| UniRef90_UPI000375AEC4 | IWR | E F F M Q I L W H F P R N V T S Q P F R D K Y A G F Q W K N E A D F K T W | | |
| UniRef90_A4BQ31 | VWR | E F S Y H L L Y H T P H I T Q R N W R A E W N A F P W R G D N E Q A A R W | | |
| UniRef90_G0QNE6 | IWR | D F Y M M I L D Q Y P R V E K Y N F K Q K Y D K L E W R N P E E F K A W | | |
| UniRef90_UPI00036306C6 | RWS | G F A Q R F R Y L P Q L E L R S L Y S I F D Q D G W E F D E T L Y E A W | | |
| UniRef90_A6EG10 | AWR | D F Y M M I L W H F P H T V N S A F K P A Y N N I K W R N N E D E F E A W | | |
| UniRef90_S9VQJ4 | VWR | E F F A S L L H H H P R R L N D P F M V K Y L S Y K W K W P E H F E Q F | | |
| UniRef90_A3Z252 | HWH | C H F I Q K L E S Q P D L E F R E L H P L T A G L R S S D P E R L A A W | | |
| UniRef90_UPI000467EB09 | HWH | C H F I Q K F E S E C A M E H R P V N R A Y E A F P Y R T D D D L A A W | | |
| UniRef90_UPI000289946A | RWA | A H F I Q K F E M E D R M E F E S I N E R G Y H K L V K K N I S E L Y H Q A W | | |
| UniRef90_UPI00041795E8 | VWR | D Y F T F K G M R F G D M I F E T R G F K K K V E F N D I K L F K R W | | |
| UniRef90_UPI000456083B | LFR | D M Y A C A E H A I G D A F N Q R Y M D W Y L P T V Y D K D G Q A I M A Y | | |
| UniRef90_D7DLZ9 | HWH | C H F M Q K L E S E P A I E Y E N L H P A F N G F R D Q S Y Q N R L T A W | | |
| UniRef90_A4EK19 | HWH | C H F M Q K L E A E P E I E W L P M A R I Y E G R P T P T D S S L S A F | | |
| UniRef90_G7EHS0 | HWH | C H F M Q K F E S E C S M E F L A L N P G Y H V F P Y R D D E R D I E R W | | |
| UniRef90_V6BRH0 | IWR | E F Y T M S V N N P N Y G Q M A G N P L C L D P W S P E G D E L Q R W | | |
| UniRef90_S9SHJ1 | AWR | E F S Q H A L W H N P T L P D P A W A G F P W D R A E D S P A A W | | |
| UniRef90_E4ZKC2 | F R D | M Y F G A Q A A L G Y S F S Q T Y N N P Q C R F I P W H E A E I H F K R W | | |
| UniRef90_UPI0003FC4761 | LWR | E F F Q W V A L E D Q P K R L F R A Q G I R S K Q K S W R A D I D V I T R W | | |
| UniRef90_A3X5Z0 | HWH | C H F I Q K L E D E P R I E F E N L H R L M D D R P T P D A A R L Q A W | | |
| UniRef90_U1LRS2 | HWH | C H F I Q K F E S E C D M E F R H I N R G Y D L L P R C T G E E A Q Q A W | | |
| UniRef90_Q28R72 | AWR | D H F M Q K L E D Q P A M E T R C L H S A Y D L R P N V P D A T R L S A W | | |
| UniRef90_UPI00034C9558 | RWH | D K F T Q R L Y H P D E J A T Q N P D P E F D R Y H S G N D Q E L F W A W | | |
| UniRef90_U1P7Y0 | VWN | L H Y N Q K L V D W P G W T D T A V N P V F E Y N E D R H D P E L V Q A W | | |
| UniRef90_K7R5G5 | LWR | D F S Y H L L Y H F P E M A Q R S L D P R F E A A P W N F E D E G L F Q A W | | |
| UniRef90_I0YVL3 | G Y R | E Y A R Y L S F H F P F T H Q E R S L L E H L R A A P W N F D Q R H C P A W | | |
| UniRef90_A4BYS5 | RWA | A H F I Q K F E M E H T M E N A S I N K G Y Q K L K K S L S L E Y Q K A W | | |

UniRef90_M4BJC1 K D G R T G F P W I D A V M R Q I K L E G W T H H A G R H A V A C F L T R G G Y

UniRef90_Q5V0Z1 K H G Q T G F P M V D A S M R C L R Q T G F M N F R M R S M S A S V Y Y H L L Q

UniRef90_X7Y0U3 K A G E T G F P L I D A A M R Q L R Q T G F M H N R V R M I A A S F L V K D L H

UniRef90_W4HHC9 K R G R T G M A F V D A A M R E M Y V T G F M H N R G R M I V A S F L C K H L M

UniRef90_R9GNU5 C S G N T G Y P I V D A G M R Q L N A T G W M H N R V R M I T A S F L C K H L L

UniRef90_UPI00034FAE18 K E T G T G V P F V D A A M R E L A M T G F M S N R G R Q N V A S F L T X Q L

UniRef90_A0YDZ0 A T G H T G Y P F I D A C M R N L J A M D G W I T F R M R A M L V S F A S Y Q D L W

UniRef90_UPI00047D13AA K N G M T G Y A L V D A G M R E L N A T G Y M H N R V R M L V A S F L C K H L L

UniRef90_B7RQF2 K H G R T G E P F V D A A M R E L Y V T G R M H N R G R M L V A S F L T K H L M

UniRef90_I3Z6N3 E E G M T G Y P L V D A C M R R C L K E T G Y L N F R M R A M V V S F L T K H L F

UniRef90_UPI00034CF70C R T G T T G F D L V D A G M R E L W H T G A M H N R V R L A T G S F L V K N L L

UniRef90_UPI000463307C A T G Q T G L P F V D A C M R Y L T H T G W L N F R M R S M V M A V A S Y H L W

UniRef90_U1PR13 K H G Q T G F P M V D A S M R C L R E T G W L N F R M R A M C V S I F T H L Q

UniRef90_D2QBC1 C R G E T G Y P I V D A G M R Q L N T I G W M H N R V R M I T A S F L C K H L L

UniRef90_S6E2E2 R R G K T G V P I V D A G M R K L L F E G W I N N R A R M I T A S F L T S K N L L

UniRef90_UPI00047BBAEF C R Y Q T G V P I V D A G M R Q L L R E G W M H N R A R L V T A S F L T S K N L R

UniRef90_A3X5B8 K Q G R T G V P L V D A A M R E L Y V T G H M H N R S R M I V A S F L T K H M L

UniRef90_UPI0003746ECA K R G R T G L E V V D A A M R E L F V T G R M H N R A R M I V A S F L T K H L M

UniRef90_UPI00036E4D54 C E G R T G Y P L V D A A M R Q L Q Q S G Y M H H Q L R V L T A N F L T K H L N

UniRef90_A3JTL5 Q R G Q T G I E L V D A A M R E L Y V T G R M H N R A R M I A A S Y L T K H L M

UniRef90_UPI0003B7344C R S G T T G I S L V D A G M R E L W H T G Y M H N R V R M V V G S F L T K N L G

UniRef90_Q6CSJ7 C Y G E T G I P I V D A G M R K M L K T G Y I N N R S R M I T A S F L A K N L L

UniRef90_UPI000479A87F K T G Q T G F P L V D A C M R C L N E T G Y L N F R M R A L V V S F F T H N L W

UniRef90_B7G0J7 S T G N T G Y P M M D A C M R C L H R H G W V N F R M R A M L V S F A S Y N L W

UniRef90_UPI00042B210C R E A R T G Y P I V D A I M V Q L R K N H G W M H H L A R H C V A C F L T R G D L

UniRef90_UPI0004415F71 K D G M T G V P I V D A G M R Q L R E N H G W M H N R L R M I T A M Y L V K D L M

UniRef90_A3VWF1 K Q G R T G E P F V D A A M R E M Y V T G K M H N R A R M I V A S Y L T K H L M

UniRef90_S2YDY9 K S G Q T G Y P L V D A A M K K L N R T G L M H N R L R M V S Q F L T K H L F

UniRef90_UPI00036F1915 L E G E T G V P F I D A N M R E L N L T G F M S N R G R Q N V A S F L V K D L F

UniRef90_D1B254 I T A Q T G Y P F I D A A V R E L L E T G L M H N R A R M V V G S F F T K H L L

UniRef90_L7H2G1 Q R G R T G V P I V D A G L R E L W H T G W M H N R V R M I V A S Y L C K H L R

UniRef90_UPI0002378AB2 K L A R T G V P L V D A G L R Q M Y V T G R M H N R A R M L V A S Y L T K H L M

UniRef90_E3Q882 K Y G V T G F P W I D A L M R A L R E E G W I H H L G R H S V A C F L T R G C Y

UniRef90_W8KM03 Q Q G L T G Y P L V D A C M R A L N D H G W I N F R M R A M V V A F A S Y L W

UniRef90_F4L528 I D G T T G V P F I D A N M L E L K H T G F M S N R G R Q N V A S F L V K D L N

UniRef90_M2T8K1 Y K G R T G E P F I D A G M R Q L N A E G Y M H N R L R M N V S S Y L Y C N L

UniRef90_U5EG19 T Y G R T G Y P F I D A A M R Q L R Q E G W I H H L A R H A V A C F L T R G D W

UniRef90_I0GX82 Q D G L T G V P V V D A G M R Q L R A E G W M H N R A R L I T A S F L T K H L G

UniRef90_UPI00047ECE76 R E G Q T G L P F V D A A M R C L Y T T G F V N F R L R A M L A S F F T H L L W

UniRef90_U1NJP8 K Q G N T G Y P M V D A A M R C L R N T G W L N F R M R A M G V S A Y F H L L Q

UniRef90_F8E8X4 K S G T T G V P V V D A A M R Q L N K T G Y M H N R L R M V V A S F L T K D L H

UniRef90_C6XWZ8 C E G K T G Y P L V D A A M R L N Q T G F M H N R V R M I A A S F L C K H L M

UniRef90_B5YL70 I E A K T G Y P L I D A A I Q L K Q E N W M H N R A R M I V A S F L T K D L M

UniRef90_F0RPZ8 Q E G Q T G Y P L I D A T M R M L R A T G W L N F R M R A M L V S F A A Q H L W

UniRef90_Q6L055 K N G L T G Y P I V D A A M R S L N E T G Y L N N R L R M I V S S F L V K D L H

UniRef90_W7W0D7 T E G R T G M P I V D A G M R Q M R A E G W M H N R A R L I T A G Y L T K H L G

UniRef90_UPI00042AFD79 R N G C T G Y P L I D A N M K E L S A T T G F M S N R G R Q L V C S F L V R D M G

UniRef90_L7W836 R E G K T G Y P L V D A A M R C L N T T G F I N F R L R A M L T G F F T H L L W

UniRef90_UPI0002558B0E Q T G Q T G I P M I D A C M R C L N E T G Y L N F R M R A M I V S F F T H M L W

UniRef90_B4WMMV9 A E G Q T G Y P F V D A C M R Y L R A T G W I N F R M R A M L M S F A S Y D L W

UniRef90_A3W242 S K G E T G L P F V D A C M R S L R A T G W L N F R M R S M L M A V A S Y H L W

UniRef90_L8EE48 R T G R T G Y P L V D A A M R Q L A H E G W M H N R A R L T A S F L T K T L Y

UniRef90_UPI0004744C13 Q Q G R T G V P L V D A G M R E L W E T G F M H N R V R M V T A S F L V K N L Q

UniRef90_UPI000467FAFF Q R G E T G F P F V D A G M R E L W R T G F M H N R A R M V T A S F L T K N L L

UniRef90_F4C6S6 C Q G K T G Y P L V D A G M R Q L N E T G F M H N R V R M V V A S F L C K H L L

UniRef90_T0P1H3 C S G K T G Y P I V D A G M R Q L N E T G F M H N R V R M I T A S F L C K H L L

UniRef90_J9ZF04 K Q G R T G F P V I D A G M R Q L R R L G F L P N R V R M V A A S F L V K N L Y

UniRef90_H3G5Y1 K D G C T G P W I D A V M R Q I N Q E G W T H H A G R H A V A C F L T R N G I Y

UniRef90_E4U091 C T A K T G V P I V D A G I R E L L E T G E M H N R A R M L C A S F F T K N L L

UniRef90_A0A059ILU3 R R G Q T G E P L V D A A M R E L F V T G Y T M H N R A R M L A A S Y L T K H L L

UniRef90_UPI00047A737C K T A E T G V P L V D A C M R A V I K T G Y L N F R M R A M L V S F L C H Y L E

UniRef90_M9LTW3 A T A R T G V P L I D A N M V E L V H T G F M S N R G R Q N V A S F L T K D L G

UniRef90_A0A058ZKT0 K R G Q T G L D L V D A A M R E M Y V T G R M H N R A R M I A A S Y L T K H L L

UniRef90_E8SHD6 K N G E T G Y P L I D A A M K K L R T G Y M H N R L R M I V S Q F L T K H L F

UniRef90_G4Z6R5 K E G R T G F P W I D A V M R Q I N Q E G W A H H A G R H A V A C F L T R G V Y

UniRef90_W8RUY3 K Q G R T G M Q I V D A A M R E M Y V T G R M H N R A R M L V A S Y L T K H L M

UniRef90_UPI000375AEC4 C E G K T G F P L V D A G M R E L N A T G F M H N R V R M L V A S F L T K D L Q

UniRef90_A4BQ31 R K G L T G E P V I D A A M R Q M Y V T G T M H N R A R M L V A S Y L T K H L M

UniRef90_G0QNE6 C E G K T G Y H I V D A G M R Q L N C S G Y M H N R L R M I T A S F L T K H L L

UniRef90_UPI00036306C6 K T G N T G F P I I D A A A R C L Q A T G W M H N R S R A L Y S F L S N L M N

UniRef90_A6EG10 C Q G N T G Y P L V D A G M R Q L N A T G Y M H N R V R M V V A S F L S K H L L

UniRef90_S9VQJ4 K T G N T G V P L V D A A M R C L T A T G W C H N R C M V I A N F L V K V L H

UniRef90_A3Z252 A E G R T G L P F V D A C M R A L J A T G W I N F R M R A M L M S V A S Y H L W

UniRef90_UPI000467EB09 R E G Q T G L P L V D A C M R C L H Q T G Y I N F R M R A M L V S V L C H H L N

UniRef90_UPI000289946A V S G T T G Y P I V D A C M R C L N T T G Y L N F R M R A L V V S F Y T H N L W

UniRef90_UPI00041795E8 C E G Q T G I P F I D A H M R Q L N E T G Y M S N R G R V N C A S Y F V H D L N

UniRef90_UPI000456083B K M G Q T G F P W I D A L M R Q L R L E G W M H H L G R H S V A F L T R Q C W

UniRef90_D7DLZ9 K A G Q T G W P L V D A C M A M L R D T G W I N F R M R A M L M S T A S Y N L W

UniRef90_A4EK19 E E G R T G Y P F V D A C M R Y L R A T G W I N F R M R A M L M S F A S Y L L W

UniRef90_G7EHS0 A Q G Q T G I P I I D A C M R C L K A T G Y I N F R M R A M L V S F V T H H L N

UniRef90_V6BRH0 K E G R T G F P F V D A A M R Q L L T E G W L H H V V R N T V A S F L T R G S W

UniRef90_S9SHJ1 R Q A R T G M P L V D A G L R E L W V T G R M H N R M R M L T A S V L C K T L L

UniRef90_E4ZKC2 K E G C T G F P W I D A L M R Q L K R E G W I H H L G R H A V A C F L T R G C Y

UniRef90_UPI0003FC4761 Q R G E T G V D F V D S F M R E L N A T G W M S N R G R Q L V A S Y F A K E L G

UniRef90_A3X5Z0 E K G E T G Y P F L D A C M R C L R S T G W L N F R M R A M L M A V A A Y H L W

UniRef90_U1LRS2 E T G N T G I P M V D A C M R C L I A T G Y I N F R M R A M L V S F L C H H L E

UniRef90_Q28R72 E K G E T G L P F V D A C M R S L J A T G W I N F R M R A M L A V A S Y H L W

UniRef90_UPI00034C9558 C N G I T G F P M V D A S M R Q L N Q T G W M N F R M R A M C A T F L T I N C G

UniRef90_U1P7Y0 K R G E T G F P M V D A S M R C L A G S G W L N F R M R A M C A S F F S H V L H

UniRef90_K7R5G5 L E G R T G V P L V D A A M R E L Q A T G W F L S N R A R M C A A Q F A V K Y L L

UniRef90_I0YVL3 R Q G R T G Y P L V D A G M R Q L W S S G W V H N R I R V V C A S F L V K N L L

UniRef90_A4BYS5 E T G T T G F P L I D A S M R C L K E T G Y L N F R M R A M V V S F F T H L L W

UniRef90_M4BJC1 I S W L R G A T H F Q E T T I I D M D W P I N V G N W L W V S A S C F F S N Y R Q
UniRef90_Q5V0Z1 Q P W R I G A D W F Y H H L I D A S A A I N Y T Q W Q S Q C G L V G K P A L R
UniRef90_X7Y0U3 L P W Q W G A A W F L E D Q L T D W D L A S N Q H G W Q W C A G C G T D A A P Y F
UniRef90_W4HHC9 C H W K I G L D W F E E C L V D W D P A S N S M G W Q W S A G S G P D A T P Y F
UniRef90_R9GNU5 I D W R W G E A Y F A R K L I D Y D M A S N I G G W Q W A V I G S G N D A P Y F
UniRef90_UPI00034FAE18 I D W R V I G A E W F E Y L L V D Y D V C S N Y G N W L Y S A G I V G N D P R E N R
UniRef90_A0YDZ0 L D W R V I G D H L A R L F T D F E P G I H Y S Q L Q M Q S G V T G I N A M R
UniRef90_UPI00047D13AA I D W R W G E T Y F A E K L L D Y D M S A N V G N W Q W A A G S G V D A P Y F
UniRef90_B7RQF2 C H W R I G Q K W F E D C L I D W D P A S N A M G W Q W A A G S G P D A T P Y F
UniRef90_I3Z6N3 Q D W R V G K D F L A R Q F L D F E P G I H Y P Q L Q M Q A G V T G I N T V R
UniRef90_UPI00034CF70C V D W R V G E R W F W D C L V D A D A N N P G N W Q W V A G S G F D A P Y F
UniRef90_UPI000463307C L D W R A T G P I L A R L F T D Y E P G I H W S Q V I Q M Q S G T T G M N T I R
UniRef90_U1PR13 Q P W W I G A D W Y H H H L I D S D V G I N Y T Q W Q S Q A G L I G K P S Q R
UniRef90_D2QBC1 I D W R W G E A Y F G K K L R D Y D L S A N N G G W Q W A A G S G T D A P Y F
UniRef90_S6E2E2 I D W R W G E K W F R K H L I D D C L A S N I G G W G F C S S T G T D A Q P Y F
UniRef90_UPI00047BBAEF I D W R S G A H F F H W L V D G D L A N N A G N W Q W V A G T G N D T R P N R
UniRef90_A3X5B8 K H W R I G Q K W F E D C L I D W D P A N A M G W Q W V A G C G P D A P Y F
UniRef90_UPI0003746ECA T H W K V G L N W F E E C L V D W D P A N N A L G W Q W S A G S G P D A P F F
UniRef90_UPI00036E4D54 V D W R V G L R H F D T Y L N D A E L A S N L L G W Q W A A G V I G P D A P W F R
UniRef90_A3JTL5 I D W R V G Q E W F G D T L V D M D L A N A M G W Q W V A G T G P D A S P Y F
UniRef90_UPI0003B7344C I H W R H G E E W F W D C L V D A D P A N A F N W Q W V A G C G G D D A P Y F
UniRef90_Q6CSJ7 L D W R W G E R W F R K H L I D Y D T A S N V G N W G W F C A S T G I D C Q P Y F
UniRef90_UPI000479A87F Q P W Q D A S R H L S R M F L D F E P G I H F P Q L Q M Q A G E T G T N M L R
UniRef90_B7G0J7 L D W H R F A P H L A R V F L D Y E P G I H Y P Q L Q M Q S G T T G I N A L R
UniRef90_UPI00042B210C L H W E K G R D F V F E R L L I D S D W A L N N G N W L W L S C S S F F Y Q N R
UniRef90_UPI0004415F71 L D W R L G E L H F S H L L M D A D L A S N N G G W Q W S A S T G T D P Q P Y F
UniRef90_A3VWF1 T H W K V G L D W F A D C L I T D W D P A S N A M G W Q W A A G C G P D A P Y F
UniRef90_S2YDY9 I D W T W G E A Y F R Q Y L L D Y D N A S N V H G W Q W S A S T G T D A V P Y F
UniRef90_UPI00036F1915 V N W Q M G A E Y F E S M L I D Y D V T S N W G N W N Y I A G V I G S D P R E D R
UniRef90_D1B254 L P W Q R G E A F F A E H L I D Y D A S A N I L S W Q W C A G T G I D P Q P Y F
UniRef90_L7H2G1 V H W S E G A R W F W D T L V D A D L A N N T L G W Q W V A G T G A D A P Y F
UniRef90_UPI0002378AB2 T H W K I G A D W F A E C L I D W D P A N A M G W Q W V A G C G P D A P Y F
UniRef90_E3Q882 I D W E R G C E V F E E W L L D Y E P A C N A G N W Q W L S C T A F F S Q Y F R
UniRef90_W8KM03 L H W R E P S L H L A R V F A D Y E P G I H Y S Q M Q M Q S G T T G I N A L R
UniRef90_F4L528 I N W Q M G A E Y F E S I L I D Y D V C S N W G N W N Y I A G V I G S D P R E D R
UniRef90_M2T8K1 L D Y R R G E R Y F A E T L I D W D L S N N T Q G W E P S Y T
UniRef90_U5EG19 I S W E E G Q K V F E E L L D A D W A L N A G N W M W L S A S A F F H Q Y F R
UniRef90_I0GX82 L D W R A G V D W F F R W L I D G D V P N N S G N W Q W V A G T G N D T R P G R
UniRef90_UPI00047ECE76 Q P W Q D C T E H L A Q N F L D F E P G I H F P Q L N M Q S G E T G V N T I R
UniRef90_U1NJP8 Q P W W I G A D W Y H H H L I D S D A A I N Y T Q W Q S Q C G L I G K P G I R
UniRef90_F8E8X4 I D W R W G E E Y F K Q K L F D Y E A S Y N I G S W Q W A A G T G C D A Q P Y F
UniRef90_C6XWZ8 I D W R W G E A Y F A Q K L N D Y D L S A N N G N W Q W A A G S G C D S A P Y F
UniRef90_B5YL70 I D W R W G E S F F M E H L I D Y D E V V N V G N W Q W N A S V I G P D P K P L R
UniRef90_F0RPZ8 L H W R R P G L F L A R Q W L D N E P G I H W S Q M Q M Q S G T V G I N R S R
UniRef90_Q6L055 V D W R I G E K Y F A Q K L I D Y D P A S N N G N W Q W V A S T G V N S R M Y R
UniRef90_W7W0D7 L D W R P G L E V F F R W L I D G D R V N N S G N W Q W V A G T G N D T R P Y R
UniRef90_UPI00042AFD79 I D W R M G A E W F E T C L L D Y D P C S N Y G N W T Y G A G V I G N D P R E D R
UniRef90_L7W836 Q P W Q D A S N H L A Q F L D F E P G I H Y P Q L Q M Q A G E T G I N T V R
UniRef90_UPI0002558B0E Q P W Q D C A Y L S K M F L D F E P G I H F A Q V L Q M Q A G E T G V N A I R
UniRef90_B4WMV9 L P W Q K S G D V L A R L F T D Y E P G I H W P Q S Q M Q S G V T G I N A I R
UniRef90_A3W242 L D W R S T G P V L A R A F T D Y E P G I H W P Q V I Q M Q S G T T G M N T I R
UniRef90_L8EE48 L D W R L G A H F L S L L V D G D L A N N Q L N W Q W A A G T G T D T R P N R
UniRef90_UPI0004744C13 Q D W R V G E R W F W D T L V D A D E G S N P F N W Q W V A G S G D D A P Y F
UniRef90_UPI000467FAFF V D W R I G E A W F W D T L V D A D A A S N P F N W Q W V A G C G G A D A P Y F
UniRef90_F4C6S6 I D W R W G E A Y F A R K L Q D Y A E Q S S N V G N W Q W A A G S G N D A P Y F
UniRef90_T0P1H3 I D W R W G E A Y F A Q K L V D Y D L A S N N G N W Q W V A G C G C D A P Y F
UniRef90_J9ZF04 I D W R K G R E W F A D N L V D H D P A N N A A S W Q W I S Y G A D A W F R
UniRef90_H3G5Y1 I S W L Q G A M Y F Q E K L V D M D W A L T V G N W L W V S A S C F F S D Y R R
UniRef90_E4U091 L P W Q W G E A F F A Q H L N D Y D A S N I L S W Q W S A G T G V D P Q P Y F
UniRef90_A0A059ILU3 T D W R V G L A W F A Q C L I D W D P A N A M G W Q W A A G S G P D A P Y F
UniRef90_UPI00047A737C V D W R E G V I H L A R M F L D F E P G I H Y P Q F Q M Q A G V T G T N T I R
UniRef90_M9L7W3 W N W R H G A E F F E S W L V D Y D T N S N W G N W Q Y V A G V I G N D P R S S R
UniRef90_A0A058ZKT0 T D W R I G M R W F E D C L I D W D P A N A M G W Q W V A G C G P D A P Y F
UniRef90_E8SHD6 M N W T W G E A H F R Y L I D Y D N A S N V H G W Q W S A S T G T D A V P Y F
UniRef90_G4Z6R5 I S W L Q G A A Y F Q E K L I D M D W P I N I G N W L W V S A S C F F S N Y R R
UniRef90_W8RUY3 C H W K I G L D W F E E C L V D W D P A S N A M G W Q W S A G S G P D A T P Y F
UniRef90_UPI000375AEC4 I D W R W G E A Y F A N K L I D F D L A Q N N G N W Q W A A G T G T D A P Y F
UniRef90_A4BQ31 T H W K I G M D W F A Q C L I D W D P A N A L G W Q W V A G S G P D A P F F
UniRef90_G0QNE6 I D W R W G E R Y F A K K L I D Y D L A S N S G G W Q W S A G T G T D S P Y F
UniRef90_UPI00036306C6 H D W R Y G A L H F M R H L I D G D C P I D H Y P Q F Q M Q A G V T H C S W T R
UniRef90_A6EG10 I D W K W G E T Y F A E K L L D Y E M A S N V G G W Q W A C G C G N D A P Y F
UniRef90_S9VQJ4 V D W R E S G E R W F A T V A V D Y D V S N S G G W Q W S S G Q G A D P Q P Y F
UniRef90_A3Z252 L P W R E S G L H L A R L F V D Y E P G I H W S Q C Q M Q S G T T G I N T I R
UniRef90_UPI000467EB09 I D W R R G V T H L A R L F L D F E P G I H Y P Q F Q M Q A G V T G V N T I R
UniRef90_UPI000289946A Q P W Q G A T T H L S Q F L D F E P G I H F P Q L Q M Q A G E T G I N M L R
UniRef90_UPI00041795E8 I D W T W G A A Y F E S R Q L I D Y D V S A N W L N W H V I Q A Y E I Y T N P V H
UniRef90_UPI000456083B I S W E R G A E I F D E Y L I D W D P C S N P G N W M W L S C S A F F T Q Y F R
UniRef90_D7DLZ9 L H W R E T G L H L A R E F L D Y E P G I H W S Q V I Q M Q S G T T G I N T I R
UniRef90_A4EK19 L P W Q Q S G T V L A R L F T D Y E P G I H W P Q S Q M Q S G E T G I N A V R
UniRef90_G7EHS0 I S W Q Q A S F P L A N Y F L D F E P G I H Y P Q I Q M Q A S V T G I N T I R
UniRef90_V6BRH0 I S W E H G L Q H F L K Y L L D A D W S V C A G N W M W V S S A F E A D S G D
UniRef90_S9SHJ1 I D W R I G L R W F A D Q L T D W D A A N A L N W Q W V A G T G P D A P F F
UniRef90_E4ZKC2 I D W E R G A E V F E E W L I D H E A A C N I G N W Q W L S C T A F F A Q F F R
UniRef90_UPI0003FC4761 Q D W R F G A T Y F E S M L I D Y D V A S N Y G N W A Y Q A G V I G N D S R D R
UniRef90_A3X5Z0 L D W R A P G Q H L A R M F T D Y E P G I H W S Q V I Q M Q S G T T G I N T V R
UniRef90_U1LRS2 L D W R L G V A H L A R V F L D F E P G I H Y S Q F Q M Q A G V T G I N T I R
UniRef90_Q28R72 L D W R R T G P H L A R M F T D Y E P G I H W P Q M Q M Q S G T T G M N T I R
UniRef90_UPI00034C9558 V S W Q H G A C Y F M T R L V D G D I A I N H R Q W Q M Q S G T N P M S K T F R
UniRef90_U1P7Y0 Q P W W I G A D W Y H H H L I D S D V G I N Y T Q W Q S Q A G L I G K P A Q R
UniRef90_K7R5G5 L P W K K A E S A F K N L L D G D T A V N L Q G W Q W A G L G V D A P Y F
UniRef90_I0YVL3 L P W Q W G L K H Y W D A L L D A D L E C A A L G W Q Y I S G C L A D A H P F S
UniRef90_A4BYS5 Q P W Q S S S Q H L S K L F L D F E P G I H F S Q L Q M N A G E T G I N T I R

UniRef90_M4BJC1 V A S P S T F P R R W D K Q G R F I R K Y I P A L R N M P D K Y V H E P W K G C
UniRef90_Q5V0Z1 L Y N P R K Q V R R Q D P S D G E F I R Q W V V E L E S L P D E Y L D R P E Q T P
UniRef90_X7Y0U3 R F N P T T Q G G E K F D P S K R A Y V I R R W V P E L R A A A D V H L R K G
UniRef90_W4HHCH9 R F N P E T T Q L D R F D D K K R A Y V I R R W V A E G Q K S P P D D A I P R S W A I
UniRef90_R9GNU5 R I F P D L Q Q T K K F D P Q L K Y I K Q W V P E F T D P F K
UniRef90_UPI00034FAE18 K F N M I K Q Q S L E D Y D A G G D Y I R L W V P E L Q Q Q K G G D A H T P W A N V
UniRef90_A0YDZ0 V Y N P V K Q S L E H D P S N G D Y I R K W V P E L A D L P I E F I H E P W T W C
UniRef90_UPI00047D13AA R F N P M T Q V D K F D K Q K E Y I L T W V P D L Q E L P I E F I H E P W T W C
UniRef90_B7RQF2 R F N P A T Q L D K F D K N R D Y T S R W I A E G R A N P H A D A L R P K R W N
UniRef90_I3Z6N3 I Y N P V K Q S E D H D P D G G V F I K K W V P E L R K L P S S L L H E P W K G F
UniRef90_UPI00034CF70C R F N P E R Q Q L E R F D P H R E Y V R R W V P E L A G V P D D W L Q E P W R W P
UniRef90_UPI000463307C I Y N P V K Q G L D Q D P D G G V F I R R W V P E L S D L P T Q Y L P R P E R T P
UniRef90_U1PR13 V Y N P R K Q V R D H D P D G E W I T K W V P E L S D L P T Q Y L P R P E R T P
UniRef90_D2QBC1 R V F N P T Q A Q R F D P K S V Y I R Q W V P E L A G V P D D W L Q E P W R W P
UniRef90_S6E2E2 R F N M E R Q A K T Y D P D G G N F I R K W V P E L A G V P D D W L Q E P W R W P
UniRef90_UPI00047BBAEF V L N P L R Q A K R F D P D G G Y V R R Y V P E L A G V P D D W L Q E P W R W P
UniRef90_A3X5B8 R F N P E T Q A K K F D A E Q Q Y I Q R F L A E R A P T P G P E A L A P R A W A
UniRef90_UPI0003746ECA R F N P D R Q A E K F D L K G E Y R K R W L A E L S E D P D D D A L P R A W K M
UniRef90_UPI00036E4D54 I L D P V R Q S Q Q L D P D G G K F I R R Y L P E L A A L S D E D L H A P W A G V
UniRef90_A3JTL5 R F N P D G Q A E K F D K E R K Y R D F W L N P V Q D G A R Q F A A P K S W N
UniRef90_UPI0003B7344C R F N P E A Q A K R F D P H G E Y I A T W V P E L D P A M P A
UniRef90_Q6CSJ7 R V F N M K Q S E K Y D P E G K F I R H W L P E N D E N D S D N V H E P K
UniRef90_UPI000479A87F I Y N P V K N S L E H D P D A Q F I K K W V P E L K D L E T P F A H E P Y Y N F
UniRef90_B7G0J7 C Y S V T K Q G K E H D P R G G F I R K Y I P E L Q S V P N D Y I H E P W K M S
UniRef90_UPI00042B210C I Y S P T S F G K K Y D P H G D Y I R H F L P L L K
UniRef90_UPI0004415F71 R F N P Y L Q A E K A D P T G D F I R H Y V P E L S H L K G K S L Q D P S P K E
UniRef90_A3VWF1 R F N P E T Q L E K F D R D G A Y T R R W I A E G Q G Q P Q A T A L D Y F K A I
UniRef90_S2YDY9 R M F N I R Q Q S E R F D P N G Y F I K T E L G V L D D V H H K W I H N P T Q Y K
UniRef90_UPI00036F1915 Y F N I V K Q A R R Y D P K G D Y V K L W V P E L A E L P A D M V H I P E H H V
UniRef90_D1B254 R F N P Y A Q S L K F D K E A L Y I K R F L P Q L R D I P S S L L H E S Y L L S
UniRef90_L7H2G1 R F N P V T Q A Q K F D P Q A G R Y I A R W V P E L A A L P V A E R F A P W L S P
UniRef90_UPI0002378AB2 R F N P E T Q R E R F D P H S T Y L K R W I A E G R S D P S P T A I P R S W G L
UniRef90_E3Q882 C Y S P V S F G Q K W D K Q G A Y V R R W V P E L K D L D A K Y I Y E P W K A P
UniRef90_W8KM03 I Y N P V K Q S V D Q D P P E G R F I R K W V P E L A R V T G D W I H Q P W R M P
UniRef90_F4L528 Y F N T L T Q A K R Y D P H G D Y V K H W L P E L A D L P A D K V H E
UniRef90_M2T8K1 V F N P V S Q A E K N D P D G D Y I K K W V P E L K D V P K G K A V F A P Y K E E
UniRef90_U5EG19 V Y S P V A F G K K T D P E G K Y I K K Y V P E L A K Y P S G V I Y E P W K A C
UniRef90_I0GX82 R F N P I R Q A L R F D P E G V Y V R R Y V P E L K G I D G P A V H Q P W R L P
UniRef90_UPI00047ECE76 I Y N P I K N S R E H D A N G V F I K K W V P E L A A L P Y Q Y I H E P W E I P
UniRef90_U1NJP8 L Y N P R K Q V R D Q D P P E G E W I R K W V P E L A E L P A E Y I H E P E K T P
UniRef90_F8E8X4 R F N P Y R Q A E K F D K N A E F I K M W V P E L Q S L K A G R I H E D F L F K
UniRef90_C6XWZ8 R V F N P T Q T E K F D K N F A Y L K K W I P E
UniRef90_B5YL70 I F N P L I Q A K K F D P D C K F I K K Y L P S L K K L P S F M L H D P L T H R
UniRef90_F0RPZ8 I Y S P T R Q A R E Q D P D D G F I R R W V P E L A G V P A P H I W R P W E L P
UniRef90_Q6L055 I L N P W T Q A K K F D P E E K F I R R Y V N E L S D L E P E I H N L Y K
UniRef90_W7W0D7 G F N P V R Q A E R Y D P D G A Y V R R W V P E L E S D V A G K A V H Q P W R L P
UniRef90_UPI00042AFD79 Y F S I P K Q A Q T Y D P E G E Y V A Y W L P E L L J A L P R D K R N
UniRef90_L7W836 V Y N P I K N S L E H D P S G L F I K K W V P E L A H L P L R F I H E P W K M T
UniRef90_UPI0002558B0E I Y N P I K N G Y E H D S N A D F I R K W V P E L A H L Q T K H I H E P Y L M L
UniRef90_B4WMMV9 I Y S P I K Q G L D Q D I E G T F T R Q W V P E L A A L P D E L Q T P W L L E
UniRef90_A3W242 I Y N P V K Q G L D Q D P S G E F T R R W L P E L A H V P D A Y L Q R P W A W A
UniRef90_L8EE48 V L N P L A Q A K R F D A D G A Y V R R W V P E L A G V P G L E V H Q P W K A A
UniRef90_UPI0004744C13 R F N P Y R Q A E R F D P Q G M Y V D R W V P R D E Q Q R
UniRef90_UPI000467FAFF R I F N P S Q A Q K R F D P E G E Y A G R W A P E S L L I P E
UniRef90_F4C6S6 R F N P E I Q L Q K F D P K L V Y A K R W I P E L D D
UniRef90_T0P1H3 R I F N P T Q T L K F D A D L T Y I K T W N P
UniRef90_J9ZF04 I F N P V L Q G E K F D P E G R Y V K T Y L P E L H G L S P R Y I H C P W T A P
UniRef90_H3G5Y1 V A S P S T F P Q R W D K E G R F I R K Y I P A L R N M P D K F V F E P W K A P
UniRef90_E4U091 R F N P Y A Q G K K F D S D G V Y I R R W M P Q L A S V S S T T L H E T A L F S
UniRef90_A0A059IU3 R F N P E A Q A E K F D K S G E Y R R K F L H E G Q A D P P E P A L D R S W H L
UniRef90_UPI00047A737C I Y N P V K Q S Q E K D P S G T F I R K W L P E L A S L P P D D Y I H T P W E M T
UniRef90_M9LTW3 Q F N P I K Q G K D Y D A K G E Y V A T W L P Q L K S L P E R V R H P W T A G
UniRef90_A0A058ZKT0 R F N P D T Q A E K F D A S G A Y R Q K W L A P D S G F Y Q A V P R S W N L S P
UniRef90_E8SHD6 R M F N I R Q S E R F D A S M G D F I K E Q L Q I L K D V K P K Y I H N P S Q Y V
UniRef90_G4Z6R5 V A S P T T F P Q R W D Q H G E F I R K Y I P A L R N M P D K F I F E P W K A P
UniRef90_W8RUY3 R F N P E T Q A E K F D K H G R A Y R R W L A E I T S Q P D E A L P E S W G M
UniRef90_UPI000375AEC4 R F N P D L Q L D K F D K N R A Y V K R W I P E
UniRef90_A4BQ31 R F N P A T Q A E K F D P D A V Y R R R Y V A E L A G D N P G D A C P R H W S L
UniRef90_G0QNE6 R F N P D S Q Q K K F D P D Y T F I K T W V K D L N
UniRef90_UPI00036306C6 Y N P E Q A A V D R C D P D G A F I K K W V P E L A K I P A V Q L G L P
UniRef90_A6EG10 R F N P E L Q M K K F D P D F K Y I D K W L P E Y K K Q K H V P
UniRef90_S9VQJ4 R F N P F R Q S A N F D P E G R Y I Y E W V P E L K Q V P P E V I H R W D E Y C
UniRef90_A3Z252 I Y N P I K Q G S E D H D P G G D F I R Q W L P E L A A V P A V H L H E P W T M C
UniRef90_UPI000467EB09 I Y N P V R Q A E Q Q D A E G N F I R Q W L P E L A A E L P V P L H Q P W A A P
UniRef90_UPI000289946A I Y N P I K N S K A H D P D G V F I R K W V P E L K D I P V Q Y I H E P Y L I P
UniRef90_UPI00041795E8 Q S N K Y K A Q P E Y I R L W I P E L K D K N D V E V L I P W L E
UniRef90_UPI000456083B L Y G L A T F P A K Y D K T G A L V R K Y C P E L S K F P D K Y I Y E P F N A P
UniRef90_D7DLZ9 I Y N P V K Q A K D Q D P E G I F V R R W L P A L R N V I T N W I F Q P W L M P
UniRef90_A4EK19 I Y S P V K Q Q G D Q D P T G V F T R Q W V P E L A H L T G K A L Q D P W L L D
UniRef90_G7EHS0 H Y N P I K Q S E D Q D P T G S F I K K W C P E L E K L P I E Y L H Q P W E Q T
UniRef90_V6BRH0 C A C P V A R L G Q R L D P S G E Y V R R Y L A L A R V P D R Y I L Y E P W K A P
UniRef90_S9SHJ1 R F S P D A Q A A R H D A T G A Y R R W L A E G R H P P A D A V P S S W G L
UniRef90_E4ZKC2 C Y S P I A F P Q K W D K E G E F V K R Y V P E L A K F D K K Y I Y E P W K A P
UniRef90_UPI0003FC4761 R F N I T R Q Q E T Y D P T G A F R N T W L
UniRef90_A3X5Z0 I Y N P V K Q Q G F D Q D P T G I F I R W L P E L A Q I T P D R H L H E P W A A E
UniRef90_U1LRS2 I Y S P V K Q G G E E K D P Q G E F V K T W L P A L K D V P A P L V H K P W Y G I
UniRef90_Q28R72 I Y N P V K Q G L D H D P N T G T F T R T W C P E L R E V P S D A C L Q T P W A W A
UniRef90_UPI00034C9558 I Y N P S K N L Q E K D P N L Q F V L Y W I P E L R G H S M K Q I L S G E Y L P
UniRef90_U1P7Y0 V Y N P R K Q V Q D Q D P D G E W I T E W V P E L S P L P S Q F L P R P E R A P
UniRef90_K7R5G5 R V F N V E Q S G R R F D P E G A W L R R F A P E Y P S Y E P K D
UniRef90_I0YVL3 Y M D H K K E S L E H D P E G K Y V R R W L P V L A R V P V K Y I H R P W E A P
UniRef90_A4BYS5 I Y N P I K N S L E H D E D G T F I K K W V P E L A N L S L A F I H E P Y L M T

