

QUERY 1 10 20 30 40
UniRef90_B7GH71 K E E H E A V R T R A G L F D V S H M G E F E V V K R G G K D S V A F L Q Q
UniRef90_A5UTG6 K E E H R A V R R T A A G L F D V S H M G E V R I V R S G G S P D A L L P F F L Q Q
UniRef90_UPI0003B38D51 K Q E H E A V R T K A G L F D V S H M G E I E V R S G G K D A E L S F F V Q Q
UniRef90_A8MEG4 E H E A V R R N A A G L F D V S H M G E I Q I V R S G G K P T S A R E S F F V Q Q
UniRef90_A4J2F6 E H Q A V R T S A A G L F D V S H M G E I Q I V R S G G K P T S A R E S F F V Q Q
UniRef90_A0A024PKT3 K E E H E A T R T A A G L F D V S H M A E V Q I V R S G G K D T S L A S F F V Q Q
UniRef90_B8FT33 E E E H K A V R S K A G L F D V S H M G E V E L K E G K D S L A S F F V Q Q
UniRef90_UPI00047A691F L E E H E A V R R N A V G L F D V S H M G E V L I V R G G K D A A E S F Y I V N N
UniRef90_UPI0003764302 L E E H R A V R R N A V G V F D V S H M G E F L I V R G G P R A A E F F V N N
UniRef90_A7FRV3 L H E H H T V R E K A G L F D V S H M G E A M V T G G K D A G K F F L Q Q
UniRef90_I3DX69 K E E H E A V R T K A G L F D V S H M G E I E V V K S G T G T D A E K F F L Q Q
UniRef90_R5B751 E E E H L A V R R N D V G M F D V S H M G E I F V V G G P D A E K F F V N N
UniRef90_A1S967 E E H H A V R R D A G M F D V S H M T V V D V S E G A D A R A F F V R S
UniRef90_UPI000479A3AE E E H K A V R E T C G M F D V S H M G E V I V R G G P D A T R K F F V S
UniRef90_A1JPM8 T P F A A Q P L L T S S E L P L T L I S L D D W A L V T L T G A D R V K Y L Q Q
UniRef90_D3L413 E E H L A T R K A A G L F D V S H M G E I T V T G K D A L K F I N N
UniRef90_U2DF31 E E H E A V R R N A A G L F D V S H M G E I K A T G K G S L F N F V Q Q
UniRef90_W7CUA2 K A E H E A V R T N A G L F D V S H M G E V V V R G G K P R A A E F F V N N
UniRef90_E8XM37 P F P P Q K P S A S S H L P L T L I S L E D W A L V T M T G A D T V K Y L Q Q
UniRef90_D5MLA8 L E E H R A V R R E R A G L F D V S H M G E I E I T Q G N D S T S Y L Q Q
UniRef90_J2U653 F T L P P R Q P A A S R L P L T L I S L D E W A L V K V I Q G N D S T S Y L Q Q
UniRef90_K1M2G9 E E H F A V R E K A G L F D V S H M G Q F F I E G G E G A L A L L Q Q
UniRef90_C6WZB1 E E H M A V R E K V G I A D V S H M G Q F W V L E G E D A K D L L Q Q
UniRef90_Q1H016 K E E H V A V R E N V G M F D V S H M G E L F V V G G P D A L T F L Q Q
UniRef90_U6B7C2 E H N A V R R E H A G M F D V S H M T I V D V V R G G P D A K A F L Q Q
UniRef90_M5E0D8 E E H N T V R R N G V G I F D V S H M G E F M V R G P K A L D L I Q Q
UniRef90_L8JQ51 E E H K K V R S K V G I F D L S H M G E F I V I G K D A E D F L Q Q
UniRef90_T0MIW0 K E E H E A V R T K A G L F D V S H M G E I D V K G G A E A F L Q Q
UniRef90_UPI00047EA29E K E E H R A V R T G C G L F D V S H M G E L L L R G P D A L A N L N N
UniRef90_G9YU67 K E H M A V R T R A G L F D V S H M G E I I C K G K D A L M N L N N
UniRef90_A0A010Z01 K A E H E A V R T R A G L F D V S H M G E V A F R G P D A E R F V N N
UniRef90_Q1AR89 E E H N A V R E H C G V F D V S H M G E S Y V E G P D A E R F V N N
UniRef90_D1Y0F3 K Q E H A A V R T A V G I F D I S H M G K F I L R G G D N V L R S L Q Q
UniRef90_U9VHU4 Q E E H N A V R E N C G V F D V S H M L A V D I Q Q G D A E K F L R R
UniRef90_B0TZJ8 E E H N A V R E D A G M F D V S H M T I V D V K G A D A Q A F L R R
UniRef90_U1KFC8 E E H L R V R S H A G L F D V S H M G E V E I H G P Q A E A F L Q Q
UniRef90_W4LF14 D E H L A V R R S R A G L F D L G S H M T V V V R Q G S D A Q A F L Q Q
UniRef90_B9KZ40 E E H H A V R R N G A G M F D V S H M T V V D I Q Q G T G A R D F L R
UniRef90_C5BM95 E E H Q T V R E G V G V F D V S H M G E F I I S G P K A L D L I Q Q
UniRef90_M7XA40 E E H M A V R K D C G L F D V S H M G E I T C I G P D A L K N L N N
UniRef90_G5IFJ9 P F T P K P L F A A S Q L D A T L I S L E D W A L V T L T G P D T V K Y L Q Q
UniRef90_C6CDX4 E E H K M V R A G A G M F D V S H M Q V V D I H G P Q A Q A F L R Q
UniRef90_UPI00037D7B52 H E H R M V R E K A G L F D V S H M G E I V V S G G P Q A G E F L Q Q
UniRef90_UPI0003604F8C K E E H N A V R T N V G L F D V S H M G E I R I E G P P E A A H L V Q Q
UniRef90_E8SHL8 L A E H E T V R T R V G L F D V S H M G E V V F R G G P R A L A A L G G
UniRef90_B4UGZ1 K K E H E A T R M A A G L F D V S H M G E I L T E G G S D N A E Y C L Q Q
UniRef90_UPI00041C9B7D K A E H E A V R T D V G L F D V S H M G E V L V E G S D S T A Y L Q Q
UniRef90_D3UMT2 K E H M A V R T Q A G L F D V S H M G E V L F E G P D A L K N I N
UniRef90_A8S5U0 Q Q A L K R T A Q H N T L Y D L S H L T L L E V V K G A D A V P W L Q Q
UniRef90_Y0KFR8 E E H H A V R E H A G L F D V S H M G E I D V K G E Q A T P W L N N
UniRef90_UPI00011RMZ8 E E V M A V R R N V A V F D V S H M G E L I V E G E D T A K F L D
UniRef90_F7YWE6 K Q E H Q A V R T Q A G M F D I S H M G K F I F K G G D I K Q L Q Q
UniRef90_E0UJZ7 Q E E H H A V R Q K A G V F D V S H M T V V E V A G S G A R D Y L R Q
UniRef90_U7G075 S Q L E E H H V V R T Q A G M F D V S H M T I V D L T G E R V K A F L Q Q
UniRef90_R1H919 E E H N A V R T S V G M F D V S H M T I V D V T G A D A K R W L Q Q
UniRef90_E1VFW6 E E H H A V R R D A G M F D V S H M T V I D L H G A R T R D F L R Q
UniRef90_M4NE36 E H E A I R D R V G M F D I S H M G K F S L Q G G E N A I E Q L Q Q
UniRef90_K9UK75 G V K E E H K A V R T S A G V F D V S H M G E I R T S G G P Q A A E F L Q Q
UniRef90_UPI0003B54B7F M S P F A P L Q E H L A V R E D V G V F D V S H M G E V F F R G P D A E A F V N Q
UniRef90_R5BFE5 K N E H A A V R E R A G L F D V S H M G E V V T I T G K D T V G Y L Q Q
UniRef90_A0A023X7J1 Q E H H A V R R N R V G L F D V S H M G V V T I T G K D T V G Y L Q Q
UniRef90_K2BA17 K H E H E I T R T K A G L F D V S H M G E L V V T G G P S L E F L Q Q
UniRef90_UPI0002626071 P I S E H H A V R N G V G I A D V S Y R G R H Q L T G D D R A K F L H
UniRef90_UPI0003B43645 K E H Q A V R N H A G L F D V S H M G T L K L S A R G A D A D T F L Q Q
UniRef90_W9VEL8 D E H L A V R R N D A G M F D V S H M T I V D L H G A R T R E F L R Q Q
UniRef90_V6Q6X2 K E H E F V R T D A G M F D V S H M V V T D V S G E Q V K A W L Q Q
UniRef90_UPI000472700B E H R A V R S A A G L F D V S H M G N F Y V R G K R A L E F L Q Q
UniRef90_Q0YUI9 E E H H A V R R A A G M F D V S H M R P V D I E G E D A Q T F L R Q
UniRef90_W9V8Q4 S V I A E H E A V R R S V G L F D V S H M G E V E F A G P N P A L T V L N Q
UniRef90_L7UED3 E H Q A V R R Q G V G M F D I S H M G K F D L K G E N G L T A L N Q Q
UniRef90_K9RQD5 D E H Q A V R T D C G V F D V S H M G E V T V K G A D A E R Y V L Q Q
UniRef90_R6WA29 S Q L E E H H T V R R A A G M F D V S H M R P V D I E G A Q A R D F L Q Q
UniRef90_W0E0C6 E H M Q V R R N S V G V F D V S H M G E F W V K G P N A L S F V Q Q
UniRef90_W7XVT8 Q E H M A V R Q Q A G L F D V S H M G E I L F T G P T A L L D T L N Q
UniRef90_R5HQJ1 E H M A V R E K A G L F D V S H M G E V L C Q G K D A L A N L Q Q
UniRef90_R6SF90 K E H M A V R E A A G I F D V S H M G E F W V K G P N A Q K L I Q Q
UniRef90_UPI00029ADA4D E E H H Q V R R D C G V F D V S H M T V V D V T G P Q A K E Y L Q Q
UniRef90_M4WQ68 E E H H Q V R R A G I F D V S H M G V I D L E G E A T A F L R R Q
UniRef90_Q83B06 E H Q A V R R N A A G L F D I A H M G R L F F T G P D A C R F L D R Q
UniRef90_A6CFY1 D E H H I V R R D A G M F D V S H M T I V D L H G A R T R E F L R S
UniRef90_U4TZL1 F T A F G P L K E H R A V R R N S A G L F D L S H M G E I R V N S G D N I A A F L S
UniRef90_U7LZA4 P L G V K K E H L H T R D A A G L F D V S H M G Q I R W S G D N I A A F L S
UniRef90_UPI0003B61E37 K E E H M N V V N N V G V F D V S H M G E F W V K G P K A L E F L Q Q
UniRef90_UPI00036B135F S E L A E H H A V R R N A A G L F D L S H M G E V W V T G P D A G A F L D
UniRef90_F0M412 P L G V K K E H L H T R Q A A G L F D V S H M G Q L R L H G V D A G A A F L E
UniRef90_C9P746 E E H L A V R R K A G L F D V S H M G E F L I R G G E A A L P F L Q Q
UniRef90_B7A6K7 E H E A V R Q R A G L F D V S H M G E F L V T G P R A A S W L Q Q
UniRef90_F8FPT8 E H Q T V R C G V G V F D V S H M G E I V V K G P K A L E L Q Q
UniRef90_G8UP98 E H E T V R N G V G V F D V S H M G E F L I T G P F A F D L I Q
UniRef90_UPI000471E051

QUERY UniRef90_B7GH71 UniRef90_A5UTG6 UniRef90_UPI0003B38D51 UniRef90_A8MEG4 UniRef90_A4J2F6 UniRef90_A0A024PKT3 UniRef90_B8FT33 UniRef90_UPI00047A691F UniRef90_UPI0003764302 UniRef90_A7FRV3 UniRef90_I3DX69 UniRef90_R5B751 UniRef90_A1S967 UniRef90_UPI000479A3AE UniRef90_A1JPM8 UniRef90_D3L4I3 UniRef90_U2DF31 UniRef90_U7VCUA2 UniRef90_E8XM37 UniRef90_D5MLA8 UniRef90_J2U653 UniRef90_K1M2G9 UniRef90_C6VZB1 UniRef90_Q1H016 UniRef90_U6B7C2 UniRef90_M5E0D8 UniRef90_L8JQ51 UniRef90_T0MIW0 UniRef90_UPI00047EA29E UniRef90_G9YU67 UniRef90_A0A010Z0I1 UniRef90_Q1AR89 UniRef90_D1Y0F3 UniRef90_U9VHU4 UniRef90_B0TZJ8 UniRef90_U1KFC8 UniRef90_W4LF14 UniRef90_B9KZ40 UniRef90_C5BM95 UniRef90_M7XA40 UniRef90_G5IFJ9 UniRef90_C6CDX4 UniRef90_UPI00037D7B52 UniRef90_UPI0003604F8C UniRef90_E8SHL8 UniRef90_B4UGZ1 UniRef90_UPI00041C9B7D UniRef90_D3UMT2 UniRef90_A8S5U0 UniRef90_Y0KFR8 UniRef90_UPI00037RMZ8 UniRef90_F7YWE6 UniRef90_E0UJZ7 UniRef90_U7G075 UniRef90_R1H9I9 UniRef90_E1VFW6 UniRef90_M4NE36 UniRef90_K9UK75 UniRef90_UPI0003B54B7F UniRef90_R5BFE5 UniRef90_A0A023X7J1 UniRef90_K2BA17 UniRef90_UPI0002626071 UniRef90_UPI0003B43645 UniRef90_W9VEL8 UniRef90_V6Q6X2 UniRef90_UPI000472700B UniRef90_UPI000364A083 UniRef90_Q0YUI9 UniRef90_W9V8Q4 UniRef90_L7UED3 UniRef90_K9RQD5 UniRef90_R6WA29 UniRef90_W0E0C6 UniRef90_W7XVT8 UniRef90_R5HQJ1 UniRef90_R6SF90 UniRef90_UPI00029ADA4D UniRef90_M4WQ68 UniRef90_Q83B06 UniRef90_A6CFY1 UniRef90_U4TZL1 UniRef90_U7LZA4 UniRef90_UPI0003B61E37 UniRef90_UPI00036B135F UniRef90_F0M4I2 UniRef90_C9P746 UniRef90_B7A6K7 UniRef90_F8FPT8 UniRef90_G8UP98 UniRef90_UPI000471E051