UniRef90_M4BJC1 L I G K D Y P F P I I D F K H A M T R C L A S M G Q A 250 260 270
UniRef90_Q5V0Z1 V I G D D Y P H P V V D Y D A A R Q A F H R R Y E A V R
UniRef90_X7Y0U3 R R P S G Y P P P I V E A T E R A E A L R R Y R G L
UniRef90_W4HHC9 S P D D A Y P D P I V E A G E R K R A L A A Y E N
UniRef90_R9GNU5 Y T K P I V D H K F A R D R L L K E F K H A L S A
UniRef90_UPI00034FAE18 S L G E T Y P Y P I V D N A S A A K D A K E K L A E I Q K S
UniRef90_A0YDZ0 L L G T V Y S E P L V D N A S A A K D A K E K L A E I Q K S
UniRef90_UPI00047D13AA T Y P E K M V D H K M A R E R E C L K T Y K D A
UniRef90_B7RQF2 L A S D D Y P D R I V A L D E G R R A L E N Y K N
UniRef90_I3Z6N3 R L G V D Y P F P I V D L E K S G K Y A R D Q I W N A Q K
UniRef90_UPI00034CF70C A D E D R P E P M V D L K E S R Q R A L D A Y E R M R R S
UniRef90_UPI000463307C V L G R V Y P E P L V D V K R A A A L A R E T V W A V R K G
UniRef90_U1PR13 L I G D D Y P Q P L V E F D A R R E T F W S R Y E R R S
UniRef90_D2QBC1 V D K P S Y P K P M V D H A M A R Q R A I D T Y R K A L A K V
UniRef90_S6E2E2 E S Y P D P I V D S K Q S R Q R A L N A Y K
UniRef90_UPI00047BBAEF A A R R D Y P D P L I D
UniRef90_A3X5B8 L S K D D Y P T P I V G L A E G R H R A L T A Y A A
UniRef90_UPI0003746ECA A P D D A Y P E P V V G L D E G R R R A L D A Y E A
UniRef90_UPI00036E4D54 I L G N S Y P K P I V E L K A S R R A A L E R R A S L R G S
UniRef90_A3JTL5 L D L N H R P K P I V S L A D G R A R A L T A Y S S L K K S
UniRef90_UPI0003B7344C E P I V D L K H S R R A A L D A Y G E V K A
UniRef90_Q6CSJ7 P N A I V D L R D S R E R V L E R F R E V
UniRef90_UPI000479A87F R L G E N Y P Q P I V D I E L T R K K A S D T L W N L R K
UniRef90_B7G0J7 K L G E H Y P A P I V N E Q E T A K S A K E R L A A V R R
UniRef90_UPI00042B210C V S H S A S K E C R R K M G E A
UniRef90_UPI0004415F71 F E K L K Y P Q P L V E H S E A R D R A L R R Y K
UniRef90_A3VWF1 P R R S S Y P N R L V D L A G G R N R A L A A Y E A
UniRef90_S2YDY9 A I G K D Y P E A I V D H K K S R D Y V M Q Q F K K I
UniRef90_UPI00036F1915 E I G K D Y P Q A I V E
UniRef90_D1B254 H N I P H Y P K P I Q H E K A R K R F L N A F A H
UniRef90_L7H2G1 Q R L A T Y P K P I V D L
UniRef90_UPI0002378AB2 S H E D S Y G A P V V G L K E G R I R A L D A Y E T R K
UniRef90_E3Q882 L P D Q K Y P K P M F D F N E R R T A C L A A M K K A
UniRef90_W8KM03 R I G H D Y P A P I V D H E Q A A R E A R A R F K G V R G
UniRef90_F4L528
UniRef90_M2T8K1 F E K L G Y P K P H V D W K E T K A R A I D R F K R
UniRef90_U5EG19 I I G K D Y P H R I V I H E D V Y K K N I A K M T E A
UniRef90_I0GX82 K P V L D Y P G P L E S H R D E
UniRef90_UPI00047ECE76 Q L G K D Y P P I V S I S K M R K F A S D A L Y T Y K K S
UniRef90_U1NJP8 L P Q A D Y P R P V E Y E T A K E Q F W R R Y E S L K
UniRef90_F8E8X4 T H V K N Y T R P V C R H K P E T R K S I E L F R K
UniRef90_C6XWZ8 F E T E N Y P E P I V E H S F A R E R A L K T Y G N A
UniRef90_B5YL70 L P Y H K P I V N H F E R L L I K K L Y
UniRef90_F0RPZ8 R L G R D Y P Y P V V D E H A P A R E A H R R L Q A V R
UniRef90_Q6L055 I R L N N Y P A P L V D H K T A V M E F R K L I N Q
UniRef90_W7W0D7 R R T L D Y P P P L
UniRef90_UPI00042AFD79 F P G K S Y I E Q V V P L K
UniRef90_L7W836 A L G E D Y P E R L V E N S L S R K R A Q D I L Y G I Q K D L
UniRef90_UPI0002558B0E K L G T D Y P L P I D L K Q K R N R A S K I L L W E M K
UniRef90_B4WMMV9 G E L S Y P P I V E H K E A A A L A K S R L W A I K K
UniRef90_A3W242 L L G R G Y P A P I V D P V E A A R V A R E A V W A C R R A
UniRef90_L8EE48 R A K L D Y P E P V D L A D G L A R F K R A R G G
UniRef90_UPI0004744C13 E P I V D V A Q S R R A A L A E Y R R V
UniRef90_UPI000467FAFF I V D L R A S R I R A L A A Y D A M R A G
UniRef90_F4C6S6 P F R Y P S P I V E H K K A R E R A L E V Y K N A L K
UniRef90_T0P1H3 D Y E K N I Q I P I V S H E E A R E R A L R V Y K Q A
UniRef90_J9ZF04 A A L L D Y R N P I V D L G L S R K R A L Q A W
UniRef90_H3G5Y1 L I G K D Y P F P I V D G K H A V K R C I
UniRef90_E4U091 L T L C D Y P H P L V Y Q K T S A K R A L D H F K S I
UniRef90_A0A059ILU3 S R G D A A P V R R I A P V E G A R A R A L A A Y H A G R G
UniRef90_UPI00047A737C A L G V D Y P E P I V S L K E A G A R A R E M L W A F R
UniRef90_M9LTW3 A E V A D Y P R P M I E Q Q M W K K
UniRef90_A0A058ZKT0 D A P R P A P V V T L P D G R A R A L A A Y D S F R G
UniRef90_E8SHD6 T I G E D Y P K A I I N H K E S R D Y V M Q Q F K Q
UniRef90_G4Z6R5 L R G K D Y P F P I V D S K T A M S R C A A G M S Q A
UniRef90_W8RUY3 T A D D A Y P A P L V S A A E G R K R A L A A Y E N
UniRef90_UPI000375AEC4 F G T K D Y P E P M L K H K A R A E F L A K M E I D K
UniRef90_A4BQ31 D P E Q K Y P E P L I E L K R G R E R A L E A Y Q H
UniRef90_G0QNE6 T K S Y P K P I V E H T F A R N R C L E T F K K V
UniRef90_UPI00036306C6 P R V Q G Y P Q P I L N Y R E A R R V Q Q L E E Q R S S
UniRef90_A6EG10 P I V E H A F A R E R I L K V F K A A
UniRef90_S9VQJ4 T K H K S Y C A P I V D I K K C T Q N V I A N F K
UniRef90_A3Z252 V L G L H Y P L P I V E P N Q A A R E A R V R I W A Q R Q E L
UniRef90_UPI000467EB09 M E R L A Y P E P I V D L T E A A R A R E R L W G W R
UniRef90_UPI000289946A P I G T D Y P L P I I E L H K T R Q K A S D T L W E L K
UniRef90_UPI00041795E8 F E I A S Y P K P I E I Y K K W T R A I N L I K K L
UniRef90_UPI000456083B I E G R D Y P F P M L D E K E T K T E N M Q R I K A
UniRef90_D7DLZ9 R I G L D Y P A P L V N I D Q A F K L A K T K F S Q L R
UniRef90_A4EK19 A L P K G Y P A R L V H Q Q T A R E A K Q R I Y G L R R
UniRef90_G7EHS0 P L G E D Y P E P M L D L T A A S K E A R E R L W Q Y R
UniRef90_V6BRH0 I E G K D Y P A P M V N H L V A A E R N R F A M K E
UniRef90_S9SHJ1 S P G D P Y P P V I D P S E G R R A L A A F E R F R K
UniRef90_E4ZKC2 I E G E T Y P K P M F D F P T R R D I C L D G M K N A
UniRef90_UPI0003FC4761
UniRef90_A3X5Z0 V I G R H Y P E R I F D H M A A A K A A R E K I W E V R R
UniRef90_U1LRS2 V L G E D Y P E P I V D L K L S Y K A A Q E L L W Q W R K
UniRef90_Q28R72 R L G R R Y P A P I V D
UniRef90_UPI00034C9558 N I S Y P K P V D W K K T R S V N G K V I S N L R S K V
UniRef90_U1P7Y0 L I G D T Y P R P I V D F E A R R E T F W S R Y E R
UniRef90_K7R5G5 P V V D L E E A R R E Y L R L
UniRef90_I0YVL3 E L G S N Y P Y P I I
UniRef90_A4BYS5 P L G I N Y P H P I V D I K I A R K K A S D T L W E M K K

UniRef90_UPI0003B7132F P Y L A W G N I S L R E S Y Q F L L Q H W Q R P G W R R S L S A L S S R L
UniRef90_H3G5Y2 P F L Y F G C I S P R T F Y L H H V R A I Q E H H A T A L S A T P V I S L D G Q I
UniRef90_A7S6B3 P Y M R F G C L S P R Q L Y Y Q Q L A L T Y M K E K K S I P P A T L R F T G L
UniRef90_R9P708 P F L A Y G G C L S P R Q I Y W E A L D D H E K K F G E D Q N T Y W V R F F E L
UniRef90_A0A037ZIA3 A H L S L G E I S A R Q V W Q A L K E N E L K E N A K A Q F A L K S F R N C
UniRef90_A0YV59 A H L A F G T I S A R Q V Y Q Q T K A A N E L K E N A K A Q F A L K S F R N C
UniRef90_UPI0004674013 P H L H F G E V S V A R V V A G A V L E A T S G D P A G R E R F L A E L
UniRef90_A0LR66 A D L H F G T L S H P R T V R D A A R K T V E G P A L D R F L A E L
UniRef90_I0YJU5 A Y V H H G Q L S A R L L H E T V I A R G G R E L S K T F S R R L
UniRef90_Q389M9 P Y L K F G T I S I R E A M Q V A L L H L G K E H A G G R E L S K T F S R R L
UniRef90_A8G331 P Y I S W G C I S L K E I F Y K A N L N K N N N S I M F K S R L
UniRef90_N6XQL3 P Y L A W G C L S L R E L V I Q A T R A R A A L P E G D R R R A G L A A F L S R L
UniRef90_UPI00029A9A06 P Y L A W G C L S A R E I Y E K V M A Y E T K V K K N Q S T W W L V F E L
UniRef90_I5C8D5 P Y L A W G N I S M R Q V Y Q A A E A R R K S G F Q A R N L V N F Q S R L
UniRef90_UPI0002D63159 P W L A A G C L S P R A I Y W E V K Q Y E K E R G A N D S T Y W L I F E L
UniRef90_F2PEU1 P Y L A W G N I S L R Q V Y Q Q V L A H W N V K G F R R S L I A L S S R L
UniRef90_UPI000347F4F0 P H L R W G E I S P R Q V W H A A I D S G Q P V I G S F L S E I
UniRef90_Q2S050 V H L A Y G T I S L R R V V Y E L R R R R Q E E L R G A A R R K A G R S S F D S R L
UniRef90_K2JN19 A Y L A E G L L A I D H V W Q A V H S A P A G P G R Q S L L D E L
UniRef90_W2SA61 A H L H F G S L G I R Q F Y W G V L D V F D K R K K A G K H V E P M N L I G Q L
UniRef90_UPI0003B78DB6 V H L R H G A M S V R E L M R Q A N D L N D K F L S R L
UniRef90_A6GPG1 P Y L A F G V I S I R E M L R E A L S Q A R Q Q K A Q T Q W K Q S L K S F E S R L
UniRef90_H0J039 P W L A R G C L S A R Q V H Q E V L S K A W E E V N G S T E S S Y W I I F E L
UniRef90_F4RLP7 P F L A H G C L S P R K I L L E L R E H E K K F G A N K D T Y W V L F E L
UniRef90_M4D001 P W L A F G C L S P R F I Y E E V R Q V Q R Y E R E R V A N N S T Y W V L F E L
UniRef90_M4DX76 P Y L K
UniRef90_B0X7G5
UniRef90_UPI00046EB5D1 P R L R F G E L S P R Q L L A A L L D L P E V S D D D R Q A L S L H G Q L
UniRef90_UPI000472C947 P Y L A W G N I S M R E M Y Q I T L L H W Q K K G W R R A L V J A M V S R L
UniRef90_N1QCT8 P Y L H F G A L S C R Y Q F Y H R V A E L V E R R K K E K F R D M Y F A Q A S L
UniRef90_U7G163 A A L A W G C L S V R I W H A I L J E Y E Q H Y G A N S H S Y W L R F E L
UniRef90_H2CFS7 P H L R F G T V S I R R L A N A A R H R N T L P R K K K S L T S F R S R L
UniRef90_G6YWM6 P H L A Y G T V S L R E I Y R L D K I Y A K L R S H Q T S A S S K S R V M
UniRef90_C3Y2F8 P Y F S F G C L S V R H F Y H R L W A R A R W L A R L P G P D Q K S F E S R L
UniRef90_F5RA28 P H L A F G T L S L R E V V H A V W R A R A R W Q A E P S R R H A D V F E S R L
UniRef90_UPI000363CCB9 P H L A L G T L S L R E V V H A V W R A R A R W Q A E P S R R H A D V F E S R L
UniRef90_A8T3C2 P Y L A W G N I S L R E V V Y Q Y L L E H W Q L A G F R R S L I A L S S R L
UniRef90_UPI00037FFFDC V Y L S W G N I S S K Q C Y Q Y L K Y H P K F D Q N K R N F N G F L T R L
UniRef90_F2Y1K1 S Y I K Y G C L S I R E V V Y H S F K D Y H P K F D Q N K R N F N G F L T R L
UniRef90_UPI0002DE474F T Y L A Y G C L S L R E V V Q S T R A A L D A P Q A N R H K A G L I G F I S R L
UniRef90_E1SU94 P Y L A W G N I S V R Q V I Q R L R Q D A D T P D W R P A R R A L T S R L
UniRef90_Q15ZK4 P W L A N G C L S V R W F E T E L R R Y E S E Y E K N D S T Y W L Y F E L
UniRef90_UPI0002E952DE A W L A N G S I S A R M V V A E L D N Y E Y R H G K D E S S Q S M F A E L
UniRef90_UPI000411D1CF A W L S M G C I S P R F I Y Q E I L T K Y E H Q F G A N D S T Y W L V F E L
UniRef90_UPI00037F4EC6 P Y L A F G N I T V R Q V Y Q A R Q C A R G E K R H S L S M K A F G D R I
UniRef90_V2XU36 P Y L K F G C L S G V H F L W R V R D T I S E W K K S S K N K E P E N L E G Q L
UniRef90_UPI000395B8BF A W L A N G C L S V R W A A A E L N R Y E R N V E Q N E S T Y W L Y F E L
UniRef90_V4HMR9 A H L A W G N V S L K Q V Y Q S V L A N W K K P Q W R S L V J A F A S R L
UniRef90_UPI00036D3E75 P H F T Y G S V S I R Q V Y Q R L N E L L P S L D N K K D L Y S F A K R R L
UniRef90_F5LCD3 R H L N T G A L S I R R A Y E A A L G S E R H E A W T R Q L
UniRef90_C1MT40 P Y V R H G E L S V R E Y R A A K A A S V G S R K S Q A R S A G V F L R R L
UniRef90_A9DMU9 A W L A N G S L S P R M I Y H E V K K Y E S E I K N Q S T Y W I F E L
UniRef90_K9FDX7 P H L H F G S L S V R K F W W D V E G V L N K H R K A K K P T V P T N L P G Q L
UniRef90_K6ZW41 L W L A N G C L S V R T Y Y H T I K Q Y E V Q R G A N D S T Y W L Y F E L
UniRef90_A4H5L0 P Y I A L G A L S P R K Y Y E V L R E A Q A N Q R D A F V Q Q Q F R E G L J R L
UniRef90_H3NWJ1 P W L A N G T L S V R E V A H C I F D F E K Q R V S N E S T Y W L F F E L
UniRef90_A0A059G6P6 P H F T F G T V S I R E A Y Q G A M R A R A E L Q L D G D S T F A D S F L S R L
UniRef90_L8Y162
UniRef90_UPI000381BFED A A L A W G C L S S R T V W H Q I L E Y E Q Q W G S D E H S Y W L R F E L
UniRef90_F3KZ48 P W L A T G A V S P R T I L H H V Q R F E N E V T A N E S T Y W V F F E L
UniRef90_A3XGD4 A W L A N G G I S A R T I Y H W I K A F E Q E T K N E S T Y W L F F E L
UniRef90_UPI00035A1C37 P Y F S M G C L S V R T F F Y R L S N I Y A Q A K H H S L P P V I S L Q G Q L
UniRef90_B8KWL8 P W L A N G N I S A R E V A H E I F R F E R E Q L A N E S T Y W L F F E L
UniRef90_UPI000255AD81 A W L A N G S I S A R E V F W E V K R Y E K E R T A N Q S T Y W L I F E L
UniRef90_N6YKD8 P W L A Q G V L S P R S V Y A A L R A F E A R R G A S E G S Y W L W F E L
UniRef90_M2Y6Y9 P W I S I G C V S V R Q V Y W E G Y R S Y M K N M D S Q V A N L W L K R F
UniRef90_UPI0003FC1E87 A W L A N G G I S A R T I Y W E V Q S Y E Q E I C K N E D T Y W L I F E L
UniRef90_A0A059FEL1 P H L A F G T V S V R E A W Q A A V R A R A A Y V Q D G D Q T F A A S L A A F L
UniRef90_G7XDA0 P H L H F G S L S V R K F W H D V Q D H E R E S A H K P T S N L P T N L P G Q L
UniRef90_V4J6Y7 P Y L S V G N L S P R Q I F N H L T Q Y E K E N A N E S T Y W L I R F E L
UniRef90_A1SV39 P W L N S G C I S V R Q V M N N L A E F E Q Q H G K N S S T E C L Y L I E L
UniRef90_W9W8G6 P H M H F G S L S P R K F W W D V Q A E R R R K E H K P V S H Q P V N I P G Q L
UniRef90_A4S782 P Y L R H G Q I S P R Q I Y H E L A T K K M G S D G V E G K L S R V F W H R L
UniRef90_UPI000255803F P W L A Q G S L S P R R I M Q Q L K Q Y E A R Q G A N E S T Y W I F F E L
UniRef90_UPI0003666998 T H L A W G T I S L R T I F K Q L D Q R R E E V R E N N Q R S N W R A F E S R L
UniRef90_K7RH5 P W L A N G S L S A R E V I R Q V Q R F E Q T I E K N D S T Y W V Y F E L
UniRef90_F5Z7V8 P W L A T G A L S A R Y V I Q E V K K Y E Q N V V K N D S T Y W I Y F E L
UniRef90_UPI000304CB2B P W L A N G A L S P R S Y F V E L Q R M E K Q F P D K E E P V R T L S D Q L
UniRef90_M1FGF9 P Y L A F G N L S L R Q A Y Q T Y R A N R Q N P G W D R S L R A F A S R L
UniRef90_UPI00037384CC A W L A N G S L S A K T I Y Y K I K E Y E K E F G S N Q S T Y W V V F E L
UniRef90_UPI0002558A95 A W L A N G S L S A R E V Y A E L K R F E R E V T A N E D T Y W L Q F E L
UniRef90_F2G297 P Y L A W G N I S I K Q V Y Q S V Q R Q K H K K R A L P I H E K K R W L T S R L
UniRef90_H5CYY2
UniRef90_UPI00036AAEE0 P H L R W G E I S P H T V W H T A L H R R G G N P G K F L T E L
UniRef90_M1FG24 T Y L A Y G T V S D R E I F Q A V D R R M N A D O F G K F Q E N A R F Y L D R L
UniRef90_M5XBF8 P W L A S G S L S P R F I G E E V K R Y E K A R Q A N D S T Y W V S F E L
UniRef90_L1MKD5 P H L R F G E V S P A T V W A E V R N S T E N A E Q F L R R Q L
UniRef90_A8QB38 P Y L A H G E I S P H R V L H A L R E V R L N R D T P K P A I E S K T F F E R L
UniRef90_I1DV01 T Y I S Y G Q L S L R Q L Q Q Q S F V A I K Q S S D S R R S Q G L Q A F F S R L
UniRef90_A0A014P6H8 P W L A T G A L S P R Q A M A Q L R Q F E A T Q G A S D G S Y W L W F E L
UniRef90_H1W0T8 A Y L S F G C L T S R Q I H E A M V R F E D P G Y G K G E N D G T K A V R F E L
UniRef90_X2MLE7 M N E L

| | 90 | 100 | 110 | 120 |
|------------------------|---|-----|---------------------------|-----|
| UniRef90_UPI0003B7132F | H W H C H F I L Q K F E S E C E M E K R P I L N R A Y Q G Y P W R H D T A D V T A W | | | |
| UniRef90_H3G5Y2 | L W R E F F H C H G R A N A D P Y F D K M E E S P T S L Q Q I D W R W H R S E Q F D A W | | | |
| UniRef90_A7S6B3 | V R R E D F L F H V A S H N G A D L D K M E E D N P L S V Q Q F P W E E N K E G L E R W | | | |
| UniRef90_R9P708 | L W R D Y F F F V A S E K Y G H R K M E E G W W R K W D P I K D G P P E H E M T R L | | | |
| UniRef90_A0A037ZIA3 | A W R E F A W H L L V D R P D M A T E N W R D G W D G F P W I D D A S H P D A W | | | |
| UniRef90_A0YV59 | R W R D S A I Q R L Y Y F P E L A Y A Q D N Q C Y P E F D K W Y S D E K L E Y F Q A W | | | |
| UniRef90_UPI0004674013 | G W R E F A H H V L H H H P H A A D Q D L D P P R F A G F Q W P P S P A R L E A W | | | |
| UniRef90_A0LR66 | A W R E F A D V L W H R P D A A W H S W D P I G R H L A V D D A R E R F T A W | | | |
| UniRef90_I0YJU5 | I W R D L A Y W Q L H H W P R Q M A V R P M R T H Y T G G Q E W N E W P A A L R A W | | | |
| UniRef90_Q389M9 | L W R E F Y S M L L Y H N P R L A N E P F L E K Y S N F Q W E W N D A E F T A F | | | |
| UniRef90_A8G331 | T W H C H F I Q K L E S E P E L E F C D F H P Y F K N S R T K N T E L L L L W | | | |
| UniRef90_N6XQL3 | Y W H C H F I Q K L E S E P T L E F R N L H R G Y D G L R P E W N Q A H F D A L | | | |
| UniRef90_UPI00029A9A06 | V W R D Y F T F K A M R F G N R I F Q S K G Y K N K N L D W E N D P V K F E K W | | | |
| UniRef90_I5C8D5 | R W H C H F I Q K F E M E D Q M E F R C V N Q G F E K M E K P L D S A K V E A W | | | |
| UniRef90_UPI0002D63159 | L W R D Y F R F M F K K H G S Y F V F E G F K G Y S Q E Y A D N Q A L L F E N W | | | |
| UniRef90_F2PEU1 | H W H C H F I Q K F E S E P D T E F F E C M N R T Y D R Q Y C S K D E L K L N A W | | | |
| UniRef90_UPI000347F4F0 | G W R E F A W H T L Y H H P D L H L E S L D G R F D P H A W A L R P E S E H A W | | | |
| UniRef90_Q2S050 | H W H S H F T Q K L E D A P R L E N E S Y I P A F D A L R D D W D P A L Y D A W | | | |
| UniRef90_K2JN19 | L W R E F F H H W L A G Q G A R V I F T G G P K G A R D D Q R L K A W | | | |
| UniRef90_W2SA61 | K F R D M Y F S A Q Y A I G D A F Q R E E G N S V V R V V D W Y A E Q W F L R W | | | |
| UniRef90_UPI0003B78DB6 | I W R D F F M M L L W H F P D T A H E S Y D P K F R H L R W R N N E A E F K A W | | | |
| UniRef90_A6GP31 | H W H C H F I Q K L E S E P E L E F R S A H R G L N A M R N P E E N Q K A L A W | | | |
| UniRef90_H0J039 | L W R D Y F F H I T Q K Y G N T H Q W H P F Q N L K M N Q N Q S Q G S R A I N Q A W | | | |
| UniRef90_F4RLP7 | L W R D Y F R F L S R K C G S D F K M L H L G G P R N V Q G E W S Q Q R K L F E A W | | | |
| UniRef90_M4D001 | L W R E F F Y T T A F G T R N F D K M K G N P I C K Q I P W K E D H D M L A A W | | | |
| UniRef90_M4DX76 | F W R E F F Y C A A T K N P A F E S E M P M R P E F A S F P Y E D D P E A L E H W | | | |
| UniRef90_B0X7G5 | Y W R E F S W H L T Y H L P N I E S E P M R P E F A S F P Y E D D P E A L E H W | | | |
| UniRef90_UPI00046EB5D1 | H W H C H F I Q K F E S E H H M E Y R P V N R G Y L H F E Y A N D R Q S D T A W | | | |
| UniRef90_UPI000472C947 | G W N S H C R F V L W H L P S K V I L S K R T T G A Y E D D D E E K W F Q R W | | | |
| UniRef90_U7G163 | L W R E F F H W S L R E H G V Q S F C S D R Q A E P P C L D S L A Q R R W L A W | | | |
| UniRef90_H2CFS7 | L W R E F F Q M I L Y Y Y Q G T D Q E F R P E W R D P A R S A D A R R D F E A W | | | |
| UniRef90_G6YW6M6 | H W H C H F I Q K L E D E M P R E L E F R A M H R E M E A L K T P N D T E R L Q R W | | | |
| UniRef90_C3Y2F8 | I E R T R C V L L L E M L S R T C R L I A R L I F L L C N W H N D V A C F L S | | | |
| UniRef90_F5RA28 | H W Q A H F I Q K L E S E P E I E L R A V N R L Y D G L R E D F S A S R H A A W | | | |
| UniRef90_UPI000363CCB9 | H W H C H F V Q K L E T E P A L E Q R A V N R L Y D G L R P D D F S P A L H R A W | | | |
| UniRef90_A8T3C2 | H W H C H F I Q K F E S E C K M E F R C V N Q A Y E R Q A C S Q D Q T A L E A W | | | |
| UniRef90_UPI00037FFFDC | K W R C H F M Q K F E D E C E Y E T R C I N R G Y E L L E R E R N Q E F I T N W | | | |
| UniRef90_F2Y1K1 | V W R E F F Y Y I N E Y F P E L T D K S Y Q S K Y D A I K W V Q N K K H L D A W | | | |
| UniRef90_UPI0002DE474F | Y W H C H F I Q K L E S E P E L E W R N H R G Y D G L R E D W N D H F A A L | | | |
| UniRef90_E1SU94 | K W R D H F I Q K F E S E C A M E G R P I N Q A Y R H F P Y H Q D A D S D A A W | | | |
| UniRef90_Q15ZK4 | L W R E Y F Q W H L F K Y Q S K L F Q F S G T Q D T R P L T T F V A L R F A M W | | | |
| UniRef90_UPI0002E952DE | L W R E Y F Q W M M K Y H G A R M F A F D G I K K R P L T S F Y C E K F K A W | | | |
| UniRef90_UPI000411D1CF | M W R D Y F R F M M K Y N A K F F Q K A G I Q S K G I Q V N K N N Q H Q Q E W | | | |
| UniRef90_UPI00037F4EC6 | A W H D H F I Q K F E S E S R M E F R S V N K A Y E E F N Y E D A Q Y L F E K W | | | |
| UniRef90_V2XU36 | A F R E M Y A A E F A Q G E F G Q I R G N S I C R Y I D N W H E A E Y D R F L A W | | | |
| UniRef90_UPI000395B8BF | L W R E Y F Q W M L Y H Y G A R F F R F K G I A N K R P L T T F Y A E A F M A W | | | |
| UniRef90_V4HMR9 | H W H C H F I Q K F E S E C E M E F R C V N R A Y E C M P R D E A S E R L R A W | | | |
| UniRef90_UPI00036D3E75 | Y W H C H F V Q K L H T E P E L E F N S M H R M C D E L R T E H D N E M I D K W | | | |
| UniRef90_F5LCD3 | A W R D F Y L Y Q A V Y N P D F F V Y E K K F D F S G L E D T L F E R W | | | |
| UniRef90_C1MT40 | A W R D L A Y W S L W R F P H L A D E P L R P Q Y A S Q W W C S N D A N L R A W | | | |
| UniRef90_A9DMU9 | I W R D F F K Y I S L K H G N N I F K L E G L L H K A Y E W N T D S K L I Q W | | | |
| UniRef90_K9FDX7 | L F R D M Y F A A Q A P L G H A F S R T Y G N E I A R F I D W H A E E W F Q R W | | | |
| UniRef90_K6ZW41 | L W R E Y F Q W Y L A K H Q A K L F Y F S G I Q Q V A P L S E F N Q Q T F T R W | | | |
| UniRef90_A4H5L0 | S R R D Y W H W M L R F G D R L F F S Y G P H P E H P D W R H D R K V V Q R W | | | |
| UniRef90_H3NWJ1 | L W R E F F Y W R A E V D G K S M F M L A G K T G K P R R S T F E P R N F A R W | | | |
| UniRef90_A0A059G6P6 | Q W H C H F L Q R L S D Q T T L N S R N L H V E A D G L R D R D A D P R L E A W | | | |
| UniRef90_L8Y162 | A T N N P R F D K M E G N P I C V Q I P W D K N P E A L K A W | | | |
| UniRef90_UPI000381BFED | L W R E Y F H W S L R V H G S Q L F A A G G L T G K A G P G T F N S E Y W Q A W | | | |
| UniRef90_F3KZ48 | L W R E F F Y W R A Q I D G V H L L F L P Y G V A R K K Q L R T F D P R Q F T R W | | | |
| UniRef90_A3XGD4 | M W R D F F K Y I S L K Y G D Q L F L K I G G L L E K D Y D W T N K A A K K E W | | | |
| UniRef90_UPI00035A1C37 | L W R E F F Y T V A S A T P N F T Q M A G N P I C L Q I C W Y K D A E R L H K W | | | |
| UniRef90_B8KWL8 | L W R E F F Q W R A V L D H G L F H I G G V Q K R G R R C C F D P R A F A R W | | | |
| UniRef90_UPI000255AD81 | L W R D Y F K Y I S L K H K N K I F Q L G G I L N R H Y D W N R D K I T L N Q W | | | |
| UniRef90_N6YKD8 | L W R D Y F R F L H L Q H G R R L Y R A R G L A E R A V P P A H D A A F A R W | | | |
| UniRef90_M2Y6Y9 | L W R D F F Y L L C L Q E G S A V F R D R F P L Y K Q S A T P Y E T I C N Q A W | | | |
| UniRef90_UPI0003FC1E87 | I W R D Y F K Y I S L K H G N K I L F O Q L D G I L G K Y D W K F N E K A L R Q W | | | |
| UniRef90_A0A059FEL1 | E R L E G R A R A I Q A F E D R P L P Q T G S S E D L R P E A A P G D P R A A W | | | |
| UniRef90_G7XDA0 | L F R E M F F K L A R E I P W H L Q S N Y D E R T Y T L D D E Q A E V W F R R W | | | |
| UniRef90_V4J6Y7 | M W R D F F H K K A M L K G A M L F K F T G S Q G R P L T S Y P Q R F R S W | | | |
| UniRef90_A1SV39 | L W R E Y Y Q W V H Y K V G A K T Y Q F K G L A K H R P L T T F Y P E R F N K W | | | |
| UniRef90_W9W8G6 | L F R D M Y F A A H C Q V G A F G Q Q I G N P V A R F I P W H K A E E Y F Q R W | | | |
| UniRef90_A4S782 | Y R R E F A Y W Q L H N W P E L P Q S S V R G H Y E W L G D E A V A L H R W | | | |
| UniRef90_UPI000255803F | L W R E Y F Q W Y A H H H G V R L Y H L K G I Q G R S P L T S F Y P Q R F K S W | | | |
| UniRef90_UPI0003666998 | E W R D H F I Q R L E A F P E L E K K A L N S A Y S D L K Y E D D P Q K L D A W | | | |
| UniRef90_K7RHB5 | L W R E F F H W L Q K Y G A K W F R F S G I Q G R K P T T C H D P E T F S R W | | | |
| UniRef90_F5Z7V8 | L W R E Y F Y W L Q Q K F G S K W F Q L E G I K S K L P N T S H D P Q V F V I G W | | | |
| UniRef90_UPI000304CB2B | L W R D Y F R Y L F L R Y G K A M E Q T T K G L R K T E P D M Y N D D N G F E Q W | | | |
| UniRef90_M1FGF9 | H W H C H F I Q K F E S E C A M E Q R P V N R G Y L A Y P Y R T D N A D L A A W | | | |
| UniRef90_UPI00037384CC | I W R D Y F K Y I S L K Y E S K I F R I G G I L D R E Y D W S T D Q K V I Q Q W | | | |
| UniRef90_UPI0002558A95 | L W R D Y F K Y I S L K H G D R L F A L S G I R A R K Y T W Q L D P E K L A A W | | | |
| UniRef90_F2G297 | H W H C H F I Q K F E S E H S I E W R P M N S A Y E N F Y I D G P E A E R R F | | | |
| UniRef90_H5CYY2 | | | M Q W Q S N P A H L Q A W | |
| UniRef90_UPI00036AAEE0 | G W R E F S W Y N L Y L H R P D M A Q E R P I N P K Y E H F P W P E D E D L A A W | | | |
| UniRef90_M1FG24 | S W R R Q Y M Q T F E T R P E L E F E C M L A Q F N G V R E A D Y W E H F T A W | | | |
| UniRef90_M5XBF8 | I W R D Y F R F L S A K Y G N S L F H L G G P R N V I E H R W S Q D K I L F E S W | | | |
| UniRef90_L1MKD5 | I W R D F A W H R F Y H L P N M A T V N V R E A F N R F P W E W T P R A K A A W | | | |
| UniRef90_A8QB38 | L W R E F N Y H L R L Y H Q P D L A T Q N H N E Q W N L F T W S N T A A A Y D C W | | | |
| UniRef90_I1DV01 | R W H C H F M Q K L E D E P A I E F Y N M H P G F D G L R E P Y N P T L F A A W | | | |
| UniRef90_A0A014P6H8 | L W R D Y F R F L H L Q H G R T L Y R A R G L G P A R A T P H D Q Q R E A A W | | | |
| UniRef90_H1WOT8 | L W R D Y M R L C T R K F G E K L F R V T G F K G D T T P K W K S D Q Q L Q R F | | | |
| UniRef90_X2MLE7 | I W R E F Y R H L M T W Y P A C K H Q P F I R W T K R V A W Q E N P H Y F Q A W | | | |

UniRef90_UPI0003B7132F A Q G R T G Y P L V D A C M R C L H A T G Y L N F R M R A M L V S V L C H H L N
UniRef90_H3G5Y2 K D G Q T G F P W I D A I M I Q L K E E G W M H H L A R R H S V A C F L T R G D Y
UniRef90_A7S6B3 K E E G K T G F P W I D A I M R Q L R E E S G F M H H L A R R Q A V A G C F L T R G D Y
UniRef90_R9P708 L E G R T G I P F I D A N I L E L R E E S G F M S N R R A G R Q A V A S F L T S K D G W
UniRef90_A0A037ZIA3 Q R A Q T G V D V V D A A M R E L Y A S T G R M S H N R R A R M I T A S Y L T T K H L M G
UniRef90_A0YV59 Q R G K T G F P L V D A S M K R Q L Q S M G W M N F R R M R A M C A N F L T S V L C G
UniRef90_UPI0004674013 R R G R T G V P I V D A G M R Q L W H T G W M H N R V R M I V A S F L T S K H L R
UniRef90_A0LR66 A R G E T G Y G L V D A G M R Q L L S E G W M H N R V R M V S A S F L V K D L H
UniRef90_I0YJU5 Q R G K T G F P L V D A S M R Q L W R T G W M Q Q S V R M V C A N F L T E Y L N
UniRef90_Q389M9 K S G R T G F P L V D A A V R C L T K T G W C H N R C R M L I A N F L T V K V L F
UniRef90_A8G331 S Q G N T G Y P F I D A C M R S L N F N G W I N F R M R A M L M S F A S Y N L W
UniRef90_N6XQL3 V G G R T G W P L V D A C V A M L R A T G W L N F R M R A M L V S V A A Y P L W
UniRef90_UPI00029A9A06 C A N G T T G I P F V D A H M R Q L N Q T G Y M S N R G R V N C S S Y L V H D L K
UniRef90_I5C8D5 K E G R T G F P L V D A C M R C L K E T G Y L N F R M R A M L V S F L T H H L L
UniRef90_UPI0002D63159 K N A K T G I P F V D A N M K E L N L T G F M S N R G R Q N V A S Y L V N D L K
UniRef90_F2PEU1 K E G N T G I P L I D A C M R C L Y H T G Y L N F R M R S M L V S F L T H H L N
UniRef90_UPI000347F4F0 Q R G E T G F T V V D A G M R E L W H S G T M H N R A R M I T A S F L T K N L G
UniRef90_Q2S050 L H G R T G F P M V D A A M R E L R A T G W L N F R M R A M L C S F A A Y D L G
UniRef90_K2JN19 Q Q G R T G I P L V D A A M R E L J A T G Y M S N R A R Q N A S F L V H D L G
UniRef90_W2SA61 K E G R T G F P F I D A L M R Q L K Q E G W I H H L G R H M V A C F L T R G C Y
UniRef90_UPI0003B78DB6 C E G R T G F P L V D A G M R Q L N E T G W L N F R M R A I A T A S F L T K N L L
UniRef90_A6GPG1 L E G R T G F P M V D A C M R M L R A T G W V N F R M R A M L V A F A S Y Q L W
UniRef90_H0J039 R N A S T G V P F I D A A M L E L Y R T G W I S N R S R Q N V A S F L V K D L E Y
UniRef90_F4RLP7 L K A E T G I P F L D A N M A E L R L T G F M S N R G R Q N V A S F L T R D D L Y
UniRef90_M4D001 R D G K T G Y P W I D A I M V Q L L K W G W M H H L A R H S V A C F L T R G D L
UniRef90_M4DX76 A S G K T G F P W I D A I M T Q L R E E G W I H H L A R H A V A C F L T R G D W
UniRef90_B0X7G5 R S G T T G I A L V D A G M A Q L W Q T G W M H N R V R M A T A S F L T K N L
UniRef90_UPI00046EB5D1 Q Q G N T G Y P L V D A C M R C L H A T G Y I N F R M R A M L V S F L T H H L L
UniRef90_UPI000472C947 R S G T T G F P F I D A I M R Q L R A E G Y V S H H L A R H S V A C F L T R G C Y
UniRef90_N1QCT8 Q S A T T G I P W I D A S L R E L J A T G Y V S N R G R Q V L A S F L V Q D L G
UniRef90_U7G163 K G G R T G Y P L V D A G M R E L A V T G F M H N R V R M V V A S F L C K H L L
UniRef90_H2CFS7 Q E G Q T G W P L V D A S M Q L N H S G W I N F R M R A M L M A I A S Y Q L W
UniRef90_G6YWM6 S V A E T G F P W I D A I M S Q L K K E G W V H H L A R H A V A C F L T R G D W
UniRef90_C3Y2F8 C A G E T G F P F I D A C M R A L A A T G W I N F R M R A M L V A F S S Y Q L W
UniRef90_F5RA28 K A G Q T G F P F I D A C M R A L J A T G Y I N F R M R A M L V A F S S Y H L W
UniRef90_UPI000363CCB9 C V G S T G I P L I D A C M R C L H H T G Y I N F R M R A M L V S F L T H H M N
UniRef90_UPI00037FFDC M R G K T G F P M I D A S I R S V J A S G W L N F R M R A M L V S F F C H H L D
UniRef90_F2Y1K1 K H G Q T G F P V V D A C M R Q L N H S G Y M H N R G R L S A N F L N R L G
UniRef90_UPI0002DE474F T A A R T G W P M V D A C V M L Y Q T G W L N F R M R A M L V S V A A Y P L W
UniRef90_E1SU94 Q N G Q T G Y P L V D A S M R A L H Q T G Y L N F R M R A M L V S F L C H H L M
UniRef90_Q15ZK4 Q Q G E T P Y P I V N A C M K Q L N H T G Y M S N R G R Q L V A S C L V N E L G
UniRef90_UPI0002E952DE E Q G T T E Y P L V N A C M R Q L N Q T G Y M S N R G R Q I V A S C L V N E L G
UniRef90_UPI000411D1CF I D G K T G V D F V D A N M L E L K M T G F M S N R G R Q N V A S Y L C N D L K
UniRef90_UPI00037F4EC6 C R G R T G F P L V D A C M R A V J A T G Y L N F R M R A M V S F A C H W L N
UniRef90_V2XU36 K E G R T G F P W I D A I M R Q L R Q E G W I H H L A R H S V A C L L T R Q C Y
UniRef90_UPI000395B8BF R E G S T D F P I V N A A M R Q L K H T G W I S N R S R Q L V A S C L T H H L E
UniRef90_V4HMR9 E T G T T G I P M V D A C M R C L T K T G Y L N F R M R A M L V S F L C H H L E
UniRef90_UPI00036D3E75 I K G E T G F P F L D A C M K F L K I N G W I N F R M R A M L M S F A S Y N M W
UniRef90_F5LCD3 C R G Q T G I P V V D A A M A E L N A T G H M P N R L R M V T A M F L T K N L R
UniRef90_C1MT40 Q R G I T G Y P L V D A A M R E L W I T G Y I P N Y M R H V V A G F L T E Y L E
UniRef90_A9DMU9 I D G E T A A P F V N A N M L E L K H T G W M S N R G R Q N V A S Y F A K T L E
UniRef90_K9FDX7 K D G R T G F P W I D A L M R Q L R Q E G W I H H L G R H S V A C F L T R G C Y
UniRef90_K6ZW41 C C E G M T E Y P I V D A C M R Q L K Q S G Y M S N R G R Q L V A S C F V H E L G
UniRef90_A4H5L0 C C N G I T G I P F A D A A M R E L V G T G F V A H E G R Q A L A W L L T R E Y G
UniRef90_H3NWJ1 C A G D T N Y P I V N A L M R Q L V A T G W M S N R G R Q I A A S C L I N E L D
UniRef90_A0A059G6P6 I S G R T G F P F L D A C M R A L N E T G W L N H L R M R A M V M A F A A Q H L W
UniRef90_L8Y162 A E G R T G F P F I D A I M T Q L R Q E G W I H H L A R H A V A C F L T R G D W
UniRef90_UPI000381BFED C E A R T G W P M I D A G L K E L M A T G F C S N R L R Q N L A S C F I H E L G
UniRef90_F3KZ48 C R G E T N Y P L V N A L M H I V R S G F M S N R G R Q I A A S S L T H H L G
UniRef90_A3XGD4 I N G Q T K Y P D F V N A N M K E I A A T G W M S N R G R Q N V A S Y W A K L L Q
UniRef90_UPI00035A1C37 K M A Q T G F P W I D A I M T Q L R Q E G W I H H L A R H A V A C F L T R G D W
UniRef90_B8KWL8 S A G D T D F P L V N A L M H I L A Q T G W M S N R G R Q N V A S C L T N E L G
UniRef90_UPI000255AD81 I D G C T K E P F V N A N M K E L A T Q T G F M S N R G R Q N V A S Y W A K S L G
UniRef90_N6YKD8 R R G E T G Q P L V D A G M R E L A A T G Y L S N R L R Q L V A S Y L V H D L G
UniRef90_M2Y6Y9 L E G R T G Y P Y I D A H I K E L T T T G Y I S F R G R Q N V A S F L V H E L D
UniRef90_UPI0003FC1E87 M N G N T R E P F V N A N M I E L Q Q T G F M S N R G R Q N V A S Y W A K E W E
UniRef90_A0A059FEL1 I E G R T G F P L I D A G M R A L R Q T G W L N D R M R A M L I G F A A Y Q L W
UniRef90_G7XDA0 K E G R T G F P W I D A C M R Q L K Y E G W I H H L G R H S V A C F L T R G C Y
UniRef90_V4J6Y7 C E G T T Q Y P L V N A C M K E L N E T G F M S N R G R Q I V A S C L V N E L Q
UniRef90_A1SV39 C L G N T P Y S L V N A F M H E L R Q T G Y L S N R G R Q L V A S C L V N E L S
UniRef90_W9W8G6 K H G C T G F P W I D A G M R Q L K Q E G W I H H L G R H A V A C F L T R G C Y
UniRef90_A4S782 Q T G T T G F P T V D A G M R R L W A T G W M H Q S E R M I A A T F L T R D Y C G
UniRef90_UPI000255803F C E G T T S W P L V N A C M R Q L K Q T G W M S N R G R Q I V A S C L V N E L A
UniRef90_UPI0003666998 V Q G Q T G Y P M V D A S M R C L A K T G F L N F R M R A M V V S F A C Y G L H
UniRef90_K7RHB5 C K G E T G Y R I V D A C M R Q L A E T G Y M S N R G R Q L V A S C F V H E L R
UniRef90_F5Z7V8 C N G Q T G Y P I V D A C M R Q L A S T G Y L S N R G R Q L V A S C L V N E L R
UniRef90_UPI000304CB2B R K G E T G E P L I D A L M H E I A E T G Y M S N R G R M L V S F Y L S K E M K
UniRef90_M1FGF9 Q D G R T G Y P L V D A C M R C L H A T G Y I N F R M R A M L V S F L C H L N
UniRef90_UPI00037384CC I D G E T K D D F V N A N M K E I K E T G W M S N R G R Q N V A S Y F A K E L L
UniRef90_UPI0002558A95 I D G R T P Y D F V N A N M R E F A A T G W M S N R G R Q N V A S Y W A K L Q
UniRef90_F2G297 Y H G Q T G Y P L V D A C M R A L R Q T G Y L N F R M R A M V T S F L C H H L N
UniRef90_H5CYY2 Q E G K T G Y P I V D A A M R Q L N S T G W M H N R L R M I S A S F L V K D L L
UniRef90_UPI00036AAE0 Q R G C T G I P Y I D A G M H E L W E T G T M Q N R V R M V V A S L L A K N L L
UniRef90_M1FG24 K Q G L T G F P Y I D A A M R F L N Q T G W I N M R L R A T L V S F A T M N L W
UniRef90_M5XBF8 R D G R T G Y I A L R Q H E R A I N H G I H V E S G K I V C S F L V R D M G
UniRef90_L1MKD5 Q S G R T G V P L V D A G M R Q L W A T G S M H N R A R M V V G S W L T K N L G
UniRef90_A8QB38 R A G H T G F P I V D A G M R E L W K I G W M H N R V R M I T A S L L T K N L R
UniRef90_I1DV01 C S G H T G Y P L I D A A M R S L J A T G W L H F R G R A M L V A F A S Y H L W
UniRef90_A0A014P6H8 C A G Q T G Q P L I D A A M R E L A A T G Y L S N R L R Q V A S Y L T H H L A
UniRef90_H1W0T8 L N G N T G M G L I D A S Q R E L W H T G Y T S N R A R Q N V A S F L T K D L G
UniRef90_X2MLE7 Q K G E T G Y P L V D A A M R Q L N A T G W M H N R L R M I T A S F L V K D L L