50 60 70 80

G Q V T A D V S Q M A E D Q H L L A A H C D A K G K M W S N L R L F R D G D D H Y
K M M T N D V A K L T D G R A Q Y T L M C C Y P D E D G G T V D D L V Y K K A D D D H Y
Y L V T Y D V A A R L Q P P G R A N Y A L M C C Y P D D G G T V D D L F I Y N R T L G E N Y
K I T T N D A A R L Q P G D A Q Y A L M C C Y P D D G G T V D D L L V Y Y R T L G E N Y
Y L V T N D V A A R L E D N Q I V Y T F M C C Y P D D G G T V D D L L V Y K F N K E Y Y
R L V T N D I S R L K P G C A L Y T P M C C Y P D D G G T V D D L L V Y Y H L A E Y Y
R M L T N D V S R L K A Q Y T I M C C Y P D D G G T V D D L L V Y Y H L A E Y Y
Y L L T N D V S R I Q D N Q I Q Y S P M C C Y P D D G G T V D D L L V Y R Y S R E H F
Y L V T N D V T K L S T N Q A Q Y S A M C C Y P D N G G T V D D L L V Y K L F N E K Y
Y L T T N D V S K L A V G Q V Q Y S A M C C Y P D D G G T V D D L L V Y K R F P E H F
Y L M T N D V I N V L K D N E V L Y T F M C C Y P D D G G T V D D L L V Y K F A E D E F
K M L T N D V I S K L S K T G G A Q Y S A M C C Y P D N G G T V D D L L V Y K L E A D H Y
H I F T N D I R P M V P G G V L Y G M M L Y P D D G G T V D D L L V Y Y T A D H Y
K L L A N D I A K L T P G K A L Y G G M L N H D D G G T V D D L L I T Y Y L S D D Q Y
S V L T S N D V A A L A V G Q V Q Y S T L L R E D A K G K M W S N L R L F Y R F A D D H L
G Q V T A D I D A L P T D Q H V L C A H C D A K G K M W S N L R L F Y R F A D D H L
Y L V T N D V T K L V P G K V M Y S P M C C Y P D H G G V V D D L L I Y M Y D E D Y
N L V T N D I S V L K E D N Q V Y T L M C C Y P D N G G V V D D L V Y K F A E D D Y
K V L S N D I S K L K D G K A Q Y N I L M C C Y P D N G G V V D D L V Y K K N E D D Y
G Q V T A D V D A L A A D Q H L C A H C D A K G K M W S N L R L F K R F A D D G M
R L T P N D A A R L S V G E V Q Y S A L T T P E G T F V D D I T V Y K F A D D R Y
G Q L T L D V A A M G A T Q H R P A A H C D A K G K M W S N I R L F H R F A D D G Y
K V T T N N V A N T V D G Q A Q Y S C L P N E N G G I V D D L L V Y K M A D D Y
Y V T T N N V D S L E T G K A Q Y T C L P N G N G G I V D D L L I Y K M S D D Y
G Q V T N D V D K L L E D G N I S H Y S G Y C P K G R L L A F L A F A Q D G R Y
A T L S N D I S K I A V I G Q A Q Y N V L C Q S E D G G T V D D L L V Y R L A E D Y
K L L A N D V D K L T E D G K A L Y S G M L N H D D G G V I V D D L L V Y R M E G W Y
R V T S N D A S K L E D G K A Q Y S C L P N E N G G I V D D L L V Y K L K D N Y
K V T V N D V K K L W M Y Q V Q Y T V M C C Y P D G G G I V D D L L V Y K L P D R W
S V L T N D V E K L K T N G Q A Q Y S A M C C Y P D G G T V D D L L V Y Y K R G E D Y
R L M T N D F S G M A D G Q A R Y S P M C C Y P D D G G V V D D L L I V Y Y R C S D T A
R L L T N D F T D M E I G Q A R Y S P M C C Y P D H G G T V D D L L I Y K K E E E Y
U P I 0 0 0 3 7 6 4 3 0 2 R L L T R D V S L P G E G Q A Y A A V C L L E S N G G T V D D L V I A Y R R G E E F
N L F T N D V T N A P L G Q V Y Y G M M C H P S N G G T V D D L L V Y K M G E E F
Q L V P S D L G K L S P G K A Q Y T V L L N P Q G G I I D D L L I Y D E G S D Q V
H I L A N D V A K L E A G K A Y G C M L N H E A G G I I D D L L I Y K I D S E E F
K L V A N D V A K L K V G K A L Y T G M L N E S G G V I V D D L L I Y F F T E E Y
Y L T L N D V S G L Q D F Q L Q Y S A L C N E S G G L I D D L I T I C R L G E R F Y
W L T P N D V A A L R P G R A Q Y S M L L Y P H G G V V D D L M I Y R R P N D E Y
Y L L A N D V D R L K P G K A L Y T G M L N E S G G V I V D D L L V Y L M V N G Y
K V T S N D A S K L V I G Q A Q Y S C F P N D R G G I V D D L L I V Y K L E D E Y
H L L T N D F T S M K D G Q A R Y S P M C C Y P D D G G V V D D L L Y K I R D H Y
G Q L T A D I T A L Q P H Q H T L S A H C D A K G K M W S N L R L F H Y R G D G L
Y L L A N D V A K L K E G R A L Y S C M L N E Q G G V I D D L L I Y W T G D T Y
Y M T N D V A R L L A R G Q I C Y S L L C C Y E D G G V V D D L L I Y K L G E E F
Y V L S N D T N Q L T L S K A Q Y T A L C C R D S G G V I D D L L V I Y Q L G E Q Y
R L F T N D L S K V A D G Q A Q Y G C L C C R D S G G I V D D V V Y R R S A E D L
K L L T N D I A K L T P K R A Q Y T M M C C Y P D D G G T V D D L L V Y Q L A E R Y
Y L L S N D I E K L K I G K A Q Y N I M C C Y P D N G G T V D D L L V Y K I T E T Y
Y L T N D F T N M Y D G Q V R Y S V M C C Y P D G G V V D D L I Y R Y N Q D E K Y
G Q V T N D V K L L D G K H A H Y T G Y C S P K G R L L A F L F A F A H Q D H L
R L I T N D L S A I T N G Q A L Y T L I T N E A G G I I D D V I I F F K R S E Q D
H I L T N N F S T L K V G Q V Y S V M C C N Q N G G I I D D L L A Y R L G E N K
E L V P S N L S R I A Q A G Q A Q Y T V L L N P Q G G I I D D L I V Y Y Q G D E V
H L L A N D V A K L A P G R A L Y S G M L N E R G G V I D D L L V Y Y K R D N D Y
H L L A N D V A K L T P G K A L Y S G M L T P E G G V I D D L L I T Y Y L D D S F
K L L A N D V E R L K P G K A L Y T A M C C N E D E R G G I I D D L L V Y R M A V E E F
H L L A N S V D R L K H G K A L Y S C M L N E R G G V I D D L L I V Y Y L G E E F
T L V P S D L S R L K P G Q A Q Y T V L L N A Q A G I I D D L I V Y Q E G A G T
R I L S N D I E R K A V G G S Q Y S V L C K P D G G V L D D L F T Y R K E A D V
H I F T N D I R P M A E G S V L Y G M M V Y P D D G G T V D D L L V Y Y K E P A H D Y
R L V T R D V G R L A V G Q A G Y A A V C Y E S G G T V D D V L V Y R R E G E F
F L L A N D V A K L K T G D A L Y S C M L N E N G G V I D D L I A Y R F S E H
K V V T N D V S K L T P K R A Q Y T F M C C Y P D D G G T V D D F I V Y M L E T N Y
R L I S N D V E N L S A G Q G T Y A T L L T H R G K I I A D L N I Y A L L E D A I
G Q L T N D V R E L S P T R S Q L T S A H C S H K G R V M A V F R L R R E D D G L
K I G T N D F S C M K S G D V R Y T L M C C Q E N G G V I D D F I V Y Y C Y E D H Y
Y L L A N D V A R L T P G K A L Y T A M L N A S G G V I D D L I Y F M T E D H F
Y L L A N D V D K L K V G K A L Y S P M L N E Q A G G V I D D L L I V Y L S N E E Y
S V L T N D I S K A K K D G K A Q Y N L M L Y P S A G G I V D D L L V Y R L D S E T F
R L L A N D V A K L S P G K A L Y S C M L N P A G G V V D D L I V Y A R G P N Y
G L I S N D L A R I A D G Q A Y A G L L N E Q A G G V I D D L V V Y R F S P E R Y
P L V P T D L S Q L Q P G Q A K Y T V F L N H Q G G L V D D L I V Y Y C H S P E R Y
H I F T N D V S K I E A G Q I L Y G M M L Y D N G G T V D D L L V Y K M A E D F
H L L A N D V A R L T P G K A L Y S C M L N P E G G V I D D L L V Y Y L R G E R Y
K V T S N D A S K L K V I G D A Q Y S C F P N D R G G I V D D L L V Y Y E D Q Y
H L L T N D Y S G M P V N K V R Y G V M C C N A Q G G T I D D L V V Y K F G E E A
K L L T N D F T N M V D G Q A R Y S P M C C Y P D N G G T V D D L L I V Y K R G D D Y
Y V T S N D V S A L A V I G Q A Q Y S C L P N K Q G G I V D D L L I Y H Y E A E K Y
R L L A N D V E R L Q P G K A L Y S G M L N E R G G V I D D L L I V Y L G V Y G Y
Y L L A N D V A K L S D G R A L Y T C M L N P Q G G V I D D L L I V Y R V A P G Y
R L L T N S V E S L K P G Q I R Y S L V T N E S G G V I D D L V V Y R F S D F Y
Y L L A N D V A K L T P G K A L Y T G M L N A S G G V I D D L L I V Y F F N E D F
Y S F I S N L D S L K V G K A K Y S M I T A E D G G I I D D L L I S Y R F E D D F
A I L P Q D V L G L A E S Q R Y G M L L N E Q G G I I D D L L M M A N R G E D F
K V S S N D A S K L A V I G Q I Q Y S C F P T E N G G I I D D F L L Y R Y E E D Y
Y A L A G K L S A V A V G K A K Y S L T C Q P D G G I I D D L L S Y N R S E D K
R L V P V N D V I D V P V G K Q R Y A I L F T N P Q G G I I D D L L M V A N L G D H L
W A T V N D V G K L K V G R A Q Y S M L P S E R G G V V D D L I Y L Y R L G E A Y
R L T T N D I G R L Q D G E A Q Y S T L L C Y P D G G T V D D L L V Y R L A D R E Y
K V T S N D V A S R L P V G K A Q Y S Y F P N E Q G G I V D D L I V Y H Y E D Y
K V T S N D V A K L T D G K A Q Y S Y L P N D T G G V V D D L I V Y K L E D Q Y