UniRef90_UPI0003B7132F I D W R H G A A H L J A R L F L D F E P G I H Y P Q M Q M Q A G V T G L I N T L R 170 180 190 200
UniRef90_H3G5Y2 I S W V R G L E V F Q E Q L I D H E W S I N A G N W L W L S S S Y F F S A Y F R
UniRef90_A7S6B3 V S W E E G F K A F D E L Q L D A D E W S L N A S N W L W L S S S Y F V H G A V P
UniRef90_R9P708 Y D W R I G A E F F Q S H L I D A Y D P T S N Y G N W Q Y V A G V G N D P R A S R R
UniRef90_A0A037ZIA3 I H W R H G L N W F E D T L I D W D K A A N A M G W Q W V A G C G P D A A P Y F
UniRef90_A0YV59 V S W H H G A R H Y M N Y L V D A D I L A I N N H W Q W Q A Q A G T N P L S S T F R R
UniRef90_UPI0004674013 V H W R H G A R W F W D T L V D G D L A N N T Q G W Q W T A G T G V D A A P Y F
UniRef90_A0LR66 L D W R W G A R W F L W H L V D G D I A S N N L N W Q W V A G L G T D A A P Y H
UniRef90_I0YJU5 I H W L H G C R W F H D T L V D G D L A I N S M M W Q N A G K S G L D Q W N F T
UniRef90_Q389M9 V D W R E G A R W Y A T V A V D Y D V A N N S G W W L W S S G Q G A D A Q P Y F
UniRef90_A8G331 L P W Q D S G S E L A N K F V D Y E P G I H W N Q C Q M Q S S G T T S I N T N R R
UniRef90_N6XQL3 L H W R E V G L W L A R A F L D Y E P G I H W S Q L Q M Q S G T T G I N T T R
UniRef90_UPI00029A9A06 I D W T W G A A Y F E S R F L D Y D V T S N W M N W H M Q A F E I W
UniRef90_I5C8D5 Q D W R H G V A H L J A R Y F L D F E P G I H F P Q F Q M Q A G V T G I N T V R
UniRef90_UPI0002D63159 V N W T W G A A Y F E E K L I D Y S P A S N W G N W A Y I A G V G N D P R D N R
UniRef90_F2PEU1 I D W R D G V T H L J A Q L F L D F E P G I H Y S Q F Q M Q A G V T G I N T I R
UniRef90_UPI000347F4F0 I D W R E G E A W F W D T L V D A D Q A S N P F N W Q W V A G C G L D A A P Y F
UniRef90_Q2S050 L D W R R F A P T Y F G L M A D Y V P G I H Y P Q V Q M Q S G T T G I N R A I R
UniRef90_K2JN19 Q D W R A G A D W Y A T V A V D Y Q V S A N W G N W A Y I A G H G A N P R A I
UniRef90_W2SA61 V H W E R G K E V F E E W L I D H E S A S N A G N W M W L S C T A F F S Q F Y R
UniRef90_UPI0003B78DB6 V D W K W G E Q Y F A D K E L I D Y D M S N N I G N W Q W T A G G V T S S P W F R
UniRef90_A6GP61 L D W R H T A P M L J A R E F L D Y E P G I H Y P Q F Q M Q S G V T G I N T L R
UniRef90_H0J039 V D W R L G A W W F E H C L I D Y D V A S N W G N W R Y I A G V G R D P R Q D R
UniRef90_F4RLP7 V D W R I G A E F F E S Q L L D Y D P S S N Y G N W Q Y V A G V G N D P R A S R
UniRef90_M4D001 L D W R M G A E F F E T C L L D Y D P C S N Y G N W T Y G A G V G N D P R E D R
UniRef90_M4DX76 I H W E Q G R D V F E R L L I D S D W A I N N G N W M W L S C S S F F Y Q Y N R
UniRef90_B0X7G5 I S W E E G M K V F E E L L L D A D E W S V N A G M W M W L S C S S F F Q P F H
UniRef90_UPI00046EB5D1 I S W W H G E Q W F W D T L V D A D E A N N P V S W Q W V A G C G A D A A P Y F
UniRef90_UPI000472C947 I D W R R G V H H L J A Q L F L D F E P G I H Y P Q F Q M Q A G V T G A N T L R
UniRef90_N1QCT8 I S W E R G A E V F E E L L I D H E A A C N I G N W Q W L S C T A F F A Q F Y R
UniRef90_U7G163 L D W R L G A R W F E R H L V D H D V A S N W G N W A Y I A G Y G H D A R G G R
UniRef90_H2CFS7 I D W R I G E R Y F A E Q L L D F E L A S N N G N W Q W A A G T G C D A A P Y F
UniRef90_G6YWM6 L H W R D P A L H L J A R L F T D F E P G I H Y S Q T Q M Q S G L T G I N A L R
UniRef90_C3Y2F8 I S W E E G Q K V F E L L L D A D Y S V N A G N W M W L S G S A F Y H Q Y T R
UniRef90_F5RA28 N H W R E P G L H L J A R Q F T D F E P G I H W P Q V Q M Q S S G V T G I N T L R
UniRef90_UPI000363CCB9 N H W R E P G L H L J A R L F T D F E P G I H W P Q V Q M Q S S G V T G I N A L R
UniRef90_A8T3C2 M D W R D G V A H L J A Q L F L D F E P G I H Y P Q F Q M Q A G V T G T I R
UniRef90_UPI00037FFFDC Q D W R D G A N F L A K Q F L D Y E P G I H F P Q F Q M Q A G T T G I N T I R
UniRef90_F2Y1K1 I N W R S G E L Y F A Q T L I D Y D P C V N N A N W Q W L S V I G D T K P Y R
UniRef90_UPI0002DE474F L D W R P V I H W L J A T Q F L D Y E P G I H W S Q L Q M Q S S G T T G I N T T R
UniRef90_E1SU94 I D W R R G V H H L J A R L F L D F E P G I H Y P Q F Q M Q A A V T G I H T I R
UniRef90_Q15ZK4 V D W R F G A A Y F E Q Q L V D F D V A S N W G N W Q Y L A G V G V D P R G H R
UniRef90_UPI0002E952DE V D W R F G A A Y F E Q Q L V D F D V A A N Y G N W Q Y L A G V G A D P R G Q R
UniRef90_UPI000411D1CF L D W R F G A A Y F E Q Q L V D Y D V C S N W G N W A Y L A G V G N D P R G N R
UniRef90_UPI00037F4EC6 L H W R R P A E F L A R Q F L D F E P G I H Y P Q L Q M Q A G V T G T N T L R
UniRef90_V2XU36 I S W E R G A E V F D E Y L I D W D P C S N P G N W M W L S A S A F Y S M Y R
UniRef90_UPI000395B8BF I D W R Y G A A Y F E Q Q L I D F D V A A N Y G N W Q Y L A G V G A D P R G S R
UniRef90_V4HMR9 L D W R V G V A H L J A K L F L D F E P G I H Y S Q F Q M Q A G V T G I N T I R
UniRef90_UPI00036D3E75 Q P W Q K T S P L J A E L F T D Y E P G I H I S Q V Q M Q S G V T G I N L P R
UniRef90_F5LCD3 C P F T L G E R Y F R R K L A D Y D N V L N R G G W L W S A S L G F D A S P Y F
UniRef90_C1MT40 I D W R H G Q L W F H D T L V D A D V A I Q G F M W Q N G G H S S G M D Q W N F
UniRef90_A9DMU9 L D W R I G A A Y F E S L L I D Y D V S N Y G N W L Y V S G V G N D P R N R T
UniRef90_K9FDX7 V S W E R G A A V F E E L L I D H E V A C N V G N W M W L S C T A F F A Q F Y R
UniRef90_K6ZW41 L D W R Y G A A Y F E Q Q L I D Y D V A S N W G N W Q Y L A G V G A D P R G H R
UniRef90_A4H5L0 Q D W R L G A E W M E R C S L D Y D P F V C Y G N Y A Y S C G L I L D D F G E P
UniRef90_H3NWJ1 G D W R F G A A F F E K H L I D Y D V G S N Y G N W Q Y I A G V G S D P R G G R
UniRef90_A0A059G6P6 M D W H Q P A A R L J A L F T D F E A G I H Y P Q A Q K Q A G V R G T G I P R
UniRef90_L8Y162 I S W E E G M K V F E E L L L D A D W S I N A G S W M W L S C S S F F Q P F H
UniRef90_UPI000381BFED L D W R L G A R F F E Q Y L V D F D V A S N W G N W A Y I A G A G H D P R H G R
UniRef90_F3KZ48 V D W R Y G A A Y F E K Y L I D F D V A S N Y G N W Q Y L A G V G S D P R G G R
UniRef90_A3XGD4 Q D W R I G A A Y F E S M L I D Y D V H S N Y G N W M Y N S G V G N D P R D R K
UniRef90_UPI00035A1C37 I S W E E G M K V F E E L L L D A D Y S I N A G N W M W L S A S A F F H Q Y T R
UniRef90_B8KWL8 Q D W R Y G A A Y F E K H L I D Y D V G S N Y G N W Q Y I A G V G A D P R G G R
UniRef90_UPI000255AD81 Q D W R Y G A A Y F E E M L I D Y D V H S N W C N W L Y V S G V G N D P R D R K
UniRef90_N6YKD8 C D W R A G A A W F E A Q L V D Y D V C S N Q G N W L Y I A G R G T D P R G G R
UniRef90_M2Y6Y9 G L W Q L G A E F F E H Y L I D Y D V V I N W G Y W Y H L Y E K K Q I G V E S I
UniRef90_UPI0003FC1E87 Q D W R V A A A Y F E S M L I D Y D V H S N Y G N W I Y N A G V G N D P R D R K
UniRef90_A0A059FEL1 M D W R L P A E K L J A A L C T D F D P G I H Y P Q V I A Q A G L K G R R A P A
UniRef90_G7XDA0 V H W E R G A E V F E E W L V D R I T A S N V G N W S W L S C T A F F T Q F Y R
UniRef90_V4J6Y7 V D W R Y G A A Y F Q Q L I D Y D V A S N W G N W Q Y I A G V G D D P R G G R
UniRef90_A1SV39 V D W R Y G A A W F E E Q L I D Y D A A V N W G N W Q Y I A G V G V D P R G G R
UniRef90_W9W8G6 V S W E R G A E V F E E W L V D H E V A C N A G N W M W L S C T A F F S Q F Y R
UniRef90_A4S782 V H W T H G A D W F L D T L V D A D L A I N S M M W Q N A G K S G L D Q W D V F
UniRef90_UPI000255803F L D W R Y G A A W F E Q E L L D Y D S A S N W G N W Q Y L A G V G A D P R G K R
UniRef90_UPI0003666998 L S W K T I H E P L J A C L F Y D Y E P G I H L S Q L Q M Q A G V I G F N A I R
UniRef90_K7RH5 Q D W R Y G A A W F E H Q L I D Y D V G S N W G N W L Y L A G V G S D P R G H R
UniRef90_F5Z7V8 Q D W R Y G A A W F E S Q L L D Y D V A S N W G N W L Y L A G V G T D P R E N R
UniRef90_UPI000304CB2B I N W Q W G A A W F E S T L I D Y D V C S N Y G N W A Y Q S G R G T D G R V N R
UniRef90_M1FGF9 I D W R R G V H H L J A R L F L D Y E P G I H Y S Q F Q M Q A G V T G I N T I R
UniRef90_UPI00037384CC V D W R I G A S Y F E S L L L D Y D V H S N Y G N W M Y I A G V G N D P R D R K
UniRef90_UPI0002558A95 Q D W R A G A A W F E S Q L I D Y D V H S N Y G N W M Y N S G V G N D P R D R
UniRef90_F2G297 V H W L K A A H Y L J A T Q F L D F E P G I H Y P Q L Q M Q A S V T G H T V R
UniRef90_H5CYY2 I D W R E G E R Y F M S Q L I D G D L A A N N G G W Q W A A S T G T D A A P Y F
UniRef90_UPI00036AAE0 I D W R L G E Y W F W D T L V D A D A A N N P H N W Q W V A G C G T D A A P Y F
UniRef90_M1FG24 I P T T K V J A E Y L A T E F L D Y E P G I H H V I H Q I A G T T E F N E L M
UniRef90_M5XBF8 I D W R M G A E W F E T C L L D Y D P C S N Y G N W T Y G A G V G N D P R E D R
UniRef90_L1MKD5 I H W R H G E E W F W D T L V D A D A S N P F N W Q W V A G S G D D A A P Y F
UniRef90_A8QB38 I H W R L G E E W F W D T L V D A D P A S N P G N W Q W V A G T G A D A A P Y F
UniRef90_I1DV01 L H W R P L J A L H L J A Q C F I D Y E P G I H Y P Q L Q M Q A G T T G I N P N R
UniRef90_A0A014P6H8 C D W R A G A A W F E A Q L L D Y D V V S N Q G N W L Y I A G R G T D P R G G R
UniRef90_H1W0T8 I D W R Y G A E W Y E Q L L V D Y D V S N W S N W Q Y I A G V G N D P R D N R
UniRef90_X2MLE7 I D W R L G E R Y F M S Q L I D G D L A A N N G G W Q W A A S T G T D A A P Y F

UniRef90_UPI0003B7132F I Y N P V K Q S R E Q D P D G H F I R R W L P E L S S L P T E A I H Q P W L T P
UniRef90_H3G5Y2 V Y S P S T F G K K W D P T E G L F I R K Y V P A L S S K M P V K Y I Y E P W K A P
UniRef90_A7S6B3 W Y C P V E V G K K V D P T G G D Y I R K R Y V P E V R R G L P S E Y V C E P W N A P
UniRef90_R9P708 Q F N T V K Q A K Y D S H G D Y V K M W I P A L R N L H V D Y V H T P W L L S
UniRef90_A0A037ZIA3 R F N P D T Q A A K F D P D G V Y R N H W L S G S G A R D F A A A V P V I S W S
UniRef90_A0YV59 I Y N P T K N L T E K D P K F E F V I R D W I P E L R D C T D E Q I L S G E I G E
UniRef90_UPI0004674013 R F N P V L Q A R R F D P D G G A Y I A R W V P E L A A L P A A A R F A P W E H P
UniRef90_A0LR66 R F N P D R Q A E R F D P D G A Y R R R Y C A D L P A R L S
UniRef90_I0YJU5 L L P N T S S S Q D P D G A Y I A R W V H E L E R L P R K W L H Q P W L A P
UniRef90_Q389M9 R F F N P R Q S A Q H D P D G A V F I R K W V P E L R N V S V R T I H K W D V F C
UniRef90_A8G331 I Y N P I K Q G K D H D P E G E F I R K W V P E L K N V A I D F I H E P W L L S
UniRef90_N6XQL3 V Y N P I E Q A R D H D P Q G V F V R R W L P A L R R V P D T W L F E P W R M P
UniRef90_UPI00029A9A06 Y T N P V H Q S N K Y K A Q E F I R K W I P E L A K N N D V E V L I P W T F D
UniRef90_I5C8D5 I Y N P V K Q A E D H D P E A V F I S K W V P E L A Q L P I P Y R L K P W E L S
UniRef90_UPI0002D63159 Y F N P T E K Q A S E Y D P K G E Y V D F W L K
UniRef90_F2PEU1 I Y N P T K Q A Q E H D P D G K F I H K W V P E L A N V P A P L L F E P W T L T
UniRef90_UPI000347F4F0 R F N P E L Q A K K F D A N G E Y Q R T W A T D A M A T P
UniRef90_Q2S050 I Y N P V K Q G K E Q D P D G T F I R R W V P E L S H L D T A Y V H A P W K M C
UniRef90_K2JN19 Y F D V A W Q S Q H Y D P D A L Y I R R H W L P E L A E L P T A R I H R L P W L A
UniRef90_W2SA61 C Y S P V S F G K K W D P Q G T F V R H Y V P E L E K F D K K Y I Y E P W K A P
UniRef90_UPI0003B78DB6 V F S P D S Q L K K Y D P D L A Y V R Q W I P E Y N
UniRef90_A6GPG1 I Y N P V K Q A K D H D P Q G V F I R R W I P E L K N I P D P W L G E P W N T P
UniRef90_H0J039 Y F N V L K Q A G H Y D P K G L Y V A Y W L P A L A S L P G L E R H Q P W R
UniRef90_F4RLP7 Q F N P I K Q A K D Y D A K G E Y V R C W L P E L A K V P Q K S I H N P W L
UniRef90_M4D001 Y F S I P K Q A Q N Y D P E G E Y V A F W V Q Q L R R L P K E K R H W P
UniRef90_M4DX76 I Y S P V S F G K K Y D P D G K Y I R H F L P V L K D M P K Q Y I Y E P W T A P
UniRef90_B0X7G5 C Y C P V K F G R K A D P N G D Y I R R Y L P V L K N F P T R Y I H E P W N A P
UniRef90_UPI00046E5D1 R F N P E R Q R E R F D P N S E Y V I G R W V P G L R G P G G L T R T E R S H G D
UniRef90_UPI000472C947 I Y N P V K Q S Q E Q D P E G A F I R E W L P E L T P L P D S L I H T P W Y G V
UniRef90_N1QCT8 C Y S P I A F G K K W D P D G D F V R K Y V P E L K D F P K K F I Y E P H K A P
UniRef90_U7G163 R F S P T R E W W R H D P D A S Y L Y Y W L P E L A G L S R A A C L E C H F R S
UniRef90_H2CFS7 R F N P E L Q Q R R F D P D M Q Y V R R W L P E
UniRef90_G6YWM6 I Y N P V L Q S R K L D P D G E F I R R W I P E L A G V P S E M I H T P W L M T
UniRef90_C3Y2F8 I F C P V R F G R K R T D P D G T F I R A Y L P V L K D F P A Q Y I Y E P W K A P
UniRef90_F5RA28 I Y N P V K Q Q T D Q D P K G I F V R R W L P E L A R V P L A L L A E P W A G C
UniRef90_UPI000363CCB9 I Y N P V K Q Q L D Q D P D G V F V R R W L P E L A R V P R A L L A E P W R M C
UniRef90_A8T3C2 I Y N P T K Q A Q E H D A D G K F I R K W I P E L A M V P T P L L F E P W K M T
UniRef90_UPI00037FFDC I Y N P V K Q S Q D H D K E G V F I K E W I P E L E S C P V D S I H E P W K Y I
UniRef90_F2Y1K1 V F N P W L K Q S K R F D A Q C D Y I R K W I P E L K D V A P K D I H E Q W D T S C
UniRef90_UPI0002DE474F V Y N P I K Q A Q D H D P K G I F V R R W L P H M R R V P D T W L F E P W L M P
UniRef90_E1SU94 I Y N P V K Q S L E Q D S D G Q F I Q A F C P E L A R L P V P V R H T P W Q L T
UniRef90_Q15ZK4 R F D L A K Q A Q Y D P N G E F V R Q W
UniRef90_UPI0002E952DE H F N L E K Q A K E Y D P D G S F V A R W
UniRef90_UPI000411D1CF Y F N I E K Q A N D Y D K N K A F R N L W L K
UniRef90_UPI00037F4EC6 I Y N P V K Q S R E L D E D G L E T K K W V P E L Q P V P V Q Y I H E P W K L P
UniRef90_V2XU36 I Y S P T A F P A K W D K S G A L V R K F C P E L S K Y P D Q H I Y A P H L A P
UniRef90_UPI000395B8BF R F N L D K Q A A Q Y D P D G S F V A K W L T
UniRef90_V4HMR9 I Y N P V K Q G E E K D P E G I F V K K W V P E L D N I P A P L V H L P W Y G I
UniRef90_UPI00036D3E75 I Y S I P K Q S M D Q D P S G E W I K N L L P Q L K N V E P K L I H S A E L N
UniRef90_F5LCD3 R M N P V T Q S E T H D P T G M Y I R R W L P R L A H L S D K E I H K P Q A
UniRef90_C1MT40 V M H P V Y A A K S A D P D K G E Y V R R W C P E L S K L P R D Y A H C P W E A P
UniRef90_A9DMU9 F N V K L Q A E R Y D A N K E Y Q N L W L Q
UniRef90_K9FDX7 C Y S P I A F G K K W D P E G S L I R K Y C P E L A K F D K K H I Y E P W K A P
UniRef90_K6ZW41 R F D L A K Q T A T Y D P Q A V F R D K W L
UniRef90_A4H5L0 V R S V Y Y L A H Q H D Q T G I Y V K K W L P Q L S K V P P V Y V H R P H V G V
UniRef90_H3NWJ1 H F N L G K Q T A E H D P S G I F V A K W G G V R P L Q P D F V T D A A D W P
UniRef90_A0A059G6P6 I Y N P V K Q S V D H D R D G D F I R R W V P E L S G L S A A H I H A P W D A P
UniRef90_L8Y162 C Y C P V G F G R R T D P N G D Y I R R Y L P V L R G F P A K Y I Y D P W N A P
UniRef90_UPI000381BFED R F N P H R Q W R Q Y D P G L T H L H Q W L P E L G T V T L K Q V E A H Q R G
UniRef90_F3KZ48 H F N I D K Q T E Q Y D P K G L F I R T Q W D G Y R T P Q P E F V T D A A D W P
UniRef90_A3XGD4 F N I K S Q A E R Y D G D G K F R R L W L Q E
UniRef90_UPI00035A1C37 I F C P V R F G K R T D P Q G N Y I R
UniRef90_B8KWL8 H F N L D K Q A A Q H D P E N I F T T K W D G F R K P Q Q Q H V T D A A D W P
UniRef90_UPI000255AD81 F N I A L Q A A D R Y D P K K E Y Q N Q W L
UniRef90_N6YKD8 R F N P D K Q A Q E H D P D G V Y R R L W G C D
UniRef90_M2Y6Y9 Q V D T I E E A N K Y D P D G F Y V K K W L N Q L V L L P P P F C H E P Y L Q V
UniRef90_UPI0003FC1E87 F N I K R Q A E M Y D G D G F Y Q K L W L
UniRef90_A0A059FEL1 I R N P V R L S Q Q L D P D G A F I R R W V P E L A A L P D A H I H A P W D A P
UniRef90_G7XDA0 C Y S P V A F G K K W D P E G L F V R H Y V P E L E H Y D K K Y I Y E P W K A P
UniRef90_V4J6Y7 H F N I E K Q T Q M Y D Q D G S F Q K K W L C
UniRef90_A1SV39 H F N I E K Q T T L Y D P N G D Y Q A Q W I D
UniRef90_W9W8G6 C Y S P V A F P K K W D P E G K F V R K Y V P E L Q R F D K K Y I Y E P H K T P
UniRef90_A4S782 A G T P D G S S R A H D P E G E S I A R W L P E L A A L P K G L H R P W E A S
UniRef90_UPI000255803F R F D I A K Q T R Q Y D P D G R F I E Y W Q G D E Q T F A L D H V D A S D W P
UniRef90_UPI0003666998 V Y S P A K Q F L D H D P N A V F V H K W V D E L N R K T P V E I A H A E E K P
UniRef90_K7RHB5 Q F N L Q K Q T E I Y D P D G R F R K A W L
UniRef90_F5Z7V8 Q F N L Q K Q T E I Y D P K G E F C A K W L D
UniRef90_UPI000304CB2B R F N L A T Q A K K F D P D G S F V K K W L
UniRef90_M1FGF9 I Y N P V L Q S Q E Q D P K G T F I R Q W V P E L A E L P D T L L H K P W L G L
UniRef90_UPI00037384CC F N T Q L Q A E R Y D G N H K F R K I W L
UniRef90_UPI0002558A95 R F N P E R Q A E N Y D P H K Q Y R R L W L
UniRef90_F2G297 I Y N P A S Q S K L D P E G E F I R K W V P E L G S L P S D A V H A P Y S L L
UniRef90_H5CYY2 R F N P T T Q G E K F D R E G E F I R R W L P E L R D V P G K A V H E P W K W A
UniRef90_UPI00036AAEE0 R I F N
UniRef90_M1FG24 V Y D P V K Q G R D H D L D G H F I H K W V P E L A D V P G S E L H D L S K T A
UniRef90_M5XFB8 Y F S I P K Q A R T Y D P E G E Y V A Y W L P Q L E S L T K E E R N F P
UniRef90_L1MKD5 R V F N P T Q Q K K F D A S G T Y I A R W V P E
UniRef90_A8QB38 R F N P A R Q A D R F D Q K C A Y V R T W V P E L K
UniRef90_I1DV01 M Y N P V K Q S Q K D A D G Q F I R H W L P E L R Q V P D S W L H T P W L M P
UniRef90_A0A014P6H8 R F D P F K Q A A T Y D P D G A Y Q R L W
UniRef90_H1W0T8 I F N P V K Q A A T Y D K S G E Y R K A W V V E T R E I E K E N V F Q L W T T P
UniRef90_X2MLE7 R F N P T T Q G E R F D R D G E F I R Q W L P A L R D I P G K A I H E P W R W A

UniRef90_UPI0003B7132F R P G E D Y P L P I F D L S E S A A A A R E R L W Q W R G 250 260 270
UniRef90_H3G5Y2 L I G K D Y P F P I V D H K I A M R R C M V G M K K
UniRef90_A7S6B3 L S G E D Y P S P I V D H M E Q R M I C V Q R M Q Q L
UniRef90_R9P708 A E E R G Y P A P L F E H E
UniRef90_A0A037ZIA3 I D A N A P R P I P P L A E G R A R A L Q A Y Q A H R A
UniRef90_A0YV59 L S G Y P E P M L D W Y E M R K I N G K V V S E L R K Q V
UniRef90_UPI0004674013 E L L R D Y P R P Q V E L A A G R Q D A L D A F A R L R
UniRef90_A0LR66 I V N H K A E R A E A L T R W A A K A A V
UniRef90_I0YJU5
UniRef90_Q389M9 K E G R A Y P S P I V D L K Q R T K W I V E R Y K K
UniRef90_A8G331 K F N C D Y I K P I V D I S K T S R E A R K K I Q E I
UniRef90_N6XQL3 R V G E D I A L P V V D L E T A T R A A K T R I H A L R A
UniRef90_UPI00029A9A06 I P A Y P K P I
UniRef90_I5C8D5 P I G S S Y P A P L I D L E K A A K I A R D Q I W S A Q K
UniRef90_UPI0002D63159 E L K S C Y L S P I V D L E R S A K E A R E R L W G W R S
UniRef90_F2PEU1 P I V D L R A S R I D A L A R F D A V K A A
UniRef90_UPI000347F4F0 V I G K D Y P E R V V D H N D A Y H H A Q D A I H E L R
UniRef90_Q2S050 Q R P A G Y P A P V
UniRef90_K2JN19 I A D Q K Y P K P M F D F N E R R E I C I N G I K H A
UniRef90_W2SA61 T D K Y P A P L V D S K E T R Q R A I D T Y R A A R
UniRef90_UPI0003B78DB6 I V G E D Y P W P V D P D T A I S K A R
UniRef90_A6GPG1 V A P T Q F P E P L V M P D E W Q R W L I A
UniRef90_H0J039
UniRef90_F4RLP7
UniRef90_M4D001
UniRef90_M4DX76 I V G K D Y P K P M V M H D A A S K E C K R K M G E A
UniRef90_B0X7G5 I I G K N Y P L P M V N H A I A S R A N M E R I K Q V
UniRef90_UPI00046EB5D1 R E P I V D L K T S R Q A A L A A Y D R M K S
UniRef90_UPI000472C947 A L G E D Y P K P I V N I E Q T G K R A R D I L W S F R K
UniRef90_N1QCT8 I A D Q K Y P K P M F D F N E R R E I C L Q G M K N A
UniRef90_U7G163 V D Q L A Y P A P V I S L P D S
UniRef90_H2CFS7 F G T D R Y P P P I V N H K A A R A R A L A F Y E R V R
UniRef90_G6YWM6 P G G N T Y I S P V C D H E Q A A R V A R K A V G D F R K
UniRef90_C3Y2F8 L N G M D Y P P M V D H E I V S Q Q N L E L M R E I R
UniRef90_F5RA28 V I G R D Y P A P V V D H
UniRef90_UPI000363CCB9 V I G R D Y P P P I V D H
UniRef90_A8T3C2 A P D S C Y L A P I I D L D N S A K A A R E R L W A W R K
UniRef90_UPI00037FFFDC K P H L A Y H K P I I D H K I G A S N A R K K I W G H R S
UniRef90_F2Y1K1 K Q N V D Y P C P M V D Y A L C R E R S L K M Y K
UniRef90_UPI0002DE474F P E E D A I P L P V V D L A E A T R Q S K A A L H A R R A
UniRef90_E1SU94 P P G R D Y P S P I I D L S E T G P R A R Q L L W Q W R A
UniRef90_Q15ZK4
UniRef90_UPI0002E952DE
UniRef90_UPI000411D1CF
UniRef90_UPI00037F4EC6 P L V A E Y N A P I I N I D E H G A N I R E R L W A F R
UniRef90_V2XU36 I I G E S Y P F P M L N D E V E K K R C M A R M K A C Y K A
UniRef90_UPI000395B8BF
UniRef90_V4HMR9 E I G V D Y P L P I I N L Q E S Y T K A Q A L L W H W K
UniRef90_UPI00036D3E75 D A Y L P Q I V N L K V S A K F A R D K V W G I R K S
UniRef90_F5LCD3 A L G R E Y P K R V V D L E G A R L K S L R A V V E V R R A
UniRef90_C1MT40
UniRef90_A9DMU9
UniRef90_K9FDX7 I A D Q T Y P K P M F D F N K R R E T C L A G M K H A
UniRef90_K6ZW41
UniRef90_A4H5L0 Y L G K N Y P Y P L K L W Q G A Q R S L S A
UniRef90_H3NWJ1 I E D E
UniRef90_A0A059G6P6 V L G Q T Y P M R L V D H M A A A R E A R D R I Y A G Q G A
UniRef90_L8Y162 L I G V N Y P K P M V N H A E A S R L N I E R M K Q I
UniRef90_UPI000381BFED E R I L L D Y S A P L L P L E
UniRef90_F3KZ48 I
UniRef90_A3XGD4
UniRef90_UPI00035A1C37
UniRef90_B8KWL8 L D P Q T
UniRef90_UPI000255AD81
UniRef90_N6YKD8
UniRef90_M2Y6Y9 I L G S D Y P E P V L T V S E E I E R A R Q
UniRef90_UPI0003FC1E87
UniRef90_A0A059FEL1 I F G Q T Y P M R M V D H V A A A R E A R E R I A Q V R
UniRef90_G7XDA0 V E D R T Y P E P M F D F D E R R Q T C I A Q M K E A
UniRef90_V4J6Y7
UniRef90_A1SV39
UniRef90_W9W8G6 I A D Q K Y P K P M F D F T E R K Q F C I D Q M K K A
UniRef90_A4S782 A K Q L D Y P T R M I D L E G A R R R M L D D V N A L R
UniRef90_UPI000255803F I P P R H
UniRef90_UPI0003666998 I N G Y T P R V V N L K D R A K E M K S R V F T I R S S
UniRef90_K7RHB5
UniRef90_F5Z7V8
UniRef90_UPI000304CB2B
UniRef90_M1FGF9 H I G D H Y P A P L F E L A P A S A A A R D R L W D W R S
UniRef90_UPI00037384CC
UniRef90_UPI0002558A95
UniRef90_F2G297 A L D R D Y I A P I V D I A Q H N R A T A K R L W D Y R
UniRef90_H5CYY2 Q K A L D Y P Q P I V D H K E A R L R T L A A Y E E A R K G
UniRef90_UPI00036AAEE0
UniRef90_M1FG24 F R L S K Y P E A I V D H R T T A K K A K D R V S D L R R S
UniRef90_M5XBF8 G R A Y M K Q V V P L K Q N Q D K A L A A
UniRef90_L1MKD5 A L T P L Y P E P M V D I A E S R K T A L A A Y K D I
UniRef90_A8QB38
UniRef90_I1DV01 V L G R D Y P A P V V A L P Q A Q Q Q A R A R
UniRef90_A0A014P6H8
UniRef90_H1W0T8 Q E
UniRef90_X2MLE7 E K A L D Y P R P I V E H K Q A R I A T L S A Y E A A R K G

UniRef90_A7EIM0 1 P F T G G E S H A Q E R L E H L I T S G I T G Y K S S R N L M G T D F S T K L S 40
UniRef90_W9YVY7 P F H G G S R E G L R R I Q H L L K G A L T E Y K A T R N L L G T D F S T K L S
UniRef90_UPI00037157ED P F K G G E T A G A G H L K Q Y F S T M Q P T Y K E T R N A L G W E S T T K F S
UniRef90_U1P5X8
UniRef90_UPI0000E0FEC6 P S G G E K R A W H T Y Y S F L D Q R G K S Y A R H L S S P S R K S C T R L S
UniRef90_W2RWK3 P F S G G A T P A H A R L H E L L T G A V T R Y K D T R N L L G L D F S T K L S
UniRef90_F8WRD6 W S P G W R N A D K A L E T E F V E Q H L L D Y S K K R L K V G G D S T S K L S
UniRef90_Q9KS67 P G G S D M A W A T L E D F F A R R G R E Y Y R S L S S P A R H A C S R M S
UniRef90_B7Q664 W P G G E T E A L A R L E R H L V E R G A M S Y F G S P K M T P L L A S Q T G L S
UniRef90_B2W5Z1 P F S G G E S A G L Q R I A H L V A G A M S Y K Q T R N M L G L D F S T K L S
UniRef90_T2C0G0 P F H G G E S R G L E H C R Q Y F A S T L A S Y K Q T R N L D G M D Y S T K F S
UniRef90_U3AX02 F H G G E L S A I A H V R Y F S S G R A S Q Y K H T R N A L D G E D S T K F S
UniRef90_W2U2W2 E P G G E A A L A G L R A F L E A K L P R Y A E E R D R L D G E G S R L S
UniRef90_L8E6H2
UniRef90_UPI0002E194F7 P Y H G G E D S G S L Q L N Q Y F F T S G G L K H Y K D T R N D L D W R F S S R K L S
UniRef90_F2JZG5 P F V G G E S Y A H A Q L A D D F F S S G A A S Y K E T R N T M D W M S S T K F S
UniRef90_UPI0003482530 P F G G E A A G H A R L Q D Y L Q A G P A Y Y K Q T R N L A G A D F S T R F S
UniRef90_S4TZN6
UniRef90_F5SUK0 G G E K T A L D H L E Q Y F S S D L A N Y K T V R N L D G W E N S T K M S
UniRef90_Q2C0V8 W H G G E N A A L M H L Q Q Y F S S R L P S Y K E T R N A L I G W N N S T K F S
UniRef90_UPI0004410C21 G G A S S G I E R L K H Y C S G P L F T Y K K T R N A L G R D G S S H F S
UniRef90_U0F3N0 F A G G E T L G L A H C S G Y F A T S L A H Y K Q T R N E L D G D F S T K F S
UniRef90_UPI0004720AA9 G G E E N A Q K H L R Y F N S D A A S G Y K Q T R N A L H G N H F S T L S
UniRef90_U1KU87 F R G G E S N G V K H L D A Y F D S D A S P S Y K K T R N A L D E W A H S S K L S
UniRef90_X0QRV8 F K G G E T A G Y L H L H Q Y F A S S A P S Y K E T R N A L D D Q E H S T K F S
UniRef90_W9V7Z9 Q G G E T A G L R L L A A H V T D E I A T F E K P A T A P N D R P A T T L L S
UniRef90_W9YTB6 F P G G E Q E A L R R L L E H V M E R W V C A T S P N I P S T T V L S
UniRef90_F2VHS2 K G G M V E A Q T T L E D F F S T R G Q D Y Y K F I S K P S R S S C S R M S
UniRef90_B6BTC6 L S T L H S F L D T R G A Q Y R R D L F S S P A E R G C S R L S
UniRef90_D5VYV5 S T E R F R A D V R T A R I S
UniRef90_C1FGJ5
UniRef90_UPI0003605A4A F Q G G E M E G H Q W M K E W I W E R L K K Y K E T R N M V G S D Y S S K L S
UniRef90_Z5XYT4 G G L F A A Q Q H L H Y F S S P A P A S Y K E T R N E L D D G S N T K F S
UniRef90_UPI0004723805 F K G G E G A L Q V H L N N Y F K D A P S R Y K T T R N A L D W T D S K F S
UniRef90_F9G158 P F K G G E N P A W D R L Y H L I K S G M T Y Q E T R N L L G T D Y S T K L S
UniRef90_E4X8U0 K A G T T K M S
UniRef90_F3BLZ6 H G G F K S A Q T H L E Q Y F S S G L L P S Y K I T R N E L D G N N T T K F S
UniRef90_F3LFM4 F Y G G E A S G I S H L K Q Y F T N A P S H Y K D T R N A L G C E K S S K F S
UniRef90_D7WD47 C H P G G E M Q A Q R K F R D F L E Q T J A D S Y K D N N D P S A D A T S G L S
UniRef90_Q2SQU0 L K S F L Q T R G I N Y F R D T H Y P A T E G S R L S
UniRef90_M1RJZ7 P F I G G Y S Q A K R Y L E E F L E K K L H K Y K D Y R S H P E L D Y Q S N L S
UniRef90_U5A918 F I G G E Q A T G L A H L H D Y F S H P A H Y K Q T R N F D G K E N S T K F S
UniRef90_UPI000440C953 P F T G G A T G H S R I K H L I T S A M T N Y K Q T R N L L G E D Y S T K L S
UniRef90_I1CT06 P W P G G E D A A R K R L E N Y L T D G A I N Y K Q T R N M I G T E Y S T K F S
UniRef90_F7SMD6 R G G R N E G R A L W R S F V Q A R G R R Y R G S L S K P A W E F G S R I S
UniRef90_H7GEU2 E P G G E A A L A G L R A F L E A K L P R Y A E E R D R L D G E G S R L S
UniRef90_UPI0002EF350E F K G G E T S G L I H L D H Y F S R N Y A C Y K Q T R N A L D G E N S T K F S
UniRef90_UPI0002D523A0 G G E D A G L A H L E N Y F S H D Y A N Y K H T R N F D G I E N S T K F S
UniRef90_X7YFZ3 A G E A A A L R E W G A F V D D G L E R Y A Q D R D R P D L D G T S R M S
UniRef90_M2MSP5 P F V G G S Q P G R E R I H H L I E S G M T A Y K D T R N L L G L D F S T K L S
UniRef90_E3CZU8 P L P P G S A A G Q A R L E A F L R E G L P R Y A R D R N D P L R E G Q S G L S
UniRef90_A6GLE5 K G G R T Q A R A V A K F F T A K L K S Y P F S I S S P A W N G C S R L S
UniRef90_Q8TIS6 F E P G E K A A R K E M E S F L A A R L D S Y N T L R N D P T K N A L S N L S
UniRef90_M3TW98 F H P S R S K A L R E Q L Q S F V E N H L G L Y A R D R N F D F G P N T S C L S
UniRef90_B8A2K1 P H G G E T E A L R R M K E S L L Q N K V A K F E K P K G D P S A P S T T V L S
UniRef90_U5YD42 W A P G W S N A D R A L E A F L A G P L L E Y S R N R H K I D G P T T S V L S
UniRef90_UPI00036A0B76 P C T P G Y T A G M R M L R E F L P E E R L P H Y A E K R N D P A V L A T S R L S
UniRef90_F0XJ25 P W E G G E T A N K R L R D F L P E N V A G Y A E K K D L L G R Q F S S R L S
UniRef90_B1LX32 F T G G E T Q A R K R L K A F L K D G F S G Y G A G R N M P E A A A S H M S
UniRef90_Q2NNQ4 W Q G G E T E A L A R L D K H L E R K V A N Y E R P R M N A N L A S P T G L S
UniRef90_S9VVC6 H P P G G E D E A I R R V H K W L S E G M L R Y G R E R R T N T K L Y S S R I S
UniRef90_V4NPL2 F P A S R D A G I R R L A D F V A K A G E P Y A R D R N D A G P A V I S R L S
UniRef90_F4C6S9 P F K G G E T E G L R R L E T L L A G A D T A S L T G S F G S E E G T V L S
UniRef90_A0A037UQX5 Q N Y Q Q T R D L V D E N G T A K L S
UniRef90_B1ZAB1 F R G G H T E A A E R L D S F L K D A F A G Y G A G R N K P E A G A A S H M S
UniRef90_Q2N8F4 P F T P T R S A G F D R L Q A F L E A D A G R Q Y A E T R N Y P G R G N V S Q L S
UniRef90_E1ZJV5 P F G M G E E A Q V Q R L R Y L E A P I A T Y R E T R M Q P G V D N S A K L S
UniRef90_I6ZRF9 P G E E A A F E L D S F L E S K L E F Y S D K K N D P N E N A L S N L S
UniRef90_UPI0004782818 G G E V A A L T R L R A F M G Q L A G Y A D T R N D P T Q D G S S R L S
UniRef90_Q1AY95 Y R G G T R A A K R L R R F L E E G L P G Y A S G R D Q P H A G V V H M S
UniRef90_F1KXR8 F V G G E T V A Q R M L S F F I S N K L V S Y H P G R N I P G S K Y Q S L L S
UniRef90_Q3AS84 A G E A G A H A T L Q C F Y G Q K L N G Y A T Q R N D P S L E A T S R L S
UniRef90_Q8KF21 L E P G E T A A E A R L S F V T Q R L S R Y A D E R N D P N S G A V S G L S
UniRef90_UPI000366B261 F T G G E T E A R R R L K A Y L A G P F R S Y G S D R N R P E A G A A S H M S
UniRef90_E9HAM9 I T P G T K S G L Q E L F N F C Q R R L K M Y A E K R N D P N L A A L S N L S
UniRef90_UPI00047B0E72 P P P T R E A G L A R L A A F I P Q A G R A Y A A G R N T D P G P G V S G L S
UniRef90_C1E6D6 G G E R E A L R K L D R F L E S K L T N Y A S S R N D P S L R L Q S H L S
UniRef90_UPI000237A092 F K P T R T T G L E R L K Q F V G R T G R Y T S T R N Y D F R C N V I S A L S
UniRef90_UPI00044105B8
UniRef90_F2NHT2 C Q P G E S A G R A R L T S F I Q L G L P R Y H L S R N D P I R E G Q S D L S
UniRef90_F7ZGS6 F L P T H T A A L E R L E S A F V P Q A G R D Y A T R R N Y D F G P G V I S G L S
UniRef90_H9K9F9 K P G Y E A N G I K E L E N F L Q N R L K K Y G D E R N N P L S N A I S N L S
UniRef90_W6TPB7 K G G E L D G L E H L T E L L K P G S D I Y I K S S S K V A A D F S S K I S
UniRef90_UPI0003600F80 P F K S G S K A A L R A V L D H F V N K K I H Q Y L H R N D P T K N A L S N L S
UniRef90_I3ZK25 L D G G E H A A L R L K H F V T H L L P S Y A Q Q R N H P E V D G T S L L S
UniRef90_T0MR63 I E G G E D L A L E M M Q A V L D D P R G S E H D Y T L L S
UniRef90_W8BWG3 L E P G Y T M A C A Q L Q S F C V I E R L A I Y S A K R N D P T V D N A L S G L S
UniRef90_B0WAC3 P P Y T G G V A T L Q S F V E K R L R K F N A K R N D P T V D N A L S N L S
UniRef90_C1AAD6 P M P G G S A A N A R W T R F L E H G L P Q Y D E R R N A S D G E G T S R L S
UniRef90_A1BHU7 P G G E T A A A E S L E N F I K S R L S G Y A T A R N D P N S N A L S Q L S
UniRef90_UPI0004740CA9 Q G G K R G L E R M Q Y F F S K K L D S Y S K D I S S P S F D S C S R L S
UniRef90_I3RGW0

UniRef90_A7EIM0 A Y L L A L G S I T S R Q I H A S M S V F E E N G S T S D D R Y K D T Y A V R F F E L
UniRef90_W9YVY7 A W L A L G C I T S A R Q I H A Q L V D F E E N G S R D M S G K G E N T G A A A V R F F E L
UniRef90_UPI00037157ED P W L A H G C A L S S R Q I A Q A L R H R F E D E S M T M A N S E R T Y W V Q R F F E L
UniRef90_U1P5X8 P Y L S A G A I L G V R E L W A D A S D T Y D A V N G S E R R N V D K Y R Y E L
UniRef90_UPI0000E0FEC6 P Y I A W G N I T L K Q T Y Q K L D T L N E A D Y Q G W K R A L S A M V S R L
UniRef90_W2RWK3 A W L S L G C I T A R Q V F H W A L V A F E D E G Y G K G N K G T A A V R F F E L
UniRef90_F8WRD6 P Y L H F G E L S V R K V F Q V L R M K Q L L W T N E G N S D G E N L F L R A I
UniRef90_Q9KS67 P Y L A W G N I S L R E M Y Q T L K H W S V A G F R R S L I A L S S R L
UniRef90_B7Q664 P Y L R F G C L S A R L F Y H Q L A D L Y R K L K K S N P P L S L Q G Q L
UniRef90_T2W5Z1 A Y L A Q G H I T A R Q V H W A M L D F E E G R G P G E K K H A Y G Q V R F F E L
UniRef90_B2C0G0 P W L A N G C V S P K T I Y A M L K R Y E A N G A N D S T Y W I Y F F E L
UniRef90_U3AX02 P W L A N G C I S A R T I Y A M L K E Y E A N H G A R N E S T Y W I Y F F E L
UniRef90_W2U2W2 P Y F A L G V L S P R L A A W E A E W R G E G A K W V A E L
UniRef90_L8E6H2
UniRef90_UPI0002E194F7 A W L A N G S I S A R M V A A E L D N Y E Y R H G S N D S T Y W I F A E L
UniRef90_F2JZG5 P W L A Q G A I S A R Q V M S L L A F Y E S R M G S N D S T Y W I Y F F E L
UniRef90_UPI0003482530 A W L S R G C L S P R Q V H Q A V K D W E A S H G Q C E S S Y W I T F E L
UniRef90_S4TZN6
UniRef90_F5SUK0 A W L A C G A L S P R K L V A R L K R Y E T E K T A N E S T Y W I Y Y E L
UniRef90_Q2C0V8 P W L A C G A I S A K M I M A R L Q D Y E K Y K E K N S S T Y W I F F E L
UniRef90_UPI0004410C21 P F L S V G A L S A R Q I F W A V R D A E D T R D G G G N E D S Y W L I F E L
UniRef90_U0F3N0 P W L A V G C L S P R K R I F L L Q E Y E Q R E R A N D S T Y W I F F E L
UniRef90_UPI0004720AA9 P H M A V G A V S I R K L Y H T A R P L S G H D G W V R Q L
UniRef90_U1KU87 P Y L A H G A L S P Q Q V L R A L R N E Y E N Q H G S N E S T Y W I Y F F E L
UniRef90_X0QRV8 A W L A N G S L S V N T V L R L R R Y E R D I I A N D S T Y W I W F F E L
UniRef90_W9V7Z9 P W L A Q G C I S V K R I Y E T L R T Y E K V K G A N D S T Y W I F F E L
UniRef90_W9YTB6 P H M H F G S V S V R F W W A V Q D V L E R R R L A K Q P P H P V N L P G Q L
UniRef90_F2VHS2 P Y I R F G C L S A R T F W W L A D V Y R G K Q H S E P P V S L P G Q L
UniRef90_B6BTC6 A Y I A Y G N I S I R Q I Y Q K L L E N W N R V G W R R S M A A L S S R I
UniRef90_D5VYV5 A H L A F G T L S M R Q V H Q A A L Q A S G E P S A R N M A Y H L R G F A G R R L
UniRef90_C1FGJ5 P Y V R H F G E L S V R E V Y H S A K A I Q V G S R K S R A R S A A V F L R R L
UniRef90_UPI0003605A4A P W L S A G C L S A V Q A Y W E I K K Y E E E R V A N E S T Y W L F F E L
UniRef90_Z5XYT4 L W L A G G A I S A K Q V Y A E V E H Y E H I N G A N E S T Y W I K F E L
UniRef90_UPI0004723805 A W L A N G S L S V K V L N R L R Q Y E Q E V I A N D S T Y W I W F F E L
UniRef90_F9G158 A Y L A L G S I S A R S I H E E L V K F E N G Q E G Q G E N E G T K A V R F F E L
UniRef90_E4X8U0 A H L K F G T V S A R E M Y W R T A E L F G E R H D L I R Q L
UniRef90_F3BLZ6 T W L A F G C L S A R Q V Y K A V E A Y E H N Q I T N E S T Y W I K F E L
UniRef90_F3LFM4 P W L A N G S L S A R Y I V Q M L S R Y E E E N G A N D S T Y W I M F E L
UniRef90_D7WD47 A H L R F G E I S P A Q I W A E T A A F A D A N H T V A A D A W A F L R S R L
UniRef90_Q2SQU0 P Y L S H G V I S L R E A V Q R A L Q I Y H T H R S A D W V K S M T E F L S R L
UniRef90_M1RJZ7 P Y L H F G Q I S P L E V V F E T L S K Y K R D E N V D S F F N E L I V W R E L
UniRef90_U5A918 P W L T L G C V S P K T I Y R N L V Q F E A K H G S N D S T Y W I F F E L
UniRef90_UPI000440C953 A W L A L G C I T A R Q V H E Y L V K L E E K G W G K I N E G T G W V R F F E L
UniRef90_I1CT06 A Y L S H G C L S P R L I W H E L N R L Q S Q K K I D G D E D G I Y W I R F F E L
UniRef90_F7SMD6 P H L A W G T L S M R E V I Q S L R R Q R Q K H A D D A W A R S L R A F T S R L
UniRef90_H7GEU2 P Y F A L G V L S P R L A A W E A E R R R G G E G A R K W V A E L
UniRef90_UPI0002EF350E P W L A S G C V S P K T I C R H L T R F E S H N G S N D S T Y W I Y F F E L
UniRef90_UPI0002D523A0 P W L A L G C V S P K T L Y R L K Q F E A D H G S N D S T Y W I Y F F E L
UniRef90_X7YFZ3 A H L R F G T I H P R T M V A A L D F S G A G A R S Y L R E L
UniRef90_M2MSP5 A W L A L G C I T A R Q V H W R L V E F E D P G Y G K G E N K G T A A V R F F E L
UniRef90_E3CZU8 P Y L H F G Q I S P Q R E A W E V L R A D A P P E D R E A F L E E L V V R G E L
UniRef90_A6GLE5 P Y L A Y G V V S D R E A V L Q K L N A L V N T V H G O G D S D A A R F Y V D R L
UniRef90_Q8TIS6 P Y L H F G Q I S A Q R V V L E V E K A K S D P E S K K A F L D E L V W K E I
UniRef90_M3TW98 P Y V T H G I L S E N E I L K Q S L K Q Y S F S K I E K F I Q E V
UniRef90_B8A2K1 P Y L K F G C L S S R Y F Y H C I Q R D V H R S V R N H T K P P V S L T G Q L
UniRef90_U5YD42 P H M H F G E V S V R K V Y H S I R R L Q I L W A K D G S K E S I N I F M R S I
UniRef90_UPI00036A0B76 P Y L H F G Q I S A Q K V A R E V L R R E K Y S V D A F L E Q L I V R R E L
UniRef90_F0XJ25 G Y L S Q G C L T A R K L V A R E L V Q Y E D G S N D A M E N E G S H A L R K E L
UniRef90_B1LX32 P Y L H F G Q I S P V E I A L A V R E A K V G D S D D R G A Y E E L I V R R E L
UniRef90_Q2NNQ4 P Y L R F G C L S C R L F Y E M I R W E L Y K K V R N S T P P L S L Y G Q L
UniRef90_S9VVC6 P Y L S L G V L S P R K F Y E M I R Q A H D N L R D G F V H M Q Y R E A L R L
UniRef90_V4NPL2 A Y V R Y R L I S E D E I V A A V L A Q H S L R E A D K F V Q E I
UniRef90_F4C6S9 P W I A M G C L S V I T V Y H A V K K Y E D K S L P K K Q A A I T G L
UniRef90_A0A037UQX5 T A L K F G V V S H R Q C Y L W S I E K F G T F D N A F A R Q L
UniRef90_B1ZAB1 P Y L H F G H I S P V E T A L A I R A A E G A D R D D R S A Y E E L I V R R E L
UniRef90_Q2N8F4 P W L H T G L L R E H E V L E A T L R E H G A R A A E K F G N E L
UniRef90_E1ZJV5 A F L S L G C L S P R T A H E A V A R L A A A W R E P Q A G D T W R W L L M H I
UniRef90_I6ZRF9 I H L H F G H I S A Q R I A L E I I L R R T E H S K S R E S F L E E L I V R K E L
UniRef90_UPI0004782818 A F L H Y G Q I S P L T A A L A A R E Q G G P G A D T F L E E L I V R R E L
UniRef90_Q1AY95 K Y L H F G H I S P L Y V A L R A R G S G A P E E D V G A F L E E L V V R R E L
UniRef90_F1KXR8 P Y L H F G M I S A L E I I K R V K D A K A P K H A I D S F L E E L V R R D L
UniRef90_Q3AS84 P Y L H F G Q I S T Q F V A L Q V K A A H A P Q E D K D A F L E E L V R R E L
UniRef90_Q8KF21 P Y L H F G Q L S A Q H A T F E A A R S K A S E V N R E A F V E E L I R R E L
UniRef90_UPI000366B261 P Y L H F G Q I S P V E I A L A V R A S K A G A S E D K A S Y E E L V V R R E L
UniRef90_E9HAM9 P W L H F G Q I S A Q R C I L E V K G Y K T K H K S V D A Y M E E T I R E V
UniRef90_UPI00047B0E72 P Y L R H R L V G E T E V I S A V I A R H G A G G A E K F I Q E V
UniRef90_C1E6D6 P H I H Y G Q I S V V Y V A H A R A R P E L R R S V D V F L D E L V V R R E L
UniRef90_UPI000237A092 P W L R H R L I T E K E V L A T V L A A H G F N V A E K F V Q E V
UniRef90_UPI00044105B8
UniRef90_F2NHT2 P Y L H F G Q I A A Q R V A W E V Q R A V A P T E A R Q A F L E E L I V R R E L
UniRef90_F7ZGS6 P Y L R C R L I T E S E V V N A V L Q R H S I A A A E K F M Q E V
UniRef90_H9K9F9 P W F H F G M I S V Q R G C L E I K E Y K K Y K K S V E S F M E E A I I R K E L
UniRef90_W6TPB7 G W L S F G C L S P R K V Y W M V K E A E A S F G A N P N F N Q I L L I G L
UniRef90_UPI0003600F80 P Y L H F G M L S A Q H A V L K I L E Y Q I P A E A K E V F L E E L V V R R E L
UniRef90_I3ZK25 P Y L H F G H I S P L R I Y L E I E K A A K L R E S A D S F L D E M V T W R E L
UniRef90_T0MR63 P F I A L G S L S P I N L Y H E I K K R E N G K K N K R F D K I I D M L
UniRef90_W8BWG3 P W L H F G Q I S A Q R C I L E V M R Y Q S Q Y K D S V E A F C D E A I V H R L
UniRef90_B0WAC3 P W F H F G Q I S V Q R A I L A V K K Y K G F S E G V A S F C E E A I V R E L
UniRef90_C1AAD6 P Y L H F G Q I S A R V V R E A Q Q A G V G A N L D A F V Q Q I T T W R E L
UniRef90_A1BHU7 P Y L H F G Q I S A Q H V A L R V A E S R A P Q K D K T A F L E E L I R R E L
UniRef90_UPI0004740CA9 P Y I C W G C I S L K E I F N K A N I S K N N S R M L K S R L
UniRef90_I3RGW0

UniRef90_A7EIM0 LWRDYMRLCTRKRKFGPQLFRFR100LGGFKAEAGNAHSKWQEIVVERF
UniRef90_W9YVY7 LWRDYMRLCTRKRKFGPQLFRFR100LGGFKAEAGNAHSKWQEIVVERF
UniRef90_UPI00037157ED LWREYFQWYALKHLGVDRLFRS100LGGFKAEAGNAHSKWQEIVVERF
UniRef90_U1P5X8 SWREHMYHLLYYLPVLDLDRSTNYKSLIPNEIWRERAKADDFEAW
UniRef90_UPI0000E0FEC6 HWHCHFIQKFESECEAMEMRPVNHAAYQAYPYEIDQDQVIKAW
UniRef90_W2RWK3 LWRDYMRLCTRKRKFGPQLFRFR100LGGFKAEAGNAHSKWQEIVVERF
UniRef90_F8WRD6 GLRREYSRYLCLFNFPFTHEKALLGLKFLKFDSEFYNWNPADPDEFKNW
UniRef90_Q9KS67 HWHCHFIQKFESECEAMEMRPVNHAAYQAYPYEIDQDQVIKAW
UniRef90_B7Q664 LWREYFQWYALKHLGVDRLFRS100LGGFKAEAGNAHSKWQEIVVERF
UniRef90_B2W5Z1 LWRDYMRLCAARTRNPNFDRMKHNNPLCQVQIDPVDQJNAEALAKW
UniRef90_T2C0G0 LWREYFQWYALKHLGVDRLFRS100LGGFKAEAGNAHSKWQEIVVERF
UniRef90_U3AX02 LWREYFQWYALKHLGVDRLFRS100LGGFKAEAGNAHSKWQEIVVERF
UniRef90_W2U2W2 LWRDFSYHLLYHFVWMTERTPLDQENYRFLEWENNREFFKAW
UniRef90_L8E6H2 MLYVVSFPNQKNEPLDQENYRFLEWENNREFFKAW
UniRef90_UPI0002E194F7 LWRDYYQWMMHVIQGARMFADFGLKQKTRPLTRFHSERKFKAW
UniRef90_F2JZG5 LWREYFQWYSVKYGARLFRS100LGGFKAEAGNAHSKWQEIVVERF
UniRef90_UPI0003482530 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_S4TZN6 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_F5SUK0 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_Q2C0V8 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_UPI0004410C21 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_U0F3N0 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_UPI0004720AA9 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_U1KU87 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_X0QRV8 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_W9V7Z9 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_W9YT6 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_F2VHS2 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_B6BTC6 HWHCHFIQKFESECEAMEMRPVNHAAYQAYPYEIDQDQVIKAW
UniRef90_D5VYV5 RWHCHFIQKFESECEAMEMRPVNHAAYQAYPYEIDQDQVIKAW
UniRef90_C1FGJ5 AWRDLAYWSLWRFLCDEPLRPAQYATQWVALPWPVAV
UniRef90_UPI0003605A4A LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_Z5XYT4 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_UPI0004723805 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_F9G158 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_E4X8U0 VFRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_F3BLZ6 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_F3LFM4 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_D7WD47 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_Q2SQU0 YLRSHYMQQMEDEPGMESLNLHKSFNGLRHWDFDEAKFEAW
UniRef90_M1RJZ7 ARNFYYNPNYHYEGIPDWAQKTLLEEHNKNDKRDYVYEEF
UniRef90_U5A918 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_UPI000440C953 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_I1CT06 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_F7SMD6 YWHCHFIQKFESECEAMEMRPVNHAAYQAYPYEIDQDQVIKAW
UniRef90_U7GEU2 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_UPI0002EF350E LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_UPI0002D523A0 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_X7YFZ3 AFRDFYAVLYLHPGYRHDKSAKFKMISSPWTTSTERKERF
UniRef90_M2MSP5 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_E3CZU8 AENFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_A6GL5 IWRQGYLQQLNEHTGLTDAF YGDEPAEAVNKEFLNAW
UniRef90_Q8TIS6 ADNFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_M3TW98 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_B8A2K1 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_U5YD42 GFREYSRYLSFNFPFTHERSLNLKSFWRVDESFFKAW
UniRef90_UPI00036A0B76 AENFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_F0XJ25 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_B1LX32 AMNHVYFTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_Q2NNQ4 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_S9VVC6 SRREYHAWGALRYGDRLLFFSYGPHDNLPNWRHDAKVVRW
UniRef90_V4NPL2 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_F4C6S9 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_A0A037UQX5 AWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_B1ZAB1 AMNHVYFTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_Q2N8F4 FWRVYFKGYLQQLNEHTGLTDAF YGDEPAEAVNKEFLNAW
UniRef90_E1ZJV5 AWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_I6ZRF9 SDNFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_UPI0004782818 SFNLCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_Q1AY95 AVNFVRYTPNYDYSYCLPEWARKTLAEHADDERPHEAQL
UniRef90_F1KXR8 SHNFVRYTPNYDYSYCLPEWARKTLAEHADDERPHEAQL
UniRef90_Q3AS84 SDNFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_Q8KF21 SENYCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_UPI000366B261 AMNHVYFTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_E9HAM9 SDNFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_UPI00047B0E72 FWRVYFKGYLQQLNEHTGLTDAF YGDEPAEAVNKEFLNAW
UniRef90_C1E6D6 ANFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_UPI000237A092 FWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_UPI00044105B8 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_F2NHT2 ADNFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_F7ZGS6 FWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_H9K9F9 SDNFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_W6TPB7 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_UPI0003600F80 ADNFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_I3ZK25 CTAWVKWDPNYDYSYCLPEWARKTLAEHADDERPHEAQL
UniRef90_T0MR63 LWRDYYFHHAELDGA GLFRRAALPLPLND AFNAW
UniRef90_W8BWG3 ADNFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_B0WAC3 SDNFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_C1AAD6 SYNWCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_A1BHU7 SDNFCYHTEGYDDYDRAVPEWARKTLAEHADDERPHEAQL
UniRef90_UPI0004740CA9 TWHCHFIQKFESECEAMEMRPVNHAAYQAYPYEIDQDQVIKAW
UniRef90_I3RGW0 RYLSFNHPSHERPLLAHLRFHPVWVINE SYFKI

UniRef90_A7EIM0 L N G T T G M G F I D A S Q R E E L Y H T G Y T S N R A R R Q N V A S F L S K H L Y
UniRef90_W9YVY7 L R G T T G T G L I V D A S Q R E E L F L T G Y T S N R A R R Q N V A S F L S K H L Y
UniRef90_UPI00037157ED C A G N T G P W L I V D A A G M R Q L E L Q A E R E G Y I L H N N R P R Q Q L V A S C F L A K H L G
UniRef90_U1P5X8 T A G E T G Y P F V D A D A C M R Q L V A T T G Y I L N F R R A R R Q N V A S F L S K H L G
UniRef90_UPI0000E0FEC6 K T G E T T G I P L I V D A D A M R A L V A T T G Y I L N F R R A R R Q N V A S F L S K H L G
UniRef90_W2RWK3 M R Q G T G L S L I V D A S Q R E E L W C A T T G Y T S N R A R R Q N V A S F L A K H L G
UniRef90_F8WRD6 R R Q G R T G F P L V D A D A G M R E L W A T G W I H N R R I R V I V A S S F A V A K M L L
UniRef90_Q9KS67 Q T G H T G I P L V D A A C M R C L L T Q T G Y L N F R R A R R Q N V A S F L T H H M N
UniRef90_B7Q664 A N G Q R T G Y P W I D A S M R Q L R E E G Y L H H V A R R Q N V A S C F L T S R G D W
UniRef90_B2W5Z1 R S Q G T G V P L I V D A S N R E L F V T G Y T S N R A R R Q N V A S F L S H L N
UniRef90_T2C0G0 K K G E T P F P I V N A C M H Q L N E T T G Y M S N R R G R Q L V A S C F L V H H L G
UniRef90_U3AX02 K K G E T P F P I V N A C M H Q L N E T T G Y L S N R R G R Q L V A S C F L V H H L G
UniRef90_W2U2W2 Y E G R T G V P L I V D A A M R Q L H A T G F L S N R A R M N A A Q F A V K Y L L
UniRef90_L8E6H2 Q E G K T G F P L V D A A M R Q L K E T G W M S H N R R L R M S F L T K E D L L
UniRef90_UPI0002E194F7 E A G G T T E F P L I V N A C M Q L N Q T T G Y M S H N R R R H I A A S C L I A A S
UniRef90_F2JZG5 C Q N G R T P F P I V N A C M K Q L N N T T G Y L S N R A R R Q N V A S S Y L V K D L K
UniRef90_UPI0003482530 R A G R T G I P F I D A A M I E L S S T G F L S N R A R R Q N V A S S Y L V K D L K
UniRef90_S4TZN6 C D G K T G F P I V D D A G M R Q L N H S G Y M S H N R R C R M I V A S F L S K D L L
UniRef90_F5SUK0 C C N G N T P Y P I V N A C M K Q L N Q T G Y M S N R R G R Q L V A S C C F V N E L S
UniRef90_Q2C0V8 C E G S T P Y P I V N A F M K Q L N Q T G Y M S N R R G R Q L V A S C C F V N E L S
UniRef90_UPI0004410C21 K E G K T G I P F I D A N M R Q L A A T G Y M S N R R G R Q N V A N F L A G Q M C
UniRef90_U0F3N0 K Y G E T Q Y P I V N A C M K Q L K A T G Y M S N R R G R Q L V A S C L I H H E L G
UniRef90_UPI0004720AA9 C R A E T G I P I I D A G M T E L N T T G C M P N R R I R I L C A T F L V K N E L G Q
UniRef90_U1KU87 C N G N T P E P L I V N A C M Q L N K T G W I S N R R G R Q L I A S Y L V N E L G
UniRef90_X0QRV8 K N G T T P Y P I V N A C M N Q L N A T G Y M S N R R G R Q L V A S C C F I H H E L G
UniRef90_W9V7Z9 C E G T T A F P L V N A C M K Q L R A T G Y M S N R R G R Q L I A S Y C C L I N E L E
UniRef90_W9YTB6 K E Y C T G F P W I D A L M T Q L R Q E G W I H H L G R H A V A C F L T R G D Y
UniRef90_F2VHS2 R E A R T G F P F I D A L M R Q L C Q E G W I H H L L A R H A V A C F L T R G D Y
UniRef90_B6BTC6 L N G M T G F P L I D A S M R A L R Y S G Y I N F R S R A M V V S F A C H Y L R
UniRef90_D5WYVW5 C S G N T G F P M V D A D A G M R C L N A T G W I N F R M R A M L V S F A A Y H L W
UniRef90_C1FGJ5 C Q F G Q T G Y P L V D A D A G M R E L W A T G Y V P N Y V R H V V A G F F L I E Y L N
UniRef90_UPI0003605A4A K E G R T A N D F V N A N M I E L T K S G W M S N R R G R Q N V A S Y L I H D L G
UniRef90_Z5XYT4 C Q G T T P F P I V N A C M H E L N E S T G Y L S N R S R Q L A A S C L V H E L A
UniRef90_UPI0004723805 Q N G E T R Y P I I V N A C M K Q L N S T G Y M S N R R G R Q L V A S A F I H H E L G
UniRef90_F9G158 L R G T T G M G L I D A S Q R E L Y H T G Y T S N R A R R Q N V A S F F A K H L G
UniRef90_E4X8U0 C C E G M T G F P L V D A A M R Q L K E T G W Q H N R M R M L T G C V L T K Y F M
UniRef90_F3BLZ6 C N G S T P Y P L V N A C M N E L N A T G Y I S N R S R Q I A A S C L V N E L G
UniRef90_F3LFM4 C N G S T P W P L V N A C M K Q L N Q T G F L S N R R G R Q I V A S V L I H H E L G
UniRef90_D7WD47 K K G E T G I P M V D A D A G M R E L W A T G T M H N Y V R M V V G S W L T K N L W
UniRef90_Q2SQU0 K N G E T G F P L I D A D A M K A L I N Y G W I N Y L R G L L M S F A A N Q L W
UniRef90_M1RJZ7 E N A K T H D E Y W N A A Q L E L L K T G K M H N Y M R M Y W C K K I I E W T Q
UniRef90_U5A918 K C G N T G Y P I V D A S Q R Q L A L T T G Y V S N R R G R Q L A A S C L I Y E L G
UniRef90_UPI000440C953 L E G T T G M G L V D A S Q R E L A L T T G Y V S N R A R R Q N V A S F L T Y H L Y
UniRef90_I1CT06 K V I G Q T G M P Y I D A S M R E L I N T G F L N N R R G R Q N V A S Y I L A K D L E
UniRef90_F7SMD6 K R G N T G V P L V D A A M R S L I A T G W L N F R R M R A M L L S H A T F G L G
UniRef90_H7GEU2 Y E G R T G V P L V D A A M R E L H A T G F L S N R A R M N A A Q F A V K X L L
UniRef90_UPI0002EF350E K S G N T N Y P I V D A C M R Q L N A T G Y M S N R R G R Q L A A S C L I Y E L G
UniRef90_UPI0002D523A0 K S G N T N Y P I V D A C M R Q L N T T G Y M S N R R G R Q L A A S C L I Y E L G
UniRef90_X7YFZ3 K A G E T G F P L I D A D A G M R Q L R Q T T G F M H N R V R M I A A S F L V D L H
UniRef90_M2MSP5 L R G Q T G T G L I D A S Q R E L F L T G W T S N R A R R Q N V A S Y L A K H L N
UniRef90_E3CZU8 E E G R T H D P L W N A A Q Q H L V L T G R M P G Y L R M Y W G S K L L E W T P
UniRef90_A6GLE5 Q H G R T G F A Y I D A A C Q H F L Q Q T G W L N R A R A T L V S F A C V Q L G
UniRef90_Q8TIS6 E A G K T H D P L W N A S Q I E L L R T G K M H S Y M R M Y W A K I L E W S E
UniRef90_M3TW98 V N G N T D I D C F N D V N E L K E T G Y L H N H T R M W F S S I W I F T L D
UniRef90_B8A2K1 R D G N T G Y P W I D A L M I Q L R N W G W M H H L A R H S V A C F L T R G D M
UniRef90_U5YD42 R Q G R T G Y P L V D A G M R E L W A T G W L H N R V R V I V S S F C V K F L Q
UniRef90_UPI00036A0B76 E S A K T H D P L W N A A Q R E L L S A G R I L N Y V R M Y W A K I L E W S E
UniRef90_F0XJ25 Q L G T T G L S L I D A S Q R E L L M Y T G F T S N R A R M V V S N F F A K R M Q
UniRef90_B1LX32 A A G E T H D R Y W N A A M R E M R E T G Y M H N Q L R M Y W G K K I L E W S P
UniRef90_Q2NNQ4 A E G K T G F P W I D A I M T Q L R Q E G W I H L A R H A V A C F L T R G D L
UniRef90_S9VVC6 C N A L T G I P L A D A A M R E L T R G T G F V A D V G R Q A L V W L V R G Y S
UniRef90_V4NPL2 E Q G R T G I A G F D D W A L E L Q E T G Y L H N H A R M W F A S I W I F T L G
UniRef90_F4C6S9 K R G E T G D P F V D A A M H Q L N T G F I S H T A R M L V A H Y L V S N L N
UniRef90_A0A037UQX5 Q N G E T G Y P F I D A D A G M K E L K E T G L H N R A R M V C A S F L V K N L Q
UniRef90_B1ZAB1 A E G K T H D H Y W N V A M R E M R E T G Y M H N Q L R M Y W G K K I L E W S P
UniRef90_Q2N8F4 T E G R T G I G A F D Y W A Q E L T E T G Y L H N H A R M W F A S I W I F T L C
UniRef90_E1ZJV5 A Q G Q T G L P F V D A C M R E L L G A T G F M S N R R G R Q N V A S F L K
UniRef90_I6ZRF9 E E G K T H D S L W N A A Q F E M K T K G K M H G Y L R M Y W A K K I L E W T N
UniRef90_UPI0004782818 Q Q A E T H D P Y W N A A Q N E M V R T G R M H N Y M R M Y W G K K I L E W T A
UniRef90_Q1AY95 Q E A A T H D P Y W N A A Q V E M R H T G Y L H N H M R M Y W G K R I L G W T R
UniRef90_F1KXR8 E D A R T H D P Y W N A A Q L E M V H T N K M H G Y M R M Y W G K K W T P D Y E
UniRef90_Q3AS84 E Q A K T H D P L W N A A Q T E L L Q S G I H G Y M R M Y W A K I L E W S R
UniRef90_Q8KF21 E R A Q T H D P L W N A A Q T E L L E T G I H G Y M R M Y W A K I L E W S A
UniRef90_UPI000366B261 E E G K T H D E Y W N A A Q A E M R M T G Y M H N H L R M Y W G K K I L E W S P
UniRef90_E9HAM9 M E G K T H D D L W N A S Q I Q L T R T G K M H G F L R M Y W A K I L E W T E
UniRef90_UPI00047B0E72 Q R G E T G F G C F D A W A R E L A Q T G T L H N H T R M W F A S I W C F T L K
UniRef90_C1E6D6 E R C A T H D A L W N A A Q R E L V V S G K Q H N Y L R M Y W A K K M L E W S A
UniRef90_UPI000237A092 V K G N T G I D C F D H W A Q E L V A T G Y L H N H T R M W F A S I W I F T L R
UniRef90_UPI00044105B8 R E G R T G V P F V D A N M R E L F L T G F M S N R R G R Q N V A S F L T K D L G
UniRef90_F2NHT2 E S A R T H D P L W N A A Q L E M L H R G K M H G Y L R M Y W A K K I L E W T A
UniRef90_F7ZGS6 C R G E T G I D C F D A W A H E L V E T G Y L H N H A R M W F A S I W I F T L E
UniRef90_H9K9F9 H N S E T H D D L W N A C Q N Q M V T I G K M H G F L R M Y W A K I L E W T E
UniRef90_W6TPB7 K D G E T E H S L V D K Y M K E L N D T G F I P H A G R L V V A T F L I H V L K
UniRef90_UPI0003600F80 E H G K T H D P L W N A A Q Q E L V Y R G G K M H G Y M R M Y W A K I L E W T A
UniRef90_I3ZK25 F P A E T Y D E L W N A A Q R Q M V R R G W M H N M M R M Y W A K K W S H S N A
UniRef90_T0MR63 F G E T E N D F V N Q S M I L L Q K T G Y L P Y F A R I I V S S F L V Q E Y N
UniRef90_W8BWG3 E G A S T H D D L W N A A Q M Q L V H E G K M H G F L R M Y W A K I L E W S S
UniRef90_B0WAC3 Q Q A K T H D D L W N S A Q L Q M V K E H G K M H G F L R M Y W A K I L E W T K
UniRef90_C1AAD6 Q R A Q T G D R L W N A A Q T E L V Q S E G I H N Y P R M L W G K L W T R D Y E
UniRef90_A1BHU7 E K A A T H D K L W N A A Q S E L V Q S G K I H G Y M R M Y W A K I L E W S S
UniRef90_UPI0004740CA9 S S G N T G F P F I D A C M R S L N F N S G W I N F R M R A M L M S F A S Y N L W
UniRef90_I3RGW0 R Q G R T G Y P L V D A G M R E L W A T G W L H D R I R V V V S S F F V K V L Q

UniRef90_A7EIM0 I D W R I G A E W Y E C M L V D Y D V S S N W G N W Q Y V A G V G N D P R G N D
UniRef90_W9YVY7 I D W R L G A E W Y E A N L V A D Y D V S N N W G N W Q Y V A G V G N D P R G G E A
UniRef90_UPI00037157ED M D W R Y G A A W F E R Q Q L V D Y D V S N N W G N W Q Y L A G V G A D S P Q G C R
UniRef90_U1P5X8 I D W R L G A D Y F R R K L V D H D P A S N Y G S W Q W L A S T G T G S V G D V R
UniRef90_UPI0000E0FEC6 I D W R L G V K H L A A Q F L D F E P G I H Y P Q F Q M Q A G V T G T N T I R
UniRef90_W2RWK3 I D W R L G A E W Y E F C L V D Y D V S S N W G N W Q Y V A G V G N D P R G E A
UniRef90_F8WRD6 L P W R V G A E W Y E C F L V D A D L E S D L L G W Q Y L A G V G A D P R G H E L E
UniRef90_Q9KS67 V D W R A G V T Y L A Q L F L D F E P G I H Y P Q F Q M Q A G V T G T N T I R
UniRef90_B7Q664 L S W E E G M K V F D E L L V D A D W S V N A G S W M W L S C S S F F Q Q F F H
UniRef90_B2W5Z1 I D W R V G A E W Y E C F L V D Y D A A S N W G N W Q Y V A G V G A D P R Q G R
UniRef90_T2C0G0 L D W R Y G A A Y F E S Q L V D Y D V A S N W G N W Q Y L A G V G A D P R G S R
UniRef90_U3AX02 L D W R Y G A A Y F E S Q L V D Y D V A S N W G N W Q Y L A G V G A D P R A G R
UniRef90_W2U2W2 L P W K R A E E A F R H L L D G D R A V N L Q G W Q W A G G L G V D A A P Y F
UniRef90_L8E6H2 I D W R F G E K Y F Q Q M L I D Y D P A S N L G G W Q W A A S T G T D A V P Y F
UniRef90_UPI0002E194F7 I D W R Y G A A Y F E S Q L V D F D V A S N Y G N W Q A V A G V G A D P E E H P
UniRef90_F2JZG5 I D W R Y G A T Y F E S Q L I D F D V A S N W G N W Q Y I A G V G A D P R G G R
UniRef90_UPI0003482530 V D W R L G A A W F E H C L I D F D A P S N W G N W R Y V G G T G R D P R R N R
UniRef90_S4TZN6 I D W R K G E R Y F E M E H L I D G D F A S N N G G W G F S A S V G V D P Q P Y F
UniRef90_F5SUK0 L D W R F G A A Y F E C Q L I D Y D V A S N W G N W Q Y L A G V G A D P R Q G R
UniRef90_Q2C0V8 V D W R Y G A A Y F E Q Q L I D H D V A A N W G N W Q Y I A G V G T D S R E K R
UniRef90_UPI0004410C21 M D W R M G A E W F E S C L V D H D V C S N Y G N W T Y T A G V G A D P R A G R
UniRef90_U0F3N0 L D W R Y G A A Y F E T Q L V D Y D V A S N W G N W Q Y L A G V G A D P R G S R
UniRef90_UPI0004720AA9 C P F Y L G E R Y F R R K L L D Y D N I Q N R G N W L F C A S G V N A A P Y F R
UniRef90_U1KU87 V D W R Y G A A Y F E Q R L I D Y D V A S N W G N W Q Y I A G V G A D T K G G R
UniRef90_X0QRV8 L D W R Y G A A Y F E Q H L V D Y D V A S N W G N W Q Y L A G V G A D P R G C R
UniRef90_W9V7Z9 I D W R Y G A D W F E Q H L I D Y D A A S N W G N W Q Y L A G V G A D P R G L R
UniRef90_W9YTB6 V S W E R G A E V F E E W L D H D V A C N A G N W M W L S C S A F F S Q F F R
UniRef90_F2VHS2 I S W E E G Q K V F E E L L D A D W S L N A G N W Q W L S A S A F F H Q F F R
UniRef90_B6BTC6 I H W K L V A K A L A R L F L D F E P G I H Y P Q Q M Q A G V T G I N T I R
UniRef90_D5VYV5 L H W E P G L H L A R Q F L D F E P G I H W S Q M Q M Q S G T T G I N T L R
UniRef90_C1FGJ5 V D W R H G Q L W F H D T L V D A D V A I Q G F M W Q N G G H S G M D Q W N F
UniRef90_UPI0003605A4A Q D W L A G A R H F E H L L L D Y D P C S N Y G N W M Y L A G V G N D P R P V R
UniRef90_Z5XYT4 V D W R Y G A A Y F E Q Q L I D Y D V A A N W G N W Q Y I A G V G V D P R G G R
UniRef90_UPI0004723805 L D W R Y G A T Y F E Q Q L I D Y D V C S N W G N W Q Y L A G V G A D P R G C R
UniRef90_F9G158 I D W R Y G A E W Y E A M L V D Y D V S S N W A N W Q Y V A G V G N D P R G D A
UniRef90_E4X8U0 I D W R K G M K F F Y Q N L V D A D V F N N T A G W G W V S S T G P D A V P Y F
UniRef90_F3BLZ6 L D W R Y G A A Y F E Q Q L I D Y D V A A N W G N W Q Y I A G V G V D P R G G R
UniRef90_F3LFM4 L D W R C G A A Y F E Q Q L I D Y D V A A N W G N W Q Y I A G V G A D P R G G R
UniRef90_D7WD47 I H W R H G E E W F W D T L V D A D Y A S N P F N W Q W A G C G D D A A P Y F
UniRef90_Q2SQU0 L H W R E P A L H M A R L S T D Y D P A V H F P L T Q Q F A G T T G M F E Q K
UniRef90_M1RJZ7 G P F D I A C Y L N D K Y E L D G R D P N G Y A G L S W C F G T H D R P W
UniRef90_U5A918 V D W R N G A A Y F E S Q L V D Y D V A S N W G N W A Y I A G D L N Q P V H N T
UniRef90_UPI000440C953 I D W R V G A E W Y E C M L V D Y D V C S N W G N W Q Y V A G V G N D P R A N R
UniRef90_I1CT06 L D W R I G A E W F E S L L K D H D V Y S N Y G N W Q Y
UniRef90_F7SMD6 L H W H E P A L H L A R L F T D F E P G I H Y P Q V Q M Q A G A T G T N A L R
UniRef90_H7GEU2 L P W K R C
UniRef90_UPI0002EF350E V D W R H G A A Y F E S Q L V D Y D V A S N W G N W A Y I A G A L N Q P A R N N
UniRef90_UPI0002D523A0 I D W Q H G A A Y F E S Q L I D Y D V A S N W G N W A Y I A G K P K T K P K S R
UniRef90_X7YFZ3 L P W Q W G R P G S W
UniRef90_M2MSP5 I D W R L G A E W Y E T N L I D Y D V H N N W G N W Q Y N S G V G N D P R G E A
UniRef90_E3CZU8 S P E R A G V A L N D R Y E L D G R D P K G Y A G L A W C L G G V H D R P P S
UniRef90_A6GL5 L P W Q P V A L Y L A Q Q F L D F E P A L H Y G Q V R I A S G T S H F S Q M L V
UniRef90_Q8TIS6 S P E K A A I C L N D R Y E L D G R D P N G Y A G L A W S I G G L H D R A W R E
UniRef90_M3TW98 L P W Q L G A E F F M K Y L K D G D P A S N T L S W R W T A G I Q T K G K N Y V
UniRef90_B8A2K1 C C R C E G
UniRef90_U5YD42 L P W R
UniRef90_UPI00036A0B76 N E E R R A I D L N D R Y A L D G R X P X G Y T G X A W A T G G V H D R P F P E
UniRef90_F0XJ25 I D W R C G A E W Y E M M L M D Y D V Y S N W G N W Q Y A A G V G N D P R G I E
UniRef90_B1LX32 S P R E R T L R L N N R Y F L D G R D P N S F T N V A W V Y G L H D R P W Q
UniRef90_Q2NNQ4 W
UniRef90_S9VVC6 Q D W R L A A E W L E R N S L D F D P F I C Y G C T A Y Y T D L M K D D F G E P
UniRef90_V4NPL2 L P W S L G A D F F L R H L I D A D A A S N T L S W R W V A G L Q T A G K T Y
UniRef90_F4C6S9 I S H L L G A A Y F E D K L I D Y N P A S N Y G N W A H I A G V G S S T A Q D N G
UniRef90_A0A037UQX5 L N W H K G E Q Y F A Q Q L I D Y D P I I N Q C S W Q W A G T G S F D A Q P F F
UniRef90_B1ZAB1 S P E E A F A R L N N R Y F L D G R D A N S F T N V A W I F G L H D R P W Q
UniRef90_Q2N8F4 L D W T L G A D F F L R H L V D G D A A S N T L S W R W V G G L H T K G K T Y
UniRef90_E1ZJV5 L D W R L G L R Y F E S C L A D H E W A L N A G N W A Y C A G T G S T P R D R
UniRef90_I6ZRF9 S P E E A L K Y A I Y K H E L D G R D P N G Y T G I A W S I G G V H D R A W I R
UniRef90_UPI0004782818 T P Q E A H A H L N N R Y E Q D G R N A N S Y A G I S W V F G L H D R P W
UniRef90_Q1AY95 T P Y R T A L Y L N N R Y F L D G R D P N S Y A N V A W V F G L H D R P W
UniRef90_F1KXR8 T A Y R F L I E Q N D K H E L D G R D P N G Y T G V M W V F G M H D R A H A E R
UniRef90_Q3AS84 T P E E A F E W L N D R Y A L D G R D P N G Y V G V A W S I G G V H D R P W R E
UniRef90_Q8KF21 T P F D I A L M L N D R Y A L D G R D P N G Y V G V A W S I G G L H D R P W T E
UniRef90_UPI000366B261 S A E Q R T L R L N N R Y F L D G R D A N S F T N V A W V Y G L H D R P W
UniRef90_E9HAM9 T P E E A A I Y L N D R Y S L D G R D P S G Y V G C M W S I C G I H D M G W K Q
UniRef90_UPI00047B0E72 L P W L L G A D F F Q H L L D A D A A S N L S W R W V A G C O T P N K P Y
UniRef90_C1E6D6 D P W C W A I H L N N K Y S L D G R D P S S Y T G V G W C W G L H D R
UniRef90_UPI000237A092 L P W Q L G A D F F L R H L L D G D P S S N T L S W R W V G G L H T K G K T Y
UniRef90_UPI00044105B8 L D W R L G A E W F E Y L L V D Y D V C S N Y G N W L Y S A G V G N D P R E N R
UniRef90_F2NHT2 S P E E A A L Y L N N R Y E L D G R D P N G Y A G V A W S I G G L H D R P W G E
UniRef90_F7ZGS6 L P W E L G A D F F L R H L L D G D P A S N T L G W R W V A G I Q T Q G K T Y
UniRef90_H9K9F9 T P E K W A N D L N N K Y S I D G C D P N G Y V G C M W S I C G V H D H G W P E
UniRef90_W6TPB7 V H W T I G A A Y F E E K L I D Y A P A S N W G N W A N V A G A G L D L K S K N
UniRef90_UPI0003600F80 S P E E A M Q H A I Y T Y S L D G V D S N G Y T G I A W S I G G V H D R P W R E
UniRef90_I3ZK25 D A M K A L I H L N D K Y F L D G R D P N G Y A G I A W A V Y G V F D R P W G E
UniRef90_T0MR63 I N W L K G A Y W F E Q N I F D Y S P A T N Y G N W S H I A G V G T S E K D N T
UniRef90_W8BWG3 S P E V A A I H L N D K Y S L D A R D P N G Y V G C M W S I G G L H D H G Y P N
UniRef90_B0WAC3 S P E A A I Y L N D R Y Q L D G R D P N G Y V G C M W S I A G I H D Q G W R E
UniRef90_C1AAD6 D A R T W L F H L N D K Y A L D G R D A N S V G G I M W C L G L W D R P W
UniRef90_A1BHU7 S P P E A F E M A I Y R A L D G R D P N G Y A G V A W S I G G L H D R P W F E
UniRef90_UPI0004740CA9 L P W Q D S G S E L A N K F V D Y E P G I H W N Q C Q M Q S G T
UniRef90_I3RGW0 L P W R W G M K Y F W D T L L D A D L E S D A L G W Q Y I T G S L P D S R E L D