QUERY A W I E R R S V R E P Q L T E L K K Y A V F S K V T I A P D D E R V L L G V A 90 100 110 120

UniRef90_B7GH71 L L V V N A A N I E K D F A W L S E H V V G D V E L V A I S N D I A Q L A L L Q G G

UniRef90_A5UTG6 L I V V N A A N T A K D D V A W M H E C A K G F D N V T V D V S D D D I A G M L A L L Q G G

UniRef90_UPI0003B38D51 L L V I N A A S N I A K D D V A W M K H H Q T D E V K I E N I S D S D D I A Q L A L L Q G G

UniRef90_A8MEG4 Y L V V N A A S N S D K D F A W M N E N K G A Y D V E I L N I S D S V S Q V L A L L Q G G

UniRef90_A4J2F6 L L V V N A A S N T D K D F H W I V S Q Q V P G V E I Q N V S D E V T C Q L A L L Q G G

UniRef90_A0A024PKT3 L L V V N A A S N R V K D Y E W L K S H I Q G E V T I D Q S D E Y V Q L A L L Q G G

UniRef90_B8FT33 L L V V N A A S N T D K D F A W M Q A Q A E G F E I S E N R S G D F A Q L A L L Q G G

UniRef90_UPI00047A691F L L V I N A A N I A K D D F E W M Q Q N H V K M E G V T L K N I S S N E T A Q L A L L Q G G

UniRef90_UPI0003764302 M L V V N A A N I A K D D F A W A K Q N H V K M E G V E L I D Q S D E T A L L A L L Q G G

UniRef90_A7FRV3 F L V I N A A S N K D K D V K W I M D H K G D F D V E I V D V S D S A Q L A L L Q G G

UniRef90_I3DX69 L L V V N A A N I E K D F E W L K R H L D E N V E M N N L S S E Q M A Q L A L L Q G G

UniRef90_R5B751 L L V V N A A N I E K D F L W I V K R D H A E G Y D V K I N D S D N W M G Q I A L L Q G G

UniRef90_A1S967 R V V V N S A T R E K D L A W I G E Q A K G F D V T I T E R P E L A M I A L L Q G G

UniRef90_UPI000479A3AE M L V V N A A N I E K D D L A H L Q A N I G R F D C T M D I S S D D D T A L I A L L Q G G

UniRef90_A1JPM8 A F I E R R S V R L D N Q L S E L K K Y A V F S K V V I A A Q P D A V L L G V A L L Q G G

UniRef90_D3L4I3 L L V V N A A N K D K D Y Q W L V D K S K K F D V K A E D V S D Y A Q I A L L Q G G

UniRef90_U2DF31 L L V I N A A S N I E K D F E W M L E N K S N Y E V E K N I S S E E I S E V A L L Q G G

UniRef90_W7CUA2 L L V V N A A N T E K D F E W L Q R H A A E D V T V E N V S A D Y G Q L A L L Q G G

UniRef90_E8XM37 A F I E R R N L R D T Q L T E I K K Y A V F S K V T F T A D D D V L L A L L Q G G

UniRef90_D5MLA8 Y G V T N A A N I E K D Y A W I R E H V P S G V E V R N A S D D D R A L L A L L Q G G

UniRef90_J2U653 A Y T V R R N L R E Q Q L T E L K K Y A V F A K V T I V A D D D A V L L A L L Q G G

UniRef90_K1M2G9 F V V V N A S N I D K D W A H I S K Y N S Y G A E M K N V S D E M S L L A L L Q G G

UniRef90_C6WZB1 F V V V N A S N I E K D W N H I T K Y N E K F G A K T N V S D D E L S L I A L L Q G G

UniRef90_Q1H016 Y L Q F D R G L L E P I A K R L R M Y V L R S K V V I D R S D D D T V R I A L L Q G G

UniRef90_U6B7C2 L L V V N A A S N I E K D E Q H L R H Y L T G D V T L E N Q S E Q Y G Q I A L L Q G G

UniRef90_M5E0D8 R T V V N A S N T R E K D L E W M D K K Y S R G F D I S L T E R P E L A M V A L L Q G G

UniRef90_L8JQ51 M L V V N A A N I E K D W N W L E Q K K F G D V T L E N I S S D E T A L L A L L Q G G

UniRef90_T0MIW0 M L V V N A A N I E K D W N W L E Q K K F G D V T L E N I S S D E T A L L A L L Q G G

UniRef90_UPI00047EA29E L L V V N A A S N I E K D Y D W S R I E G F E N V E V T N V S D D D Y A Q I A L L Q G G

UniRef90_G9YU67 L L V V N A A S N I E K D R D W M T A H L A G D C T L E L D L S D D Q T A Q L A L L Q G G

UniRef90_A0A010Z0I1 F I V V N A A S N K E K D Y Q W M L E H K L G E V V F E D I S S D K I T Q I A L L Q G G

UniRef90_Q1AR89 L V V V N A A N R E K D L A H F R R H T A D L D V E I D E T E S W A L L A L L Q G G

UniRef90_D1Y0F3 F L V Y N A A G N I D K D V A W I D A H K E G F D I K I E H S S R Y G Q L A L L Q G G

UniRef90_U9VHU4 S L I V N A A T T D K D K S W L L K H L T N I E L E D L S Q T H G L I A L L Q G G

UniRef90_B0TZJ8 R I V V N A A G N R E S D V A W F R E N S Q D L D V K I T P Q N L A I V A L L Q G G

UniRef90_U1KFC8 R L V V N S A T R E K D L A H M N G V A A D F D V A I T E R P E Y A M I A L L Q G G

UniRef90_W4LF14 L L I I N A A G N I E K D V A W I Q Q H L P A G A E A T N L S D Q K A L L A L L Q G G

UniRef90_B9KZ40 L V V V N A A N T E K D V A W L L E H R A W R V E T E D V S A S T G M L A L L Q G G

UniRef90_C5BM95 R L V V N A C A T R E K D L A W I N S Q A E Y D V T V I E R P E L A M I A L L Q G G

UniRef90_M7XA40 M L V V N A A S N I E K D W N W V K Q H N T M G A D M K N I S S D E I S L F A L L Q G G

UniRef90_G5IFJ9 F L V V N A A S N R E K D Y A W M K A H E F G D A V F E D I S S E T V G Q I A L L Q G G

UniRef90_C6CDX4 A Y I E R R S V R E N Q L S E L K K Y A V F S S K I T L S T D D N A V L L A L L Q G G

UniRef90_UPI00037D7B52 R A V V N A A T A E G D I A H M Q Q V A K D F D V N V E P R P E F A L L A L L Q G G

UniRef90_UPI0003604F8C L L V V N A A N T A K D L A W L E H A R P G V Q L R D M S N Q Y A Q L A L L Q G G

UniRef90_E8SHL8 L L V V N A A N V D K D Y D W I V Q H S S R F D A T N V S D D Q Y A Q L A L L Q G G

UniRef90_B4UGZ1 L V C V N A A G N R Q K D F E W L A G H A A G A D V R N E S D D W A Q L A L L Q G G

UniRef90_UPI00041C9B7D L L V V N A A N R E K D Y Q W L Q E N K I E G V S I K D I S D D Q Y V Q L A L L Q G G

UniRef90_D3UMT2 I L V V N A A N T E K D Y E W M V K N V F G N V T V T N V S S M Y G Q L A L L Q G G

UniRef90_A8S5U0 L V V V N A A N R E K D V N W M K D H L N G D V V F T D I S S D E L S Q L A L L Q G G

UniRef90_Y0KFR8 H L Q L P K S I A D A V S K R L K M Y V M R S K V T I S D Q S D R L I L A L L N G G

UniRef90_A0A011RMZ8 F L V P N A A S N T G K I R D W F L K H Q D G S V D I S D Q S L E T G L I A L L Q G G

UniRef90_F7YWE6 M L V V N A A N T K K D Y E W I V Q N A K N F K V T K D E S F S F G L I A L L Q G G

UniRef90_E0UJZ7 T L I V N A A T T E K D K T W L E H S Q S V E F A D L R S Q E K A L I A L L Q G G

UniRef90_U7G075 R L V V N C A T R E T D L A W M E Q H H A G F A V D I R E R A D L A M L A L L Q G G

UniRef90_R1H9I9 Y M V V N S A T R D K D L A W I R Q H A A A F A V T V S E Q P S L A M I A L L Q G G

UniRef90_E1VFW6 R M V V N C A T R E K D M A W M K Q L V G F D A Q I R H Q P E F A L I A L L Q G G

UniRef90_M4NE36 F L V V N A A T R E K D L A W I E R Q A K A F E V E V K E R P E F A M I A L L Q G G

UniRef90_K9UK75 V L I V N A G T K D K D K D W L L S H L D L T T V T F E D S A K Q A L I A L L Q G G

UniRef90_UPI0003B54B7F Y L V T N A A S N H A K D L A W F Q R W A A D F E V E V E D A F D F A M L A L L Q G G

UniRef90_R5BFE5 L L V V N A A S N V A K D F E W M R K N S E G Y D V V L D N A S D W G Q I A L L Q G G

UniRef90_A0A023X7J1 M V V V N A A N R Q K D V E H F R D N T G D L D V E I S D E S D W A L L A L L Q G G

UniRef90_K2BA17 F L V I N A A G C R E K D V A W M Q L Q A K N F S V Q L K L R D D L C L A L L Q G G

UniRef90_UPI0002626071 L L V V N A A N T E K D F E W L K E H N D N D V S I E N V T V D Y V Q L A L L Q G G

UniRef90_UPI0003B43645 T I D T A P E T R E N V F T E L D K Y I A D D V E F S D T A E T G A I A L L H G G

UniRef90_W9VEL8 Y L Q T A A D R V A E L K R L G M Y V L R S K V T L A D V G D E C L M G L A G L A G G

UniRef90_V6Q6X2 R L I I N A A S N R S E D E Q W I R G H L A T R D S V L E S L S D E T A I L A L L Q G G

UniRef90_UPI000472700B R L V V N S A T R E K D L A W L S S H A T P F G V T L Q E R S E L A L L A L L Q G G

UniRef90_UPI000364A083 R I V S N A A T R E K D L A Q F T K T A A P F G V T I K E R P E L A M L A L L Q G G

UniRef90_Q0YUI9 F L I V N A A S N A P K D Y A W L Q E H A F D G V L E D H T D R L S L I A L L Q G G

UniRef90_W9V8Q4 R L V V N A A T A D N D I A W M R E H A R D A L E I R P R D D L A M I A L L Q G G

UniRef90_L7UED3 L I C V N A A S N R D K D F A W M K A H A R G V A P V D R N G D E Y A Q I A L L Q G G

UniRef90_K9RQD5 V L I V N A A S T R A K D W A W M L Q A H L N T T E L A L E N S Q T D T V L I A L L Q G G

UniRef90_R6WA29 F L V V N A A N I D K D W E W M Q K Q S E G F N I E L N R S E D Y G Q I A L L Q G G

UniRef90_W0E0C6 R L V V N A A T A K D L D W M A Q Q R A G F A V D I L E P R E D L A M I A L L Q G G

UniRef90_W7XVT8 L L V V N A A S N I E K D W K C V E N N T M G A V E L E N A S D Q I S Q L A L L Q G G

UniRef90_R5HQJ1 Y L V V N A A S N R E K D Y A H M A Q N L L P G T K A E D I S S D T V A Q L A L L Q G G

UniRef90_R6SF90 F I V V N A A N K D K D Y Q W M L D H Q F G V T F T D A S S Q Y G Q I A L L Q G G

UniRef90_UPI00029ADA4D M L V V N A A S N M E K D W Q W I N E N N S F G A E L E N A S D K I S L I A L L Q G G

UniRef90_M4WQ68 R V V V N A A S T R D K D M A W M Q A H T E G F D V T L T E R A D L A M L A L L Q G G

UniRef90_Q83B06 R L V V N A A T R D K D I A W I K E G G A G Y K V S I S E R P E M C I L A L L Q G G

UniRef90_A6CFY1 M L V V N A A S N R L K I V D W I E G Q R S G F D V R I E D T R D K F M L A L L Q G G

UniRef90_U4TZL1 F L V V N S A T R E K D L A W I S E H A K P Y S I E L T V R D D Q A L I A L L Q G G

UniRef90_U7LZA4 L V V P N A G N A D T V W D E L N K R S E G F D V E K N E S R D V A M I A L L Q G G

UniRef90_UPI0003B61E37 M L V V N A A C K Y D D A W L R K H L P G S I E L E L R D R A L L A L L Q G G

UniRef90_UPI00036B135F M M V P N A A N V E K D W A W C V K H N T M G A E L E N G S D H I A Q L A L L Q G G

UniRef90_F0M4I2 Y L V V P G N A A V V A A A L A E R A N F D V R V Q D A S A E T S L I A L L Q G G

UniRef90_C9P746 L L V V N A A C K A Q D I A H L T A H L P A G V H L E V I E D R A L L A L L Q G G

UniRef90_B7A6K7 L M V V N A A N I A K D L H L K A L A R G F R V E V E D V S E T A L L A L L Q G G

UniRef90_F8FPT8 M L V V N A A S N I A K D F E W L Q R H Q V P G A H L E D R S E A T A L L A L L Q G G

UniRef90_G8UP98 L L V V N A A S N V K N F D W C V K H N T M G A E L E N A S D N M A Q L A L L Q G G

UniRef90_UPI000471E051 L L V V N A A S N I Q K D W D W L S R H N T M N A T M R D L S E E Y A L L A L L Q G G

QUERY
UniRef90_B7GH71
UniRef90_A5UTG6
UniRef90_UPI0003B38D51
UniRef90_A8MEG4
UniRef90_A4J2F6
UniRef90_A0A024PKT3
UniRef90_B8FT33
UniRef90_UPI00047A691F
UniRef90_UPI0003764302
UniRef90_A7FRV3
UniRef90_I3DX69
UniRef90_R5B751
UniRef90_A1S967
UniRef90_UPI000479A3AE
UniRef90_A1JPM8
UniRef90_D3L413
UniRef90_U2DF31
UniRef90_W7CUA2
UniRef90_E8XM37
UniRef90_D5MLA8
UniRef90_J2U653
UniRef90_K1M2G9
UniRef90_C6WZB1
UniRef90_Q1H016
UniRef90_U6B7C2
UniRef90_M5E0D8
UniRef90_L8JQ51
UniRef90_T0MIW0
UniRef90_UPI00047EA29E
UniRef90_G9YU67
UniRef90_A0A010Z011
UniRef90_Q1AR89
UniRef90_D1Y0F3
UniRef90_U9VHU4
UniRef90_B0TZJ8
UniRef90_U1KFC8
UniRef90_W4LF14
UniRef90_B9KZ40
UniRef90_C5BM95
UniRef90_M7XA40
UniRef90_G5IFJ9
UniRef90_C6CDX4
UniRef90_UPI00037D7B52
UniRef90_UPI0003604F8C
UniRef90_E8SHL8
UniRef90_B4UGZ1
UniRef90_UPI00041C9B7D
UniRef90_D3UMT2
UniRef90_A8S5U0
UniRef90_Y0KFR8
UniRef90_A0A011RMZ8
UniRef90_F7YWE6
UniRef90_E0UJZ7
UniRef90_U7G075
UniRef90_R1H919
UniRef90_E1VFW6
UniRef90_M4NE36
UniRef90_K9UK75
UniRef90_UPI0003B54B7F
UniRef90_R5BFE5
UniRef90_A0A023X7J1
UniRef90_K2BA17
UniRef90_UPI0002626071
UniRef90_UPI0003B43645
UniRef90_W9VEL8
UniRef90_V6Q6X2
UniRef90_UPI000472700B
UniRef90_UPI000364A083
UniRef90_Q0YUI9
UniRef90_W9V8Q4
UniRef90_L7UED3
UniRef90_K9RQD5
UniRef90_R6WA29
UniRef90_W0E0C6
UniRef90_W7XV78
UniRef90_R5HJQ1
UniRef90_R6SF90
UniRef90_UPI00029ADA4D
UniRef90_M4WQ68
UniRef90_Q83B06
UniRef90_A6CFY1
UniRef90_U4TZL1
UniRef90_U7LZA4
UniRef90_UPI0003B61E37
UniRef90_UPI00036B135F
UniRef90_F0M412
UniRef90_C9P746
UniRef90_B7A6K7
UniRef90_F8FPT8
UniRef90_G8UP98
UniRef90_UPI000471E051

130 140 150 160
F Q A R A A L A N L F S E L P S K E K Q V V K E G A T T L L W F E H P A E R F F E
P L A E K V L Q Q L T T V D L S T M K F F A F A D H V D V R T G Y T T G G E D G G F F E
P L A E A L L A Q T V L T P F H G V M Q K R V V H T P A I V A R T G Y T T G G E D G G F F E
P L A E E S L L Q T L T E T D L S E I I P F F F K F K N D V V I N T G Y T T G G E D G G F F E
P K A E E I V Q E L T L T D T D L S E I I P F F F Y F K N D V V I N T G Y T T G G E D G G F F E
P Q A E E K L L Q R L T A V D L S S H I K S F C F V Y G A I S R T G Y T T G G E A G G F F E
P K A E Q T L Q R T I T D S D L S S D I K F F R F K Q G V I S R T G Y T T G G E D G G F F E
P W A E K T L Q K L T S M D L A S Q I L N Y Y W F K H G L I S R T G Y T T G G E D G G F F E
P K A E R L L Q K L T D T D N L S E I L G S F K F E Q H V N V S R T G Y T T G G E K G F F E
P L V F E T L Q P L T P F Y H F S Q E I G K I A G L D A I I S R T G Y T T G G E D G G F F E
P L A E E T L Q K K I V D V D L Q E I K F F K L K R D V V S R T G Y T T G G E D G G F F E
P K A E E V L Q K L I P E T N L N E I L G F F K F R A L V S R T G Y T T G G E D G G F F E
P K A E A T L A A S L S F Y T F K D F E D A G M R V I I S R T G Y T T G G E D G G F F E
P N A K A K A A T V F T A E Q N A A V E G M K P F F G K Q T T G Y T T G G E A G G Y F E
U N I R E F 9 0 _ U P I 0 0 0 4 7 9 A 3 A E P A P A I V A S L A D G Y W F T E G N V A G V V P C I T S R T G Y T T G G E L G F F E
T N A K A V L A E V F A E L P N A D H P V V V Q G G D S T L L Y F S L P A E R F F E
P K A E G I L Q K L T D V A L D E M K F Y T F K D R V S V R T G Y T T G G E D G G F F E
P N A E K I L Q T L T A F N L D D I K F F Y C R R D V V I D G I Y T T G G E D G G F F E
P N A E K V L T G L T D A D L G A L T F F G F V D N V Q V A G V Y T T G G E D G G F F E
F Q A S A A L T G L F S T L P T A E Q Q V V Q Q D E T T L L H F S L P A E R Y F L E
U N I R E F 9 0 _ D 5 M L A 8 P R A Q E L L G K L T S T F R F V E E G Q A I G I D C C C S R T G Y T T G G E D G G F F E
F Q A R A A L A N L F S T L P D A E T P V V V Q H G E S T L L W F A H P A E R F F M
U N I R E F 9 0 _ J 2 U 6 5 3 P L A T Q T L Q K L T D T A L S E I P Y Y H F T I G T I S N T G Y T T G S G G G F F E
U N I R E F 9 0 _ K 1 M 2 G 9 P K A S E T L Q K L T E T N L A E L P Y Y H F T Q G I I S N T G Y T T G S G G G F F E
U N I R E F 9 0 _ C 6 W Z B 1 N A A E A A L N T R F S H I P L E T E Y A Q V V S Q D G L I I R L P G T G L P R Y E
U N I R E F 9 0 _ Q 1 H 0 1 6 P R A E A T L S G M T P L V L S E I T G F F K F Q Q G T V S R S G Y T T G G E D G G F F E
U N I R E F 9 0 _ U 6 B 7 C 2 P K A T E I V Q G L K T E A A D L S I Q G L P H S D W F F A R T G Y T T G G A D G G L E
U N I R E F 9 0 _ M 5 E 0 D 8 P K A T E I V Q K L T N T D L S E I V K F Y T F V H G I M S A T G Y T T G A G D G G F F E
U N I R E F 9 0 _ L 8 J Q 5 1 P L A E K V M N R L T D F Y W G M E E N V L G N K I L F S R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ T 0 M I W 0 P L A E Q I L Q K E T D T D L S E I T F F K F R D G V K I S R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ U P I 0 0 0 4 7 E A 2 9 E P G A E A L L R T L E T A D I P A E K N Y T A V L H G T V D S R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ G 9 Y U 6 7 P R S Q E I L M K L T T D I P E K Y Y H A I F D G K V A G I T C M T G G E D G G F F E
U N I R E F 9 0 _ A 0 A 0 1 0 Z 0 1 1 P E A E R L L Q P F V A G D L S A E T H V D G G A E A I V A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ Q 1 A R 8 9 P E A E A V V D E L V G F Y T A M E F N V D G A E L V L A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ D 1 Y 0 F 3 P Q A V A T L Q L L T P R Y N H T Y G N V L D H Q A F L A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ U 9 V H U 4 P K A V E I V K H T I L T E V A A E E I A K F F S N W M F A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ B 0 T Z J 8 P N A K A K T A T I V L N D A Q N A A F G V Q A E E L F J A T T G Y T T G G E D G G Y E
U N I R E F 9 0 _ U 1 K F C 8 P A A E T T L Q R L T P A P L S D A A R V A D S E D V L V S R L G Y T T G G E D G G F F E
U N I R E F 9 0 _ W 4 L F 1 4 P R S E A I L Q R L T P A D L S A V I Q S T V A G V P T L I A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ B 9 K Z 4 0 P L J A R A V L E E L K I F Q G V P L S G E G Y A D W F V A R T G Y T T G G E D G G Y E
U N I R E F 9 0 _ M 7 X A 4 0 P K A A E A V Q S L T A V D L S A L K F Y H F T V G I I S G T G Y T T G A D G G F F E
U N I R E F 9 0 _ M 7 X A 4 0 P K A H E L L A K L A E E I P E K Y Y S A V V F D G H V I S K T G Y T T G P T E R F F E
U N I R E F 9 0 _ G 5 I F J 9 H E I R T Q L A T Q F S S L P D A D T P V V V Q Q D G A T L L Y L P Q P T E R F F E
U N I R E F 9 0 _ C 6 C D X 4 P Q A V D K T L P L L P E D L R S A A D L K P F S A V W N R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ U P I 0 0 0 3 7 D 7 B 5 2 P R A E K I L Q P N T D K D L A A L M K Y Y W F Y Q A V V R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ U P I 0 0 0 3 6 0 4 F 8 C P N A R R I L Q D N V S E D V S E M G M F E F K Q N V K I L F G Y T T G G E D G G F F E
U N I R E F 9 0 _ E 8 S H L 8 P L A A Q L L Q R L T T S Y R F G E G E V A G V R C I V A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ B 4 U G Z 1 P K A E S I L Q K M T E I D L S A T R F F R F E S D V P F N T G Y T T G G E D G G F F E
U N I R E F 9 0 _ U P I 0 0 0 4 1 C 9 B 7 D P N A E K I L T K L T D V D L S S I S F F G F V E D A N V A G V Y T T G G E D G G F F E
U N I R E F 9 0 _ D 3 U M T 2 P N A D A I L R K L T E D T P E K Y Y S F V P E G C I V S Q T G Y T T G G E S G Y E
U N I R E F 9 0 _ A 8 S 5 U 0 P G A S Q I L L Q H F S E V P A A H Y A L S T L J E Q A T K L P S I A G H D R Y Q
U N I R E F 9 0 _ Y 0 K F R 8 P K A E A V A A E V F G E S I R E L K N Y H F Q A E I N T A D F Y Q A E I N T A D F Y Q
U N I R E F 9 0 _ A 0 A 0 1 1 R M Z 8 P T S E S F L S K Y L P D Y S F A S Y V L F G K N C L V S R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ F 7 Y W E 6 P Q A E S F L Q S F V K E D L S G V K L F E H Q P G F L A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ E 0 U J Z 7 P E A R D I T A G L L D G A R A E A F G F A E D G E W M L A R T Y T T G G E D G G V E
U N I R E F 9 0 _ U 7 G 0 7 5 P E A K A L A A K V F S A E Q N A A F G V Q A G D L F I A T T G Y T T G G E E G Y E
U N I R E F 9 0 _ R 1 H 9 1 9 P R A V Q K T A D V L L G N A Y A A A H G I P V G E W F I S R T G Y T T G G E D G G L E
U N I R E F 9 0 _ E 1 V F W 6 P N A R A K V L G L L H E V D A A A Q G P H G M P L F V A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ M 4 N E 3 6 P E T V R H L Q P F V D I D L S Q L T N F G H N P A F I A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ K 9 U K 7 5 P T A R Q V V T Q V L G H F L P A A F K V N G G A D V L V A R T G Y T T G G E D G G V E
U N I R E F 9 0 _ U P I 0 0 0 3 B 5 4 B 7 F P S A E K T V A S G L F Y F M D E Q V D G K A I V S R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ R 5 B F E 5 P E A E G L L Q R L T E T D L S G E D E V D G K A I V S R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ A 0 A 0 2 3 X 7 J 1 P D A T J A M L E N L F D K N P Q F Y D V T P T T I S R T G Y T T G G E S G V E
U N I R E F 9 0 _ K 2 B A 1 7 P K A E T I L Q R M T D M D L S Q I K F R F F G G A I V S R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ U P I 0 0 0 2 6 2 6 0 7 1 P K S P E L V Q S V L G N R T R E A D A L F K N A I V C V R T D S T G E T G Y M
U N I R E F 9 0 _ U P I 0 0 0 3 B 4 3 6 4 5 E E A P R R L S D L G M T V P R K N D E V A S A D G L T L R L P Y G P I P R F E
U N I R E F 9 0 _ W 9 V E L 8 P E S H D L L S Q L L S D L P S K N K F T M V E T A E Y G L F Y T T G G E D G G Y E
U N I R E F 9 0 _ V 6 Q 6 X 2 P H A Q Q K V Q S L L T E R Q R Q D F G V Q S G E L F I A T T G Y T T G G E S G Y E
U N I R E F 9 0 _ U P I 0 0 0 4 7 2 7 0 0 B P K A T E K L L V A K P F S W A E Q V N A L K A F V G V D A K T G Y T T G G E D G G V E
U N I R E F 9 0 _ U P I 0 0 0 3 6 4 A 0 8 3 P L J A L N L S R V F P S F H F C S A L F N G S E A I I A R T G Y T T G G E Q G V E
U N I R E F 9 0 _ Q 0 Y U I 9 P L A R S R T E P L L P E A M R A E F A A D D E R W F V G R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ W 9 V 8 Q 4 P K A A G L V Q R L T G T Y R F A E G E V A G V R C I I S R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ L 7 U E D 3 P K A V Q A L Q P L V D I P L D G L K N Y H H Q P A T I H R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ U 4 T Z L 1 P N A E T V V E E V L G I A C K E L T F Y T I G D V I V S R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ L 7 U E D 3 P K A A R A K T L P L L A A P L A E R F A T E H E D W F V G R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ W 0 E 0 C 6 P K A L E T L Q K L T E I D L S Q I P Y Y S F I T G I I S N T G Y T T G A G G F F E
U N I R E F 9 0 _ W 7 X V 7 8 P K A P A T L K S L L P E D Q T P K G Y Y T A L P R V E I Q G I Y T T G G E L G Y E
U N I R E F 9 0 _ R 5 H J Q 1 P K A M E I L K K L T A E H A V F D T E V A G I P C I I S K T G Y T T G G E D G G V E
U N I R E F 9 0 _ R 6 S F 9 0 P K A S L L Q M D L S S I P Y Y S F T K V G E I G M V E N N T G Y T T G S G G F F E
U N I R E F 9 0 _ U P I 0 0 0 2 9 A D A 4 D P N A R E K T A E L V T P S R A A L I R E A D G D W F I A R T G Y T T G G E D G G L E
U N I R E F 9 0 _ M 4 W Q 6 8 P Q A T A A A K S I E D E A L Y A Q L E A L K P F H F I S R T G Y T T G G E D G G L E
U N I R E F 9 0 _ Q 8 3 B 0 6 P Q S L A L A N S P L V E A E L S E E T R V S G V D A L V S R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ A 6 C F Y 1 P Q A Q E R A Q T L F T D E Q K Q A F G V Q A G S L F I A T T G Y T T G G E A G Y E
U N I R E F 9 0 _ U 4 T Z L 1 P K A A E I L V P L V E D Y A A T M G K V A R T F A I I A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ U 7 L Z A 4 P K A R E V L S R L A P A T A E M R F M V G N S D C W L S C S G Y T T G G E D G G F F E
U N I R E F 9 0 _ U P I 0 0 0 3 B 6 1 E 3 7 P K A T Q V M Q K L S E I P Y Y T F K V G E F A G C P N N T G Y T T G C G G F F E
U N I R E F 9 0 _ U P I 0 0 0 3 6 B 1 3 5 F P N A E A V L T L V P A E Q H P L R V T E L K Y A A V E R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ F 0 M 4 1 2 P K A A Q I L A Q W Q P A V A D M R F T M D I Q I E C I V S R S G Y T T G G E D G G F F E
U N I R E F 9 0 _ C 9 P 7 4 6 P E A A A I L Q S L T G A D L S A E A Q V A G R P A R L A R T G Y T T G G E D G G F F E
U N I R E F 9 0 _ B 7 A 6 K 7 P R A A A I L A Q A A E G P L P E I R P F A F A E N V P L C T G Y T T G G E D G G F F E
U N I R E F 9 0 _ F 8 F P T 8 P K A A E V M Q R L T P V I D L S S I P Y Y G C P D V I I S N T G Y T T G A G G F F E
U N I R E F 9 0 _ G 8 U P 9 8 P K A A I L A I Q S L T T I D L S S M K F Y T F E I G I I S A T G Y T T G S G G F F E
U N I R E F 9 0 _ U P I 0 0 0 4 7 1 E 0 5 1