UniRef90_A7EIM0 R F N P V K Q A F D Y D P K A E Y V L A W V D E L R G V D E G Q I F Q A W T I N 210 220 230 240
 UniRef90_W9YVY7 R F N P V K Q A F D Y D P R G E Y C K A W V E E L R V L D P Q E I F Q A W K
 UniRef90_UPI00037157ED H F D L D K Q T R Q F D P D G S Y V K R W E G N K T Y P L D S V D A A D W P
 UniRef90_U1P5X8 I F D P V S Q M G K Y D D G G D Y V T K Y V P E L D G V S P R K I I D W P T L S
 UniRef90_UPI0000E0FEC6 I Y N P I K Q S Q E K D P Q G R F I K Q W V P E L R E Y P D D M V H T P W A G I
 UniRef90_W2RWK3 R F N P V K Q A H D Y D P R G E Y C M A W L E E L R G L D P Q
 UniRef90_F8WRD6 R
 UniRef90_Q9KS67 I Y N P T K Q A Q E H D S E G Q F I H K W V P E L A Q V P V P L L F E P W L M T
 UniRef90_B7Q664 L Y C P V R F G R K A D P S G D F I S S F
 UniRef90_B2W5Z1 V F N P V K Q A L D Y D K R G E Y I K A W V P E L R D I
 UniRef90_T2C0G0 Q F N L E K Q T E M Y D P H M E F I D R W
 UniRef90_U3AX02 Q F D L I K Q T E I Y D P N G D F I K K W H C E T A V L D H V D M V D W P I S P
 UniRef90_W2U2W2 R F N P V L Q G E R H D P E G
 UniRef90_L8E6H2 R F N P T T Q S Q K F D P S G K F I R K Y V K E L T N L P D K S E T E Q K E G L
 UniRef90_UPI0002E194F7 Q F D V N V L A S E Y D P E G V F V D K W
 UniRef90_F2JZG5 H F N L D K Q T Q L Y D P D K A F I N K L Q S E D S Q L D S V D A A D W P I F P
 UniRef90_UPI0003482530 Y F N V L G Q A D R Y D P A G H Y V A R W L P A L V D L P A D Q R H R P W Q K A
 UniRef90_S4TZN6 R I F N P L Q S E K F D S D G D Y I R K W V P E L A D V K G K A I H D P A G D I
 UniRef90_F5SUK0 H F N L D K Q T A T Y D A E G H F I R Q W K G E A N P Y P L D S V D A A D W P I
 UniRef90_Q2C0V8 W F D L E K Q T R I F D P N H H F I R H W R G D E N L N A L D S V N I D D W P
 UniRef90_UPI0004410C21 N F N I L K Q A H
 UniRef90_U0F3N0 H F N L A K Q T E M Y D P D K V F I E R W H G S K V I I P S D H V
 UniRef90_UPI0004720AA9 V N N P V T Q S A T F D P E G S Y I R R W L P E L G E E N D K Q I H L P R
 UniRef90_U1KU87 H F N I Q K Q V R L Y D P D G E Y T R Q W
 UniRef90_X0QRV8 Q F N L D K Q T Q Y D P N G E F I R Q W
 UniRef90_W9V7Z9 R F N I D K Q T Q T Y D P Q L V F I K R W Q G N T H M L P T H R V D A A D W P
 UniRef90_W9YTB6 V Y S P V S F P K K W D R R G E F V R Y V P E L A G F D D Q F I Y E P H K A P
 UniRef90_F2VHS2 V
 UniRef90_B6BTC6 I Y N P K K Q A M D H D P E A I F I K T W I P E L N S H Q P E Y I I N L P L Q S
 UniRef90_D5WYV5 V Y S P A K Q Q A D H D P Q G E F I R Q W V P E W
 UniRef90_C1FGJ5 V M H P V Y A A K S A D P D G E Y V R R W C P E L S G L P R E Y V H C P W E A P
 UniRef90_UPI0003605A4A A F N L E K Q A E Y D P D Q K F R T L W L C
 UniRef90_Z5XYT4 H F H I N K Q T A L Y D P T G C Y I R K W Q G D K T V S R V V D I Y D A A D W P
 UniRef90_UPI0004723805 H F N L K K Q T Q Q H D P N S E F M D K W L
 UniRef90_F9G158 R F N P I K Q A F D Y D N N G R Y V R T W V P E V K Y I E
 UniRef90_E4X8U0 R P P F N P W S K K F D L E G K Y I K Q Y I P E L A D V S P A D L H K W G D A S
 UniRef90_F3BLZ6 H F N I E K Q T L Q F D P H A V Y T N K W
 UniRef90_F3LFM4 Q F N I D K Q Q Q L Y D P D E T Y I K R W
 UniRef90_D7WD47 R I F N P L Q E E K F D P Q G I Y I N Q W V P E
 UniRef90_Q2SQU0 I Y N P V T E S H R L D P A G K F I R A E C S A L R E V S D A Y L H A P W K M P
 UniRef90_M1RJZ7
 UniRef90_U5A918 Q S S H N N R S I H N N Q S
 UniRef90_UPI000440C953 A F N P V K Q A K D Y D P K G E Y I K A W I P E L R G L R G E K V W Q P W L L N
 UniRef90_I1CT06 V Y N P I K Q A E D N D P T G E F V A R W V P E L A P L P L E W R A K P W A L P
 UniRef90_F7SMD6
 UniRef90_H7GEU2
 UniRef90_UPI0002EF350E H F D L A K Q T E M Y D P D H A F I N Q W
 UniRef90_UPI0002D523A0 H F D L G K Q T G M Y D P D H A F I N K W
 UniRef90_X7YFZ3
 UniRef90_M2MSP5 R F N P V K Q A L D Y D S N A D Y V R A W V P E L R G V
 UniRef90_E3CZU8 R P V F
 UniRef90_A6GLE5 Y D P L K Q Q A E Q D P K G E F V K R W L P G Y
 UniRef90_Q8TIS6 R E V T G K I R Y M
 UniRef90_M3TW98 A Q E W N
 UniRef90_B8A2K1
 UniRef90_U5YD42
 UniRef90_UPI00036A0B76 R E I F G K V R P M
 UniRef90_F0XJ25 R D N P V K Q A F D Y D P K G L Y V R A W L P E V A R L K E R H L F Q P S A A P
 UniRef90_B1LX32
 UniRef90_Q2NNQ4 V R N I H Y L A H Q H D Q T G I Y I K R W L P Q L S K F T P
 UniRef90_S9VVC6
 UniRef90_V4NPL2 I R D L K K L Q N L L D A Q G E Y V K R W
 UniRef90_F4C6S9 R F N P E L Q Q K K Y D P T S S Y C N K F L K S R P T I N K
 UniRef90_A0A037UQX5
 UniRef90_B1ZAB1
 UniRef90_Q2N8F4 R F K T V S Q G E R Y D P E A R L I Q A W V P Q L A A L R P A Q L
 UniRef90_E1ZJV5 Y M N Y A G C K R K F D V S K Y T I N V F
 UniRef90_I6ZRF9
 UniRef90_UPI0004782818
 UniRef90_Q1AY95
 UniRef90_F1KXR8 A V F G K L R Y M N Y R K Y K Q T I G E Y V R C N Y K L A G R K I E G H V E P
 UniRef90_Q3AS84 R P V Y G T I R Y M
 UniRef90_Q8KF21 R P V Y G T I R Y M
 UniRef90_UPI000366B261 R D V F G K I R Y M
 UniRef90_E9HAM9
 UniRef90_UPI00047B0E72
 UniRef90_C1E6D6
 UniRef90_UPI000237A092 K F N M I K Q A L D Y D S N G D Y V R Q W V P E L K G I T G G D I H A P W T G V
 UniRef90_UPI00044105B8 R P V F G K I R F M
 UniRef90_F2NHT2
 UniRef90_F7ZGS6 R D I F G K I R Y M
 UniRef90_H9K9F9 A F D L D K Q M K I L D
 UniRef90_W6TPB7 R P I F G T V R Y M
 UniRef90_UPI0003600F80 R P I F G K I R Y M
 UniRef90_I3ZK25 P I D W Q K L I N T H Y P K G
 UniRef90_T0MR63 R P I F G K V R Y M
 UniRef90_W8BWG3 R E V F G K I R Y M
 UniRef90_B0WAC3
 UniRef90_C1AAD6 R P V Y G N I R Y M
 UniRef90_A1BHU7
 UniRef90_UPI0004740CA9
 UniRef90_I3RGW0 R D N P Q F E G Y K F D P H G E Y V R R W L P E L V R L P T E W I H H P W D A P

| | 250 | 260 | 270 |
|------------------------|---|-----|-----|
| UniRef90_A7EIM0 | D E E K | | |
| UniRef90_W9YVY7 | | | |
| UniRef90_UPI00037157ED | I | | |
| UniRef90_U1P5X8 | H G E R D Y A H P I V D R N H G W D R A E R V F E E A | | |
| UniRef90_UPI0000E0FEC6 | D E A G E Y P T P V V D I E D A A K M A R D R L W S F Q K | | |
| UniRef90_W2RWK3 | | | |
| UniRef90_F8WRD6 | | | |
| UniRef90_Q9KS67 | P L E A Q Y L K P V M D L E A S A K Q A R D R L W Q W Q K | | |
| UniRef90_B7Q664 | | | |
| UniRef90_B2W5Z1 | | | |
| UniRef90_T2C0G0 | | | |
| UniRef90_U3AX02 | | | |
| UniRef90_W2U2W2 | | | |
| UniRef90_L8E6H2 | L L G K D Y P F P L V D H K E R R K L A I A R Y E | | |
| UniRef90_UPI0002E194F7 | | | |
| UniRef90_F2JZG5 | D E S K G | | |
| UniRef90_UPI0003482530 | P E H F A R P | | |
| UniRef90_S4TZN6 | A R K N G Y P E P I V D H K D S R A R A L S A Y K N | | |
| UniRef90_F5SUK0 | M P N K D | | |
| UniRef90_Q2C0V8 | L S G R G | | |
| UniRef90_UPI0004410C21 | | | |
| UniRef90_U0F3N0 | | | |
| UniRef90_UPI0004720AA9 | P D A I V D L K L S R Q L A L E T Y K V I | | |
| UniRef90_U1KU87 | | | |
| UniRef90_X0QRV8 | | | |
| UniRef90_W9V7Z9 | I E | | |
| UniRef90_W9YTB6 | I A D Q | | |
| UniRef90_F2VHS2 | | | |
| UniRef90_B6BTC6 | N D E S N Y P Q A Q Y N F Q E R I R E S K D L L W Q W K K S I | | |
| UniRef90_D5WYVW5 | G T S A Y P P P I V N E R S A V K Q A K D R L Y A I R Q S | | |
| UniRef90_C1FGJ5 | A L G R H Y P K R I V | | |
| UniRef90_UPI0003605A4A | | | |
| UniRef90_Z5XYT4 | L | | |
| UniRef90_UPI0004723805 | | | |
| UniRef90_F9G158 | | | |
| UniRef90_E4X8U0 | I R A K A Y P A P V V K H D E A S K N A K K A F E E M K A A | | |
| UniRef90_F3BLZ6 | | | |
| UniRef90_F3LFM4 | | | |
| UniRef90_D7WD47 | Y P E P M V D V K | | |
| UniRef90_Q2SQU0 | V L G Q D Y P M P I I N N E D A S L I A G Q R L K A | | |
| UniRef90_M1RJZ7 | | | |
| UniRef90_U5A918 | | | |
| UniRef90_UPI000440C953 | K E E R | | |
| UniRef90_I1CT06 | | | |
| UniRef90_F7SMD6 | Q P G V D Y P I P | | |
| UniRef90_H7GEU2 | | | |
| UniRef90_UPI0002EF350E | | | |
| UniRef90_UPI0002D523A0 | | | |
| UniRef90_X7YFZ3 | | | |
| UniRef90_M2MSP5 | | | |
| UniRef90_E3CZU8 | | | |
| UniRef90_A6GLE5 | G T A G Y P A P I I D N A E S L K Q G K A R L H A M R | | |
| UniRef90_Q8TIS6 | | | |
| UniRef90_M3TW98 | | | |
| UniRef90_B8A2K1 | | | |
| UniRef90_U5YD42 | | | |
| UniRef90_UPI00036A0B76 | | | |
| UniRef90_F0XJ25 | | | |
| UniRef90_B1LX32 | | | |
| UniRef90_Q2NNQ4 | | | |
| UniRef90_S9VVC6 | | | |
| UniRef90_V4NPL2 | | | |
| UniRef90_F4C6S9 | | | |
| UniRef90_A0A037UQX5 | I V D Y K I S V K K A L D I Y K | | |
| UniRef90_B1ZAB1 | | | |
| UniRef90_Q2N8F4 | | | |
| UniRef90_E1ZJV5 | | | |
| UniRef90_I6ZRF9 | | | |
| UniRef90_UPI0004782818 | | | |
| UniRef90_Q1AY95 | | | |
| UniRef90_F1KXR8 | P K K K D | | |
| UniRef90_Q3AS84 | | | |
| UniRef90_Q8KF21 | | | |
| UniRef90_UPI000366B261 | | | |
| UniRef90_E9HAM9 | | | |
| UniRef90_UPI00047B0E72 | | | |
| UniRef90_C1E6D6 | | | |
| UniRef90_UPI000237A092 | | | |
| UniRef90_UPI00044105B8 | E L D N T Y P T P I I | | |
| UniRef90_F2NHT2 | | | |
| UniRef90_F7ZGS6 | | | |
| UniRef90_H9K9F9 | | | |
| UniRef90_W6TPB7 | | | |
| UniRef90_UPI0003600F80 | | | |
| UniRef90_I3ZK25 | | | |
| UniRef90_T0MR63 | | | |
| UniRef90_W8BWG3 | | | |
| UniRef90_B0WAC3 | | | |
| UniRef90_C1AAD6 | | | |
| UniRef90_A1BHU7 | | | |
| UniRef90_UPI0004740CA9 | | | |
| UniRef90_I3RGW0 | V L G S N Y P L P I V E L D A A K A | | |

1 10 20 30 40
UniRef90_R5PPA8 G E R T A Q K I L N D F I E N K L T D Y S Q N R R K D P S L A G S S R L S S
UniRef90_D7AMR1 G S E E A A Q A L A R F L E D M G L A G Y A T R R R N N D P A V M G Q S S R L S S
UniRef90_UPI0004746B0A F P L S R S A A L J A R L E A F L P M A G R S R Y A S D E R R N D V A A S G V S S R L S S
UniRef90_T0MJS1 F K G G H T A G M K V F N D F M E N K F S R S Y A S D L R N N D P D E A D S S R L S S
UniRef90_UPI000441DDEA K P G A A S G L K V L E E F V K E R R L K H F A S G Y R N N D P N Q A A L S N L S S
UniRef90_UPI0003D0B143 P G T A A G L A V L Q A F V T N R R L P G Y S E Y R N N D P N K A A L S N L S S
UniRef90_D3TMD1 V K P G Y K N A C H Q L L E F C Q V T R R L K L F H D K R N N D P N I D A L S S G L S S
UniRef90_B1ZG15 F K G G T T Q A E A T L S H Y L D A R F N H Y A Q I R G R P E A G A A S H M S S
UniRef90_MORNC4 C E P G E E A A M E A L D G F L T C R L K H Y D S D R N D P V E T S A L S S G L S S
UniRef90_L2GL16 F T G G Y S E A G M Q L E L F F C E R F S S Y S K G R N D P P E T N V L S S G L S S
UniRef90_Q9YVK7 G T K Y A F K I L D I F I Q N R L K D Y A K K R N D P N A N A L S N L S S
UniRef90_Q2XUS9 W V G G E T T A L K Q M Q Q R L A V K Y E T F L R G S Y L P T H G N P D L L S S
UniRef90_S7U1R6 F T G G T A H A K R R F E D F L H R S L A V Y D R H A N Q P Q L G D D V S H M S S
UniRef90_A6FW14 F E P T R N A A L D R L R V F A P K A G D Y A R L R N Y D L G P G V S G L S S
UniRef90_UPI0004662F26 W T P G T T Y A G M K L E F F L Q T K I S Q Y S T M Q R N D P T K V D C L S S
UniRef90_K4A8X2 C E P G E A A L E V L D G F L T K R I K N Y D M G R N D P T K P H A S G L S S
UniRef90_H2TBM7 K P G A G A G L E M L E S F I D E R L K L F D S Q R N D P N A A A L S Q M S S
UniRef90_E8RV19 R A G A L D E R L E A F L P R A G S A Y A R S D R N D D D T G H V S K L S S
UniRef90_A0A022QT55 C E P G E A A L D V L N G F L K T R L K N Y S S E R N N P L K P K S S G L S S
UniRef90_A3YTZ4 P I R G G S K P A L A A L E A L L D P V R Y A A S R N H L D G A V S S G L S S
UniRef90_C6XUB6 G G E D S G L Q H L A Q L L E A G A D I Y Q N T K H T P E K P G S S R L S S
UniRef90_R4ZEC9 G G Y T T G M N R L N M F L K N K I N S Y K K Y K N C N P N L D D V S I L S S
UniRef90_A0A024MBE8 L K G G E D A A L Q V L D Y F I V N N L N T Y D E E R N D P N S G K Q S I L S S
UniRef90_Q28N16 H P P T R A A G L E R L A R F V P A A G R D Y A A K R N D D G H P H V S Q L S S
UniRef90_S7WYG4 R E A R G L E Q F L T Y R F H D F G K Y E D A P S F I N H S I L S S
UniRef90_G7WMK4 L K P G A A A R R A L R R F L G E K L S R Y D G D R N D P T L D G Q S S N L S S
UniRef90_UPI0003B4E056 Q T G E P Q G G Q R L D A F V R G G L R G Y A E N R N D P V K D A S S R L S S
UniRef90_S7TH77 R P G T D A G M G M L R A F V M A R L A R Y H E R N D P N A G A V S I L S S
UniRef90_T1HKC6 P G Y R A G M Q T L Y E F C E K R L E Y F S R K R N D P L A D A L S N L S S
UniRef90_UPI00036E0055 D Y G S T R N Y V D V A V T R L S S
UniRef90_A0A034W1A3 G Y T A A C E Q L Q S F C M K R L P I Y A D K R D D P T V N A L S G L S S
UniRef90_UPI000475DBD6 F T P A L N A A R A R L D A F A P R A G R H Y A A E R N R D S R D N V S I L S S
UniRef90_UPI0003739650 R A A G L D R L A A F L A N E G A E Y P G A R N D A R S T T S A L S S
UniRef90_K8FE60 P G E K A A M A V L D N F L T A R M S L Y G L R N D P A K P A L S G L S S
UniRef90_Q05QV7 P L Q G G R T A A E H Q L K R V E A K R Y G R S R N H L D G A V T G L S S
UniRef90_D5BRZ3 G G E E P A Q I A L K N I N P D Q Y A H T R N Y N L D D G D V S I L S S
UniRef90_R9GP17 Y T G G E K K A L E I M N Q L V E M P F S D F G I L N P N K C N S A V L S S
UniRef90_E6X7P7 R K Y A S S R N Y I D G S V S Y L S S
UniRef90_UPI0004755023 F V P G E E A A K E R L E A F I G G E L D S Y G K G R N V P T N P G V S R L S S
UniRef90_C4V741 Y Q G T Y S A G L Q V M D F F N N K F H I Y N E C R N N D P D V D G L S N L S S
UniRef90_G9MR52 G G E T R A V A Q L R Y V I K Q G I A R F H E S N D L E D S Q E C L R L A
UniRef90_Q9XE2 C T P G E E A A L E A L R G F L S A R L S L Y D T K R N D P A T P S A S G L S S
UniRef90_A0LN00 Y R G G T S R A K E L F E T F L R D D I G R Y T E D R N D P H A G A V S H M S S
UniRef90_B2ZA0 G G R K A A Q D A L Q K I D P V R Y A Q T R N F F T G A V T R L S S
UniRef90_I019Z7 R G G R S V A E R L E A L E P A R Y A A T R N Y L D G A V T R L L A
UniRef90_UPI000380708E W K G G T H A G L E R L K V F T G R L L V D Y D S Q R N H P E T D G T S C M S S
UniRef90_UPI00040525BC A E A W F N Q F L Q E R F H D F G K Y E D A M V A G E T S V L S S
UniRef90_Q3A105 P T K G G S E A A R K A L D L F L R E H L D L Y V A H R N D P N A G V S G L S S
UniRef90_G2H8X5 V E P G E D A A H A A L G D F V R T R L H R Y H L R N D P N A G V S G L S S
UniRef90_E0TB60 Y A K N R N R D D G P Y V S C L S S
UniRef90_D9QP60 F P P T R A A G L Q R L A D F V P H A G E A Y A M G R N D D A G P G V S G L S S
UniRef90_R8ZM27 L P T T R N G A K Q W L N H F V R E R L D Q F G P Y E D A F S L E Y H S V L T
UniRef90_UPI0003B571FF Y P T T H Q E A E H W L D N F L K H R L Y N F G I Y E D A M V A N Y H S V L T
UniRef90_A8G6H2 A Q N T W E N F A K Y K L N D Y A K L R N F D N E S S V S K L S S
UniRef90_V7EL93 F L P R A G L P Y A A R R D L P G H P S V S G L S S
UniRef90_I0Z4K4 V K P G E D A A M E A L K G F L K E R L S I Y N T K R N N P N F P A L S Q L S S
UniRef90_Q33BU1 C K P G E D A A M E A L K G F L K S R L S K Y D A Q R N D P T A D A L S N L S S
UniRef90_B0SCI3 V K G G R N E A L R L N D F L K H K L D L Y L T K R N R P E L T A T S N L S S
UniRef90_B9TKL5 W Q G G R A S A L A R L S T V D A E D Y A R S R N Q L T G A V T G L S S
UniRef90_N1W561 V K G G R N E A L K I L K S F V T K K L Q T Y S E T G R S E P N R P A T S G L S S
UniRef90_Q7RKS9 E K K A R E L L E D F C T K N K L D K Y S V K R N D P N Y D T I N L L I
UniRef90_A9NE57 F K G G R K E A Y K H L E Y F F N Q L L K D Y D K R S D P A L H I Q S Y M S
UniRef90_I01F15 P H R G D P A E A A R R L A A V I K P G P Y A R T R N R I G G E V T K L S S
UniRef90_Q2JVG2 W A V T R A Q A L Q V L E A F I Q H R L P H F P W Q D A M D F L Y H S L L S S
UniRef90_C1KCC9 Q P G T S E G M K M L D S F V K E R L R Y F S S A R N D P T K S V C S N L S S
UniRef90_F5Z7W0 F A V T R D D A L T V L S D F I E E R L P H F G Q Y Q D A M V E G Y H S H I A
UniRef90_UPI00036E3060 A Q S H A W L D Q F L E K R F S H F G P Y E D A L V J E T H H S V L S S
UniRef90_F6D911 W P V T R A Q A L Q A L D D F I A N R L T K F G D Y Q D A M W S N Y H S V L S S
UniRef90_A0A058ZHB5 S A A E S W L R D F L R Q R L P R F G D Y E D A I V A G W H S V L T
UniRef90_L8XAW9 E D T Q I D V T R P S T T L M S S
UniRef90_J9EDA5 L E G G E D A A L R V L N Y F I A N N L N T Y D K E R N I P N S G K Q S L L S S
UniRef90_B3L6C9 E K K A E E L L K D F C S K V L D K Y N V K R N D P N S D A G S V L L
UniRef90_G4FK85 A E H W L D T F L E Q R L A G F G T Y E D A I S S H H H S V L T
UniRef90_S4TZQ6 G G R K E A L R L M A K F L K E G L P F Y S E E R S E P R P E T S R L S S
UniRef90_UPI0003B6E472 H I R N A G S H Y A A N E R N S D L R P D N V S L L S S
UniRef90_A4YKG2 R A A G L A R L Q T V L P R L G R A Y A A G R N D H G P G V S G L S S
UniRef90_A0Q4V3 R E Q A L E A L D L F I N E R L S S Y F G D Y Q D A M A W M Y H S H I S S
UniRef90_M5TXH6 P G G S R A G Y A R W N A F R E N G L S S Y D Q T R N D S A D P A G S R L S S
UniRef90_D6PE33 R G G S V T A R T E L K K F I E Q R L N T Y H V D R N H P E R H G G S G L S S
UniRef90_I113D7 C E P G E A A A L E T L D G F L T T R I K N Y D M D R N H P T K P A L S G L S S
UniRef90_F5RA26 F E P T P A A A H A R I D A L D P A R Y A A R T R N H L D G A V S R L S S
UniRef90_Q2A573 W P V T R R Q A L S D L R H F I E R C L P R F G D Y Q D A I S D D Y H S R L S S
UniRef90_UPI00035E639B V T R F L E Q R F L E F G T Y E D A V I V A E N S S V L T S S
UniRef90_A4C0K4 K E A E Q W L E Q F L E M R F P E F G I Y E D S I V E K H S S V L T S S
UniRef90_D7W3H0 C K P G E E A A E V L D G F L T M K L K N Y F T D R N N P V K A K L S G L S S
UniRef90_S8E7L9 F P V T R T E A A L A R L R H F V E H R L A A F G P Y E D A M L A N A L S L L S S
UniRef90_A0A010YRW5 D E S E K W F N D F L E N R F L M F G D Y E D A I V K D N H S L L S S
UniRef90_H6RHA7 F P V T R A A A L E R L A Q F V P H A G V D Y A R R N F D H H D A V S R L S S
UniRef90_UPI0003B3D027 F P F T K S E V I T N L I N F S Q H E L H N Y T S N R N F D Y G A N V S K I S S
UniRef90_UPI0003B5174D R Q Q A L K I L N W F I Q Y R L P D F G P Y Q D A M V T G E E T M L S S
UniRef90_UPI00034A9D40

UniRef90_R5PPA8 P Y L L H F G Q Q I S P L Q V L Q K I N T 60 P Y A G A F L E E L L I V R R R E L L
UniRef90_D7AMR1 P W L H F G Q Q I S A Q R V A Q A A F A A A A P E S R D A F L E E L L I V R R R E L L
UniRef90_UPI0004746B0A A A L R R R R L I S T E D E V I A A A V J A A H G R E G N L D I F L N E I F I W K E T
UniRef90_TOMJS1 P Y L R F R G Q I S G T H K I I A L V Y D N P D K K N L D I F L N E I F I W K E T
UniRef90_UPI000441DDEA P W F R F G Q Q V S V R A V I L E V Y K H R T R Y K E S V E G F F I N E E A V V R R R E L L
UniRef90_UPI0003D0B143 P W F H F G Q Q V S V R A V I L E V Y Q K S R D R H R K E S V A N S F V F E E A V I V R R R E L L
UniRef90_D3TMD1 P W F N F G Q Q I S I L Q R C L E I Q T Y E H K F K S V A A F C E E E A I V R R R E L L
UniRef90_B1ZG15 P Y L H Y G Q Q I S P V A I A L K V Q T A A T G G E D D K A A Y E E E L I V R R R E L L
UniRef90_MORNC4 P Y L H F G Q Q I S A R C A L E A W K F R K Y S R Q S V D A F L E E L I V R R R E L L
UniRef90_L2GL16 P Y L H A G H I S A L Q T I F L T I E R Y G K D S D N Y F I N E M F I W R E T
UniRef90_Q9YVK7 P W I H F G Q Q I S T Q R I L E I T N K Y K Y P K S V E V F C E E A I I T R K E L
UniRef90_Q2XUS9 P A L R F G Q Q I S V R S F C W S V Q D R E V H Q G R L A T Q S S A S H F I T G Q L
UniRef90_S7U1R6 P Y L H F G Q Q I S P L W L A M K V H A V Q R D C E G A A A F L E E L I V R R R E L L
UniRef90_A6FW14 P Y L R H R L I T E D E V L R T V L A R H S P Q A A E K F I Q E V
UniRef90_UPI0004662F26 P Y L H F G H I S A P Q R V A Y E V I S Y K G E E E I D T Q S R E D F I V R R R E L L
UniRef90_K4A8X2 P Y L H F G H I S A A Q R C A L E A R K R Q L S K S V D A F L E E L L I V R R R E L L
UniRef90_H2TBM7 P W I R F G H I V S A Q R V A L Q V Q R S K K A G V A V S S F I E E L L V V R R R E L L
UniRef90_E8RV19 P Y V R H R L I S G E W E L A R A A E K A H G A A A S K F I D E V
UniRef90_A0A022QT55 P Y L H F G Q Q I S A Q R C A L E A R K R K L Y P E A I D G F L E E L V V R R R E L L
UniRef90_A3YTZ4 P Y I R H G V V S S L A Q V R D L V Q Q R M A G G P E P V S E K L L Q E L
UniRef90_C6XUB6 A W L T I G C L S P R M V Y W K V K E A E G V F G L N A N F S Q I F L G L
UniRef90_R4ZEC9 P W L H C G M I S A Q M C V N K L K E D N K N N E S I E S F I E F I R R R E L L
UniRef90_A0A024MBE8 P Y I H F G M L N P I M I V V K V K Q S E A P K S A K D A F L E E L V V R R R E L L
UniRef90_Q28N16 P Y L R H R L I T E E E V L E A V L E R Y S L A N A E K F V A E V
UniRef90_S7WYG4 P L M N S G L L L P T E V V K R A L L F S Q E E D I P I N S T E G F I R Q I
UniRef90_G7WMK4 P Y L H F G Q Q I S A Q R V A L E A A K W E A D P R S K A A F L E E L V V R R R E L L
UniRef90_UPI0003B4E056 P W L H F G F L S A L Q R D A A L A A A K S A P A E D K D A F L E E L I V R R R E L L
UniRef90_S7TH77 P W L H F G M I S A A Q R V A L E A L R A T A P A E A R D S F V E E L V V R R R E L L
UniRef90_T1HKC6 P W I H F G Q Q I S V R C I L Y V S L F K T K Y V I E S V N A F C E E A I V R R R E L L
UniRef90_UPI00036E0055 P Y I S R G V I S T K L V Y K S I L D R G F N P Y N S I K L I Q E L
UniRef90_A0A034W1A3 P W I R F G Q I S A Q R C V L E V R R Y S S K C K S V E A F C E E A I L R R E L L
UniRef90_UPI000475DBD6 P Y I R H R A L T E H E V L A K V L Q H H T P E A A E K F I Q E V
UniRef90_UPI0003739650 P Y L R R R L I T E S E R V A T A A I G A F G D E G A E R F V S E V
UniRef90_K8FE60 P Y L H F G Q Q I S G O R C A M K A L E A K K N G K A V D V F F E E L V V R R R E L L
UniRef90_Q05QV7 P W I R H G V L T L A E V R D A V F A Q L N E R H Q R R D D G A K L I N E L L
UniRef90_D5BRZ3 P Y I R H G I I S L N D V R N H A L S I S G E P Q Q T E K F I Q E L
UniRef90_R9GP17 P W L S L G C L S P R L V Y W K V K E K L P P K S D L S I K I I J E L
UniRef90_E6X7P7 P Y L A R G V I S T K Q V Y Q S L L I E R G F T I S N A E K F I Q E L
UniRef90_UPI0004755023 P Y L H F G Q Q I S A L R V L W E V T A R G R D R D S V A A Y V E Q L V V R R R E L L
UniRef90_C4V741 P Y I H G I I S P Q K I K L A Y E K F Y K D K D D G Y V A E L F I W R E T
UniRef90_G9MR52 G Y L S F G C I T A R Q I H E E L L K L E N G T E N E G V T P G T K A L R A E L
UniRef90_Q9XE2 P Y L H F G Q Q I S P R A A L E A A K H R A K Y K A A V E S Y L E E L V V R R R E L L
UniRef90_A0LN00 M Y L H F G Q I S P V Y L A L R L G E V R E R D T Q V A A F L E Q L L V R R R E L L
UniRef90_B2IZA0 P Y I R Y G V L S L R E I R D Y V L D Q V Q Q K N D A T K L I N E L L
UniRef90_I019Z7 P Y L R H G V L S L A E V R D V A L R K A D T P Q Q A A R L V S E L
UniRef90_UPI000380708E P Y L H F G H V G P V T I A A V A K A N P R L R A A R D S Y F N E L I V W R E L
UniRef90_UPI00040525BC P L M N I G L L T P D W I V S K T L A F A Q K Q E I P M N S L I E G F I R Q I
UniRef90_Q3A105 P Y L R W G H I S S H E I V Q R L L D R E G W H P S D E A F L D Q L V T W R E L
UniRef90_G2H8X5 P Y L H F G M L S A Q R A A L A A Q A R D A P G E C R D S F L E E L I V R R R E L L
UniRef90_E0TB60 P Y L R H R L I T E Q E V I A A A L N R F A F S T A E K F I Q E V
UniRef90_D9QP60 P W L R H R L L T E R E V V A G V L E R H D P R A A Q R F I Q E V
UniRef90_R8ZM27 P F L N T G L L T P E E V I D T I H F A N K N N I P L A S L E G F L R Q I J
UniRef90_UPI0003B571FF P M L N I G L L D P Q Q V I N R A L E I T A D A D I P L A N S L E G F I R Q V M
UniRef90_A8G6H2 P F I T H R I L S E Y D L I N D I K S K Y K S K N S T K F L A E E V
UniRef90_V7EL93 P Y I R H R L L T E A E V I D A T L R A H P Q G A D K F I A E V
UniRef90_I024K4 P F L H F G H L S A R A A L E A S K L R S K F K E G V E A F N E E C V V R R R E L L
UniRef90_Q33BU1 P Y L H F G H L A P R A A L E A A K H K S T H K A S V E G F L E E L V V R R R E L L
UniRef90_B0SCI3 P Y L H F G W I G L D E I F V A V L K H S A K G W N P E R M S H N H F L D E L
UniRef90_B9TKL5 P Y L R H G C L S L P E T M A D V G A R F G K H A H K L A A E L
UniRef90_N1W561 P Y L H F G H I G I S E E I F H S V L E V T S K G K W N P E R M S H Q H F L D E L
UniRef90_Q7RKS9 P Y I N L G I I S S Q R C I L E V N K Y A H A S S G K E Y F N D D L L I K K E L
UniRef90_A9NE57 M Y L Q F G Q V S D Q E I L R M L Y D Y K I Y P E M S E G F I E Q L V V R R S L
UniRef90_I01F15 M Y L R H G V L E L A E V R D A V L A K S P G G A D K L V S E L
UniRef90_Q2JVG2 P Y L N L G L L T P Q E V I T A A E Q A Y H R G G I P L P S A E G F I R Q I L L
UniRef90_C1KCC9 P W I H F G Q L S S Q R A A L I V R L Y R S R S E S V A G Y I E E S I T R R E L
UniRef90_F5Z7W0 F Y L N C G L S P K E A I D A A E S A Y A G T A P L N S V I E G F I R Q I L
UniRef90_UPI00036E3060 P I L N A G L I T P Q E V V Q K A J A Y A H H H V P L N S L E G F I R Q I L
UniRef90_F6D911 V A L N I K L L N P R E V I A A A E Q A Y Q Q G R A P L N A V I E G F I R Q I L
UniRef90_A0A058ZHB5 P M L N I G L L T P A Q V I E T L E H A E R F D V P L N A L E G F I R Q I L
UniRef90_L8XAW9 P Y L N F G C V G I S S E R C Y W S W H D I L V Y V E L H C P Y D C S H I V P R N L
UniRef90_J9EDA5 P Y I H F G M L N P I M I V V K V K Q S E A P K S A K D A F L E E L V V R R R E L L
UniRef90_B3L6C9 P Y V N L G I I S S Q R C V L E V H K H A Y N N P S K E S F S D D F I M R K E L
UniRef90_G4FK85 P M L N L G L L T P Q Q V L N R T L E A A D S V I E P L N S L E G F L R Q I
UniRef90_S4TZQ6
UniRef90_S3US93 P Y L H F G M I S S E E I I N H S Q R G K N E G F F H P N P N V N S F L D E L L
UniRef90_UPI0003B6E472 P A V R H R L I T E D E I V R A V L G S H S F Q A A E K F I Q E V
UniRef90_A4YKG2 P W I R R R L I T E E E V R A A V A A H G G A A D K F I Q E V
UniRef90_A0Q4V3 M Y I N S G L L P M E C I K A A E K A Y K G N A P L S N A I E G F I R Q V L
UniRef90_M5TXH6 A Y L H Y G M V S P F E I A R E A A E L C G M S P S P T S D C K Q K F L D E F L
UniRef90_D6PE33 P W L H F G H I S S F E I V N E V L T S Q K W N P M L I T P P H N G F L D Q V I
UniRef90_I113D7 P Y L H F G H I S A Q R C A L E A K K R H L S P K S V D A F L E E L I V R R R E L L
UniRef90_F5RA26 P Y L T H G L V D V P S V I A R L G Q R H T L T P A D K I V F E L
UniRef90_Q2A573
UniRef90_UPI00035E639B G A L N A G L L R P R E V C E A A E Q A Y H D G S A P I N A S V I E G F I R Q I L
UniRef90_A4C0K4 P M L N V G L L T P E N I V A Q S I A F A K A N N I P I K A P I N S V I E G F V R Q I L
UniRef90_D7W3H0 P M M N V G L L T A E H V L E K A I S F A R E N D I P V N S V I E G F V R Q I L
UniRef90_S8E7L9 P Y L H F G Q I S A Q R C A L E A Q K R Q Y P Q A V D A F L E E L I I R R R E L L
UniRef90_A0A010YRW5 A I L N L G L L D P R E V V E R A E R K Y S G A A P L A G V E E G F T R R R E L L
UniRef90_H6RHA7 P L M N V G L L N P R Y V I S K S I D F A K K N N I P V N S T E G F I R Q V I
UniRef90_UPI0003B3D027 A A L R R R V S E A D V L D A V V A H G P D A A A S F I S E V
UniRef90_UPI0003B5174D P Y L R R R F I S E A N V L G V V L K D H K F N N I E K F I E E V
UniRef90_UPI00034A9D40 P Y L N I G L L Q P L E V I T A A E Q A Y Q Q H Q L P L N S V I E G F I R Q V L

UniRef90_R5PPA8 A H N F V Y F T P H Y D D Y T L L P A W S R K T L K E H W S D L R P Q Q L Y K E L 120
UniRef90_D7AMR1 A D N F C Y Y N D A Y D R F D G F P E W A Q R T T L N R H R H D P R P Q C Y E H D
UniRef90_UPI0004746B0A T W R T Y W K G W L E J Q H P D F V W E S W K A T V L Q S F H S D G G L P R P A G D Y E T D A
UniRef90_TOMJS1 S E H Y C Y H E K N Y D N I P D G A L P W A K Q S L D L D H S N D K R E P A G Y R E T L
UniRef90_UPI000441DDEA A D N F C C F Y N P N Y D K I E G A Y D W A K T T L K I H A K D K R E P H L Y D K Q L
UniRef90_UPI0003D0B143 A D N F C C F Y N K S Y D N F L E G A H D W A R K T L L H A R K D K R E S Y L Y E E F
UniRef90_D3TMD1 A D N F C C F Y N Q N Y D N F Q Q G L Q D W S R K T L L N E H R K D E R S P C Y E E F
UniRef90_B1ZG15 A M N H I Y Y E P N Y D S Y E A A P A W A R K T L D A H R G D P R E P Y L Y E Q F
UniRef90_MORNC4 A D N F C C Y Y P H Y D S L Q G A W E W A R K T L M D H A A D K R P H I Y E Q L
UniRef90_L2GL16 A E H F V Y H E K N Y D N I N G A L A W A K N T L L H V R D K R P A I I Y D R N
UniRef90_Q9YVK7 C D N F C Y Y N E N Y D N I N G A N N W A K T L L N E H K N D T R K H I I Y Y Q L
UniRef90_Q2XUS9 I W R E Y F Y T M S V N N P N Y G Q M S G N P L C L D P W K N P P A D E L Q R W
UniRef90_S7U1R6 A V N H V W Y A K G V D R Y E T L P S W A R K T L D A H R G D N R P A E L Y D E L
UniRef90_A6FW14 F W R S Y W K G W L E M R P A V W T A Y A A A L N R T Q V E S G L R Q R W S D A
UniRef90_UPI0004662F26 A D N F C C F Y T D N Y D T F D A F P D W A K N T L N K H R F D S R E P E D F Y E L
UniRef90_K4A8X2 A D N F C C Y Y Q P H Y D S L A G A W E W A R K T L L M D H A S D K R E H I Y T R E
UniRef90_H2TBM7 T D N F C C F Y N E N Y D S V E G A H E W A R K T L K D H A K D K R P Y I Y T R R
UniRef90_E8RV19 C W R S Y W R G Y L E M R P A L W A S Y V D Y L L S D E A E T A R Q H D T Y C A A
UniRef90_UPI00040A22QT55 A D N F C C F Y Q P H Y D S L Q G A W E W A R K T L M D H A S D K R E H I Y T R E
UniRef90_A3YTZ4 A W R D Y W Q R L W L R L G D G L W E N L E P L K T G H P E A Y A P E L P G D I
UniRef90_C6XUB6 L W R D Y F R F M F K K H G L A F L Q E T D L E K D I M Q A I E R D V P A E K W
UniRef90_R4ZEC9 A D N F C C Y Y T E N Y K S L E S C P N W A I M T L N A H I N D K R D H F D E L
UniRef90_UPI00040A024MBE8 A H N F Y Y C R D T Y D T F D C L P E W A K K A M D E H R H D K R E Y I Y K E L
UniRef90_Q28N16 C W R T Y W K G W L E L R P S A W A E Y R R D L D H I D R T G V A K A
UniRef90_S7U1R6 G W R E F I R G M Y E C K G R Y S R T R N F W Q F K R K I P Q S F
UniRef90_G7WMK4 S D N F C C F Y N R G Y D T F D A F P A W A R K T L D E H R N D P R E Y L Y D Q E
UniRef90_UPI0003B4E056 A D N F C C L H A P R Y D A L D A C A A W A Q A T L D K H R G D K R S V L Y D F N
UniRef90_S7TH77 A D N F C C L H A P R Y D A L D A C A A W A Q A T L D K H R G D K R S V L Y D F N
UniRef90_T1HKC6 A D N F C C Y Y N E K Y D Q V I E G A N E W A I T T L D K H R A D K R T Y L Y K E L
UniRef90_UPI00036E0055 A W R D Y W Q Q L W L A K G E G I N E S D L K R E Q P E V E N Y K M P E N L
UniRef90_UPI00040A034W1A3 A D N F C C Y Y N K N Y D N L K G I N E S W A F N T L D E H R Y D E R N P S Y K E F
UniRef90_UPI000475DBD6 F W R T Y W K G W L Q M R P R V W R E C A N Q K A R L A H E P G L R A A V M A A
UniRef90_UPI0003739650 F W R T Y F K G H L E T H P A A W T G Y A E G H E R L A A E P G L R R T Y A A A
UniRef90_K8FE60 A D N F C C Y Y S P Q Y D T I E Q K Y D W A K D T L R M H A G D K R T Y T Y E E F
UniRef90_Q05QV7 G W R D F W Q R M W S D L G D G I N D D Q E A L N T H D P A S Y A R S L P T D I
UniRef90_D5BRZ3 A W R D Y W Q R R Y R Q N P H D I W H D I E A Y K T G F T A D D Y A E T L P A D
UniRef90_R9GP17 Q W R D F N R F M L K K H G P V L E M S S K K L K P A E K L K F
UniRef90_E6X7P7 A W R D Y W Q Q V W I H K E N A I D S D L K H P Q P T V E N Y E I P K I V
UniRef90_UPI0004755023 S D N F C C F H D P D Y D N P G C F A D W A V G T L E D H L A D D R E P V I Y E Q L
UniRef90_C4V741 S E H F C Y H N K D Y D N I M G A L E W A R D Y S L H E H A K D D E R E H L Y E E L
UniRef90_G9MR52 L R R D F L L D L Y D I N G S G P G R N T N I V W K S P N P A K A R E P D Q Q Q F
UniRef90_Q9XHE2 A D N F C H Y C P T Y D S L E A A A E W A R D S L D K H R T D K R E F L Y T R D
UniRef90_A0LN00 A L N F V H H T R N Y D S Y E C L P R W A R E T L A R H R K D R R E F R Y Q E L
UniRef90_B2ZA0 G W R D Y W Q R L Y V K L G D E I W K D Q E E Y K T G Y T A E Y L P E L P Q D I
UniRef90_I019Z7 G W R D Y F Q R Y R V L G L G I W R D L E P K T G W S A A D Y A D T L P A D I
UniRef90_UPI000380708E A V N F V R Y T Q Y Y D S P E C A E S W A K A T I R E H A R D E R E H L Y R Q L
UniRef90_UPI00040525BC G W R E F I Y Q V Y G R I G S K Q R T K N F W G F S R K K P A T F
UniRef90_Q3A105 G H L F C F K R H D Y D R M E S L P A W A Q T T L Q D H M Q D P R P A L Y E E F
UniRef90_G2H8X5 A D N F C C L H A Q D Y D A I T C F P D W A R A T L D K H R H D A R P A Y L Y D E G
UniRef90_E0TB60 Y W R T Y F K G W L E R R P W V W Y T D D R D R R L N E L S G D Q A T A Y Q A A
UniRef90_D9QP60 L W R T Y W K G W L Q M N P E V W T R Y Q A E R D A P R A S G L E R A V A Q A
UniRef90_R8ZM27 G W R E F I R G I Y Q N F D E E Q T N K N Y F S H T R H I T K H W
UniRef90_UPI0003B571FF G W R E F I H I V Y K R E G V K Q R T K N Y W G F K R R I P P S F
UniRef90_A8G6H2 F W R V Y W K G W M E N R P K V W E N F I S E K N L D F D Y E L Y K K A
UniRef90_V7EL93 W W R T Y W K G W L E R R P A I W S A Y R Q G L T R L H V E S G L R Q Q W E A A
UniRef90_I0Z4K4 S D N Y C F Y T P N Y D T L D A C Y P W A R E T L Q K H T A D K R E F I Y T R E
UniRef90_Q33BU1 S D N Y C H Y V I E N Y D S L D A A Y D W A R Q T L N D H R N D K R E H V I Y E Q F
UniRef90_B0SCI3 I W R D I G Y L F F W H L P D W A Y K T N F R Q K H Q N D H R E Y I Y T L E Q F
UniRef90_B9TKL5 S Y R D Y F R Q V W Y R F G E A I M Q P M E S P K V G L G D R P M P D F I
UniRef90_N1W561 I W R D I G Y L F F W K D P D W A Y K S N F K K H S K S D T R E Y L Y T L E Q F
UniRef90_Q7RKS9 A D N F C G Y N K N Y D N F N G A K D W A K E S L K K H E L D K R N H D Y E D F
UniRef90_A9NE57 A Y N F V T Y I K D Y D V F E F M T E S W A Y E T M Y E H E R D H I Y S L E D I
UniRef90_I01F15 G W R D Y F Q R V L A H E G E R V H E S L R S W K T G D E E D Y A P E M P P D V
UniRef90_Q2JVG2 G W R E Y M R G F Y E Y Q M P Q G Y A Q T N F F G H Y R P P P D F F
UniRef90_C1KCC9 S D N F C F Y N D N Y D S I E G T N D W A K K T L K D H A K D K R E Y V Y S R E
UniRef90_F5Z7W0 G W R E F V R G F Y W H F M P S L Q R S D N Y F N H K R S L P D F F F
UniRef90_UPI00036E3060 G W R E F V R G V Y Q I K G S Q M P S Q R T R N Y W Q F N R K L P E S F
UniRef90_F6D911 G W R E Y V R G L Y W S Y M P D W L H M N A L D A Q Q D L P G F Y
UniRef90_UPI00040A058ZHB5 G W R E F M R A S Y T E L G V K M R T S N H W N H T R P M P H A F
UniRef90_L8XAW9 L G Q L E F S Y I P W E C Q T V Y S D D G D P R P K D D Q H P Q A E E W L A A W
UniRef90_J9EDA5 A H N F Y Y Y R D T Y D T F D C L P E W A K K A M D E H R H D K R E Y I Y K E L
UniRef90_B3L6C9 A D N Y C Y Y N K N Y D N F E G G R D W A K E S L K K H D A D K R E Y D Y E D F
UniRef90_G4FK85 G W R E F M A M Y L R H G V T M R N S N F W N F E D R P P D A F
UniRef90_S4TZQ6 W R E F Y R H V L V R W P H C M N K P F K P D Y A D I E W S Y N A E H F N A W
UniRef90_S3US93 T W R E L G F L F F H K S P D F L P D W A K T L E E F H K S D P R K Y V I Y E L
UniRef90_UPI0003B6E472 C W R T Y W K G W L E L R P K V W R D Y Q S L E D L L D R P R F R K Y Q A A
UniRef90_A4YKG2 I W R G Y F K G W L E R R P Q V W T S Y L R G R D D L E R L D S D Q A R V A A A
UniRef90_A0Q4V3 G W R E F V R G V Y W K M P D Y R D M N Y L E A T R K L P S F Y
UniRef90_M5TXH6 I W R E M S F H F C E L Y A D K C P E W A Q T S L R E H A S D R T Y S W E E L
UniRef90_D6PE33 T W R E L G F V Y C Y E H P D H L P E W A K T L L E E H A T D E R P Y V Y E Q L
UniRef90_I113D7 A D N F C C Y Y Q P H Y D S L A G A W E W A R K T L K D H A G D K R E H I Y T R E
UniRef90_F5RA26 A W R E Y F H H L W R H W G D G I L S A R R P A P A A A E L P A D V
UniRef90_Q2A573 R W H C H F M Q K L E D Q P S I E Y E N L H S A Y D Q L R T E L N Q Q C F E A W
UniRef90_UPI00035E639B G W R E F V R G I Y W L N M P D Y K R E N R L E A D R D L P A F Y
UniRef90_A4COK4 G W R E F M R G F Y E S R G S D A R T R N F W E F T K K I P K S F
UniRef90_D7W3H0 G W R E F V R G V Y L Y Q G V Y Q R N K N Y W Q H K Q K L P E S F
UniRef90_S8E7L9 A D N F C Y Y Q P H Y D S L Q G A W E W A R K T L K D H A A D K R E H I Y T R E
UniRef90_UPI00040A010YRW5 G W R D F V W H L Y W Y F P R Y R T A N A L D A R R E L P K A F H S L D A D V
UniRef90_H6RHA7 G W R E F I R G I Y T V K G S Y E R T L N Y W G F K R K I P K S F
UniRef90_UPI0003B3D027 F W R T Y W K G W L E Q R P A I W T R Y L A G R D A A R R D D L A E R H G D A
UniRef90_UPI0003B5174D F W R T Y W K G W L E S H P I W Y D E Y N A Y D E D Q S
UniRef90_UPI00034A9D40 G W R E Y M H G I Y H F V D R E Y T E K N W F N H T Q S L P E F F