QUERY A A N S G Q F I P 210 Q A T N L Q A L G 220 S F K K G Y T G 230 M V A R A K F R 240
UniRef90_B7GH71 Q E E L A K E D E T T P P Y E A A G L L G G F W V A V V K T N K K D D F F G G K E L A K R Q K K E E G G
UniRef90_A5UTG6 H E E L T S P E E T T N P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_UPI0003B38D51 H E E L T S P E E T T N P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_A8MEG4 H E E L T S P E E T T N P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_A4J2F6 H E E L T S P E E T T N P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_A0A024PKT3 Q E L L S D D K I I T T P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_B8FT33 N E L L S G P D I I T T P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_UPI00047A691F Q E L L S D D K I I T T P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_UPI0003764302 N E L L D N Q T T T N P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_A7FRV3 N E M D E T T I T T P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_I3DX69 Q E L L S P E I I S P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_R5B751 Q D M D E S V T N P P L A A N M G W T I A W E P A E D R D F F I G G R D A L A K R Q K K E E G G
UniRef90_A1S967 N E L L S D D R T T T P P L E A A G L L G G F F F A V V K L D K K G D D F F I G G R D A L A K R Q K K E E G G
UniRef90_UPI000479A3AE T D S S A Q F I T P P Q A T N I L Q A L N G L S F S K G C Y T G G K E M V A R A K Y R G
UniRef90_A1JPM8 Q E L L S E D I I T T P P L E A A G L L G G F F F A V V K L S K K E D F F I G G R A S L L E Q K K E E G G
UniRef90_D3L413 N E L L S K D I I T T P P L E A A G L L G G F F F A V V K L N Q K P D F I G G K K A L I D R Q K K E E S G
UniRef90_U2DF31 Q E L L S K D I I T T P P L E A A G L L G G F F F A V V K L N Q K P D F I G G K K A L I D R Q K K E E S G
UniRef90_W7CUA2 T A N A V Q F I T P P Q A T N I H A L D G I S F T K K G C Y A G Q E M V A R A K Y A R G
UniRef90_E8XM37 Q D I D D R H T V L E A D L G W I D A I V K L E K K G E F Y T G G R E A L A R A K A F A R G
UniRef90_D5MLA8 S T T S A Q L I P P Q A T N I L Q A L N G L S F S K G C Y T G G K E M V A R A K Y R G
UniRef90_J2U653 N D I D D T T T S P P M E A A G L L G W I T T K L D K D K D F V S K E I F E Q Q K K A E E G G
UniRef90_K1M2G9 N D I D D T T T S P P M E A A G L L G W I T T K L D K D K D F V S K E I F E Q Q K K A E E G G
UniRef90_C6WZB1 G A T Q E A F V P P Q M V N L D L L N G I S F K K G C Y T G G K E M V A R A K Y R G
UniRef90_Q1H016 H E L S A T I I S P P I E A A G M G F A V V K P Q V K P F V G S E V L L Q Q K K E Q G G
UniRef90_U6B7C2 N D M D E T T I S P P L Q A A G M G W T I A W Q P A D R D F F I G G R E A L E Q Q Q K K A E E G
UniRef90_M5E0D8 N D I D D A T T S P P L E A A G L L G W I T T K F T K K F T K D F F I G G K E A I A R Q K K E E G
UniRef90_L8JQ51 N D I D D Q T T N P P M E A A G L L G S W L T V K L D K K G D F F I G G K E A I A R Q K K E E G
UniRef90_T0MIW0 Q E L L S N D I I T T P P L E A A G L L G G F F F A V V K L D K K G D F F I G G K S V L K E R Q K E S G
UniRef90_UPI00047EA29E H E L L T S P S I N P P Y E A A G L L G G F F F A V V K L E K K A D D F F I G G K A A L E R A R
UniRef90_G9YU67 H E M N D D I I N P P V E I G L G G F A V V K M Q K E D F F I G G K R A L Q R Q Q K A E R G
UniRef90_A0A010Z011 N E L L D E E T T P P L E A A G L L S F A V H L H K E E E F F I G G Q R A L Q R Q Q K A E R G
UniRef90_Q1AR89 N E L L T D E I I S P P V M A G L S M F C K L L G E D K P D F I G G K T A L V D Q Q K A N G
UniRef90_D1Y0F3 Q D I N D E T T P P L E G G L S W L V H L D K K P D F I G G R D V L A Q Q Q K A N G
UniRef90_U9VHU4 S D M N T T T P P L E R G L G W S V D L S D E N R D F I G G K K A Y L T K K S H G
UniRef90_B0TZJ8 S D M N T T T P P L E R G L G W S V D L S D E N R D F I G G K K A Y L T K K S H G
UniRef90_U1KFC8 S D M N T T T P P L E R G L G W S V D L S D E N R D F I G G K K A Y L T K K S H G
UniRef90_W4LF14 V D M D E S H T P P F E V I G L N W L T K L D K K G P F I I G G R D A L V R A K A E G
UniRef90_B9KZ40 N E L L S A E I I T P P L E A A G L L G W I V K F D K K G P F I I G G R E A L E Q Q R S A E G G
UniRef90_C5BM95 H E M D D D T S P P L V A A N M A W T V A W E P A E R N F I I G G R E A L T E A E K S A E A G
UniRef90_M7XA40 N D I N D E T S P P L E A A G L L G W I T K F T K K F T K D F F I G G N S E N L K K Q K E A G
UniRef90_G5IFJ9 H E M D D D I I S P P L E A A G L L G G F F F A V V K M G K E E E F Y T G G K E G I E K
UniRef90_C6CDX4 S A N S A Q F I P P Q A T N I L Q A L N G L S F S K G C Y T G G K E M V A R A K Y R G
UniRef90_UPI00037D7B52 T D M D D K T N P P L T A N L G W T I A L K D A E R D F F I G G R K P I E Q W K A E G
UniRef90_UPI0003604F8C H E L L G S D I I T P P L Q A G L G Y F A V V K L D K K E D D F F I G G R A A L Q S A E K A A G
UniRef90_E8SHL8 Q E L L S E S I I T P P Y E G G I A F A A K P L I E E D F F I G G K S V L Q S Q K E N G
UniRef90_B4UGZ1 S D M D E T T T P P L E A A G L L A W V V K L D K K G E F F I I G G R E A L L K Q K E Q G G
UniRef90_UPI00041C9B7D Q E L L S S D I I T P P L E A A G L L G F A V V K T E K K A D F F I I G G K D V L K K Q K E D G
UniRef90_D3UMT2 Q E L L S S D I I T P P L E A A G L L N F A V V K L K A D F F I I G G K D A L V K Q K E A G
UniRef90_A8S5U0 H E M D A A I H P P L E T G L K F A V V K M Q K K D D F F I G G K K A L E
UniRef90_Y0KFR8 P A T Q E Q F V P P Q M V N L D L L N A I N F K K G C Y T G G K E V A R T H Y L G
UniRef90_UPI000411RMZ8 H D I S E S V T P P L E A A G L R F A V V K W D K E P F V I G G Q K A L E K Q K A V G
UniRef90_F7YWE6 N D I L D E T T P P L E A A G L G W T V K F E K D F F I G G K E S L L K Q K A N G
UniRef90_E0UJZ7 Q D I D D T T T P P L E A A G L G W L V H L K T L K D E D F F I G G R S V L E K Q Q A Q G
UniRef90_U7G075 N D M D D S I T P P W E A N M G W T L V L N D R D F I I G G R Q P L L N Q Q K A G
UniRef90_R1H919 Q D M D E S I I S P P L A A N M A W T I A W E P S N R D F I I G G R V A L E A Q K A A G
UniRef90_E1VFW6 S D M D E T T S P P L E A A G M G W T I A W Q P E E R M R R F I I G G R D A L E A Q K A A G
UniRef90_M4NE36 Q D M D E S V S P P W E A N L G W T I A L D E P G R D F I I G G R E V L E A Q K A A G
UniRef90_K9UK75 Q E I D D T T T P P L E A A G L G W L V H L D T K G N F I I G G R D V L E R Q K S K G
UniRef90_UPI0003B54B7F N D L S E D R D P P I V A G L G W A C K K E A T G F F I I G G S E A V A A A R E N G
UniRef90_R5BFE5 D E L S E D I I S P P V M A G F S M F C K K L D K P E F F I I G G S K E A L S E Q K A S G
UniRef90_A0A023X7J1 N E L T E E V S P P L E A G I G F A V H L T K P G F I I G G Q A L L R Q Q D A S G
UniRef90_K2BA17 A D M N E T S P P L I S N L S W T V S F R D E A R E F I I G G K K A L L K Q K Q N G
UniRef90_UPI0002626071 Q E L S K T I S P P L E A G M K F A V V K V N K E Q D F F I I G G R D I L K K E Q I N G
UniRef90_UPI0003B43645 T E L T D A V T P P L E A E L E H A I D F E K G C Y T G G Q E I V A R M K Y R G
UniRef90_W9VEL8 A Q S T E R F V P P Q M L N L H L I D G V S F N K G C Y T G G K E V V A R M Q F L G
UniRef90_V6Q6X2 H E L T P E R P A T E A N V D F A I K M K K E S F I G G K E A L L K A K E T G
UniRef90_UPI000472700B Q E M D E G V S P P L A A N M G W T I V W Q P E E R Q F F I I G G R E A L E A Q R Q Q G
UniRef90_UPI000364A083 H E D M G E E I I T P P L Q A A G M G W T I A W S D E R D F I I G G K A A L L K A K E T G
UniRef90_Q0YUI9 H E I D D Q T T N P P L E A R L K W V V K M D K G H F I G G R E A L S K V R
UniRef90_W9V8Q4 Q D M D D E I G P P L E S G L G W T L A W A P E E R D F I I G G R E A L S K V R
UniRef90_L7UED3 N D I D D T H T A L E A G L G W I V K L D K A A F I I G G R D A L V A Q Q K A A G
UniRef90_K9QD5 Q D I D Q T T T P P L E A A G L G W L V N W E K G D F F I I G G R S A L E Q Q K E T G
UniRef90_R6WA29 D E L S A D I I S P P V M A G L S M F C K L D K E E F F I I G G K N A L V D Q K T N G
UniRef90_W0E0C6 Q D M D E E T S P P L E A A G L G W T L A W E P A E R D F I I G G R A A L A A Q R E R G
UniRef90_W7XVT8 N D I D D T T S P P L E A A G L G W I T K F T E D K D F I I D K E I L F A Q K S E G
UniRef90_R5HQJ1 H E M D E T V T P P L E A A G L D F G V K L Q K A E F I I G K D A L
UniRef90_R6SF90 H E M D D E I S P P L E T G L K F A V V K M G K E E D F F I G K K A M E E R G
UniRef90_UPI00029ADA4D N D L D D A T S P P V E A A G L G W I T K L V D G N D F I I G R K L F E K Q K E E G
UniRef90_M4WQ68 Q D M D E E I T P P L A A N M G W T I A W E P A E R D F I I G R Q A L Q A Q K A A G
UniRef90_Q83B06 T D M D E T T S P P L I S N L S W T V S W N D A D F I I G G R A L E K Q K L D E N
UniRef90_A6CFY1 H E L D E S T D P P Y T A A G L N F A V V K L K A A D F I I G G K E A L I A A K A R
UniRef90_U4TZL1 Q E M D E A V S P P L A A N M G W T I A W Q P E D R Q F I I G R D A L E K Q R A A G
UniRef90_U7LZA4 N E L S R D I I T P P V E A A G M S R A F A K K E A D F V I I G S A D V I R K R A E E G
UniRef90_UPI0003B61E37 H D M D S Q R S P P V E A N L M W A I Q K C R R A G Y I G S A A V E Q L S R G
UniRef90_UPI00036B135F N D I D E K H S T P L E S G L G W I T K L V D G K E A M L G R Q I L L D Q K A N G
UniRef90_F0M412 N E L S R E G N P F A A G L L P V V S L K K A E D F M G K A A L A E L K E L G
UniRef90_C9P746 H D L D E T T T P P V E A S L L W I Q P V V R R R A G G F P G G A E I L L K Q
UniRef90_B7A6K7 H E L T E A T N P L C T P W A W V V V K R E K D F L G K E A M
UniRef90_F8FPT8 Q E L S P Q I S P P L E A A G L G W P F V R L A K E D F I I G R E A L L L Q K K E L G
UniRef90_G8UP98 N D I D D T T S P P I E A A G L G W I T K F V R D G K D F F I N R A L E K Q K K E G
UniRef90_UPI000471E051 N D I N D T T S P I E A A G L G W I T K F T K E F I N S E A L A K E K E K G

QUERY	A
UniRef90_B7GH71	A
UniRef90_A5UTG6	<input checked="" type="checkbox"/>
UniRef90_UPI0003B38D51	
UniRef90_A8MEG4	
UniRef90_A4J2F6	T
UniRef90_A0A024PKT3	
UniRef90_B8FT33	<input checked="" type="checkbox"/>
UniRef90_UPI00047A691F	
UniRef90_UPI0003764302	<input checked="" type="checkbox"/>
UniRef90_A7FRV3	<input checked="" type="checkbox"/>
UniRef90_I3DX69	<input checked="" type="checkbox"/>
UniRef90_R5B751	T
UniRef90_A1S967	S
UniRef90_UPI000479A3AE	T
UniRef90_A1JPM8	A
UniRef90_D3L4I3	
UniRef90_U2DF31	
UniRef90_W7CUA2	
UniRef90_E8XM37	A
UniRef90_D5MLA8	
UniRef90_J2U653	A
UniRef90_K1M2G9	<input checked="" type="checkbox"/>
UniRef90_C6WZB1	<input checked="" type="checkbox"/>
UniRef90_Q1H016	
UniRef90_U6B7C2	A
UniRef90_M5E0D8	<input checked="" type="checkbox"/>
UniRef90_L8JQ51	
UniRef90_T0MIW0	
UniRef90_UPI00047EA29E	
UniRef90_G9YU67	
UniRef90_A0A010Z011	
UniRef90_Q1AR89	
UniRef90_D1Y0F3	<input checked="" type="checkbox"/>
UniRef90_U9VHU4	
UniRef90_B0TZJ8	
UniRef90_U1KFC8	
UniRef90_W4LF14	A
UniRef90_B9KZ40	
UniRef90_C5BM95	
UniRef90_M7XA40	<input checked="" type="checkbox"/>
UniRef90_G5IFJ9	
UniRef90_C6CDX4	A
UniRef90_UPI00037D7B52	<input checked="" type="checkbox"/>
UniRef90_UPI0003604F8C	
UniRef90_E8SHL8	A
UniRef90_B4UGZ1	
UniRef90_UPI00041C9B7D	
UniRef90_D3UMT2	
UniRef90_A8S5U0	
UniRef90_Y0KFR8	T
UniRef90_A0A011RMZ8	<input checked="" type="checkbox"/>
UniRef90_F7YWE6	<input checked="" type="checkbox"/>
UniRef90_E0UJZ7	<input checked="" type="checkbox"/>
UniRef90_U7G075	
UniRef90_R1H9I9	
UniRef90_E1VFW6	<input checked="" type="checkbox"/>
UniRef90_M4NE36	<input checked="" type="checkbox"/>
UniRef90_K9UK75	<input checked="" type="checkbox"/>
UniRef90_UPI0003B54B7F	S
UniRef90_R5BFE5	<input checked="" type="checkbox"/>
UniRef90_A0A023X7J1	
UniRef90_K2BA17	
UniRef90_UPI0002626071	
UniRef90_UPI0003B43645	
UniRef90_W9VEL8	
UniRef90_V6Q6X2	
UniRef90_UPI000472700B	T
UniRef90_UPI000364A083	<input checked="" type="checkbox"/>
UniRef90_Q0YUI9	
UniRef90_W9V8Q4	
UniRef90_L7UED3	<input checked="" type="checkbox"/>
UniRef90_K9RQD5	<input checked="" type="checkbox"/>
UniRef90_R6WA29	<input checked="" type="checkbox"/>
UniRef90_W0E0C6	
UniRef90_W7XVT8	
UniRef90_R5HQJ1	
UniRef90_R6SF90	
UniRef90_UPI00029ADA4D	<input checked="" type="checkbox"/>
UniRef90_M4WQ68	
UniRef90_Q83B06	<input checked="" type="checkbox"/>
UniRef90_A6CFY1	
UniRef90_U4TZL1	T
UniRef90_U7LZA4	
UniRef90_UPI0003B61E37	<input checked="" type="checkbox"/>
UniRef90_UPI00036B135F	
UniRef90_F0M4I2	A
UniRef90_C9P746	
UniRef90_B7A6K7	
UniRef90_F8FPT8	
UniRef90_G8UP98	<input checked="" type="checkbox"/>
UniRef90_UPI000471E051	<input checked="" type="checkbox"/>