UniRef90_R5PPA8
UniRef90_D7AMR1
UniRef90_UPI0004746B0A
UniRef90_T0MJ51
UniRef90_UPI000441DDEA
UniRef90_UPI0003D0B143
UniRef90_D3TMD1
UniRef90_B1ZG15
UniRef90_MORNC4
UniRef90_L2GL16
UniRef90_Q9YVK7
UniRef90_Q2XUS9
UniRef90_S7U1R6
UniRef90_A6FW14
UniRef90_UPI0004662F26
UniRef90_K4A8X2
UniRef90_H2TBM7
UniRef90_E8RV19
UniRef90_A0A022QT55
UniRef90_A3YTZ4
UniRef90_C6XUB6
UniRef90_R4ZEC9
UniRef90_A0A024MBE8
UniRef90_Q28N16
UniRef90_S7VYG4
UniRef90_G7WMK4
UniRef90_UPI0003B4E056
UniRef90_S7TH77
UniRef90_T1HKC6
UniRef90_UPI00036E0055
UniRef90_A0A034W1A3
UniRef90_UPI000475DBD6
UniRef90_UPI0003739650
UniRef90_K8FE60
UniRef90_Q05QV7
UniRef90_D5BRZ3
UniRef90_R9GP17
UniRef90_E6X7P7
UniRef90_UPI0004755023
UniRef90_C4V741
UniRef90_G9MR52
UniRef90_Q9XHE2
UniRef90_A0LN00
UniRef90_B2IZA0
UniRef90_I0I9Z7
UniRef90_UPI000380708E
UniRef90_UPI00040525BC
UniRef90_Q3A105
UniRef90_G2H8X5
UniRef90_E0TB60
UniRef90_D9QP60
UniRef90_R8ZM27
UniRef90_UPI0003B571FF
UniRef90_A8G6H2
UniRef90_V7EL93
UniRef90_I0Z4K4
UniRef90_Q33BU1
UniRef90_B0SCI3
UniRef90_B9TKL5
UniRef90_N1W561
UniRef90_Q7RKS9
UniRef90_A9NE57
UniRef90_I0IF15
UniRef90_Q2JVG2
UniRef90_C1KCC9
UniRef90_F5Z7W0
UniRef90_UPI00036E3060
UniRef90_F6D911
UniRef90_A0A058ZHB5
UniRef90_L8XAW9
UniRef90_J9EDA5
UniRef90_B3L6C9
UniRef90_G4FK85
UniRef90_S4TZQ6
UniRef90_S3US93
UniRef90_UPI0003B6E472
UniRef90_A4YKG2
UniRef90_A0Q4V3
UniRef90_M5TXH6
UniRef90_D6PE33
UniRef90_I113D7
UniRef90_F5RA26
UniRef90_Q2A573
UniRef90_UPI00035E639B
UniRef90_A4C0K4
UniRef90_D7W3H0
UniRef90_S8E7L9
UniRef90_A0A010YRW5
UniRef90_H6RHA7
UniRef90_UPI0003B3D027
UniRef90_UPI0003B5174D
UniRef90_UPI00034A9D40

130 140 150 160
E N A T T T D S Y W N A A M Y E M Q K T G F M E N T M R M Y W G K K I I E W S R
E Q G Q T T H D S L W N A A Q L E M V R W G R M H G Y L R M Y W A K K I L L E W T S
V A S G K T G I D S D A F D A W V A E L R A T A Y G Y L H N G W A R M Y W A S K E L W I F T L G
K S G K T S D S F W N A A Q N E L I Y T N K I H G Y A R M Y W S K E L W I K W T K
E E G K T H D P L W N A A Q L Q M V Q D G K M H G F L R M Y W A K K I L L E W T R
E Q G K T H D Q L W N A A Q L Q M V R E G K M H G F L R M Y W A K K I L L E W T R
E Q A R T H D D L W N S A Q L Q L M R E G K M H G F L R M Y W A K K I L L E W S K
E R G E T H D R Y W N A A M M E M R E T G Y M H N H M R M Y W G K K I L L E W S A
E K A E T A D D P L W N A S Q L E M V Y H G K M H G F M R M Y W A K K I L L E W T N
Q S A R T D D P L W N A A Q R Q L M V S G K M H G Y V R M Y W A K K I L L E W T E
E N A L T H D N L W N A S Q K Q M I Y G K M H G Y L R M Y W A K K I L L E W T K
V E G R T G F P F V D A A M R K E L R T E G W L H H V A R N T V A F F L T R G T W
E K A E T H D P Y W N A A M K E M I H T G F M H N Y M R M Y W G K K V L E W S E
N G Q T G I D G F D H W A H E L L I Q T G Y L H N H A R M W F A S I W V F T L G
Q Q E T H D P L W N A A Q L D M C I H G K L H S W L R M Y W A K K I L L E W S L
E Q A K T S D P L W N A S Q L E M V H H G K M H G F M R M Y W A K K I L L E W T S
Q E A Q T H D H L W N A A Q Y Q M V T E G K M H G F L R M Y W A K K I L L E W T S
V S G Q T A D D A F D V W T A E L I T T G Y L H N H A R M S F A S I W V H T L R
Q K A Q T A D Q L W N A S Q L E M V H H G K M H G F M R M Y W A K K I L L E W T N
D E G R T G L A C I D A F A R Q L S D T G W L H N H A R M W L A A Y V V H W R R
K T G C T A H P V V D K Y M Y L L N A T G F I P H S G R L L V A T Y L V H V L K
E Y S K T D N K F V W N Y C Q D Y L L K F G Y I N G Y M R M F W A K K I L L E W T K
E E G C T H D V Y W N A A Q F E L V F T H K M S G Y L R M Y W A K K W S H D Y E
E A G Q T D I D A F N A W T R E L V E T G Y L H N H A R M W F A S I W I F T L G
Y E G T T G I V P I D Q T K K V L Q T G Y C H H I E R L M V L G N F M L L C E
E G A K T H D P L W N A A Q R E M V V R G K M H G Y L R M Y W A K K I L L E W T D
T K G E T H Q P L W N A A Q R Q L V D E R G F L H G Y M R M Y W A K K I L L E W S P
E G A E T H D P L W N A A Q R Q M V R R G F M H G W L R M Y W A K K I L L E W S A
E E S R T H D D L W N S A Q I Q L V K E G K M H G F L R M Y W A K K I L L E W T S
I T S Q T G I R A V D Q A R E F Y Q T G Y M H N H M R M Y V A S L A C N L G K
E K A N T H D D L W N A A Q L Q L V R E T G K M H G F L R K Y W A K K I L L E W S N
E Q G R T G V E G F D D W A H E L V Q T G Y L H N H A R M W F A S I W T F T L Q
V E G R S G I D C F D A W A L E L I E T G W L H N H A R M W F A S I W M F T L R
E Q A K T H D N L W N A A Q R E L V Y G G K M H G F M R M Y W A K K I L L E W S D
R E G N T G L A C M D A F Q R E L V T H G W L H N H A R M W M A A Y V V H W R R
I E G E T G V A V I D H F H E L C T T G Y L H N H A R M Y V A Y I V H W R R
K E G H T G E L F V D A C M Q Q L N A T G F I N N I C K S F V S A Y I V I K K L K
A E G T T G I I A I D E A I S L L Y K T G Y M H N H L R M Y I A S I A C N V I A K
E K A A T H D D L W N A A Q L E M V R T G K H M H N Y M R M Y W A K K W T P H Y A
E F G K T N D S F W N A A E N Q L L K L N K I H G Y V R M Y W A K Q I L V K W T K
Q V G A T G Y G L V D A I M R Q L I F T G H V G T R S H K L I V N F L A K F A G
Q C G A T H D E L W N A A Q L E M V V I G K M H G F M R M Y W A K K I L L E W T Q
E N L R T H D E Y W N A A M T E M K F T G Y M H N H M R M Y W G K K I L L E W S E
R Q G T T G R V C I D S F S H D L K E T G Y L H N H A R M W L A A Y I V H W R R
V A G E T G L A C L I D A F S H A L R T T G Y L H N H A R M W L A A Y V V H F R R
E G A K T Y D D L W N A G Q L M V R T G Y W M H N Y V R M Y W A K K W T P D V A
Y T G E T G I V P V D E V I Q K L N K T G Y N H H I E R L M V L G N F M L L C E
Q A G R T H D P L W N A A Q M Q L V R E G R L H N Y L R M L W G K K I L L Q W S P
Q A A R T A D P L W N A A Q T E M V V T G R M H G Y L R M Y W A K Q I L L W S P
V E G R T G I D G F D A W T K E L I A T G Y L H N H A R M W F A S I W I F T L R
E A G A T G I E G F D D W A R E L V R T G Y L H N H A R M W F A S I W I F T L G
Y N G T T G I P P L D H V I H K C Q R Y G Y A H H I E R L M V V G S L M L L E
W E G N T G I H P V D V V V K K V L A T G Y N H H I E R L M V M G N F F L L C E
I N G N T E I D F F N S W V L E L K Q N Y L H N H T R M W F A S T W I F N L G
C T D G T G I D G F D H W A Q E L A A T G Y L H N H A R M W F A S I W I F T L R
E E G K T H D L L W N A A Q L E M V H H G K M H G F M R M Y W A K K I L L E W T N
E K G A T H D K L W N A A Q L E M V H C G K M H G F M R M Y W A K K I L L E W T A
E S A K T H D E L W N A A Q T E L V K T G K I H N Y M R M L W G K K V I E W S K
A Q G F T G L V C M D E I V R Q L Q Q H G Y V H N H A R M W F A A Y V V H W L K
E S A N T H D E L W N A A Q T E L V K T G R M H N Y M R M L W G K K W T K T Y E
R N A R T H N D I W N C C Q L Q L I N E G T I H E F L R M Y W A K N W S E N S R
E F S K T H D I H F N A A M K E A R I T G F M A N Y L R M Y W A K K I M E W S G
L A A E T G T D F V D A W V A E L H D T G W L H N Q Q R M K L A A Y V V H F R R
W T G E T D M A C L R H T L R Q I R R H G Y A H H I Q R L M V L G N F V A L I S G
T R A K T H D Q L W N S A Q K Q M V R E G K M H G F L R M Y W A K K I L L E W T T
W N G S T N M N C M R Q C K E T Q A N A Y A H H I Q R L M V L G N F C L L T G
W N A S T G L A P L D I T I Q K V L D T G Y C H H I E R L M V M G N F M M L C E
W T G D T E M A C L K D S I G Q V L E H G Y G H H I Q R L M V T G L F A L L W Q
Y D A T T G L P P V D D A L G R V L E T G Y C H H I E R L M V L G G I M F L C E
A E G R T G F P W L D A L M R Q L R E E G W M H H L G R H S V A C F L T R Q C Y
E E G C T H D V Y W N A A Q F E L V F T H K V P S F F F N C I C K
R S A K T H N D M W N C C Q L Q L I N E G T I H E F L K V Y W A K K I L L N W S G
Y Q G T T G I P P I D D A I K R A I D T G Y C H H I E R L M L L G N M M L C G
C E G K T G F P I V D A A M R Q L N H M G Y M H N R P R M V V A S F L S K D I L L
E N A R T H D P L W N A A Q K E L V L T G S M Q N Y L R M L W G K K V I E W T R
V D G H T G I A C F D A W T Q E L R S T G Y L H N H T R M W F A S I W I F T L N
E A G R T G L A C F D A F A Q E L V A T G M L H N H A R M W F A S L W I F T L G
W D T K T K M N C L Y Q C V K E T K Q N A Y A H H I Q R L M V L G N F A L L A G
A R G K T H E A L W N A A Q R S L L R H G E L H N N V R M T W G K A L L P M T K
E N A E T H D P L W N A A Q T Q L R K E G I H N Y L R M L W G K K V L L E W C P
Q N A K T A D P L W N A S Q L E M V H H G K M H G F M R
R E G R T G V P V I D A S V R E T L Y D T G Y L H N H A R M W L A S Y L V H L R K
K T G N T G Y P M I D A C M R A L I A T R W L H N F R M R A M L M S F A S Y H L W
W S G N T D M R C M R A T I E M T R N H A Y A H H I Q R L M V T G N F A L L C G
Y D G T T G I Y P I D E T I K T L K T G Y C H H I E R L M I L G N F M M L C E
Y T A Q T G I R P V D S S I Q K I L K T G Y A H H I E R L M I F A N L M M L C Q
Q K A R T A D Q L W N A S Q L E L V H Y G K M H G F M R Q F W S G V F R M Y W L
E A R C L S D V L A G V R D R G W V H H I P R M R M L M V L G N Y A M Q R G
Y T G E T G I E P V D N S I L K K V L K T G Y L H H I E R L M I L G N F M L L C E
V A G H T G I D A F D H W M G E L L A Q T G Y L H N W A R M Q V A S I W I F T L G
I P K K T G I C F D H W M G E L L D T G Y L H N H S R M W F A S I W I F T L G
W T G Q T Q M N C L H Q I L I T Q V Q R T G Y A H H I Q R L M V L S N F A L I A G

UniRef90_R5PPA8 S P E E A Y I T L N N R Y F L D G R D A N S Y A G V G W C F G L H D R P W P 170 180 190 200

UniRef90_D7AMR1 S P E E A L M Q L N D R Y Q L D G R D P N G Y A G I A W S I G G V H D R P W A E

UniRef90_UPI0004746B0A T P Q E A L G A D F L Y R Q L I D A D P A S N T L S W R W V A G L H T Q D R K A Y A

UniRef90_TOMJS1 L P W E A C I K L N D T F S I D G N D P A S N T M G I M W S I C G L N M D R G Y K D

UniRef90_UPI000441DDEA S P E E A L Q Y L N D R Y E L D G R D P N G Y V G C M W S I C G I H D Q G W A E

UniRef90_UPI0003D0B143 S P E R F A I Y L N D R Y S E L D G R D P N G Y V G C M W S I C G I H D Q G W A E

UniRef90_D3TMD1 S P E D A L E F L N D R Y S E L D G T D P N G Y V G C M W S I G G I H D Q G W A E

UniRef90_B1ZG15 S P E E A F E R L N N K Y F I D G R D A N S F T N V I T W L F G L H D R P W G P R

UniRef90_MORNC4 G P E E A A I Y L N D K Y E L D G R D P S G Y V G C M W S I C G L H D Q G W I R

UniRef90_L2GL16 D P R R I G I E M N D K Y S I D G N D P N G Y L G V M W S V C G S M D R A F A E

UniRef90_Q9YVK7 S P E E A L Y Y L N D K Y F I D G R D P N G Y V G C M W S I C G I H D R A W K E

UniRef90_Q2XUS9 L S W E R H G L N H F L K Y L I D A D W S V C A G N W M W V F G L H D R A W

UniRef90_S7U1R6 T P E E R L I R L N N R Y F I D G R D P N S Y A G I G W I F G L H D R A W

UniRef90_A6FW14 L P W E L G A D F F L R H L H D G D P A S N T L G W R W V A G L Q T R G K T Y

UniRef90_UPI0004662F26 S P E E A A I Y L N D H Y E I D G R D P N G Y T G I A W S I G G I H D R P W P E

UniRef90_K4A8X2 G P E E A A I Y L N D K Y H I D G R D P N G Y V G C M W S I C G L H D Q G W K E

UniRef90_H2TBM7 S P E E A L S Y L N D R F E L D G Q D P N G F V G C M W S I C G I H D Q G W A E

UniRef90_E8RV19 L P W Q L G A A F F L E H L I D G D E A A N T L S W R W V A G L H T

UniRef90_UPI00022QT55 G P E E A S I Y L N D K Y H I D G R D P N G Y V G C M W S I C G V H D Q G W I R

UniRef90_A3YTZ4 V R W Q A G A H W F L R H L L D G D P A S N N L S W Q W V A S S F

UniRef90_C6XUB6 I H W T C G A A Y F E E K L I D Y A D P A S N W G N W A S V A G I G K D A R S K N

UniRef90_R4ZEC9 T P Q E A L I Y L N D K Y F F D G C D P M G Y V N I W C I G G L H D R A F K E

UniRef90_A0A024MBE8 F A Y A F L I E Q N D K Y E L D G R D P N G Y C G V M W N F G M H D R A H

UniRef90_Q28N16 L P W Q A G A D F F M R H L L D G D P A S N T L S W R W V A G L Q T H G K P Y

UniRef90_S7WYG4 F D P D A V Y R W F M E M Y D W V M V P N V Y G M C L F A D G G T F A T K P Y I

UniRef90_G7WMK4 S P E E A A I Y L N D R Y E L D G R D P S G Y V G I A W S I G G V H D R A W K E

UniRef90_UPI0003B4E056 T P E E A V V R L N D C W S L D G M D S N G Y A G A A W S V C G V H D R G W A E

UniRef90_S7TH7 T P E R A A I L L N D R Y Q L D G R E A N G Y A G I A W A L G V H D R P W

UniRef90_T1HKC6 S P E E A L R Y L N D R Y S L D G R D P N G F V G C M W S I C G I H D Q G W R E

UniRef90_UPI00036E0055 S H W L I P A K W M Y F H L L D A D W A S N A L S W Q W V A G A N S N K K Y F A

UniRef90_A0A034W1A3 S P E E T A I Y L N D K Y S L D G R D S N G Y V G C M F S I G G L H D G A Y R N

UniRef90_UPI000475DBD6 L P W T L G A D F F L R H L L D A D P A S N T L G W R W V A G I Q T P G K T Y

UniRef90_UPI0003739650 L P W A L G A D F F M R H L L D G D P A S N T L S W R W V A G L H T R G K H Y

UniRef90_K8FE60 T P E N A L K Y L N D R W S L D G R D P S G Y V G C M W S I V G V H D Q G W K E

UniRef90_Q05QV7 V H W K A G A D W F L E H L L D G D P A S N H L S W Q W V A S S F S H K P Y F F

UniRef90_D5BRZ3 I K W Q A G A G W F L H L L D G D P A S N N L S W Q W V A S T F A N K P Y F Y

UniRef90_R9GP17 V Q W L A G S A Y F E E K A I D F S P A I D W G N W A I A C

UniRef90_E6X7P7 S H W K I P A Q W M Y Y H L L D A D W A S N A L S W Q W V A G A N S N K K Y Y A

UniRef90_UPI0004755023 E A M E R A I Y L N D R Y Q L D G R D S N G Y T G V A W S I G G V H D R G W T E

UniRef90_C4V741 T P E E A G I E L N D K Y S I D G N D P N G Y T G V M W C I C G T M D R G Y K D

UniRef90_G9MR52 I D W Q M G A E W V A S L S Y D H D T S L Q W Y T W Q H Y A G I G P D S G R E A

UniRef90_Q9XHE2 G P E A Q I E W A L Y R Y E L D G R D P G G Y T G V L W S M A G V H D M G W I R

UniRef90_A0LN00 T P E E A F Q T L N N K Y F L D G R D P N S Y A G A G W V L G L H D R P W R P I

UniRef90_B2IZA0 I G W Q A G A K W F L E H L L D G D P A S N N M S W Q W V A S T Y F F N R E N L

UniRef90_I019Z7 V R W Q A G A R W F L T H L L D G D P A S N N L S W Q W V A S T F S H K P Y M F

UniRef90_UPI000380708E T A M K Y A I Y L N D K Y F L D G R D P N G Y A G I A W A I L G F D R A W G E

UniRef90_UPI00040525BC F D P D E V Y K W F M E M Y D W V M V P N V Y G M T Q F A D G G L M T T K P Y I

UniRef90_Q3A105 T P E L A M I E L N D R F A L D G C D P N S Y S G I G W V L G R F D R A W G P Q

UniRef90_G2H8X5 T P E R V A V A L N D R Y F L D G R D S N G Y T G I A W S M G G V H D R P W G A

UniRef90_E0TB60 L P W S L G A D F F H R H L L D G D A A S N T L S W R W V G G L H T K G K T Y

UniRef90_D9QP60 L P W A L G A D F F L R H L L D G D P A S N T L S W R W V A G L Q T V G K T Y

UniRef90_R8ZM27 I S P K E A Y R W F M E M F D W V M G P N V Y G M A I Y S D G G I F A T K P Y F

UniRef90_UPI0003B571FF F D P D D V Y R W F M E M Y D W V M V P N T Y G M T Q F A D G G L M T T K P Y I

UniRef90_A8G6H2 L P W Q L G A K F F F K Y L E D G D A A S N L S W R W V G G L Q T K G K Q Y

UniRef90_V7EL93 L P W E L G A D F F L R H L L D G D P A S N T L S W R W V G G L H T P G K T Y

UniRef90_I0Z4K4 S P E E A A I V L N D K Y E I D G R D P N G Y V G C M W S I G G I H D Q G W G E

UniRef90_Q33BU1 S P E E A A I Y L N D K Y E L D G R D P N G Y V G C M W S I A G I H D Q G W A E

UniRef90_B0SC1 T Y E E A F F H L N N K Y A Y D G R N P N S Y T G I L W C F G L F D R P W F P E

UniRef90_B9TKL5 V D W R Q A A D W F E T Q L L D G D T A S N H L S W Q W I A S S F F N K E N L I

UniRef90_N1W561 E A F Q I L E H L N N K Y A Y D G R N P N S Y T G I L W C F G L F D R P W F P E

UniRef90_Q7RKS9 T A L K C A I K L T N E F S I D G K T A N A Y V S I M S S I M G V H D Q S W N E

UniRef90_A9NE57 S A Y Q I I V Y L N N K Y F I D G R N P N S Y G N I A W N F G K H D R A W Q

UniRef90_I01F15 V H W H A G A E W M H A H L V D G D L G S N H L S W Q W V A S T F

UniRef90_Q2JVG2 I Q P Q A V E A W F H D V F I D S Y D W V M Q P N V I G M G L F

UniRef90_C1KCC9 S P E E A

UniRef90_F5Z7W0 L S P E E V Q Q W Y A D A Y E W V E L P N V A G M A L Y S D G G Q L A S K P Y Y I

UniRef90_UPI00036E3060 I D P D D A Y R W F M D A Y D W V M V P N V Y G M S Q F S D G G L M V T K P Y I

UniRef90_F6D911 A K P E Q V H H W Y L A M Y V D A V E W V E L P N V L G M S Q F

UniRef90_A0A058ZHB5 I S P D A L Y R W F M D S Y D W V M V P N V Y A M S Q H A D G G L I T T K P Y F

UniRef90_L8XAW9 I S W E R G A E V F

UniRef90_J9EDA5 N S Q T A L K Y L N N E L S I D G K T P N G Y V S I M W S I M G V H D Q S W N

UniRef90_B3L6C9 F H P T R I Y T W F M D A Y D W V M V P N V Y G M S Q F A D G G I F T S K P Y L

UniRef90_G4FK85 L D W R M G E K F F M E H L I D G D F A S N H G G W G F T A S V R V D P H P Y F

UniRef90_S4TZQ6 S P E E A F E D L N K Y A Y D G R D P N S Y T G I L W C F G A F D R P W F P E

UniRef90_S3US93 L P W Q L G A D F F H R H L L D G D P A S N T L S W R W V A G L Q T O G K H Y

UniRef90_UPI0003B6E472 L P W R L G A D F F L R H L L D G D P A S N T L G W R W V A G L H T R G K V Y

UniRef90_A4YKG2 I D P K Y V N E W Y L L V Y A D A Y E W V E L P N V S G M V L F A

UniRef90_A0Q4V3 C P E Q A L C C L N H R Y A L D G R S P A S Y G G I L W C F G G V F D R P F K P

UniRef90_M5TXH6 D P E K A C E W L N D R W A L D G R D P N S Y T G I L F W I F G R F D R G W F

UniRef90_D6PE33

UniRef90_I113D7 T G W L A G A T W M Y R H L L D G D L A S N M L S W Q W V A G T I T G K P Y L F

UniRef90_F5RA26 L D W R V T S L Y L A G L F T D Y E P G I H Y S Q V Q M Q S G T T G I N S I R

UniRef90_Q2A573 V K P E A L C D W Y L S V Y I D A Y E W V E L P N T L G M V L Y

UniRef90_UPI00035E639B F D P D E V Y R W F M D S Y D W V M V P N V Y G M S Q F A D G G L M A T K P Y I

UniRef90_A4C0K4 I D P D E I Y Q W F M E M Y D W V M V P N V Y G M S S F S D G G K M S T K P Y I

UniRef90_D7W3H0 L E W T N G I Y L N D K Y H I D G R D P N G Y V G C M W S I C G I H D Q G W I R

UniRef90_S8E7L9 W R P G A V I S D W F H R C Y E W M T A N V I G M S Q F A D G G R M S T K P Y N

UniRef90_A0A010YRW5 F D P D E V Y K W F M D S Y D W V M V P N I Y G M S Q F A D G G L M S T K P Y I

UniRef90_H6RHA7 L P W E L G A A H F L D Q L G D G D P A S N T L S W R W V A G L H T

UniRef90_UPI0003B3D027 Y S W Q S G A N F F K N L L D Y C P A S N T L G W R W V A G L Q T I G K P Y I

UniRef90_UPI0003B5174D I S P L E V I E N W F H A A F I D A Y D W V M Q T N V I G M G L F

UniRef90_UPI00034A9D40

UniRef90_R5PPA8
UniRef90_D7AMR1 R P V F G T I R F M
UniRef90_UPI0004746B0A E H I R R R Q T G G R F N P R G L A Q E A R V P R E T P M P P A Q L P R T I T A P
UniRef90_T0MJS1 R C S G K I R P M N Q P K H W Y S R M W N N E
UniRef90_UPI000441DDEA R A V F G K I R Y M N Y A
UniRef90_UPI0003D0B143 R N V F G K I R Y M N Y A
UniRef90_D3TMD1 R K I F G K I R Y M
UniRef90_B1ZG15 P V Y
UniRef90_MORNC4 Y M N Y A G C K R K F N V D G Y Y V K K L V G E T K K R K S D D H S S P A I
UniRef90_L2GL16 K P I Y G K R S M K S F K C P L Y I D T W
UniRef90_Q9YVK7 R P I F G K I R Y M
UniRef90_Q2XUS9
UniRef90_S7U1R6
UniRef90_A6FW14
UniRef90_UPI0004662F26 R P I F G K I R Y M N E K G A Y R K F H V K H Y
UniRef90_K4A8X2 R P V F G K I R Y M N Y A
UniRef90_H2TBM7 R P V F G K I R Y M
UniRef90_E8RV19
UniRef90_A0A022QT55 Y M N Y A G C K R K F D V D G Y Y V K K M V G E T K K R K A E T L L N G K A K E
UniRef90_A3YTZ4
UniRef90_C6XUB6 T F D L N K Q I K L L D
UniRef90_R4ZEC9 R N I Y G K V R Y M S Q D R M Y K K F N I Y E F Y D K I D K
UniRef90_A0A024MBE8
UniRef90_Q28N16
UniRef90_S7WYG4 G G S N Y I R K M S N Y P G G E W E E I W
UniRef90_G7WMK4 R E I F G K V R Y M
UniRef90_UPI0003B4E056 R P V F G S I R Y M
UniRef90_S7TH77
UniRef90_T1HKC6 R E I F G K I R Y M
UniRef90_UPI00036E0055 N Q E N I N K F F Y S D Q N G T F L D V A Y D T F N Q M E
UniRef90_A0A034W1A3 R P I F G K I R Y M
UniRef90_UPI000475DBD6
UniRef90_UPI0003739650
UniRef90_K8FE60 R E I F G K I R Y M
UniRef90_Q05QV7 N R D N
UniRef90_D5BRZ3
UniRef90_R9GP17
UniRef90_E6X7P7 N Q E N I N R Y C H T T Q S T T F L D V A Y E D F E N L S I P E V L T E T Y I P
UniRef90_UPI0004755023 R P I F G K I R Y M
UniRef90_C4V741 R D I T G K I R P L N A P K K H Y E K L W N D E
UniRef90_G9MR52 V V S P V H E A F E L D P N G S F V R K W M P E L R R L
UniRef90_Q9XHE2 Y M N Y N G C K R K F D I K A Y Y V S K A V A E A K A
UniRef90_A0LN00 F G T V R Y M A S G L E R K C D I K G Y V E E M K R L R A
UniRef90_B2IZA0 E R Y T E G V Y C Q K C P
UniRef90_I019Z7
UniRef90_UPI000380708E R P I F G K I R Y M
UniRef90_UPI00040525BC S G S N Y I M K M S N Y P K G K W Q E I W
UniRef90_Q3A105 R P V F G K I R Y M
UniRef90_G2H8X5 R P
UniRef90_E0TB60
UniRef90_D9QP60
UniRef90_R8ZM27 C G S N Y Y Q K M G N F P K G E W
UniRef90_UPI0003B571FF S G S N Y L L K M G D W K K G P W Q Q T W
UniRef90_A8G6H2
UniRef90_V7EL93
UniRef90_I0Z4K4 R P V F G K I R Y M
UniRef90_Q33BU1 R A V F G K I R Y M N Y A
UniRef90_B0SCI3 R N V F
UniRef90_B9TKL5 K F G G E S W C Q Q C R V T C P F E G T Y E Q L H Q Q L F T D A V V A K K P
UniRef90_N1W561 R N V F
UniRef90_Q7RKS9 R S V F G K I R Y M
UniRef90_A9NE57
UniRef90_I0IF15
UniRef90_Q2JVG2 A D G G M L S T K P Y A A S A Q Y I R K M S D Y C R H C
UniRef90_C1KCC9
UniRef90_F5Z7W0 A S S Y I N K M S N Y C K N C G Y Q V S K K T G P K A C P F N Y L Y
UniRef90_UPI00036E3060 S A S N Y L L K M S D F P K G E W Q E T W D G L F W R F M D K Y
UniRef90_F6D911 A D G G L M A S K P Y I A S G Q Y I N K M S G Y C Q H C P
UniRef90_A0A058ZHB5 S G S N Y I R K M S H Y P K G D W A E I W
UniRef90_L8XAW9 D G G Y S S F S Y Y I Y E P W L A P K S V Q R E A G C
UniRef90_J9EDA5
UniRef90_B3L6C9
UniRef90_G4FK85 S G S N Y V R K M S D Y K P G D W C G I W
UniRef90_S4TZQ6 R R F Q P R Q S E R F Y P D G D Y I R Q W A P Q L I D L D N
UniRef90_S3US93 R E I F G T V R Y M
UniRef90_UPI0003B6E472
UniRef90_A4YKG2
UniRef90_A0Q4V3 D G G Y L A S K P Y A A S G S Y I K K M S N Y C D K C H
UniRef90_M5TXH6
UniRef90_D6PE33
UniRef90_I113D7
UniRef90_F5RA26
UniRef90_Q2A573 I Y N P I K Q S I D Q Y P N V E F I R R W L P E L E N V S N E N I H T P
UniRef90_UPI00035E639B A D G G Y L G S K P Y C A S G K Y L D R M S D H C R Q C
UniRef90_A4C0K4 S G S N Y L M K M S N Y K K G E W Q A V W
UniRef90_D7W3H0 S G S H Y I K K M S D Y P D G E W A G Q W
UniRef90_S8E7L9 Y M N Y A G C K R K F D V D A Y H V K K L V S E L E S
UniRef90_A0A010YRW5 R M S D Y C G G C R Y D P K
UniRef90_H6RHA7 S S S N Y V Y K M S D F K K G E W D S T W
UniRef90_UPI0003B3D027
UniRef90_UPI0003B5174D A Q A D N I K F F T N A R F Y P R N Q L K E N Y I L N D K N I T N G K P
UniRef90_UPI00034A9D40 A D G G I L A S K P Y A A S A N Y I N K M S D Y C K S C

UniRef90_R5PPA8
 UniRef90_D7AMR1
 UniRef90_UPI0004746B0A
 UniRef90_T0MJS1
 UniRef90_UPI000441DDEA
 UniRef90_UPI0003D0B143
 UniRef90_D3TMD1
 UniRef90_B1ZG15
 UniRef90_M0RNC4
 UniRef90_L2GL16
 UniRef90_Q9YVK7
 UniRef90_Q2XUS9
 UniRef90_S7U1R6
 UniRef90_A6FW14
 UniRef90_UPI0004662F26
 UniRef90_K4A8X2
 UniRef90_H2TBM7
 UniRef90_E8RV19
 UniRef90_A0A022QT55
 UniRef90_A3Y TZ4
 UniRef90_C6XUB6
 UniRef90_R4ZEC9
 UniRef90_A0A024MBE8
 UniRef90_Q28N16
 UniRef90_S7WYG4
 UniRef90_G7WMK4
 UniRef90_UPI0003B4E056
 UniRef90_S7TH77
 UniRef90_T1HKC6
 UniRef90_UPI00036E0055
 UniRef90_A0A034W1A3
 UniRef90_UPI000475DBD6
 UniRef90_UPI0003739650
 UniRef90_K8FE60
 UniRef90_Q05QV7
 UniRef90_D5BRZ3
 UniRef90_R9GP17
 UniRef90_E6X7P7
 UniRef90_UPI0004755023
 UniRef90_C4V741
 UniRef90_G9MR52
 UniRef90_Q9XHE2
 UniRef90_A0LN00
 UniRef90_B2IZA0
 UniRef90_I0I9Z7
 UniRef90_UPI000380708E
 UniRef90_UPI00040525BC
 UniRef90_Q3A105
 UniRef90_G2H8X5
 UniRef90_E0TB60
 UniRef90_D9QP60
 UniRef90_R8ZM27
 UniRef90_UPI0003B571FF
 UniRef90_A8G6H2
 UniRef90_V7EL93
 UniRef90_I0Z4K4
 UniRef90_Q33BU1
 UniRef90_B0SCI3
 UniRef90_B9TKL5
 UniRef90_N1W561
 UniRef90_Q7RKS9
 UniRef90_A9NE57
 UniRef90_I0IF15
 UniRef90_Q2JVG2
 UniRef90_C1KCC9
 UniRef90_F5Z7W0
 UniRef90_UPI00036E3060
 UniRef90_F6D911
 UniRef90_A0A058ZHB5
 UniRef90_L8XAW9
 UniRef90_J9EDA5
 UniRef90_B3L6C9
 UniRef90_G4FK85
 UniRef90_S4TZQ6
 UniRef90_S3US93
 UniRef90_UPI0003B6E472
 UniRef90_A4YKG2
 UniRef90_A0Q4V3
 UniRef90_M5TXH6
 UniRef90_D6PE33
 UniRef90_I113D7
 UniRef90_F5RA26
 UniRef90_Q2A573
 UniRef90_UPI00035E639B
 UniRef90_A4C0K4
 UniRef90_D7W3H0
 UniRef90_S8E7L9
 UniRef90_A0A010YRW5
 UniRef90_H6RHA7
 UniRef90_UPI0003B3D027
 UniRef90_UPI0003B5174D
 UniRef90_UPI00034A9D40

N I E K

L R

R L E T T L P

V H H L N P P E P

L L G L D Y P A P M L D E K E E K N R N L E R M R A A Y Q A

L N F N R Y E E N L F N K N E

UniRef90_A3II31
UniRef90_C5BIV6
UniRef90_K9UYM7
UniRef90_D5SWH4
UniRef90_A9LH56
UniRef90_R7HZ37
UniRef90_MOEUB8
UniRef90_H8MR73
UniRef90_C7M2C5
UniRef90_D4TQ06
UniRef90_UPI000477C399
UniRef90_UPI00036F356A
UniRef90_UPI000463F51F
UniRef90_UPI000381E641
UniRef90_Q1GEA3
UniRef90_D8IX67
UniRef90_K2KHB5
UniRef90_A2C3R3
UniRef90_D4GX25
UniRef90_K9XN86
UniRef90_A6DFN0
UniRef90_Q4KT08
UniRef90_UPI0002557FD5
UniRef90_UPI0003B4A545
UniRef90_Q2S7E7
UniRef90_UPI000468AC4E
UniRef90_F7SIW1
UniRef90_U2UBF3
UniRef90_G7QP89
UniRef90_UPI00047739F1
UniRef90_E4NJP4
UniRef90_UPI00037E1DE6
UniRef90_UPI00037A0FA2
UniRef90_K6ZBB9
UniRef90_UPI000405CFFD
UniRef90_D2R5E5
UniRef90_UPI0003F7A7DB
UniRef90_UPI00034ADEC6
UniRef90_D2S7C5
UniRef90_UPI000381E3D0
UniRef90_B6B656
UniRef90_B1M118
UniRef90_UPI0003690A3C
UniRef90_UPI000255B8F9
UniRef90_I5C169
UniRef90_B8K4H2
UniRef90_UPI000378F7AF
UniRef90_F7RVQ7
UniRef90_A7HEQ8
UniRef90_Q9RIY1
UniRef90_B1Y5D0
UniRef90_UPI0004081474
UniRef90_B5JLQ7
UniRef90_UPI0003684F0F
UniRef90_UPI000422ABC7
UniRef90_M5TA86
UniRef90_M7YZC8
UniRef90_I7ZHE9
UniRef90_D5BN93
UniRef90_K5XTD3
UniRef90_A3X5Z8
UniRef90_F0SIK8
UniRef90_UPI000479EE20
UniRef90_Q1YU58
UniRef90_UPI0004779EF5
UniRef90_UPI000255A9CE
UniRef90_Q3IJ56
UniRef90_UPI00036A83E2
UniRef90_UPI000477ACE9
UniRef90_F9RMA4
UniRef90_A5F0H6
UniRef90_B0CG90
UniRef90_A4A626
UniRef90_UPI000345A90F
UniRef90_F3L425
UniRef90_L1IW67
UniRef90_F7S8R2
UniRef90_D5VJH2
UniRef90_F7YT42
UniRef90_F9SF46
UniRef90_Q1QZ55
UniRef90_UPI000380C4FC
UniRef90_U2FSW7
UniRef90_U1N4X8
UniRef90_Q2Q011
UniRef90_J9DCQ2
UniRef90_X7E8Z7
UniRef90_M5E033
UniRef90_UPI00026C789A
UniRef90_A0A031FTZ7
UniRef90_UPI00035D46E4
UniRef90_UPI00037A2740