1 10 20 30 40

UniRef90_Q89YZ6 DEEHLTVVNAVGVVFDVSSHMGEEFVWVKGPQA[A]FLVQD

UniRef90_A9FQN1 DEEHKAVVRTAAGLFDVSSHMGEEIIVLSTGGEHSGQVVDQ

UniRef90_N1UWG2 SELLAAEEHHAVRRTAAGLFDVSSHMGEEVWVVTSGGPEAAGKFLD

UniRef90_UPI000248EA28 GVKHEHQIVRSHVAVGVFDVSSHMGEEFLVSGGPNALJAFLDQ

UniRef90_Q15PU4 EEEHHA VRRRTAGMFDVSSHMTIVDVVGGENALQDYLRRQ

UniRef90_UPI000403F8A6 EHEQAVRRTKAGLFDVSSHMGEEFFLVKGGPNDALJAFLDQ

UniRef90_F8I4W7 EHEQAVRRTKAGLFDVSSHMGEEF4W7FDVSSHMGEEFFLVKGGP

UniRef90_W8L874 S QLEEEHGVRRREAGMFDVSSHMTIVDVVAGGSGARDYLRDR

UniRef90_G8QXP6 L LSEEEHAAVRAAGLFDVSSHMGEECMVSGGPKNASQYLDE

UniRef90_UPI0003702F8B L QEEHHLHTRAHAGLFDVSSHMGQQLIEVSGGPGA[A]CAYLDE

UniRef90_UPI000237B93E EEEHLAVRKAAGMFDVSSHMGEEFVWVKGGPRSFDFLQQ

UniRef90_C3J9V8 EEEHLNVVNNVGVFDVSSHMGEEFVWVKGGPNAKAYLQQ

UniRef90_I7AHG3 EEEHHQVRRRD[CV]FDVSSHMTVVDVAVAGAQAKAYLQQ

UniRef90_Q5NZ91 EEEHHVRRRDAAGMFDVSSHMLGLDLLEGGPDAATWLRR

UniRef90_Q2KYM2 S QLEEEHETVRRDAGMFDVSSHMLNADITSGPNAALFLRR

UniRef90_UPI0004291829 EHEHETVRRSDAGMFDVSSHMGEEFLVSGGPNALJAFLRR

UniRef90_UPI00040ECA5E L D EEEHHTVRRKQVGVFDVSSHMGEEFLVSGGPNALDQLIQ

UniRef90_J6H2H5 P T G L I EEEHMTVVKGVGVFDVSSHMGEEFVWVKGGPNALQLFI

UniRef90_UPI000372E011 P P A EELIAALRQGVVVSPLTQFGLIRFSGGEDSTLFLN

UniRef90_W9VIY9 EEEHQA VRTDAGMFDVSSHMTIVDVVTGGPDAAREYLRN

UniRef90_UPI000382AB33 G A L I A E EYTA VRQRVGLFDVSSH L G K V S I T G G V G A T D Y L N N

UniRef90_R7PHI7 E E H M A V R R E Q C G L F D V S H M G E I L L S G P D A L K N N

UniRef90_F3NFZ2 S E R E E H L A V R T R A G L F D L S H M G E I T V T G P D A P A L N

UniRef90_UPI000255D237 S E L A E E H E A V R T A A G L F D L S H M G E V R V V G G P D A A R F L N

UniRef90_M5EFE6 E E H K A V R R N Q C G L F D V S H M G E I L V S G K T A S E S L

UniRef90_C2G1K2 D E E H T V R N G V G V F D V S H M G E F I L K G D N V L D L Q Q

UniRef90_B5YFB6 E H L T V R R N H V G I F D I S H M G R I L L K G K A K D L V

UniRef90_W0MXA6 E E H H Q V R R R D C G V F D V S H M N V I D V V G R Q A N A W L R

UniRef90_A4SDB4 E H K A V R S A A G L F D V S H M G N F Y V K G R A L E F L Q Q

UniRef90_UPI00046B0588 E E H H Q V R R D C G V F D V S H M T V V D V S G S Q A K A Y L Q Q

UniRef90_I3Y746 F T P F S L R T E H E A V R E S A G I F D V S H M G E I E V T G P D A A T L L Q Q

UniRef90_D8JAL8 E H L A V R Q G A G V L C P L T S W D L L S V T G G P D A A T L L Q Q

UniRef90_A1SR21 E H E A V R T D A G M F D V S H M L V T D V A G A N A K A F F R Q

UniRef90_D7BH26 E E H L N V R R E K A G V F D V S H M G E I W I K G P K A L D F L Q Q

UniRef90_Q9JVP2 L E E H K A V R R Q A A G L F D V S H M G E F D V R G P D A A R F L D

UniRef90_R5W985 E E E H H A V R R D A G M F D V S H M L J A L D L A R G P D A T T W L R

UniRef90_W0IZ93 Q E E H Q A V R R Q A S G I F D I S H M G R F L L K G R G A M T A L Q Q

UniRef90_C4KBM4 E E H T C V R T S A G L F D V S H M G N F M V K G R G A K A F L Q Q

UniRef90_K9S546 G V K A E H E A V R T R A G L F D V S H M G E F R V Q G P D A E A F L Q N

UniRef90_B4S437 K D E V I A V R K D V G M F D V S H M G Q V L V S E G K D S T N F V N

UniRef90_UPI0003721894 E L E E H R A V R E A V G V F D L S H M G E V R V T G S D A A A F L D

UniRef90_K9WJB1 P E Q E Q Q I V R N T E T L C D L S Q Y G L L A V E G H D A L S F L Q

UniRef90_X5EFG0 L K E H A A V R R Q R A G L F D L S H M G Q F I L E G N D V A A W A D

UniRef90_UPI000479BE7F R S E H A A V R R E S V G V F D V S H M S E V V V T G P D A T A T M D

UniRef90_G4E637 E E H E I V R N G V G V F D V S H M G E F L I T G K N A L D L I Q Q

UniRef90_E6PH88 L E E H H C V R N G V G V F D V S H M G E F I L K G P K A L D L I Q Q

UniRef90_D2S0R8 Q A E H E A V R D A V G L F D V S H M G Q I H V T G P D A T T L M Q

UniRef90_G2Z1Q4 K A E H Q A V R T A V G M F D I S H M G K F Q L A G K N L I A A M Q

UniRef90_F8EG72 P L G I L K E H Q H T R A K A G L F D V S H M G Q V R L T G E D P A A A L E

UniRef90_UPI000463DFFD M T P F A V N H E H E T V R N A V G V F D V S H M G E I L I T Q G K D A L J A L Q

UniRef90_G8AN01 S E T A E H K A V R R E R A G L F D L S H M G E I S V T G P Q A A A F L D

UniRef90_UPI0003453661 S E R E E H Q A V R T R A G L F D L S H M G E F T V S G P A A C D L L D

UniRef90_UPI0002FA0772 L D E E H H T V R R N G V G I F D V S H M G E F I V L K G D D A C A L I S

UniRef90_UPI00037B33E8 S E T A E H R A V R R E A A G L F D L S H M G E I R L T G P Q A A Q A L D

UniRef90_D7AWA7 E E H H Q V R R R D C G V F D V S H M H V I D V T G S Q A Q L W L Q

UniRef90_S6GXL2 E E H K T V R N A V G L F D V S H M G E V F V S G K D A T T F L N A

UniRef90_R7LTZ3 K D E H M T V R E G V G V F D V S H M G E F W V K G P K A L D L V A

UniRef90_X5E0M8 D E H Q T V R S A V G L F D I S H M G R L H F S G P D A A K L L G

UniRef90_UPI00029AA2F8 E L D E H R A V R E T V G V F D L S H M G E V E V S G P D A A E L L D

UniRef90_B1VHV2 L E E H K C V R E R V G L F D V S H M G E L T V K G K G A E S A L N

UniRef90_L2F6S8 G V L A E H A A V R R S A V G V F D V S H L G K A R V R G A G A V D F V N

UniRef90_R7KBA6 S E H A A V R R E R V G L F D V S H L G K A L V R G T G A A D F V N

UniRef90_D3D9G7 S Q L D E H H A V R R D A G M F D V S H M L T V D L H G E N V R Q A L D

UniRef90_UPI0003C7F2AC E H N A V R T R A G L F D L S H M G E I V L S G P Q A A G Q A L D

UniRef90_Q0AEP7 E E H K T V R R E N V G L F D V S H M G E V F V S G K D A L D F L N

UniRef90_W776N6 S Q L E E H R Q V R R A V G L F D V S H M G I V D I V G P Q A H S Y L R

UniRef90_R5K8V7 L A E E H A V R T A A G L F D I S H M A E F L V T G S G A A A F L D

UniRef90_G4E810 S E H L A V R G L V G M F D V S H M G E F W I K G P G A L E F L Q

UniRef90_S3ABG0 E H K A V R T A A G L F D V S H M G E V K V T G S G A L A S L N

UniRef90_D3PSP0 E H T A V R E N V G L F D V S H L G K A L V A G P G A A E F L N

UniRef90_R7BNR9 K A E H D A V R T G A G M F D V S H M G E F R V T G P G A L J A F L Q

UniRef90_V9XE19 Q T E H A A V R E D V G I F D V S H M G Q I H V T G P D A T T L M Q

UniRef90_H8GW45 L Q E E H K A V R R H C G L F D I S H M G V L R L T G P G A K D L Q

UniRef90_D3SZG7 S E R E E H L A V R R R A G L F D L S H M G E I T L T G P G A G A L D

UniRef90_UPI000200131E P L G I M G E H K Q C R E K A A L F D V S H M G Q V I L Q G E N V G E K L E

UniRef90_UPI000477E0F0 L K E H R H T R E A K A G L F D V S H M G Q V V I R G D V A T A E L E

UniRef90_DOCTY9 L A E H H Q A V R R E A V G L F D V S H M G K I D V R G P D A E R F L D

UniRef90_B8KUW8 G V L A E H T A V R S A V G L F D V S H L G K I S V M G S Q A A A F V N

UniRef90_Q6MEJ4 S E L A E H R A V R R E A A G Q F D L S H M G E L E V S G P E A G D A L D

UniRef90_F5XS16 E H T A V R R E A V G V F D V S H L G K A S V S Q G P G A E F V N

UniRef90_UPI00046654B8 G V L T E H A A V R E A V G V F D V S H L G K L R L T G P G A V A H L Q

UniRef90_E6SCE5 E S K A V R R E G A G M F D V S H M A R L T L R G K V L Q F L N

UniRef90_S3VXH8 S E H T A T R T V G L F D V S H L G K A R V R G P G A A D F V N

UniRef90_W5X880 E E H H Q V R R R D C G V F D V S H M T V V D V L G A D A G I W L R

UniRef90_G7CE05 S E L A E H H A V R R A A G L F D L S H M G E V W V T G P E A A A F L D

UniRef90_C1DJ14 E H K S V R E H A A G I F D V S H M G Q L L M T G R D V H K A F L E

UniRef90_UPI00036F3625 S S L K E H M S V R N N A G I F D V S H M G K F I L S G K D S M N L I Q

UniRef90_B2KEF8

UniRef90_D0JAM2

UniRef90_Q89YZ6
UniRef90_A9FQN1
UniRef90_N1UWG2
UniRef90_UPI000248EA28
UniRef90_Q15PU4
UniRef90_UPI000403F8A6
UniRef90_F8I4W7
UniRef90_W8L874
UniRef90_G8QXP6
UniRef90_UPI0003702F8B
UniRef90_UPI000237B93E
UniRef90_C3J9V8
UniRef90_I7AHG3
UniRef90_Q5NZ91
UniRef90_Q2KYM2
UniRef90_UPI0004291829
UniRef90_UPI00040ECA5E
UniRef90_J6H2H5
UniRef90_UPI000372E011
UniRef90_W9VIY9
UniRef90_UPI000382AB33
UniRef90_R7PHI7
UniRef90_F3NFZ2
UniRef90_UPI000255D237
UniRef90_M5EFE6
UniRef90_C2G1K2
UniRef90_B5YFB6
UniRef90_W0MXA6
UniRef90_A4SDB4
UniRef90_UPI00046B0588
UniRef90_I3Y746
UniRef90_D8JAL8
UniRef90_A1SR21
UniRef90_D7BH26
UniRef90_Q9JVP2
UniRef90_R5W985
UniRef90_W0LZ93
UniRef90_C4KBM4
UniRef90_K9S546
UniRef90_B4S437
UniRef90_UPI0003721894
UniRef90_B7IF22
UniRef90_K9WJB1
UniRef90_X5EFG0
UniRef90_UPI000479BE7F
UniRef90_G4E637
UniRef90_E6PH88
UniRef90_D2S0R8
UniRef90_G2Z1Q4
UniRef90_F8EG72
UniRef90_L9ZXY1
UniRef90_UPI000463DFFD
UniRef90_G8AN01
UniRef90_A5FBH2
UniRef90_UPI0003453661
UniRef90_UPI0002FA0772
UniRef90_UPI00037B33E8
UniRef90_D7AWA7
UniRef90_S6GXL2
UniRef90_R7LTZ3
UniRef90_X5E0M8
UniRef90_UPI00029AA2F8
UniRef90_B1VHV2
UniRef90_L2F6S8
UniRef90_R7KBA6
UniRef90_D3D9G7
UniRef90_UPI0003C7F2AC
UniRef90_Q0AEP7
UniRef90_W776N6
UniRef90_R5K8V7
UniRef90_G4E810
UniRef90_S3ABG0
UniRef90_D3PSP0
UniRef90_R7BNR9
UniRef90_V9XE19
UniRef90_H8GW45
UniRef90_D3SZG7
UniRef90_UPI000200131E
UniRef90_UPI000477E0F0
UniRef90_DOCTY9
UniRef90_B8KUW8
UniRef90_Q6MEJ4
UniRef90_F5XS16
UniRef90_UPI00046654B8
UniRef90_E6SCE5
UniRef90_S3VXH8
UniRef90_W5X880
UniRef90_G7CE05
UniRef90_C1DJ14
UniRef90_UPI00036F3625
UniRef90_B2KEF8
UniRef90_D0JAM2

50 60 70 80
K V T S N N V A A L V P G K I Q Y T C F P N E E G G I I V D D L V Y C Y E P E K Y
Y L V T N N D V K K L E D G G H A L Y T C A C N E A G G T I L D D D L I Y R I D A R Q W
F A L V I G N K L S A V L T V I G K A K Y S L L C C N E E T G G G I I D D D L V I S Y R R A N D T F
K I T S N N D V E K A V T A V I G K A Q Y S L L C C N E E T G G G I I D D D L V I S Y R R A N D T F
H L L A N D V A K L K E G K A Q Y S G M L N E E G G G I V D D D L I V Y H F E T N Y
K I T S N N D A S K L A P G G K A Q Y S C M P N E E T G G G I V D D D L I V I Y M I A R E N Y
Y L V T H R P S G L A L G Q A L Y S P M C Y E E T G G G T V D D D L V I Y R K M D A R E N H F
Y L L A N D V D K L K E G R A L Y S C M L N E E Q G G G V L D D D L I V Y R R E Q Q G Y
Y L C T N T I S S S P N Q I Q Y S T M M C Y P A N G G T V D D D L V I Y C Y R D S H Y
S L T T A D L V A L S P D G R Q T Y S L L P N T A N G G L I V D D D L M I V Y H Y E E K Y
Y I T S N N V A G L P V G K A Q Y S C M P N K E G G G I V D D D L V I V Y H Y E E K Y
K V S S N D A S K L A V G K A Q Y S C F P T E E Q G G I V D D D L F L Y R Y E E K Y
R L L A N D V A R K L A V G K A L Y S A M L N E E Q G G G V I D D D L I V Y Y L T D E E G Y
G L L A N D V A K L E P G K A L Y S C M L N P D G G G V I D D D L I V Y Y F S P T Y
Y L V A N D V A R L T P G K A L Y S C M L N P Q D G G G V I D D D L I V I Y F A D S E Y
K V T S N D A S V L T V G K A Q Y S C C L P N N D G G G V V D D D L I I Y K M E E E Y
R V T S N D A S K L A S N K V Q Y S C C F P N E E Q G G G I V D D D L V Y R L D E E E Y
D I T T N D A S K L K V G E D I Q Y S T C F P N E E Q G G G I V D D D L L V Y H Y E E Y
G Q L L S S D V R A L K Q G K A Q Y S A M L N E E Q G G G V I D D D L I V Y L M G E G Y
L L L A N D V A R L K Q G K A L Y S A M L N E E Q G G G V I D D D L I V Y L M G E G Y
K M V T N D L T K L A A G Q A Q Y T L L C C N E E A G G G V V D D D L I V Y N S E D D L
M L L T N D Y T V M E D G T A R Y S P M C N E A G G G V V D D D L I V Y K I K D E D Y
H A L V G D L A T L A A G R A R Y T M I L C C A E A D G G G I L D D D L I V Y R L A D A Y
T A M V G D F A R I L R N G K A K Y S L L C C A E A D G G G I L D D D L I V Y R I G Y R I E D E Y
Q I T T N D M Q K L E V G K I L Y T P M C N E A G G G V V D D D L L V Y C R I K D E N Y
K V S S N D V S K L Y D G K V Q Y G Y L P N E E N G G G V V D D D F L T Y R I D E T Y
Y I T T N D V N N L T P G K A Q Y S L V L P N E E N G G T I K D D D L I Y K I T A E E F Y
Y L L A N D V R D R L T P G R A L Y S A M L N D E A G G I D D D M I V Y Y L T A E E G Y
S V T T N D L S R T V D G K A Q Y T I M L Y E N A G G G I V D D D L I Y R I D S T F Y
H L L A N D V E R L S D P G K A L Y S G M L N Q Q A G G V I D D D S L V Y E L P D S Y
G Q L L T N D I R E V L S A T H T Q F S G Y C S Q Q K G R L L A S F R V M R I A D A L
G L T T N D V E S L S V I G R A Q Y S T I T N E E G G V I L D D T V I Y R L A E E E
G Q L T C D L T L K P G E Q T L A A Q C N P Q G K V W S F R V V V L N D R L
Y A T L N D V S K L K V G R A Q Y S M L P N E R G G G V V D D I Y L Y R T N E E E
K L I A N D V A K L A V G K A L Y S A L L N D N G G G V I D D D L I V Y R T N E E Q Y
R I T S N N V A A L T D G K V Q Y S T M P N G A R G G G I V D D D L I V Y R I D A E E Y
H V V T N D V S R L F P G R I L Y S P M C D A D G G G V I D D D L I V Y R I M R G E Y
G L L A N D V A K L K D G K A L Y S C M L N E R G G G V I D D D L I V Y R F S D D Y
R L V P S D L A S L Q P G A A Q Y T V L L Y P E G G G I V D D D L I V Y Y R D A D E W
R V T T N D V S K L K P G R A Q Y N W L P N E T G G G L V D D D I V Y V Y R V I G E E F
Y L T T N D F K N L S N G E I V Y T A M C N E N E G G F I D D D L L A Y K I S D E K
N Q S T N D F Q K L K P G G Q C D T V F V T S T A R T I D L A T A Y V T E S D S V
H A L I S R L S A V K V G K A K Y S M I C T A D G G G I I D D L I T Y V L A D N E Y
S V T T N D A S K L E T I G K A Q Y S C L P N D E G G I V L A D D L I T Y K L E E T Y
A Q L T Q D L R D L E S G Q S R L S A Y C N A K G G Q V L A F R V W H H A D G G
S L A I N D V A T M K P F Q A R Y N I F C N A E G G A H D D V I F Y R L P E R W
R L T T N D V Q T L D S G D A Q Y S C L L D E E G G V I V D D D T V V Y P D G D G Y
K V T S N D A A V L T N G R V Q Y S C M P N E T G G G L V D D D L V Y K I A D E Y
R V S A N D A S V L F D G K I Q Y S Y L P N E Q G G A V D D D L V Y R I D E D E Y
R L T S N D V T R L G V G D S Q Y A V L T D E E G G I I D D D T V I Y R L P D E Y
K L V P S N D L G R L T P G Q A Q Y T V L L N D E H G G I I D D D V I Y Y H Q G H O G
S L V P G D I K G L A R G R M R Y T L F L N E Q G G G I L D D D L M V T N A G D H L
K L S S N D A S K L F P G K I Q Y S C M P N K T G G G I V D D D L I Y M M S E E Y
Y A L A G Y L S K V G R A R Y T M I T A A D G G G V L D D D L I V Y R L G E E E Y
Y A F I G N L G S L R T G R A R Y T M L C D E R G G G I L D D D L I V Y R T A E D R
R V S A N D P T L F D G K V Q Y S Y L P N G K G G G I V D D D L I V Y Q I S P E F
H A L V G H L S Q V K V G R A R Y S M I T A E D G G G V L D D D L I V Y R L R E D E
Y L L A N D V A R L S P G R A L Y S A M L N N D G G Q V I D D D M I V Y L T D S G Y
K V V P Q D I E K L T Y G E K A V Y C Q L P N K N G G G I V D D D L I Y K L G I E Y
K I I S N D P R V L T Q G K A Q Y S C F P N E K G G G I V D D D L V Y Y E P E K Y
Y L L T C R V D D L I D G Q I R Y G L V C N A A G G G V L D D D L V N R I T N D S F
Y A L I S R L S A V K V G K A K Y S M L C T D E D G G G I V D D D L I T Y R L D D D F
K L L A N D I S A K K V G K A L Y S A M L N D N D G G G V I D D D L I A Y R M N Q O Y
A I V T N D I R G M Y D G Q V R Y S L L P N E K G G A V D D D L I Y R K A Q D D F
S C L T N D L R R I G P G Q A Q Y T L L C C D E T G G G V V D D D L I Y F A A D D V
S C L T N D L G R I R P G Q A Q Y T L L C C S E D G G G T V D D D L I A Y L R H D E V
G L V A N N I D K L T P G K A L Y T C M L N P A G G G I I D D D L I I Y F L S E W F
Y A L V I G N A S I G V G R A R Y T M I C G D D G G I L D D D L I V Y R T G E Q D
K I V P Q N I S K I G D Y E K A V Y C Q L P N K N G G G I V D D D L I Y K L G I E Y
G L L A N D V A R L G P G Q A L Y S C L L Q H D G G G I L D D D L L V Y A L G K G Y
Y A L A G R I S T M K V G K A K Y S L L L D E K G G G V I D D D L I V Y R T G E D D D
Y A T L N D V T K I V G R A H Y S M L P N A A G G G V V D D D I Y L Y R T G E E Y
H L M T N D F T N M R V G R V R Y S V M C R E N G G G S I D D D L I V Y K F G E E Y
T T L S N D L T R I R P G K A Q Y T L L C C T E N G G G V V D D D L I Y H V S D D E L
H V I T T N D V S K L R P G R A G Y N W L P G V A G G G L V D D D L I Y M A A P E T Y
R L T S N D V T R L D V G D S Q Y A T I T D E D G G L I I D D D T V V Y R L P D E Y
A L V P T D L F R I A P G E A C Y T V L L N E Q G G G I R D D D L I Y D R G W D L
H A L V I G Y L S A L A V G R A R Y T M L C A E D G G G I L D D D L I V Y R T G D E F
A L C P Q A F A T L P E G K A R Y G F F T N E D G G G I M D D D L I V S N A G D H F
A L V P A D I L A A L P D S H A A V I S L L L N Q S E G G V L D D D L I I T R W A S D F Y
Y L S T N R I M G K G D S N T A T Y T V W C N S Q G G G S I D D D V I L Y R H S S T Y
R C L T A D L A K I Q P G Q A Q Y T L L C C N D D G G G V I D D D L I A Y N S P D D V
Y A L V G K L S A V K V G R A R Y T M L C C D E H G G G V L D D D L V Y R P G E Q R
S C F T N D L R I R S T G Q A Q Y T L L C C D E S G G G V V D D D L I V Y R S E D V
S R L T N D F D K V G P G Q A L Y N L L A N A Q G G G V I D D D L I A Y V T A D D D
R V T S N D V A K L Q D G A G Q Y S L L P N E Q G G G T V D D D L I V Y R I S D E F
S A F T N D L A R R L G P G S A Q Y S L L C C T E S G G G V V D D D L I Y Y I S D E I
R L L A N D V A H L K P G K A L Y S V M L N E R G G G V I D D D L I V Y L A D F G Y
Y A L V I G K I S A M A V G K A K Y S L L C N E D G G G I V D D D L I T Y R P D V I
Y V T S N K I K N S V S P G Q Y T H V L N E K G G G V I D D D V V A F C K E E G F
Y L T T N D L S K I K I G Q A Q Y N C F I N E H G G I I D D D L V V Y K I T E K L

UniRef90_Q89YZ6 L L V V V N A A N I E K D W N W C V S H N T E G A E L E N S S D N M A Q L A V Q Q G
UniRef90_A9FQN1 L I V C N A S N R D K T A A H I R E A A Q G H C S F E D A S D R T A M M A L V Q Q G
UniRef90_N1UWG2 L V V P N A G N A D A V F E A L S E R A A K E N G F N A E E E N A S A D A Y S L A A V I Q Q G
UniRef90_UPI000248EA28 L L V V V N A A N I E K D F N W I L K H A S E N A E E L R N I S S A D A Y S L A A V I Q Q G
UniRef90_Q15PU4 R L V V V N S A T R Q K D M D W L N A Q A N E G F D V T I T E R S P E F A M I A V I Q Q G
UniRef90_UPI000403F8A6 M L V V V N A A N I E K D W N W I S K H K N D L N V T M E N D Q S E E S T A L L A V I Q Q G
UniRef90_F8I4W7 M M V V V N A A N I W E N D W Q W V N Q K A E G F N V Q A D N Q S E E S T A L L A V I Q Q G
UniRef90_W8L874 R V V V N A A T R D K D L A W M Q Q V A R D M Q V S V Q E S S D D L D M I A V I Q Q G
UniRef90_G8QXP6 L V V L N A S N T E K D L S W I Q E G N P K A S L V T D C S Q T V Q I A L L Q Q G
UniRef90_UPI0003702F8B H V V C N A S R L A D V L A Q F D A H P P G N D C S W R L R D D R V L A L L Q Q G
UniRef90_UPI000237B93E M L V V V N A A N I Q K D W E W C M E N N Q A G A E L D N A S S R I S L I A V I Q Q G
UniRef90_C3J9V8 M M V P N A A N T V E K D W A W C Q R A H N T M G A E L E N A S S D N I A Q L A V I Q Q G
UniRef90_I7AHG3 R L V V V N A S T R D K D L A W M R A Q A S G F E V R I D E R A D L A M L A V I Q Q G
UniRef90_Q5NZ91 R I V V V N A G T A E K D M A W M A R V A A N F D V M I T P R R R D L A M I A V I Q Q G
UniRef90_Q2KYM2 R V V V N A G A T A E K D M A W M A R V A A N F D V M I T P R R R D L A M I A V I Q Q G
UniRef90_UPI0004291829 L L V V V N A S N I E K D W N W I S H N D L G V D M K D L S S D D I S L F A V I Q Q G
UniRef90_UPI00040ECA5E M L V V V N A S N I E K D W A W L N S K Y N T E G V T L K N I S S D D I S L F A V I Q Q G
UniRef90_J6H2H5 L L V V V A A N I E K D W A W C Q S H Y N A G A I L E N S D C G E L L R L G V I Q Q G
UniRef90_UPI000372E011 L L Q V V A A E L Q P A I Q K R L S M Y V L R S K T R A S D A G E L L R L G V I Q Q G
UniRef90_W9VIY9 R L V V V N C A T R E K D L R W M S E R A A K M D V A L T E Q P E L A M I A V I Q Q G
UniRef90_UPI000382AB33 F L I P N A S N T A A V F E L T Q S A P S G T I V K N L S H K E Y A V L A L Q Q G
UniRef90_I7PHI7 F I V V V N A S N K D Y Q W M K D H V S G D V E L E D I S D Q V G Q L A L Q Q G
UniRef90_F3NFZ2 L V V A N A S N A R T V L D A L T E R A S G F D V V R D D R D A Y A L L A V I Q Q G
UniRef90_UPI000255D237 L V V P N A A N R E A V V A A L E K Q R A S G F D V E W D E S E G I A L L A V I Q Q G
UniRef90_M5EFE6 L L V V V N A S N I E K D F N W I K E N I L D K T V A E N F S D K Y A M I A V I Q Q G
UniRef90_C2G1K2 F L V V V N A S N I E K D W N W I S K Y N T Y G V E M K D I S D Q T S L F A V I Q Q G
UniRef90_B5YFB6 L M V V V N A I N T Q K K L D W L N I H N K F G V N L L D I T T D T T L L A V I Q Q G
UniRef90_W0MXA6 R L V V V N A A N G F K D L A W M K S Q L G D F D V Q L N E R S E M A I L A V I Q Q G
UniRef90_A4SDB4 F L I V V N A G N C D K D F A W L E E H A F E G V Q L S N H S D Q L S L I A V I Q Q G
UniRef90_UPI00046B0588 R L V V V N A A T R D K D L A W M R Q Q S S A F A V E L E N E R A D L A M L A V I Q Q G
UniRef90_I3Y746 Y L Q T P A E R L P D A L K R R I F L L R S K V T L E N D S D D L L R I G I A S G
UniRef90_D8JAL8 F L F I P N A G H D G E M E E R W V E H R A S E W A V E N R T D E W A M F A I Q Q G
UniRef90_A1SR21 L L I Q P K S V T A K Q L P E I L Q R K Y A T F S K V E I K K D E S E Y Q L L G L A G Q G
UniRef90_D7BH26 Y L V V V N A A N I E K D W S H L L Q R L A E G F S V R L E K D A S E R G L L A V I Q Q G
UniRef90_Q9JVP2 R I V S N G A T R E K D T A Q F H K V L G Q E F G V S F N P R Y D L G M L A V I Q Q G
UniRef90_R5W985 L L V V V N A A N I A K D F A H I K F G L T A G K E I Y N A S D E I C Q L A V I Q Q G
UniRef90_W0IZ93 F L C V V N A G N I A A D F A W L R E Q A D F D V A L A D R A S A G Y G L A V I Q Q G
UniRef90_C4KBM4 R I V V V N A G T A D K D V A W M R Q R A T G A N V T L Q A R R D L A M I A V I Q Q G
UniRef90_K9S546 L L I V V N A A T R M Q D Y D W I A S H L E N P A L E R D E S S Q T V L L A V I Q Q G
UniRef90_B4S437 F M V V V N A S N R M E K D Y S W L Q E H L F E G V Q L E N H T E E L S L I A V I Q Q G
UniRef90_UPI0003721894 L L V V V N A S N I E K D W T H L L N Q T A G F A V T A D E S D R W G L L A V I Q Q G
UniRef90_B7IF22 F L V V V N A S N I E K D F E W M K N V A L N F D V K E N K S D D Y A L L A V I Q Q G
UniRef90_K9WJB1 F L L V S P N R R Q Q L I E W L D R Y I F P M D Q V K D V S H E S A T F S L L G
UniRef90_X5EFG0 Y L V P N A G N A P A V A E A L R E R A E G F D V Q L T D T D D I S L I A V I Q Q G
UniRef90_UPI000479BE7F L L V V V N A S N I E K D W N W I S S K N D L G A T M R D L S D E Y S L L A V I Q Q G
UniRef90_G4E637 Y L W M P R S L L E S V Q Q T L S R Y I L R A V R L H I P Q E G V T M G F A G
UniRef90_E6PH88 L L V V V N A S N A D K M W A H L N A H R S G D V R L R S L H G D A A L T A V I Q Q G
UniRef90_D2S0R8 L F I V P N A G H G E Q M A E R W S Q Y A S E F G T V E N Q T D D S T G L V A V I Q Q G
UniRef90_G2Z1Q4 L L V V V N A S N I E K D W N W I S S H N D M D A K M V N A S D D Y S L A V I Q Q G
UniRef90_F8EG72 L L V V V N A S N I E K D W N W I Q S H N T E G V E M I N A S D D M C L F A V I Q Q G
UniRef90_L9ZXY1 L F I V P N A G T D E E T H E R W L I N Y R N E F D L E D N R T D E Y A M F A V I Q Q G
UniRef90_UPI000463DFFD F L I V V N A A T T K D W A W L A G H L G T Q G I T T D V S Q D N V L L A V I Q Q G
UniRef90_G8AN01 F L V V V N A A R K D H D V A H M R E R L K G K A E V E L L D D L A L M A L Q Q G
UniRef90_A5FBH2 L L V V V N A S N I Q K D W D W I S T I A L D D L T I T N L S D L I S L L A V I Q Q G
UniRef90_UPI0003453661 Y L V V V N A A N N D T V V A A L T R E R V A G F D A V A D D Q S A D Y A L I A V I Q Q G
UniRef90_UPI0002FA0772 L L V V V N A A N A G T V L A A L R E R A T G F D A V A D D R D T Y A L L A V I Q Q G
UniRef90_UPI00037B33E8 M L V V V N A S N I E K D W A W L E N S H V G D L N V E V N V S D D G M C L F A V I Q Q G
UniRef90_D7AWA7 Y L V V V N A A N A T A V V A L A E R A A G F D V E V R D E S A E Y A L I A V I Q Q G
UniRef90_S6GXL2 R L V V V N A A T G D K D L A W M Q A H L N D F D V Q L T A H P E L A L L A V I Q Q G
UniRef90_R7LTZ3 Y L V C N A S R I D E K D N W L V R N K R E G M N V K I L E N S H N Y S L L A V I Q Q G
UniRef90_X5E0M8 M L V V V N A A N I E K D W N W V V Q Q N E E I G A E E N A S D E I S Q L A V I Q Q G
UniRef90_UPI00029AA2F8 G L V V V N A S N R D K T V A W I E E Q Q R H D V V V A D D T E R T A M L A V I Q Q G
UniRef90_B1VHV2 L V V P N A G N A P R V A E A L A Q R A E G F D V T V D Q T A E K S L V A V I Q Q G
UniRef90_L2F6S8 R I V S N A A T R E K D L A Q F H K V A L E G F D V K I T E R P E L A M L A V I Q Q G
UniRef90_R7KBA6 L I V V V N A S N T E K D S E W F E T H L Q G S D V F E N I S D K V A Q I A V I Q Q G
UniRef90_D3D9G7 F L V P N A A N T A E V V R R L A A A A P S G V A V I T D L H T R D Y G V L A V I Q Q G
UniRef90_UPI0003C7F2AC F L I P N A A N T A E V V R R L R A A A P E G S V E V L D Q H R E H A V L A V I Q Q G
UniRef90_Q0AEP7 R L V V V N A G T A D K D I D W I T L Q S S Q H D L T I T P R R D L A M I A V I Q Q G
UniRef90_W776N6 Y M V V V N A A S N A A L V A G E D R A E D F E T E V R D A S T E Y A L I A V I Q Q G
UniRef90_R5K8V7 L I I C N A S R I D E D L N W M V R N S K G Y D V K I D N S H N Y S L L A V I Q Q G
UniRef90_G4E810 R L V V V N A T A A R D L E F M R A A L Q G Y A A R V I H R Q D L A M L A V I Q Q G
UniRef90_S3ABG0 F L V I S N A G N R A L V A E V A R T A H I S A V V E D I L S D Q M S L I A V I Q Q G
UniRef90_D3PSP0 L M V V V N A A N I E K D W E H L Q R L A E G F E V R L E D A S D F A L I A V I Q Q G
UniRef90_R7BNR9 L V V V V N A A N R E K D F S H I K E N L L A D T E V E D I S D S I A Q L A V I Q Q G
UniRef90_V9XE19 F L V P N A A N T A A V V E A L A A A A P A G V T V T N Q H R D H A V F A V I Q Q G
UniRef90_H8GW45 L M V V V N A G N I A K D W A H L Q A Q V G Y D V T T D E S G T A L I A V I Q Q G
UniRef90_D3SZG7 L F V P N A G T D E A T H E R W I S Y R N E F D L E D N Q T D E Y A M F A V I Q Q G
UniRef90_UPI000200131E L L V V V N A A C A E A D T V W I R S Q L E P A G A I Q V A D H K D G V L L A V I Q Q G
UniRef90_UPI000477E0F0 L V V A N A A N A E R V L A E L R S R V A G Y A T E L R D D R D Y A L L A V I Q Q G
UniRef90_DOCTY9 F V V V V N A A L R D Q D I P H M R A H L D G V E V T E T F D R A L V A V I Q Q G
UniRef90_B8KUW8 F L V V V N A D C K Q V A D V H L R A H L P G C S L E V L E N R A L L A V I Q Q G
UniRef90_Q6MEJ4 F F V I V N A S N R Q K D L A H M Q Q A E F Q V T I Q P Q F S E S G I L A V I Q Q G
UniRef90_F5XS16 F L I P N A A N C A E V A Q L L A D T A S A G I G V R N E H E A Y A V F A V I Q Q G
UniRef90_UPI00046654B8 Y L V V V N A A G N A D V V A A L L R E R A V E G F D A R A T D L G E R A L I A V I Q Q G
UniRef90_E6SCE5 F L I P N A A N T S E V V R R L K A A A P A G I E V T N L H D A Y G V I A V I Q Q G
UniRef90_S3VXH8 V L L V P N A A N A T V A E V L A Q N M P D G L K A N Q H R D L A I I A V I Q Q G
UniRef90_W5X880 R M V V V N A D N H A K D V A W L R A H H E E G V E I T D Q T D E A M I A V I Q Q G
UniRef90_G7CE05 F L V P N A A N N A T V V D L R R H A P A G V E V I D E H R A H A V F A V I Q Q G
UniRef90_C1DJ14 R L V L N A A T R E R D L D W I R G Q A A G F V V E L R E R R D L A M L A V I Q Q G
UniRef90_UPI00036F3625 L V V P N A G N A D T V A A A L Q E R A A R F D V K V E D S S A R T S L I A V I Q Q G
UniRef90_B2KEF8 L V V V V N S A T T H K D F A Y F S K M T A A R F D V V V E D S S E F G M V A V I Q Q G
UniRef90_D0JAM2 L L I V V N A A N I E K N K K W I N H H A F S D T E L I D F S S E Y S L L A V I Q Q G

UniRef90_Q89YZ6 UniRef90_A9FQN1 UniRef90_N1UWG2 UniRef90_UPI000248EA28 UniRef90_Q15PU4 UniRef90_UPI000403F8A6 UniRef90_F8I4W7 UniRef90_W8L874 UniRef90_G8QXP6 UniRef90_UPI0003702F8B UniRef90_UPI000237B93E UniRef90_C3J9V8 UniRef90_I7AHG3 UniRef90_Q5NZ91 UniRef90_Q2KYM2 UniRef90_UPI0004291829 UniRef90_UPI00040ECA5E UniRef90_J6H2H5 UniRef90_UPI000372E011 UniRef90_W9VIY9 UniRef90_UPI000382AB33 UniRef90_R7PHI7 UniRef90_F3NFZ2 UniRef90_UPI000255D237 UniRef90_M5EFE6 UniRef90_C2G1K2 UniRef90_B5YFB6 UniRef90_W0MXA6 UniRef90_A4SDB4 UniRef90_UPI00046B0588 UniRef90_I3Y746 UniRef90_D8JAL8 UniRef90_A1SR21 UniRef90_D7BH26 UniRef90_Q9JVP2 UniRef90_R5W985 UniRef90_W0I293 UniRef90_C4KBM4 UniRef90_K9S546 UniRef90_B4S437 UniRef90_UPI0003721894 UniRef90_B7IF22 UniRef90_K9WJB1 UniRef90_X5EFG0 UniRef90_UPI000479BE7F UniRef90_G4E637 UniRef90_E6PH88 UniRef90_D2S0R8 UniRef90_G2Z1Q4 UniRef90_F8EG72 UniRef90_L9ZXY1 UniRef90_UPI000463DFFD UniRef90_G8AN01 UniRef90_A5FBH2 UniRef90_UPI0003453661 UniRef90_UPI0002FA0772 UniRef90_UPI00037B33E8 UniRef90_D7AWA7 UniRef90_S6GXL2 UniRef90_R7LTZ3 UniRef90_X5E0M8 UniRef90_UPI00029AA2F8 UniRef90_B1VHV2 UniRef90_L2F6S8 UniRef90_R7KBA6 UniRef90_D3D9G7 UniRef90_UPI0003C7F2AC UniRef90_Q0AEP7 UniRef90_W776N6 UniRef90_R5K8V7 UniRef90_G4E810 UniRef90_S3ABG0 UniRef90_D3PSP0 UniRef90_R7BNR9 UniRef90_V9XE19 UniRef90_H8GW45 UniRef90_D3SZG7 UniRef90_UPI000200131E UniRef90_UPI000477E0F0 UniRef90_DOCTY9 UniRef90_B8KUW8 UniRef90_Q6MEJ4 UniRef90_F5XS16 UniRef90_UPI00046654B8 UniRef90_E6SCE5 UniRef90_S3VXH8 UniRef90_W5X880 UniRef90_G7CE05 UniRef90_C1DJ14 UniRef90_UPI00036F3625 UniRef90_B2KEF8 UniRef90_D0JAM2

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

UniRef90_Q89YZ6
UniRef90_A9FQN1
UniRef90_N1UWG2
UniRef90_UPI000248EA28
UniRef90_Q15PU4
UniRef90_UPI000403F8A6
UniRef90_F8I4W7
UniRef90_W8L874
UniRef90_G8QXP6
UniRef90_UPI0003702F8B
UniRef90_UPI000237B93E
UniRef90_C3J9V8
UniRef90_I7AHG3
UniRef90_Q5NZ91
UniRef90_Q2KYM2
UniRef90_UPI0004291829
UniRef90_UPI00040ECA5E
UniRef90_J6H2H5
UniRef90_UPI000372E011
UniRef90_W9VIY9
UniRef90_UPI000382AB33
UniRef90_R7PHI7
UniRef90_F3NFZ2
UniRef90_UPI000255D237
UniRef90_M5EFE6
UniRef90_C2G1K2
UniRef90_B5YFB6
UniRef90_W0MXA6
UniRef90_A4SDB4
UniRef90_UPI00046B0588
UniRef90_I3Y746
UniRef90_D8JAL8
UniRef90_A1SR21
UniRef90_D7BH26
UniRef90_Q9JVP2
UniRef90_R5W985
UniRef90_W0I293
UniRef90_C4KBM4
UniRef90_K9S546
UniRef90_B4S437
UniRef90_UPI0003721894
UniRef90_B7IF22
UniRef90_K9WJB1
UniRef90_X5EFG0
UniRef90_UPI000479BE7F
UniRef90_G4E637
UniRef90_E6PH88
UniRef90_D2S0R8
UniRef90_G2Z1Q4
UniRef90_F8EG72
UniRef90_L9ZXY1
UniRef90_UPI000463DFFD
UniRef90_G8AN01
UniRef90_A5FBH2
UniRef90_UPI0003453661
UniRef90_UPI0002FA0772
UniRef90_UPI00037B33E8
UniRef90_D7AWA7
UniRef90_S6GXL2
UniRef90_R7LTZ3
UniRef90_X5E0M8
UniRef90_UPI00029AA2F8
UniRef90_B1VHV2
UniRef90_L2F6S8
UniRef90_R7KBA6
UniRef90_D3D9G7
UniRef90_UPI0003C7F2AC
UniRef90_Q0AEP7
UniRef90_W7T6N6
UniRef90_R5K8V7
UniRef90_G4E810
UniRef90_S3ABG0
UniRef90_D3PSP0
UniRef90_R7BNR9
UniRef90_V9XE19
UniRef90_H8GW45
UniRef90_D3SZG7
UniRef90_UPI000200131E
UniRef90_UPI000477E0F0
UniRef90_DOCTY9
UniRef90_B8KUW8
UniRef90_