UniRef90_A3II31 P Y I N L G L L R P L E V I I Q K I E K A Y H D F N Y P L N S V E G L I R Q I L L
UniRef90_C5BIV6 F Y L N G L L L P L E V I I Q A E A E N A Y R Q Q G A A P L N S V E G F I R Q I L L
UniRef90_K9UYM7 P Y L N I G L L H N P L E E V I I Q A A E T A Y Q Q E K I P L N S V E G F I R Q I L L
UniRef90_D5SWH4 V Y L N V K L L L N P R E E I Q Q V A V E T A Y Q A G H V D L N S A S T E G F V R Q I L L
UniRef90_A9LH56 A P L N M K L L L H P R E E C V V D A A V Q A Y R T G K A P L N S V E G F V R Q I L L
UniRef90_R7HZ37 K Y M N L G F L S S Q R A G L E V I I K S N A E D I N K E V F L E E L I I Q K E L
UniRef90_MOEUB8
UniRef90_H8MR73 P W F H W G N L F P G E A A R A A I A A K G K D H P A V Q S F V E E L L
UniRef90_C7M2C5 V A L N L G L L H P H E V V I E A V E R E A F R D G R V G L S S A E G F L R Q I L L
UniRef90_D4TQ06 P Y L N L G L L H P M E V I Q A V Q E E Y N K H Q R L N L N S V E G F L R Q I L L
UniRef90_UPI000477C399 P Y V T H G F I D I P G V I A R L S R R H A L T T D D K L V F E L
UniRef90_UPI00036F356A P Y L R R R L V L E Q D A V A T S L V H E H G A E G A E K F I Q E V
UniRef90_UPI000463F51F P Y L N I G L L S P L E I I C Q R V E D E W R A G R V P I N A V E G F I R Q I L L
UniRef90_UPI000381E641 P Y L S T R F V N E V E I V L K I A V S K T N V E S I E K F I D E I
UniRef90_Q1GEA3 P Y L N I G L L T P L E I I C E A A E V A H Q D G H A P L N A V E G F I R Q I L L
UniRef90_D8IX67 P Y L T H G M V L R D V L A G V C Q R Y P L E V Q H K F V Y E L
UniRef90_K2XHB5 P L I N L G L L G P Q E V C Q A A E E A Y H S G H A P L A A V E G F I R Q I L L
UniRef90_A2C3R3 K Y T S H R I L Y E F D I I T E K L K K Y D K K Q K Y T D E I
UniRef90_D4GX25 A A T N L G L L H P R E A V E A V E E A Y E R G D A P L N S A E G F V R Q I L L
UniRef90_K9XN86 P Y I R Y G V L S L A E I R D Y V L Q K V K H Q D E A T K L I N E L
UniRef90_A6DFN0 A Y L S R G L I S T R T V Y V M S L L K R G Y D L E K I E K F V Q E L
UniRef90_Q4KT08 P F Y H F G Q I S V Q R V D L H L N S L K I N K N D S G D Y I E E C F V R R E L
UniRef90_UPI0002557FD5 P L L N S G L L N P L E V V K K A I A Y G D Q N N I P I N S I E G F V R Q I L L
UniRef90_UPI0003B4A545 F A L N S K M I S P K E V I R A V I A N F H K N E D A I E L S Q V E G F F R Q I L L
UniRef90_Q2S7E7 F A L N T K M L Y P M Q V I D A V I A L E R Y E Q A E G D I S L P Q I E G F R Q I L L
UniRef90_UPI000468AC4E P Y L N I G L L T P L E V C Q A A E K A Y R N G D A P I N A V E G F I R Q I L L
UniRef90_F7SIW1 A A L N I G L L T P H E V C E A A E Q Q Y L A G H A P I N A V E G F I R Q I L L
UniRef90_U2UBF3 P F F H W G N L F P G E A A R A A I K A R G A K D P S V Q S F I E E L L
UniRef90_G7QP89 P Y I H F G H I S Q E E I V S E V L N W N L D G S W H P D P N V N S F L D E L I L
UniRef90_UPI00047739F1 V Y L N N G L L I D P K E A D K A E E A Y K N G S G A R L N S V E G F I R Q I L L
UniRef90_E4NJP4 V P L N L G L L D P G E C A C R R A E D A Y R S G S A P L N S V E G F V R Q I V A
UniRef90_UPI00037E1DE6 P Y L N A G L L T P R E V C D A A E E A Y A Q G T A P L N A V E G F V R Q I I
UniRef90_UPI00037A0FA2 V P L N L G L L D P A E V C V I A E E A Y R S G D A P I N S V E G F V R Q I A
UniRef90_K6ZBB9 L Y L N T G L L M P Y E V I Q A A E E A F L N G H V P I N S A E G F I R Q I L L
UniRef90_UPI000405CFFD F A M N S K M L S P K E V I E T V V D F Y H E N K E A I T I S Q V E G F R Q I L L
UniRef90_D2R5E5 P W L H F G H V S V H D I A R R A L A R E S W S H A K E G F L D E L I T W R E I
UniRef90_UPI0003F7A7DB P M L N T G L L T P E Q V I T R T L E I S E A Y D I P I N S L E G F I R Q I V I
UniRef90_UPI00034ADEC6 P Y L N L G L L T P R E I D A V E T A Y Y Q R E L P I N S V E G F I R Q I V M
UniRef90_D2S7C5 P A V N L G L L D N P R E E V H A A E Q R Y R D S V A E G D N S V E G F V R Q I V M
UniRef90_UPI000381E3D0 S A M N L K L L N P R E V I V A A E Q A Y L D G H V P L G C A E G F I R Q I L L
UniRef90_B6B656 Q Y I N A G L L E P L E V C R R V E R A Y Y E G D A P L N A A E G F I R Q I I L
UniRef90_B1M118 A P L N A G L L T A E E V C W A A E R A Y R D G V A P L H C V E G F I R Q I L L
UniRef90_UPI0003690A3C P A L N L G L L H P A E C V I W A E R A E R L R S G D A P L N S V E G F V R Q I A
UniRef90_UPI000255B8F9 F A L N S K L L H P Q E V I D K A I E H W R A H K S E I D I S Q I E G F R Q I L L
UniRef90_I5C169 F A L N S K L I S P L E V V R Q V E K Y W M G H E Q V D I A Q A E G F R Q I L L
UniRef90_B8K4H2 F A L N S K L I S P L E V V T S A I T Y F E K A N G D I S L A Q I E G F R Q I I
UniRef90_UPI000378F7AF P M L N I G L L T P Q L V L D A A K A F I V T K D I P M N S A E G F L R Q I V I
UniRef90_F7RVQ7 F S L N T K M L S S P K E V V E A A L A A Y E E N P T L T S L A Q V E G F R Q I L L
UniRef90_A7HEQ8 P W L H F G H V S S F E V V R A V L R R E G W S G W G V S A A E A F L D Q L
UniRef90_Q9RIY1 S T L N L G L P L D P V E C V E R A E R A W R E G R A P L N S V E G F V R Q I A
UniRef90_B1Y5D0 P Y L T H G L I T P L E V L A G V L Q R E R L E V R H K L V F E L
UniRef90_UPI0004081474 F S L N T K M I S P G E V I N T I L L D Y Y D H K D E I D I S Q V E G F R Q I L L
UniRef90_B5JLQ7 S S I N L K L L D P R E V V D A A V A A Y E S G H A P I E S V E G F V R Q I L L
UniRef90_UPI0003684F0F F A L N T K M M S P K E I V D A A L Q T Y R E R N S D E I D I S Q V E G F R Q I L L
UniRef90_UPI000422ABC7 F S L N L K L L H P L E V I V Q K S V H Y W E Q N Q N T I S I A Q I E G F R Q I L L
UniRef90_M5TA86 A Y L H Y G M V S P F R L A R A T N D P A T Q D P G S Q N P A A Q K F L D E F L
UniRef90_I7YZC8 P Y L R R R L L T A E A E V A T A A V A A L G A A G A E A F V T E V
UniRef90_I7ZHE9 A A M N L K L L D P R E V C A T A I E A Y R N K R A P L A A V E G F V R Q I L L
UniRef90_D5BN93 F Y L N A G L L T P L E V T K A V E Q E Y H N G N A P L N A V E G F I R Q I L L
UniRef90_K5XTD3 L Y L N C G L L T P G E C I A A A E R A W R A G D V P L N A A E G F I R Q I L L
UniRef90_A3X5Z8 P V L N I G L L T P R Q V L D T I A Y A E R K D I P L N S V E G F L R Q I I L
UniRef90_F0SIK8 A C L N L K L L N P R E C I L A V E A Y E N G D A P L N S V E G F V R Q I L L
UniRef90_UPI000479EE20 A Y I N A G L L G P V E V C E K A E A A Y R A G E A P L N A V E G F I R Q I L L
UniRef90_Q1YU58 L Y L N C K I L H P M Q V I D A A L K R F S E T D S G V D L A Q V E G F R Q I L L
UniRef90_UPI0004779EF5 T A L N L H L I H P R T V I D A A E Q A W R D G H A P L A A V E G F V R Q I M
UniRef90_UPI000255A9CE P A L N A G L L D P A R E V C D A V I Q A A W E A G E V P L N S A E G F I R Q I V I
UniRef90_Q3IJ56 F A L N A K L L H P L F V I K R V I A Q Y E Q R P N D I S I A Q V E G F R Q I L L
UniRef90_UPI00036A83E2 F Y L N C G L L L P Q E A I E Q A E A A Y Q A G A A P L N S V E G F I R Q I L L
UniRef90_UPI000477ACE9 F A L N T K M L N P R E V V I D A A L E A Y R R Q G H A P L A A V E G F I R Q I L L
UniRef90_F9RMA4 F S L N S K L L S P A E V I D A A L E A Y R R N S D I D I A Q V E G F I R Q I L L
UniRef90_A5F0H6 F A L N S K L L S P R E V I E A T I S A Y R A A Q G Q I S L A Q V E G F R Q I L L
UniRef90_B0CG90 P A L N I G L L H P E I V Y Q Q T L D R H A E R P I P L N S L E G F I R Q I L L
UniRef90_A4A626 M Y L N I G L L E P L A V C Q A V E A A W R R G D C S L S G A E G F I R Q V L
UniRef90_UPI000345A90F P Y L T H G V L T L P E A H A G I A A R H R L E P Q H K L V Y E F
UniRef90_F3L425 L Y L N A G L L E P A D V C H Q A E A A Y R A G S A P L A A T E G F I R Q I L L
UniRef90_L1IW67 P Y L N Q F Q I L S P V R I A M K A R E F A S K F P E H R Q D V D V F L E E L
UniRef90_F7S8R2 P W L R H R L L T E A E V A R A A F A H G E A A K F L E E V
UniRef90_D5VJH2 P A L N I G L L D P L D I C R A E A A W R E N G R A P L N A V E G F I R Q I I L
UniRef90_F7YT42 F A L N C K L L S P A E V I I Q S A L M R F E N D T M D L A Q I E G F I R Q I L L
UniRef90_F9SF46 F S L N S K L L S P A E V I D A A L S A Y H A S S K Q G A P S I D I F I R Q I L L
UniRef90_Q1QZ55 A A L N I G L L S P G E V C E A A Q D A W Q G G E A P L N A V E G F I R Q I L L
UniRef90_UPI000380C4FC V P L N I G L L D P V E V A D R A A Q D A Y R D G D A P L A A V E G F V R Q I L L
UniRef90_U2FSW7 F A L N V K M L N P R E V V A R A E H A Y H S G A A P L A A V E G F I R Q I L L
UniRef90_U1N4X8 A A I N I G L L T P D R V V Q A A I A S D A P L A S V E G F V F R E H
UniRef90_Q2Q01 P W L H H G M I A A T R V R D A A N S P T K G A Q K F L D E M L V F R E H
UniRef90_J9DCQ2 P W I L S G Q I S Q S L A L Y I C K K Y P I D D E N T Q D F L N E I F I W K E T
UniRef90_X7E8Z7 F A I N C K L I S P K H V I K A A M N A Y S E N D E I D I A S Q I E G F V R Q I L L
UniRef90_M5E033 S S L N I G L L N P K Q V V D K V L D F Y S E N E I P L A S Q I E G F V R Q I L L
UniRef90_UPI00026C789A F Y L N A G L L L P K E L C H M A E Q A Y L K Q Q A P L N S V E G F I R Q I L L
UniRef90_A0A031FTZ7 S S M N L K M L T P R E V V A A A E A A Y R D K K A P L A V A E G F I R Q I L L
UniRef90_UPI00035D46E4 P Y I N V G L L H A E E V V A A A M A R F N Q G G I P L A S A E G F I R Q I L L
UniRef90_UPI00037A2740 F A L N T K M L H P K Q V I D K A I K A W Q E N P D A I S L A Q I E G F R Q I L L

UniRef90_A3II31
UniRef90_C5BIV6
UniRef90_K9UYM7
UniRef90_D5SMH4
UniRef90_A9LH56
UniRef90_R7HZ37
UniRef90_MOEUB8
UniRef90_H8MR73
UniRef90_C7M2C5
UniRef90_D4TQ06
UniRef90_UPI000477C399
UniRef90_UPI00036F356A
UniRef90_UPI000463F51F
UniRef90_UPI000381E641
UniRef90_Q1GEA3
UniRef90_D8IX67
UniRef90_K2KHB5
UniRef90_A2C3R3
UniRef90_D4GX25
UniRef90_K9XN86
UniRef90_A6DFN0
UniRef90_Q4KT08
UniRef90_UPI0002557FD5
UniRef90_UPI0003B4A545
UniRef90_Q2S7E7
UniRef90_UPI000468AC4E
UniRef90_F7SIW1
UniRef90_U2UBF3
UniRef90_G7QP89
UniRef90_UPI00047739F1
UniRef90_E4NJP4
UniRef90_UPI00037E1DE6
UniRef90_UPI00037A0FA2
UniRef90_K6ZBB9
UniRef90_UPI000405CFFD
UniRef90_D2R5E5
UniRef90_UPI0003F7A7DB
UniRef90_UPI00034ADEC6
UniRef90_D2S7C5
UniRef90_UPI000381E3D0
UniRef90_B6B656
UniRef90_B1M118
UniRef90_UPI0003690A3C
UniRef90_UPI000255B8F9
UniRef90_I5C169
UniRef90_B8K4H2
UniRef90_UPI000378F7AF
UniRef90_F7RVQ7
UniRef90_A7HEQ8
UniRef90_Q9RIY1
UniRef90_B1Y5D0
UniRef90_UPI0004081474
UniRef90_B5JLQ7
UniRef90_UPI0003684F0F
UniRef90_UPI000422ABC7
UniRef90_M5TA86
UniRef90_M7YZC8
UniRef90_I7ZHE9
UniRef90_D5BN93
UniRef90_K5XTD3
UniRef90_A3X5Z8
UniRef90_F0SIK8
UniRef90_UPI000479EE20
UniRef90_Q1YU58
UniRef90_UPI0004779EF5
UniRef90_UPI000255A9CE
UniRef90_Q3IJ56
UniRef90_UPI00036A83E2
UniRef90_UPI000477ACE9
UniRef90_F9RMA4
UniRef90_A5F0H6
UniRef90_B0CG90
UniRef90_A4A626
UniRef90_UPI000345A90F
UniRef90_F3L425
UniRef90_L1IW67
UniRef90_F7S8R2
UniRef90_D5VJH2
UniRef90_F7YT42
UniRef90_F9SF46
UniRef90_Q1QZ55
UniRef90_UPI000380C4FC
UniRef90_U2FSW7
UniRef90_U1N4X8
UniRef90_Q2Q011
UniRef90_J9DCQ2
UniRef90_X7E8Z7
UniRef90_M5E033
UniRef90_UPI00026C789A
UniRef90_A0A031FTZ7
UniRef90_UPI00035D46E4
UniRef90_UPI00037A2740

90 100 110 120
G W R E Y M Y G I Y Q L M D D D Y R D K N W F D H Q E K L P E F Y W D S S
G W R E F V R G I Y W K M P G Y G K E N F L N A K R K L P P L Y
G W R E Y M H G L Y H Y V E A S Y F Q E N Y F E H T H P L P E F F
G W R E F I R G I Y W H M P R Y A E L N F F E H Q Q P L P S F F
G W R E F I R G I Y W L K M P E Y V E L N H F D H Q R E L P S F F
S D N F C L Y C R N Y K T L D C I P L W A K N S L M E H E N D L R V Y N Y K D F
V R R E L G F N Y C F H T P D S L P P W A R E T L S R H R K D P R P H S F E E L
G W R E Y V R G F Y W W Q G P T Y R S Q N A L G A E R P L P P A L
G W R E Y M R G V Y M Y E S K R D L N Y T Q R N W F D H N Q P L P H W F
A W R E Y F Q H V W R H L D E G V F E D R R P P P A S C Y G E V L P D D V
I W R A Y F K G W M E R R P V V W D Q Y R R D L A V L D R D R S L R R R L E A A
G W R E Y M R G I Y F L E G P D Y P R R N I L N H Q R R R L P D L F
F W K T Y W K G W L J E T H P W V Y D E Y I K S N R V Q K V P S
G W R E Y V R G I Y F L E G E D Y P T R N A L E Q T R A L P A L Y
G W R A F Y R Y V F S R R G A R I F D S L H A G P L P E A A Y A R E L P D D I
G W R E Y V R G V Y W T L M P G Y K A N N A L A S T R P L P D F Y
L W R I Y W K G Y L E N Y K S I W F E Y I N F K E N S N N S Y L I S S A
G W R E F V R H V Y R R S M P E L A E A N Q L D Q T E P L P E A Y
G W R D Y W Q R L Y V K L G N G I W E D Q E P Y K T G Y K E E Y Q Q E L P E D I
A W R D Y W Q S Q W N Y H G A K I N H D L R H S Q M A Y N K H G M P S R L
A D N F C F Y N S N Y D T F L G A P N W A K E T L V I H K S D S R Q Y I Y S Q F
G W R E F V R G V I A K G S F S R T H N F W K F K R K I P Q S F
G W R E Y V R G I Y W K E M P E Y K T K N G L E N T G K L P D Y F
G W R E Y V R G V Y W A N M P E Y M Q S N A L D A G R R L P H Y F
G W R E Y V R G I Y F E G P E Y A A R N V L K Q K R D L P A M Y
G W R E Y V R G L Y W T Q M P A Y K R E N Q L G F E R E L P A F Y
V R R E L G F N Y C Y H T P G P L P W A R E S L T K H Q K D A R E H R M K Q L
T W R D V G F L M F W K K P S F D W I Q K N L D F H K N D V R P Y I Y T K E Q L
G W R E Y V R L Y E A M M P E V R E A N H E N F T R K L P E M Y
G W R E Y V W Q L Y W Y L G E E H R H R N A L G H H A P L P D W F A E L D A D A
G W R E Y V R G I Y W K M P D Y R E T N F L G A D A K L P D L Y
G W R E Y V R H L Y W H F G E D Y R H R N A L R H T T P L P D W F L D L D A D A
G W R E Y V R G F Y W Y F M P S L K E N N Y L E A K R A L P D F
G W R E Y V R G I Y W K E M P N Y S K M N E L E N H N K L P D F Y
G F N F C S R N D N F D Q D E S L P T W V Q K T L D K H A V D P R P N L Y D Q F
G W R E F M Y G L Y E S I G R K Q R T S N F W G F K R K I P S F
G W R E Y M H G I Y H F Q D E N Y S Q S N W F E H H Q P L P E F F
G W R D Y I W H T Y W H F G R D F R H A N A L A A H E A V P D W L A D L
G W R E F V R G V Y W M P A L K S A N Y F Q H Q Q D L P G W F
G W R E Y V R G I Y W N M P G Y T E Q N F L K A T R A L P G F Y
G W R E Y V R G L Y W R M P G Y R D S N A L G A G R D L P W F Y
G W R E Y V Q Q V Y W H F G A D Y R H R N E L R H T R L P R W F L E L D A D A
G W R E Y M R G I Y W K S M P G Y R R C N R L Q N Q K A L P D F Y
G W R E Y M R G V Y W K M P D Y E Q L N Y F G H E R A L P K W F
G W R E Y I R A V Y W A N M P Q Y K T R N H F D A K R P L P N Y F
G W R E F M R A T Y E D I G V P M R T T N H W G H T R S L P E S F
G W R E F V R L I Y W R E M P S Y K T L E A H F Q H E N P L P E F Y
V W R E L G F A T C A H R A D H L P A W A R A T L E A H A G D P R P H A Y D R D
G W R E Y V W Q L Y W Y F G E G Y R R S N A L G H T A P L P D W W N R L
G W R E Y F R H A W G H A G D A I L Q S L H T G P R P D E T C A P V L P A D I
G W R E Y M R G I Y W K E M P G Y K R T N K L R N Q K Q L P E F Y
G W R E F V R G I Y A F M P E Y L E R N A L G A R E P L P S F Y
G W R E Y M R G M Y W K M P D Y K Q E N F L E N K N K L P D F F
G W R E Y M R G I Y W K M P E F A S M N F F G H N R K L P S W F
I W R E M S F H F C E L H A E K L D C P G W A Q E T L C D H S K D K R E H P R D
F W R T Y F K G H L E T H P E A W T R Y L S D L A E A R A R L A A E P T Y E A A
G W R E Y V R G L Y W Q R M P E F A E D N E L G A D Q P L P W L Y
G W R E F I R G I Y W K M P G Y A A L N Y L E A S R P L P A L F
G W R E Y V R G L Y W K M P D Y A A Q N A L G A T R P L P S F Y
G W R E F M R A T Y A D L G V T M R Q T N H W G H H R P M P K S F
G W R E F V R G I Y W T H M P E Y A E K N Y F D H D R E V P S F F
G W R E Y I R G V Y W L K G P D Y A K T N H L N A S G K L P D F Y W D P D
G W R E Y V R A V Y W V N M P D Y A K G N S F G A E R D L P D Y F
G W R E Y V R G L Y F H F G E A W H D W N A L G A D Q P L P A L Y
G W R E Y V R G I Y F L E G P D Y P R R N A L N H Q R A L P P L Y
G W R E Y V R A L Y W N M P D Y A T K N Q L K A K N T L P P Y F
G W R E F V R G F Y W H M P G L D K D N Y F N A T R D L P S F F
G W R E Y V R G V Y W K M P Q Y A A H N Y F G H D R P L P S W F
G W R E Y I R A V Y W A N M P N Y Q T L N A L D A T Q A L P H Y F
G W R E Y V R G M Y W N M P H Y Q T R N H L G A Q R P L P S Y F
G W R E Y V R G V Y L L K G R T Q R T T N F F Q H Q R P L P E D F
G W R E Y V R G V Y W H M P D Y A K R N T F D A K R S L P A W F
G W R E Y F H H V W E R R G E A I L D S L H A G P L P D S T Y A D T L P A D I
G W R E Y V R G I Y W Y H M P R Y A T L N T W N A A R P V P S W F
I R R E F A V R I V L W N P S Y D S A D S C P R D H A H E K R T H T Y T E Q L
G W R T Y W K G W L J E Q R P G V Y D I Y R A E N R L A T E E G L R R A F H D A
G W R E F V R G V Y W K M P E Y G L R N A L E A E G K L P W F Y
G W R E Y I R G I Y W A N M P Q Y A K H N A L D A Q R P L P H Y Y
G W R E Y I R A V Y W A N M P A Y A T K N H Y S A D R A L P H Y F
G W R E Y V R G I Y W H M P A Y K R E N Q L G A T R G L P R C Y
G W R E Y V R H L Y W H F G P T Y R R R N A L Q A R S P L P D W F D R L
G W R E F V R G V Y W A R M P G Y E N S N A F G H R R P L P H W F
G W R E Y M R A V Y V A S M P G Y E S V N T F K H E R D L P H Y F
A Y H H A H E V D N P L E W R H L P G W A R E S W Q N T C L V K Y P L W M D L
A E H F C R N E C N Y D N L K G A S T W A V I E T L D A H K N D K R S E I C T E L
G W R E Y V R G M Y W V N M P N Y Q E Q N A L N A E R A L P S Y F
G W R E Y V R A L Y Q L E S E N M I K S N F F K H Q R N F P P K F
G W R E Y I R G I Y W H F M P A Y K E M N H F H A T R D L P A L
G W R E Y V R G I Y W Q M P G Y L E R N A F E A F E P L P D F Y
G W R E Y I N G L Y W H F G D L Y R N E N A L A F E R P L P L F T D S T
G W R E Y I R G V Y W N M P D Y E S L N F L K A E K D L P E W F

UniRef90_A3II31 Q T D M N C L K Q V L Q Q V E T G Y G H H I I Q R R L M V L M S N F A L I V I G
UniRef90_C5BIV6 W G A P T N M N C C L S Q Q T C V S E Q T R Q H A Y A H H I I Q R R L M V L M S N F A L I V I G
UniRef90_K9UYM7 WT G E T E N M N C C L H R E S F K V L H K H G Y A H H I I Q R R L M V L M S N F A L I V I G
UniRef90_D5SWH4 WD G Q T E M V C C V L H R E S M Q Q V L D H G Y S H H I I H R R L M V L L G N F A Q L W G
UniRef90_A9LH56 WD G D T E M S C C V K Q S M Q Q V L D H G Y S H H I I H R R L M V L L G N F A Q L W G
UniRef90_R7HZ37 E N A K T H D R L W N A A Q M R C L R N E T G R L N F R M R A L C A S V Y F H V L Q
UniRef90_MOEU8 D Q G R T Q D A L W N A S Q R E L R E R G R I H N Y L R M L W G K K I L E W S P
UniRef90_H8MR73 A T G R T R M R C C V R T T L E E G V E R H G Y A H H I I Q R R L M V L L A N L G T L T G
UniRef90_C7M2C5 WT G T T D L N C C L H R E S F K V L H K H G Y A H H I I Q R R L M V L L S N F A L I V I G
UniRef90_D4TQ06 R A A R T G V P V V D H A V R T L Y A T G Y L H N H A R M W L A S Y V V H L R K
UniRef90_UPI000477C399 E A G Q S G L N Y F D S W A E E L V E E Q T R D E A Y A H H I I Q R R L M V T G N F A L I A G
UniRef90_UPI000463F51F W G A E T G M E C L K C A V A Q T R D E A Y A H H I I Q R R L M V T G N F A L I A G
UniRef90_UPI000381E641 K T G I K C C F D Y W K D E L N T G Y L H N H S R M W F A S I W I F T L G
UniRef90_Q1GEA3 W G A E T D M H C C L S Q A A V R E Q T G Q A Y A H H I I Q R R L M V T A S Y N F A L L A G
UniRef90_D8IX67 R A G A T G V P V I D Q A V R E T L Y A T G N L H N H A R M W L A S Y V V H L R K
UniRef90_K2KHB5 WT G Q T Q M R C C M H E A L R E N S L D N G Y A H H I I Q R R L M I T G N F A L I A G
UniRef90_A2C3R3 I N G K T G I D C C F D T W I E E L R E R N N Y L H N H A R M W F A S I W I F T L G
UniRef90_D4GX25 WT G E T D M N C C L S E A V I G H V R D R G Y A H H I I E R L M V L S N F A L V I G
UniRef90_K9XN86 A H G T S K R V C I D S F S R D L R E T G Y L H N H M R M W L A A Y I V H W R R
UniRef90_A6DFN0 V D E K C S I Q L V F N T A L K T R T G Y L H N H M R M Y L A M S T C N I G G
UniRef90_Q4KT08 E H N Q T H D E L W N A A Q R Q L R N E G K I H G Y L R M Y W A K K I L E W T Q
UniRef90_UPI0002557FD5 Y K G T T G I E P V D I A V K K A L K T G Y C H H I I E R L M V L G N F M L L C E
UniRef90_UPI0003B4A545 WT G K T K M K C L Q H A L V S Q S L D T A Y A H H I I Q R R L M V L G N F T L L T Q
UniRef90_Q2S7E7 WD G D T H M R C C V L K V L V G S Q S L Q Y A Y A H H I I Q R R L M V T G N F C L L T G
UniRef90_UPI000468AC4E W G A E T K M A C C M E A A I G Q T S R E A Y A H H I I Q R R L M V T G N F A L L A G
UniRef90_F7SIW1 WD G N T D M R C C L Q R A L Q M T I D N S Y A H H I I Q R R L M V T G N F A L L C G
UniRef90_U2UBF3 E T A R T E D G L W N A A Q K E L V L S G C M Q N Y L R M L W G K K W S P D Y Q
UniRef90_G7QP89 E N S K T H D V I W N A A Q K E L V L S G C M Q N Y L R M L W G K K W S P D Y Q
UniRef90_UPI00047739F1 W S G E T R M N C C L S E C L K P V I E N G Y S H H I I P R L M V L S N F S N L T E
UniRef90_E4NJP4 V R A R E T D M N C C L S G A L V A Q V R D T G W V H H I I P R L M V L G N W A L Q H
UniRef90_UPI00037E1DE6 W T A E T D M N C C L S T V L G A D T R D H A Y A H H I I Q R R L M V L G N F A L L A G
UniRef90_UPI00037A0FA2 V T A N C C L S T V L G A D T R D H A Y A H H I I P R L M V L G S R A L Q D G
UniRef90_K6ZBB9 WT G K T R M N C C L S Q C V A N D T K D E H A Y A H H I I Q R R L M V L G N F A L L T G
UniRef90_UPI000405CFFD WT G K T K M N C C M Q K A L S Q S L E E A Y A H H I I Q R R L M I I G N F S L L T Q
UniRef90_D2R5E5 E S T T H D L W N A A Q R Q L V R E T G R I H N Y M R M L W G K K I L E W S T
UniRef90_UPI00037A7DB Y T G D T G I E P I D T T K K L L K T G Y A H H I I E R L M V F G N F M L L C E
UniRef90_UPI00034ADEC6 D A S K T D M N C C L H Q T L T Q V E E T A Y G H H I I Q R R L M V L G N F A L I A G
UniRef90_D2S7C5 D D G A V D A A C C L M S D V L G G D L R R D G W V H H I I P R L M V L G N Y A L Q R G
UniRef90_UPI000381E3D0 WT G D T H M A C C L S Q C I G Q T L R T G Y A H H I I Q R R L M V I G L F S T L A Q
UniRef90_B6B656 WT A E T D M A C C C V A A V I G Q T R D E A Y A H H I I Q R R L M V T G N F A M L A G
UniRef90_B1M118 W S G E T A L N C C L S V A Q V V G E T R A H A Y A H H I I Q R R L M V T G N F A L I A G
UniRef90_UPI0003690A3C V R A R C C C L S T V L A Q V R D T G W T H H I I P R L M V L G S H A L Q H
UniRef90_UPI000255B8F9 W S G D T D M H C C L H H A I R N S L D N A Y A H H I I Q R R L M V T G N F A L L A Q
UniRef90_I5C169 WT G D T K M H C C L R N H A I V G S L E E A Y A H H I I Q R R L M V T G N F L L A G
UniRef90_B8K4H2 WT G K S G M N C C L R Q A V I G Q S L E H A Y A H H I I Q R R L M V T G N F T L L A G
UniRef90_UPI000378F7AF WT G E T G I G P I D D V I K R I L K T G Y C H H I I E R L M V L G G F M F I C E
UniRef90_F7RVQ7 W N A D T K M N C C V K H A V E Q S L E T A Y A H H I I Q R R L M I T G N F G L L A G
UniRef90_A7HEQ8 D A A R T H D P L W N A A Q R Q L R V E G V I H N A L R M L W G K K I L E W S P
UniRef90_Q9RIY1 D A D A V R A N C L R T V L A Q V R D T G W T H H I I P R L M V L G S H A L Q R G
UniRef90_B1Y5D0 R Q A R T G V P V I D E A V R T L Y A T G T L H N H A R M W L A S Y V V H L R H
UniRef90_UPI0004081474 W T A D T K M N C C I H H A I I N S L E N A Y A H H I I Q R R L M I T G N Y A L L T Q
UniRef90_B5JLQ7 WD G E T E M N C C T R E V V T Q T M K Y G Y A H H I I Q R R L M V T G L Y A L L H G
UniRef90_UPI0003684F0F WT G K T K M N C C L K N A I N G S L D N G Y A H H I I Q R R L M I T G N F A L L T Q
UniRef90_UPI000422ABC7 WT G Q T K M A C C L R H S L I N G S L E Y A Y A H H I I Q R R L M T G N F M L L T G
UniRef90_M5TA86 W E G K T E I A L W D A A Q R S L V R H G E L H N N V R M T W G K A F L P M T K
UniRef90_M7YZC8 V D G R A G L D G F D T W A R D L V A T G W L H N H A R M W F A S I W I F T L R
UniRef90_I7ZHE9 W N A Q T H M K M C C M A Q T V G Q T L K L G Y A H H I I Q R R L M V T G L F A L L G
UniRef90_D5BN93 WT G D T R M N C C M R Q S I S Q T A R Y A Y A H H I I Q R R L M V L G N F A L L T G
UniRef90_K5XTD3 WD A G T E M N C C L R Q C V I R T R D H A Y A H H I I Q R R L M V L G N F A L L A G
UniRef90_A3X5Z8 Y S G T T G I A P L D D T I Q R V L A T G Y C H H I I E R L M V L G G F M F L C E
UniRef90_F0SIK8 WD G E T D M R C C V R E S M S H V V N H S Y A H H I I H R L M V L G N L S Q T V G
UniRef90_UPI000479EE20 K T D M A C C V S E A V R H T R D H A Y A H H I I Q R R L M I T G N F A L L A G
UniRef90_Q1YU58 WT G E T K M A C C M K Q A I V D Q S L E Y A Y A H H I I Q R R L M V T G N F A M L A G
UniRef90_UPI0004779EF5 W D A D T S M Q C C L H Q A V I G Q T L K F G Y A H H I I Q R R L M V T G L F A Q L L G
UniRef90_UPI000255A9CE W G A P T Q M A C C L S A A I G C E S L T T A Y A H H I I Q R R L M V T G N F A L L A G
UniRef90_Q3IJ56 W H A K T K M N C C M H A L C E S L T T A Y A H H I I Q R R L M V T G N F C L L T A
UniRef90_UPI00036A83E2 WD G Y T N M N C C M R Q C I T Q T K Q N A Y A H H I I Q R R L M V I G N F S L L T E
UniRef90_UPI000477ACE9 WT G E T R M N C C L A A A I S Q S L Q Y A Y A H H I I Q R R L M V I G N F A L L A G
UniRef90_F9RMA4 WD G E T K M S C C L H H A A I S Q S L D Y A Y A H H I I Q R R L M V T G N F C L I T E
UniRef90_A5F0H6 W N G Q T K M R C C L Q Q A L T Q S L D F G Y A H H I I Q R R L M V T G N F A L L T E
UniRef90_B0CG90 W D A N T D I L P F D S A M A R V L D N S Y A H H I I E R L M V F S N L F A L L C E
UniRef90_A4A626 W S G D T D M R C C L S Q A L K S L D L G Y A H H I I Q R R L M V I G N F A L L A G
UniRef90_UPI000345A90F R Q G R T G V P A I D R A V A T L Y A T G Y L H N H A R M W L A S Y V V H L R K
UniRef90_F3L425 W S G N T Q M R C C L K S L A T G Y A H H I I Q R R L M V T G N F S L L A G
UniRef90_L1IW67 E Q G R T H D Q Y W N A A Q F E M I T G K M H N Y M R M Y W A K Q V I L W M D
UniRef90_F7S8R2 C A G R T G I D C F D S W A R E I V A R N Y L H N H A R M W F A S I W I F T L R
UniRef90_D5VJH2 WT G E T D M A C C V A Q A V T S A R D H A Y A H H I I Q R R L M V T G N L A M L L G
UniRef90_F7YT42 WT G D T R M H C C V I T Q S L E F S Y A H H I I Q R R L M I T G N F A L L S G
UniRef90_F9SF46 WD G Q T K M H C C M K H A I D Q S L E Y A Y A H H I I Q R R L M V T G N F C L I T G
UniRef90_Q1QZ55 WD G D T D L R C C L Q R A I E M T H D N A Y A H H I I Q R R L M V T G N F A L L C D
UniRef90_UPI000380C4FC D A D A V E A A C C L K D A V A G V R D R G W V H H I I P R L M V L G N F A A Q R G
UniRef90_U2FSW7 WD G R T R M A C C M S H A L R Q S L E D A H A H H I I L R L M V I G N F A L L A G
UniRef90_U1N4X8 W D A E T D M H C C V H Q S V K P V I E R A H N H I I Q R R L M V L G N F A T L F E
UniRef90_Q2Q011 E R G N T D P L W N A A Q T G I V R H G V M H N N V R M T W G K Q T V R W V D
UniRef90_J9DCQ2 E K L K T K N I E W N A G M N E L K S T G R M H L Y V F I Y W C K H L L F M T K
UniRef90_X7E8Z7 WT G D T K M H C C L S A T I G Q S L D Y A Y A H H I I Q R R L M V T G N F C M L T E
UniRef90_M5E033 Y Q A E S G I E V L D D S I I K A V N Y A Y A H H I I E R L M V L G N F F L L C E
UniRef90_UPI00026C789A F W G D T K M F C C V K E V V R Q T S V E A Y S H H I I Q R R L M I T G N F A L L A G
UniRef90_A0A031FTZ7 WT G D T A M A C C L Q D A I G R D T L A N G Y A H H I I Q R R L M V T G L Y A M L L G
UniRef90_UPI00035D46E4 K T E M K C C V L T Q V I R D T L E A R A W V H H I I P R L M V L S N L A L I T G
UniRef90_UPI00037A2740 WT G Q T Q M S C C M H H A I T Q S L I Q Y A Y A H H I I Q R R L M I T G N F C L L A G

UniRef90_A3II31 V S P Q A I N D W F H S A F I D G Y 170 180 190 200 D W V M V P N V I G M G Q F
UniRef90_C5BIV6 L A P D E V N E W Y L I V Y A D A Y E W V E L P N V S G M I L F A
UniRef90_K9UYM7 F S P Q E V E N W F H G A F I D G Y D W V M Q T N V I G M G L F
UniRef90_D5SMH4 A H P Y Q F H Q W H M A M Y L D A I D W V S L P N T L G M S Q F
UniRef90_A9LH56 V H P R L F H E W H M A M Y V D A I D W V S L P N T L G M S Q F
UniRef90_R7HZ37 S P Q T A A I Y L N D K Y S Y D S P S P S G Y A G L L W A L G A L H D R A F R N
UniRef90_M0EUB8 Q P W R I G A D H F Y E H L I D G D P A I N Y T Q R Q S Q C G L V G R P G L R L
UniRef90_H8MR73 T P E E A
UniRef90_C7M2C5 V Q P A A M L D W M W E R F E W V M V P N V I G M G L W A D G G V M A T K P Y R
UniRef90_D4TQ06 T S P Q S V V D W F H A V F I D A Y D W V M Q T N V I G M G L F
UniRef90_UPI000477C399 T H W R V G A D W M Y R H L L D G D L A S N T L S W Q W V A G T L T G K P Y L F
UniRef90_UPI00036F356A L P W R L G A D F F E T H L L D G D A A S N T L G W R W V A G L H T R G K P Y H
UniRef90_UPI000463F51F V N P A E V H E W Y L A V Y F E W V E A P N V V G M S Q F A D G G I V G S K P Y
UniRef90_UPI000381E641 Y D W Q S G A D F F A R N L I D F C P A S N T L G W R W V A G L Q T L N K P Y S
UniRef90_Q1GEA3 V D P A Q V H E W Y L A V Y A D A F E W V E A P N T V G M S Q F
UniRef90_D8IX67 V H W R A G A D W M V G H L L D G D L A S N H L S W Q W V A G T
UniRef90_K2KHB5 L S V E A T C D W Y L A V Y M D A Y E W V E L P N T L G M V M H
UniRef90_A2C3R3 L P W Q L G A R L F M K H L L D G D A A S N T L S W R W V A G M H T N K K P Y
UniRef90_D4GX25 V D P A E L D R W F H L L G F V D A F H W V T T P N V V A M G S F A
UniRef90_K9XN86 V R W Q T G A K W F L E H L L D G D P A S N N M S W Q W V A S T F S H K P Y Y F
UniRef90_A6DFN0 Y H W H D P A R W M Y Y H L I D G D W A S N A L S W Q W V A G C L N G K K Y I A
UniRef90_Q4KT08 T P E Q A S I Y L N D R Y S L D G R D P N G Y V G C M W S I C G L H D R S F L E
UniRef90_UPI0002557FD5 F N P D E V Y Q W F M D A Y D W V M V P N V Y G M S Q F S D G G I L A T K P Y I
UniRef90_UPI0003B4A545 T H P D E V D E W Y L G V Y I V W V E L P N T R G M S Q Y A D G G I L A T K P Y V
UniRef90_Q2S7E7 I D P D Q V D Q W Y L G V Y V D A I E W V E A P N T R G M S Q F
UniRef90_UPI000468AC4E I D P G Q V S Q W Y L E V Y A D A F E W V E A P N V V G M S Q F A D G G V
UniRef90_F7SIW1 V K P E A L C D W Y L A V Y A D A C E W V E L P N T L G M V L H
UniRef90_U2UBF3 S P L Q R T A F L N D K Y A V D G R D P A S V A N F M W V L G L H D R P F Q
UniRef90_G7QP89 T A F E I L E E F N N K Y A Y D G R D P N S Y N G I L W C F G L F D R P W F P E
UniRef90_UPI00047739F1 T D P R E L N R W F H L A Y V D A Y E W V V L P N V L G M S T F
UniRef90_E4NJP4 Y D P A A V T D W F H R C Y D W V M V P N V V G M S Q Y A D G G T V T T K P Y T
UniRef90_UPI00037E1DE6 V A P R E V Q D W Y L L V Y A D A Y E W V E L P N V H G M V L F A
UniRef90_UPI00037A0FA2 W D P A A V T D W F H R C Y D W V M L P N V V G M S Q Y A D G G M M T T K P Y T
UniRef90_K6ZBB9 I E P K A I N E W Y L V V Y A D A Y E W V E L P N V S M V L F
UniRef90_UPI000405CFFD M H P D E V D A W Y L G V Y I D A I E W V E L P N T R G M S Q Y
UniRef90_D2R5E5 S P R E A M I Q L N N K Y A L D G R N P N S Y S G I F W I L G R Y D R P W S P E
UniRef90_UPI00037A7DB F D P D E V Y Q W F M D S Y D W V M V P N I Y G M S Q F A D G G L M A T K P Y I
UniRef90_UPI00034ADEC6 I S P Q E I E N W F H S A F I D A Y D W V M Q T N V I G M G Q F
UniRef90_D2S7C5 I D P L A M T D W F H R S Y D W V M I A N V V G M S Q H A D G G A A G G A Y I D
UniRef90_UPI000381E3D0 L S P Q Q V S D W F L A V Y E W V E L P N V M G M A L Y A D G G R A T S K P Y Q
UniRef90_B6B656 V D P H Q V H E W Y L A V Y A D A Y E W V E A P N V I G M S Q Y
UniRef90_B1M118 W D P A Q V E T W Y A D A Y E W V E L P N V H G M V L W A D G G V M G S K P Y
UniRef90_UPI0003690A3C L D P E E L T D W F H R C F D W V M A P N V V G M S Q Y A D G G L M T T K P Y T
UniRef90_UPI000255B8F9 V H P D E V D A W Y L G I Y I D A I E W V E M P N T R G M S Q F
UniRef90_I5C169 V A P E E V D R W Y L G I Y V D A F Q W V E L T N T R G M S Q F
UniRef90_B8K4H2 I N P D E V D E W Y L G I Y I D A I E W V E M P N T R G M A L Y
UniRef90_UPI000378F7AF I D P D D L Y R W F M E M Y D W V M V P N A Y A M S Q N A D G G R I T T K P Y F
UniRef90_F7RVQ7 V H P D A M D E W Y L G I Y I D A I E W V E L P N T R G M S Q F
UniRef90_A7HEQ8 S P R E A L E L N D R W A L D G R D P N S V S G V F W C L G R Y D R P W G P E
UniRef90_Q9RIY1 W D P A A V T N W F H R C Y D W V M L P N V V G M S Q Y A D G G R M T T K P Y
UniRef90_B1Y5D0 V H W R A G A D W L V A H L L D G D L A S N H L S W Q W V A G T
UniRef90_UPI0004081474 V H P D E V D K W Y L G I Y M D A I E W V E I T N T R G M S Q F
UniRef90_B5JLQ7 V D P K E V H E W Y L A V Y E W V E L P N T L G M S Q Y A D G G V M T G K Y I K
UniRef90_UPI0003684F0F V H P D E I D A W Y L G I Y E W V Q L P N T R G M S Q F A D G G K L A T K P Y V
UniRef90_UPI000422ABC7 I H P D E V D T W Y L G I Y I D A I Q W V E I T N T R G M S Q Y
UniRef90_M5TA86 C P E Q A M C C L N H R Y A L D G R S P A S Y G G I L W C F G Q F D R P F K P
UniRef90_M7YZC8 L P W P L G A D F F L R H L L D G D P A S N T L S W R W V A G L H T R G K A Y R
UniRef90_I7ZHE9 V R P R E I H L W Y L A V Y V D A V E W V E L P N T L G M S Q F
UniRef90_D5BN93 L D P V M V N E W Y L V V Y A D A Y E W V E L P N V S G M V L F A
UniRef90_K5XTD3 L D P A E V N E W Y A D A Y E W V E M P N V T G M I L F A D G G
UniRef90_A3X5Z8 I D P D A V Y R W F M E M Y D W V M V P N V Y A M S Q H A D G G L I T T K P Y F
UniRef90_F0SIK8 V H P L K F H E W H M A M Y L D A I D W V S L P N T L G M S Q F
UniRef90_UPI000479EE20 V E P A E V N E W Y L T Y Y S D A F E W V Q L P N T H G M A L F
UniRef90_Q1YU58 I D P D Q V D W Y L G I Y I D A I E W V E M P N T R G M S Q F
UniRef90_UPI0004779EF5 V R P A E I H A W Y L G I Y V D A V E W V E L P N V I G M S Q Y
UniRef90_UPI000255A9CE I N P A E V H E W Y L S V Y E W V E A P N T V G M S Q F A D G G V I A S K P Y V
UniRef90_Q3IJ56 I N P D D V D W Y L G V Y I D A I E W V E M P N T R G M S Q F
UniRef90_UPI00036A83E2 L S P E Q V Q R W Y A D A Y E W V E L P N V S A M I L Y A D G G N L A S K P Y V
UniRef90_UPI000477ACE9 L A P D A V H R W Y L D A F E W V E L P N T L G M S Q F A D G G V L A T K P Y V
UniRef90_F9RMA4 I A P V Q V D Q W Y L G I Y I D A I E W V E M P N T R G M A L F
UniRef90_A5F0H6 C D P D Q V D A W Y L G I Y I D A I E W V E L P N T R G M A L F
UniRef90_B0CG90 F D P D Q V Y R W F I D A F D W V M V P N V Y G M G Q Y A D G G L M I T K P Y V
UniRef90_A4A626 L D V S E V C W Y L A V Y V D A F E W V E L P N T L G M A L H
UniRef90_UPI000345A90F V H W R A G A D W L Y G H L L D G D L A S N H L S W Q W V A G T G S H K P Y L F
UniRef90_F3L425 L S V S E V C D W Y L A M Y V D A Y E W V E L P N T L G M A L N
UniRef90_L1IW67 K W E D A Y R F L V A Q N K W
UniRef90_F7S8R2 L P W E L G A D F F L R H L L D G D L A S N T L S W R W V A G L H T P G K H Y A
UniRef90_D5VJH2 V H P D A V D D W Y M V V F A D A Y E W V E M P N T R G M A T F
UniRef90_F7YT42 C E P D E V D D W Y L G I Y I D A L Q W V E M P N T R G M A L F
UniRef90_F9SF46 L A P D Q V D S W Y L G I Y V D A I E W V E M P N T R G M A L F
UniRef90_Q1QZ55 V R P A A L C D W Y L A V Y A D A C E W V E L P N T L G M V L H
UniRef90_UPI000380C4FC Y D P D S L T E W F Q D G Y D W V M P A N V V G M S Q H A D G G A M A T K P Y V
UniRef90_U2FSW7 L D P H D V H E W Y L D A F E W V E M P N T L G M S Q Y A D G G A M A T K P Y V
UniRef90_U1N4X8 V S P Q Q T S D W F N E M Y I D A Y D W V V L P N V L G M A L F
UniRef90_Q2Q011 D P E E A M S E L N D R Y A L D G R N P N S I A G V M W C Y G L F D R P D P P
UniRef90_J9DCQ2 T P E E A S F S L Y G K Y S L E A N Y P Y S I L L W I M Y S I C G V M D Q G F G E
UniRef90_X7E8Z7 I Q P A Q V D E W Y L G I Y V D A I E W V E L P N T R G M S Q F
UniRef90_M5E033 L D K D Q V F E W F M E M Y I W V M F A N V Y G M S Q Y S Y P E M M T K P Y I S
UniRef90_UPI00026C789A I N P Q Q V C D W Y L A V Y A D A Y E W V E L P N T L G M A L Y
UniRef90_A0A031FTZ7 V D P K E V H A W Y L A V Y V D A V E W V E L P N T L G M S Q Y
UniRef90_UPI00035D46E4 T S P Q E F L D W M R R A F I D A A D W V M V P N V I G M S Q H
UniRef90_UPI00037A2740 I D P D Q V D Q W Y L G I Y Q W V E L P N T R G M S Q Y A D G G M V A S K P Y A

| | 210 | 220 | 230 | 240 |
|------------------------|---|-----|-----|-----|
| UniRef90_A3II31 | A D G G I L L A S K P Y A A S A N Y I N K M S D Y C K N C | | | |
| UniRef90_C5BIV6 | D G G Y L A S K P Y A A S G A Y I N K M S N Y C K Q C | | | |
| UniRef90_K9UYM7 | A D G G I L A S K P Y A A S A N Y I N K M S D Y C K N C | | | |
| UniRef90_D5SWH4 | G D G G I V G T K P Y C A T G A Y I S R M S N F C Q S C | | | |
| UniRef90_A9LH56 | G D G G V V G T K P Y C S S G N Y I N K M S N F C K G C R F D Y | | | |
| UniRef90_R7HZ37 | F P V T G K I R R M | | | |
| UniRef90_M0EUB8 | Y D P R K Q V R D Q D P D G E F V G R W V P E L D P L P A A H L D A P E K T P | | | |
| UniRef90_H8MR73 | | | | |
| UniRef90_C7M2C5 | R M S D Y C R S C E Y D P R C P F T T L Y W W F L D R H R E R F A H H P R M A P | | | |
| UniRef90_D4TQ06 | A D G G L L A S K P Y A A S A N Y I N K M S N Y C S G C | | | |
| UniRef90_UPI000477C399 | N A D N Y A P A W A S P G T C L D A P Y E V L E A R A V Q A A D C G P E R G A P | | | |
| UniRef90_UPI00036F356A | A Q G W N | | | |
| UniRef90_UPI000463F51F | V S S G N Y I D R M S D Y C G | | | |
| UniRef90_UPI000381E641 | D N I S Y F T K Y R F N P K G Q L N E K V I S K Y Q N H H N N K I V | | | |
| UniRef90_Q1GEA3 | A D G G I L A S K P Y V S S G A Y I D R M S N Y C G S C | | | |
| UniRef90_D8IX67 | | | | |
| UniRef90_K2KHB5 | A D G G L M A S K P Y A A S G K Y I K R M S N Y C S Q C P | | | |
| UniRef90_A2C3R3 | | | | |
| UniRef90_D4GX25 | T D V L S S K P Y A A S G N Y V N K M S D Y C S S C P | | | |
| UniRef90_K9XN86 | | | | |
| UniRef90_A6DFN0 | N Q E N I N K Y C G S L E E Q T F L D K S Y D E L S Q I | | | |
| UniRef90_Q4KT08 | R Q V F G K I R Y M | | | |
| UniRef90_UPI0002557FD5 | S G S N Y L K K M G D Y G N G E W Q K I W | | | |
| UniRef90_UPI0003B4A545 | S S G S Y I N K M S N Y C S G C H | | | |
| UniRef90_Q2S7E7 | A D G G L I A T K P Y V S G G A Y I Q R M S D Y C K G C | | | |
| UniRef90_UPI000468AC4E | I A S K P Y V S S G A Y I N K M S D Y C K G C S Y K | | | |
| UniRef90_F7SIW1 | A D G G L M G S K P Y C A S G K Y I D K M S D H C Q H C S P K Q V T G P K A C P | | | |
| UniRef90_U2UBF3 | | | | |
| UniRef90_G7QP89 | R N V F | | | |
| UniRef90_UPI00047739F1 | A D G G V L A S K P Y V S S G N Y I N K M S D Y C K H C E Y K | | | |
| UniRef90_E4NJP4 | C | | | |
| UniRef90_UPI00037E1DE6 | D G G V L G S K P Y A A S G A Y I D R M S D Y C G D C | | | |
| UniRef90_UPI00037A0FA2 | S G G A Y I K K M S D F C A P C A Y R P D H R T G E G A C P Y T A G Y W S | | | |
| UniRef90_K6ZBB9 | A D A G N L A S K P Y A A S G S Y I N K M S N Y C K S C D | | | |
| UniRef90_UPI000405CFFD | A D G G I L A T K P Y V S S G S Y I N K M S N Y C S S C H | | | |
| UniRef90_D2R5E5 | R P I F G N I R Y M | | | |
| UniRef90_UPI0003F7A7DB | S G S N Y I N K M S D Y P | | | |
| UniRef90_UPI00034ADEC6 | A D G G V L A S K P Y A A S A N Y I N K M S D Y C G N C H | | | |
| UniRef90_D2S7C5 | R M S D Y C G G C R Y D P | | | |
| UniRef90_UPI000381E3D0 | R M S N Y C K S C R Y D P K | | | |
| UniRef90_B6B656 | A D G G L L G S K P Y A A S G N Y I N K M S D H C A G C | | | |
| UniRef90_B1M118 | | | | |
| UniRef90_UPI0003690A3C | S A G A Y I H R M S D L C D G C | | | |
| UniRef90_UPI000255B8F9 | A D G G L V A T K P Y V S S G S Y I H K M S N Y C D S C | | | |
| UniRef90_I5C169 | A D G G I V G T K P Y V S S A N Y I D K M S N Y C G S C H | | | |
| UniRef90_B8K4H2 | A D G G I V G T K P Y A A S G A Y I N R M S D Y C K S C R Y K | | | |
| UniRef90_UPI000378F7AF | S G S A Y I R K M G N H E T G E W C D I W | | | |
| UniRef90_F7RVQ7 | A D G G L L A T K P Y I S S G N Y I N K M S S Y C K D C | | | |
| UniRef90_A7HEQ8 | R P I F G T V R Y M S S Q N | | | |
| UniRef90_Q9RIY1 | | | | |
| UniRef90_B1Y5D0 | | | | |
| UniRef90_UPI0004081474 | A D G G I V A T K P Y V S S G S Y I N K M S N Y C Q N C H Y K | | | |
| UniRef90_B5JLQ7 | R M S N Y C D G C Q Y N P D | | | |
| UniRef90_UPI0003684F0F | S S G S Y I H K M S N Y C D G C H | | | |
| UniRef90_UPI000422ABC7 | A D G G I V G S K P Y V A S A N Y I D K M S H Y C | | | |
| UniRef90_M5TA86 | | | | |
| UniRef90_M7YZC8 | A R R D N I R F R H D P A G L D E D A A P L E E A M P P R E V P L A A A D A M | | | |
| UniRef90_I7ZHE9 | A D G G V L G S K P Y V A S G R Y I E N Y C A H C R Y D P G K A I | | | |
| UniRef90_D5BN93 | D G G Y L A S K P Y A A S G A Y I N R M S N Y C K N C | | | |
| UniRef90_K5XTD3 | | | | |
| UniRef90_A3X5Z8 | S G S N Y I R K M S H W D K G P W A E V W | | | |
| UniRef90_F0SIK8 | G D G G I V G T K P Y C S S G N Y I N K M | | | |
| UniRef90_UPI000479EE20 | A D G G V V A T K P Y A A G G N Y I N K M S D Y C K G C | | | |
| UniRef90_Q1YU58 | A D G G L I A T K P Y A A S G S Y I N K M S D Y C K D C H | | | |
| UniRef90_UPI0004779EF5 | A D D G R M A S K P Y V A T G R Y I Q R M S N Y C A H C P | | | |
| UniRef90_UPI000255A9CE | S S A N Y I A K M S D Y C G G C | | | |
| UniRef90_Q3IJ56 | A D D G I I A T K P Y A A S G N Y I N K M S D Y C K N C H Y K | | | |
| UniRef90_UPI00036A83E2 | A S S Y I N K M S D Y C K N C G Y S V T K K T G E K A C P F N Y L Y | | | |
| UniRef90_UPI000477ACE9 | S S A A Y I D R M S D Y C K G C H | | | |
| UniRef90_F9RMA4 | A D G G I V G T K P Y A A S G S Y I N K M S D Y C K G C H | | | |
| UniRef90_A5F0H6 | A D G G L I A T K P Y S A S G S Y I N K M S D Y C A S C | | | |
| UniRef90_B0CG90 | S S N Y L R K M S Y F K P G D W S T L W | | | |
| UniRef90_A4A626 | G D K G L M A S K P Y A A S G K Y I Q R Q G N H C K A C | | | |
| UniRef90_UPI000345A90F | N A A N V A K Y A P R D S T G T A I D C S Y E A L D R I | | | |
| UniRef90_F3L425 | A D D G I M A S K P Y A A S G K Y I A K Q G N H C Q Q C P P K L T T G P K A C P | | | |
| UniRef90_L1IW67 | | | | |
| UniRef90_F7S8R2 | E N I A R F T G G R F D P R G | | | |
| UniRef90_D5VJH2 | A D G G I V G S K P Y A A S G A Y I D R M S D Y C K G C | | | |
| UniRef90_F7YT42 | A D G G I V A T K P Y A A S G S Y I N K M S D Y C K D C H | | | |
| UniRef90_F9SF46 | A D G G I V G T K P Y S A S G S Y I N R M S D Y C K G C H Y K | | | |
| UniRef90_Q1QZ55 | A D G G Y L G S K P Y C A S G K Y I D R M S D H C A Q C | | | |
| UniRef90_UPI000380C4FC | R M S D Y C G D C R Y D P | | | |
| UniRef90_U2FSW7 | S S A A Y I H R M S N Y C K G C | | | |
| UniRef90_U1N4X8 | A D G G K L A T K P Y I A S G K Y I D K M S D Y C K G C N P K H T T E E D A C P | | | |
| UniRef90_Q2Q011 | | | | |
| UniRef90_J9DCQ2 | R N V I G K I R Y I K S I K A P Y I S M W | | | |
| UniRef90_X7E8Z7 | A D G G W I A S K P Y A A S G S Y I Q K M S D Y C G S C H Y K V K E T G E L A C | | | |
| UniRef90_M5E033 | S S N Y L K M S H Y A Q K G E W S E I W | | | |
| UniRef90_UPI00026C789A | A D G G L M A S K P Y A A S G K Y I Q R M S N F C K S C | | | |
| UniRef90_A0A031FTZ7 | A D G G L M G S K P Y A A T G K Y I D R M S P Y C K T C P D P A K R T G E D A C | | | |
| UniRef90_UPI00035D46E4 | A D G K L A T K P Y A A S G S Y I S K M G T F C K S C | | | |
| UniRef90_UPI00037A2740 | G S G N Y V H K M S D Y C G G C | | | |

UniRef90_A3II31
 UniRef90_C5BIV6
 UniRef90_K9UYM7
 UniRef90_D5SWH4
 UniRef90_A9LH56
 UniRef90_R7HZ37
 UniRef90_M0EUB8
 UniRef90_H8MR73
 UniRef90_C7M2C5
 UniRef90_D4TQ06
 UniRef90_UPI000477C399
 UniRef90_UPI00036F356A
 UniRef90_UPI000463F51F
 UniRef90_UPI000381E641
 UniRef90_Q1GEA3
 UniRef90_D8IX67
 UniRef90_K2KHB5
 UniRef90_A2C3R3
 UniRef90_D4GX25
 UniRef90_K9XN86
 UniRef90_A6DFN0
 UniRef90_Q4KT08
 UniRef90_UPI0002557FD5
 UniRef90_UPI0003B4A545
 UniRef90_Q2S7E7
 UniRef90_UPI000468AC4E
 UniRef90_F7SIW1
 UniRef90_U2UBF3
 UniRef90_G7QP89
 UniRef90_UPI00047739F1
 UniRef90_E4NJP4
 UniRef90_UPI00037E1DE6
 UniRef90_UPI00037A0FA2
 UniRef90_K6ZBB9
 UniRef90_UPI000405CFFD
 UniRef90_D2R5E5
 UniRef90_UPI0003F7A7DB
 UniRef90_UPI00034ADEC6
 UniRef90_D2S7C5
 UniRef90_UPI000381E3D0
 UniRef90_B6B656
 UniRef90_B1M1I8
 UniRef90_UPI0003690A3C
 UniRef90_UPI000255B8F9
 UniRef90_I5C169
 UniRef90_B8K4H2
 UniRef90_UPI000378F7AF
 UniRef90_F7RVQ7
 UniRef90_A7HEQ8
 UniRef90_Q9RIY1
 UniRef90_B1Y5D0
 UniRef90_UPI0004081474
 UniRef90_B5JLQ7
 UniRef90_UPI0003684F0F
 UniRef90_UPI000422ABC7
 UniRef90_M5TA86
 UniRef90_M7YZC8
 UniRef90_I7ZHE9
 UniRef90_D5BN93
 UniRef90_K5XTD3
 UniRef90_A3X5Z8
 UniRef90_F0SIK8
 UniRef90_UPI000479EE20
 UniRef90_Q1YU58
 UniRef90_UPI0004779EF5
 UniRef90_UPI000255A9CE
 UniRef90_Q3IJ56
 UniRef90_UPI00036A83E2
 UniRef90_UPI000477ACE9
 UniRef90_F9RMA4
 UniRef90_A5F0H6
 UniRef90_B0CG90
 UniRef90_A4A626
 UniRef90_UPI000345A90F
 UniRef90_F3L425
 UniRef90_L1IW67
 UniRef90_F7S8R2
 UniRef90_D5VJH2
 UniRef90_F7YT42
 UniRef90_F9SF46
 UniRef90_Q1QZ55
 UniRef90_UPI000380C4FC
 UniRef90_U2FSW7
 UniRef90_U1N4X8
 UniRef90_Q2Q0I1
 UniRef90_J9DCQ2
 UniRef90_X7E8Z7
 UniRef90_M5E033
 UniRef90_UPI00026C789A
 UniRef90_A0A031FTZ7
 UniRef90_UPI00035D46E4
 UniRef90_UPI00037A2740

L I G E G Y P Y P V A D Y E R A R L E F R E R Y G A V H G A

L L H N L D R L G D L T A I R E R A R Q I L L E L L D A G L

A A G V D E P

F

F L H R H R T R L A A N H R T A R A K G L D R L K D L R

P D G

A E T R D

F

P L N S L Y W N F M V K H R E R

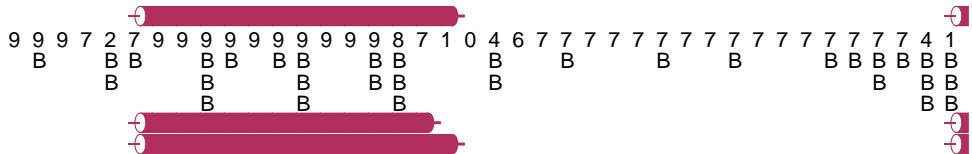
P F T T L Y W D Y L I R H E E

```

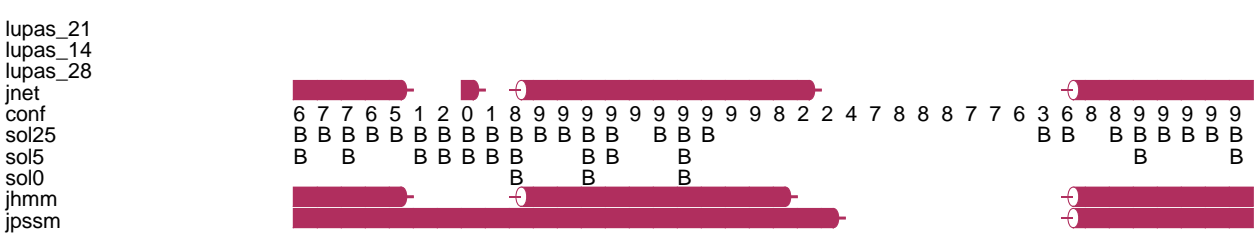
1           10           20           30           40
UniRef90_UPI0002F55D01 WP I T R T Q A N E L L A F F C Q H C L P N F G R F Q D A M T G Q Y H S R L S
UniRef90_U1QGQ8 P WP V T R K Q A C E A L A R F F I D E R L G E F G Q Y Q D A M W A M A H A L L G
UniRef90_U2ZTW1 Y P V T H A E A E Q L W Q H F L D F A L P A F G D Y Q D A M A S G F H A R L S
UniRef90_UPI0002F653D2 R A E A E A A R D H F L T H A L P R F G D Y Q D A M R Q G A H A H L A
UniRef90_N6X5A5 A E E A L A H F L D F A L P C F G D F Q D A M S D D F H S L L A
UniRef90_UPI0003B51450 W A V T R E Q A L A A L A D F I T H R L A G F G D Y Q D A M D V L N H S L L A
UniRef90_V4J7T1 WP V T R D E S I A L L D Y F V A A C L P H F G D Y Q D A M T T R S W S R L S
UniRef90_UPI00029AE37F WP I D R Q Q A I E M L N Y F T K S C L P L F G D Y Q D A M H A E Y H S R L S
UniRef90_B6IRE2 F E H F V R H A L R H F G D Y Q D A M A G F H A V I S
UniRef90_UPI00047D1560 WP V T P E Q A E Q A L N R F L D K A L P Q F G D F Q D A M W T D N H S L I A
UniRef90_B8C6C5 E K Q A L E Q L R Y F C E Y L L K Y F G D Y Q D A L H T S F H S R L S
UniRef90_UPI000371F381 A Q A R R A L A L D D F I E Y R L P S F G T F Q D A L W L G Y H A R L S
UniRef90_R4VG14 WP L T R R E A R A G L A R D F I E H A L P W F G P Y Q D A M S T R S T S G L S
UniRef90_N6XAL8 W S T T R A D A E R A R D H F M E H A L P L F G D Y Q D A I P W L F H S V L S
UniRef90_UPI0003493419 WP V N R K Q A T Q L L S F C E E Q C L P R F G Q F Q D S M T G K Y H S R L S
UniRef90_R9PK26 WP V T R K K E C I S T L D Y F C N E L L P Y F G D Y Q D A M H D D F H S R L S
UniRef90_UPI00047D8B63 P G E G D A A L R R F L D E R F M Q F G P Y E D A I S A E H H A A L T S
UniRef90_UPI0003B4E22F WP V T R R Q A V Q A L D H F V T R Y R L T E F G S Y Q D A M L E D S H S L L S
UniRef90_Q5V4M4 WP V N R Q Q A K E L L D Y F C R N Y G L P R F G G Y Q D A M W S L Y H S R L S
UniRef90_UPI0003B3115D WP L N R A E A L A C L Q H F I D Q V L P L F G R Y E D A M S T A S T S Q L S
UniRef90_UPI0003A5D7C3 R A Q A L E A L D A F V G E A L P R F G D Y Q D A M K A G F H G V V S
UniRef90_UPI000363D9AF WP T N R K Q S Q A L L S Y F C R D L L P L F G R F Q D A M T K Y H S R L S
UniRef90_Q2C0V7 WP I N R Q Q S L E L L D F F V T D C L H L F G S Y Q D A M T P N Y H S R L S
UniRef90_H7FP30 WP L N R A E A L A C L D R F I V D A L P H F G G R Y E D A M S T R S H S Q L S
UniRef90_UPI000262B00B WP V T R A D A E A G F A D F L A R R L P G F G D W Q D A M A D F H S L V S
UniRef90_A5FZA0 WP V D R A E A K A R L D A F I S H V L P Q F G N W Q D A M H T E F H S L I S
UniRef90_J7GHS3 S A M E A L E H F I D Y A L P C Y G D Y Q D A I S D H F H S L L S
UniRef90_M1FI46 C E P G E S S A M E V L D G F L T K R I K N Y D T G R N D P T K P H A C L
UniRef90_B4FTT9 WP V T R D E A E K A A D A F F A E R I E K F G K F Q D A M D D L Y H S M L S
UniRef90_Q2N904 WP I N R V Q S L Q L L E H F C K H G L P H F G S Y Q D S M S E A F H S R I S
UniRef90_UPI0002625B43 Q A R R Q L T H W K H A L P K F G D Y Q D A M L N D Y H S I S
UniRef90_S9QC90 WP V T R A Q A L E Q L A F F V R E C L P L F G T Y Q D A M W S L Y H S R L S
UniRef90_R9H191 Y P V T R A D A E R L W Q H F L H T G L R D F G S Y Q D A M A R G H H A R I S
UniRef90_H0JJDJ Y P T T R N E V L D Q L D Y F C S H L L I Y F G D Y Q D A M H T L Y H S R I S
UniRef90_UPI00037FEFEA WP L S R E E A L A Q L E V F I N Q G L P L F G D Y Q D A L S T R G H S L L S
UniRef90_E4QLZ6 WP V C R K Q A L S L L D S F I S D R L P L F G D Y Q D A M W Q Q E
UniRef90_Q2BJU7 WP V T R L Q A L E L L N Y F C Q H Q L V R F G D F Q D A M T C Q S H S R L S
UniRef90_L8D837 Y P V T H A E A Q S L W Q H F L D F G L A A F G D F Q D A M A E N F H A R V S
UniRef90_I4N053 WP I N R Q Q A L H L L D Y F C Q Y L L P S F G D Y Q D A M T T Q T P H K W S
UniRef90_UPI00036F9210 F W F G R A D A Q A F D H F A L H L L P G F G D T Q D A M A F L H S V I S
UniRef90_A3VYB8 WP L N R S E A L A C L D A F I D T A L P H F G D Y E D A L A A Q A H S L L S
UniRef90_F4G5S8 E G A Q E Q F D W F C R Y T L A D F G N Y Q D A L P E E S H S L I S
UniRef90_A0Z190 I P G G Q T A A N L A L S N L Q L R G Y A K D R S E L D S R G A T V M S
UniRef90_I0R1W9 E H A A L S R L R N F V G S G M A S A D R H I A T G E A D S S L L G
UniRef90_R1DYM9 WP V N R H Q A L I R L D E F V A T G L E R F G A H E D A M W K M A H S A L S
UniRef90_R4Z014 WP T T V E E A E A L E T F L A R I L P A F G D W Q D A M A W M W H G L V S
UniRef90_UPI0004730C4D WP L D R G D A L L Q L D F F M E R V L P Y F G D Y Q D A M S T Q A T S L L S
UniRef90_A0A023NQU3 WP V N R Q K A S E L L V F C R Y C L P L F G G Q F Q D A M W S L F H S R L S
UniRef90_B6ENK1 WP V T P A Q A E Q A L D D F I T N R L P T F G T Y Q D A M W T E Y H S R L A
UniRef90_UPI0003B3E4D9 F A V T R A D A E K A A D A F I H D F L P A F G E T Q D A M L T E N H A L S
UniRef90_H4F2R7 D E A R Y A L K R F V D H R L D P F G P Y E D A D W T M A H S L L S
UniRef90_UPI000477B488 WP V T M I E A E A L E D F I A Q R L P S F G S Y Q D A S W W L Y H S R L S
UniRef90_F9ZSE9 WP V T H A Q A L Q A L D A F V R E R L P L F G R Y Q D A L W A G Y H S Q L S
UniRef90_UPI00034C1E40 F P A T R R E A L A G L R R F V E H L A A F G A Y E D A M L A G D T T M S H
UniRef90_M9U5D1 Q D F V A H R L A S F G D W Q D A M W A G F H S R L S
UniRef90_A0A011MQW4 Y P A T H A E A Q A R L T H F L T Y R L P D Y G R Y A D V M S A D A H S A L S
UniRef90_I0L356 Y P A T H A E A D A R L R H F V A H R L P D Y G R Y Q E V M S A G T H S V L S
UniRef90_C4RCJ1 WP V T R E Q G L A V L R D F I D V R L A A F G P Q D A M W T
UniRef90_F5Y262 F P A D R R E A L T A L R R F I D H R L A G F G A H E D V M L A A D P S L L S
UniRef90_A0A024YPP8 D E A S L Q L N Y F L K E K E N F G T Y Q D A L L K D F H S N I S
UniRef90_UPI000465BB99 R I E C F G P Y Q D A M D D L F H S M L S
UniRef90_UPI0001DD0E76

```

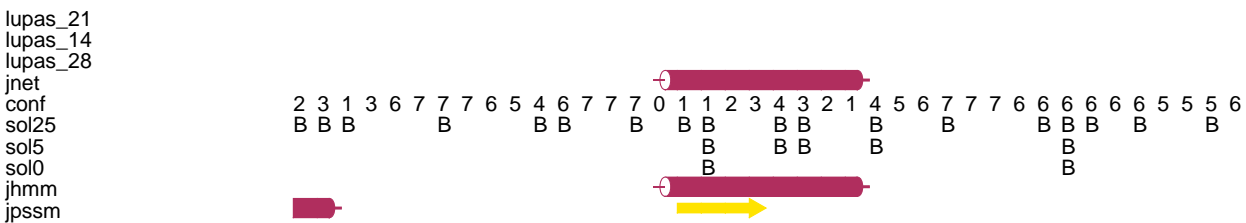
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm



UniRef90_UPI0002F55D01 F A L N S K I L S P Q H V V D M A V Y H Y Q T R P D D L S L A Q V E G F R Q Q I L L
UniRef90_U1QGQ8 S S I N L G L L D V R R L C A D V E S A Y W A G R V P L N A A V E G F I R R Q I L L
UniRef90_U2ZTW1 A A L N L G L L D V R R L C A D V E S A Y W A G R V P L N A A V E G F I R R Q I L L
UniRef90_UPI0002F653D2 L Y L N A G L L D P L D L C C C R R A E A E W R A G Q A P L N A A V E G F I R R Q I L L
UniRef90_N6X5A5 P Y I N C G L L N P L G V C C C E A A A Q H Y Y S G Q A P L N A A V E G F I R R Q I L L
UniRef90_UPI0003B51450 P A L N L G L L S P L E V C C Q A A E A F H A G T A P L N A A V E G F I R R Q I L L
UniRef90_V4J7T1 F S L N T K L I S P S E V T E K A V T R W Q Q R P D E I T I A Q I E G F I R R Q I L L
UniRef90_UPI00029AE37F F A M N T K M L S P K E V V N A A I D S W E K S E K Q I T I N Q L E G F I R R Q I L L
UniRef90_B6IRE2 P Y L N I G L L D P R A V C R R V E A E Y R A G R V P L N A A V E G F I R R Q I L L
UniRef90_UPI00047D1560 S S L N L K L L H P L H V I Q Q A E Q R Y R D E A A P L A A V E G F I R R Q I L L
UniRef90_B8C6C5 P Y L R W G V L S P Q R A A K C G V R R R D L L W R D W S H L C Y G
UniRef90_UPI000371F381 F A L N T K I L S P K T V V N E A I T Y Y Q N H S T E I D I S Q I E G F I R R Q I L L
UniRef90_R4VG14 A A L N L H L L D P R D C I N A A V T A W E R G D A P L N A A V E G F I R R Q I L L
UniRef90_N6XAL8 F A L N V K L L H P R E V I D A A V T A W Q L G K V E L A S C E G F I R R Q I L L
UniRef90_UPI0003493419 P Y L N M G L L D P R D L V G R A E A A G R E E R A P L N A A V E G F I R R Q I L L
UniRef90_R9PK26 F A L N A K I I S P Q Y V V K T A I E A F E R S E G R I D I S Q I E G F I R R Q I L L
UniRef90_UPI00047D8B63 F A M N T K I I S P K E V I D T V L D H Y Y S K E I E I S Q V E G F I R R Q I L L
UniRef90_UPI0003B4E22F P A L N C G L I D P D Q V L E R A L A A A D E H D V E L P S L E G F I R R Q I L L
UniRef90_Q5V4M4 T S L N L G L L G P A E V I E R A I T A Y E D G Q D A P L N S V E G F I R R Q I L L
UniRef90_UPI0003B3115D F A L N S K I I S P K L V V D K V I A H Y R A Q Q L L S A E P G F I R R Q I L L
UniRef90_UPI0003A5D7C3 F A L N T K M L R P R E V V Q L A E A A Y H A G T A P L P A V E G F I R R Q I L L
UniRef90_UPI000363D9AF P Y L N A G L L T A R E V C D A A V A A Y D A R A A P L N A A V E G F I R R Q I L L
UniRef90_Q2C0V7 F A L N A K M L H P M Q V I Q A A I D A Y S Q P D S K I D I A Q V E G F I R R Q I L L
UniRef90_H7FP30 F S M N V K M I S P Q E V I D K A I E E W K K R P N E I Q Y N Q L E G F I R R Q I L L
UniRef90_UPI000262B00B F A L N T K M L R P Q E V V Q R A L A A Y G A G A A P L A A V E G F I R R Q I L L
UniRef90_A5FZA0 V P L N L G L L D P L D L C R R A E A E Y E A G R A P L N A A V E G F I R R Q I L L
UniRef90_J7GHS3 F A L N T K M L N P R E V V A A A E Q A W R S G D A P L P A V E G F I R R Q I L L
UniRef90_M1F146 P Y I N C G L L D P L A V C E R A A Q R A W Y A G R A P L N A A V E G F I R R Q I L L
UniRef90_B4FTT9 P Y L H F G H I S A R C A L E A K K R R H L S P K S V D T F L E E L I R R R E L
UniRef90_Q2N904 T S I N L G L L D P V E L C R R A E Q A Y Q D G K A P I N S A E G F I R R Q I L L
UniRef90_UPI0002625B43 F A L N A K I L H P R E V L N R V V I Q E W E D R P D Q L S L A Q A E G F I R R Q I L L
UniRef90_S9C90 F Y L N A G L L D P L E V C E Q V E Q A Y K D G H A P L N A A E G F I R R Q I L L
UniRef90_R9H191 F T M N S K M L S P L E V T R A V Q E W T D R P E E I A Y N Q L E G F I R R Q I L L
UniRef90_H0JDJ7 A A L N I G L L D L R Q L C A D V D A A Y R E G R V P L N S A E G F I R R Q I L L
UniRef90_UPI00037FEFEA F A M N I K L I S P K E V I E A K V L E T Y R H F K N E H I S Q V E G F I R R Q I L L
UniRef90_E4QLZ6 F A L N V K M L N P R E V V A A A E A A W R Q G K V P L S A A E G F I R R Q I L L
UniRef90_Q2BJU7 P F L N H S W L H P S W E V I E A A I Q A Y K N G N A P L N A A V E G F I R R Q I L L
UniRef90_L8D837 F A L N A K I L H P S V I Q S A I Q A F E A P N S G I S L A Q I E G F I R R Q I L L
UniRef90_I4N053 A A L N I G L L D V R Q L C A D V E R A Y R Q G S V P L N A A E G F I R R Q I L L
UniRef90_UPI00036F9210 L Y L N A K I L S P L Q V I Q K A V A A Y Q Q A L S I S I A Q V E G F I R R Q I L L
UniRef90_A3VYB8 I Y M N I G L L S P T D I C A R V V E E W A G R V P I N A G E G Y I R R Q I L L
UniRef90_F4G5S8 F A L N V K M L Q P L E V V Q R A E A A W R A G Q A P L A A V E G F I R R Q I L L
UniRef90_A0Z190 M Y L N C G L L E P L A L C Q R V I E A E Y R A E R C S L A A A E G F I R R Q I L L
UniRef90_I0R1W9 P Y V R H N I L S L S T L W D V A G K A P Q Y D R D K
UniRef90_R1DYM9 V P L A L G C L S P R Q V H E A A A T E G C G W L G S H M
UniRef90_R4Z014 S S M N L G L L H P A E I V D A V V A A H R A G A T A P L N A S V E G F I R R Q I L L
UniRef90_UPI0004730C4D T A I N M G L L D P L D V C R R A E A V Y R A G A A P L N A A V E G F I R R Q I L L
UniRef90_A0A023NQU3 F A L N T K M L S P R E V I E R A E Q C W R D G A A P L A A V E G F I R R Q I L L
UniRef90_B6ENK1 F A L N A K I L S P K Q V I D A A I M E F N Q R P D D I N I A Q I E G F I R R Q I L L
UniRef90_UPI0003B3E4D9 A A L N L K L L A P M D A I R R A E A Y T A D E A P L N A A V E G F I R R Q I L L
UniRef90_H4F2R7 F Y I N I G L L D P L S L C R A A E R A Y F E G H A P L I A S V E G F I R R Q I L L
UniRef90_UPI000477B488 V P L N L G V L H P L D A V H A A E E A Y Q E G H A R L N S V E G F I R R Q I L L
UniRef90_F9ZSE9 A A M N L G L L H P Q R V I E A A L G A H A R A E A S L A A T E G F I R R Q I L L
UniRef90_UPI00034C1E40 A A L N L K L L D P R E V V A A A E A A W R A G Q V P L A A A E G F I R R Q I L L
UniRef90_M9U5D1 S L L S S L N L P A E V E R A E T R W R S G D V P L N A S A E G F I R R Q I L L
UniRef90_A0A011MQW4 A A M N L K L L D P R Q V I T T A Q R A Y R D G A A P L A S V E G F I R R Q I L L
UniRef90_I0L356 S S F N L G L L H P E P A V R A A E Q A W R S G A A P R T A V E P F I R R Q I L L
UniRef90_C4RCJ1 S S F N L G L L D P A E A I R A A E Q A W R K G A A S L S A V E P F I R R Q I L L
UniRef90_F5Y262 P W G H A L I H P R E V V D A A Q A W R R H R L P L Q S V E G F I R R Q I L L
UniRef90_A0A024YPP8 S S L N L G L L D P A E V E R A E A A W R S G S A P L N S V E G F I R R Q I L L
UniRef90_UPI000465BB99 S S L N I G L L D L H E L I D K I N F D A P Y N A K E G F I R R Q I L L
UniRef90_UPI0001DD0E76 T S I N L G L L D P L D L C R R A E T A Y K E G K A P L N S V E G F I R R Q I L L



UniRef90_UPI0002F55D01 A D G G I V G S K A Y A A S G N Y V K K M S D Y C G N C H Y K
UniRef90_U1QGQ8 S A N Y I D K M S D Y C S D C R Y
UniRef90_U2ZTW1 A D G G Y L G S K P Y C A S G Q Y I K R M S D Y C G D C
UniRef90_UPI0002F653D2 A D G G I M G S K P Y A A S G A Y I D R M S D Y C A N C
UniRef90_N6X5A5 A D G G Y L G S K P Y A A S G K Y I Q R M S D Y C S Q C
UniRef90_UPI0003B51450
UniRef90_V4J7T1 S S N Y I D K M S D Y C S T C Q Y L K K E R M G I R A C P
UniRef90_UPI00029AE37F A D G G I T G S K P Y T A S A N Y I H K Q S N Y C E S C H
UniRef90_B6IRE2 A D G G V M A S K P Y A A S G K Y I D R M S D Y C G R C
UniRef90_UPI00047D1560 A D N G I M A S K P Y A A S G Q Y I N R M S N Y C K Q C
UniRef90_B8C6C5 F Y Y G L K W E V P P S G I Y V E R W I G N T Q L V W P F Y L
UniRef90_UPI000371F381 A D G G I I A T K P Y V S S A S Y I H K M G D Y C E K C
UniRef90_R4VGI4 V G T K P Y C A S G A Y L D R M S N A C S S C
UniRef90_N6XAL8
UniRef90_UPI0003493419 G D G G L L A S K P Y A A S G K Y I Q R M S N Y C K S C
UniRef90_R9PK26 A D G G I V G S K A Y A A S G N Y I N K M S D Y C S D C
UniRef90_UPI00047D8B63 A D G G I V A T K P Y V S A N Y I N K M S S Y C G N C H
UniRef90_UPI0003B4E22F S G S N Y L R K M S D L P A G D W R E A W
UniRef90_Q5V4M4 S S A N Y V D K M S D Y C S G C
UniRef90_UPI0003B3115D A S N Y V K K M S D Y C G S C H Y Q V A K T T E A D A C P
UniRef90_UPI0003A5D7C3
UniRef90_UPI000363D9AF L A S K P Y A A S G A Y I D R M S D Y C K
UniRef90_Q2C0V7 S G A Y I N K M S D Y C S S C Q Y E V K K K T G L N A C P
UniRef90_H7FP30 A D G G I V G T K P Y V S S A S Y I D K M S H Y C G S C
UniRef90_UPI000262B00B S S A A Y I D R M S D Y C G G C
UniRef90_A5FZA0 A D G G F V G S K P Y A A S G A Y I A R M S D Y C A H Y D V K D A A G P R A C P
UniRef90_J7GHS3 S S A S Y I H K M S N Y C Q G C
UniRef90_M1FI46 A D G G Y L G S K P Y A A S G K Y I Q R Q S D H C S N C H Y K
UniRef90_B4FTT9
UniRef90_Q2N904 A S N Y I N K M S N Y C S D C T Y S V S K K T E E N A C P
UniRef90_UPI0002625B43 A D G G L L A T K P Y V S S A N Y L M G H Y C E E C S Y D A K S R H G M L A C P
UniRef90_S9QC90 V I G S K P Y V S S G S Y I D R M S D Y C K H C D Y K
UniRef90_R9H191 S A A A Y I D K M S H Y C T S C Y
UniRef90_H0JDJ7 A D G G Y L A S K P Y C A S G Q Y I R R Q S D Y C K G C H
UniRef90_UPI00037FEFEA T K P Y V S S A N Y I D K M S N Y C G S C Y Y N K K E
UniRef90_E4QLZ6
UniRef90_Q2BJU7 A D N G I L A S K P Y I A S G N Y I N R M S N Y C E H C P P K V A H G E N A C P
UniRef90_L8D837 A D N G I I A T K P Y A G G N Y I N K M S D Y C K H C H
UniRef90_I4N053 A D G G F L G S K P Y C A S G R Y I Q R M S D H C G A C C
UniRef90_UPI00036F9210 A D G G I V A T K P Y A A S G N Y I H K M S D Y C K D C H Y K
UniRef90_A3VYB8 A D A G I I A S K P Y V S S G N Y I D K M S D Y C R S C
UniRef90_F4G5S8 R M G D Y C Q G C A Y D P K
UniRef90_A0Z190 A D E G A M A S K P Y A A S G K Y I Q K Q G N H C K Q C
UniRef90_I0R1W9
UniRef90_R1DYM9 F R T V S Q A A K Y D A G G L Y V R R W L P E L A D V C V E A V L R P Y A H A
UniRef90_R4Z0I4 K M S D S C K G C R Y D P K
UniRef90_UPI0004730C4D R M S D Y C G G C R Y D V K G
UniRef90_A0A023NQU3
UniRef90_B6ENK1 A S N Y V N K M S D Y C P D C H Y N V K Q V S E E T A C P
UniRef90_UPI0003B3E4D9 A D G G L M G S K P Y T A S G K Y I N R M S N Y C T Q C
UniRef90_H4F2R7 M A S K P Y A A S G A Y I A R M S N Y C E
UniRef90_UPI000477B488 R M T D H C G G C A F D P K
UniRef90_F9ZSE9 A D G G R V A S K P Y V A S G H Y I A R M T G H C A R C P
UniRef90_UPI00034C1E40 A D G G V M A S K P Y I A S G Q Y L Q R Q G A P C A G C
UniRef90_M9U5D1
UniRef90_A0A011MQW4 G D G G L M A S K P Y I A S G K Y I Q R M S N H C A G F D P A A A S G P Q A C P
UniRef90_I0L356
UniRef90_C4RCJ1 V D G R Y V D E L S D Y C T G C
UniRef90_F5Y262 A S G Q Y I K R M S N Y C E G C
UniRef90_A0A024YPP8
UniRef90_UPI000465BB99 A S S N Y L L K M S D Y S K N E N W C E I L L D A L
UniRef90_UPI0001DD0E76 A D G G K L A S K P Y A A S G N Y I N K M S N Y C S D C



UniRef90_UPI0002F55D01
 UniRef90_U1QGQ8
 UniRef90_U2ZTW1
 UniRef90_UPI0002F653D2
 UniRef90_N6X5A5
 UniRef90_UPI0003B51450
 UniRef90_V4J7T1
 UniRef90_UPI00029AE37F
 UniRef90_B6IRE2
 UniRef90_UPI00047D1560
 UniRef90_B8C6C5
 UniRef90_UPI000371F381
 UniRef90_R4VG14
 UniRef90_N6XAL8
 UniRef90_UPI0003493419
 UniRef90_R9PK26
 UniRef90_UPI00047D8B63
 UniRef90_UPI0003B4E22F
 UniRef90_Q5V4M4
 UniRef90_UPI0003B3115D
 UniRef90_UPI0003A5D7C3
 UniRef90_UPI000363D9AF
 UniRef90_Q2C0V7
 UniRef90_H7FP30
 UniRef90_UPI000262B00B
 UniRef90_A5FZA0 F
 UniRef90_J7GHS3
 UniRef90_M1FI46
 UniRef90_B4FTT9
 UniRef90_Q2N904
 UniRef90_UPI0002625B43 F
 UniRef90_S9QC90
 UniRef90_R9H191
 UniRef90_H0JDJ7
 UniRef90_UPI00037FEFEA
 UniRef90_E4QLZ6
 UniRef90_Q2BJU7 F
 UniRef90_L8D837
 UniRef90_I4N053
 UniRef90_UPI00036F9210
 UniRef90_A3VYB8
 UniRef90_F4G5S8
 UniRef90_A0Z190
 UniRef90_I0R1W9
 UniRef90_R1DYM9 E G W P S P L V D P D T Q
 UniRef90_R4Z0I4
 UniRef90_UPI0004730C4D
 UniRef90_A0A023NQU3
 UniRef90_B6ENK1
 UniRef90_UPI0003B3E4D9
 UniRef90_H4F2R7
 UniRef90_UPI000477B488
 UniRef90_F9ZSE9
 UniRef90_UPI00034C1E40
 UniRef90_M9U5D1
 UniRef90_A0A011MQW4 F
 UniRef90_I0L356
 UniRef90_C4RCJ1
 UniRef90_F5Y262
 UniRef90_A0A024YPP8
 UniRef90_UPI000465BB99
 UniRef90_UPI0001DD0E76

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm

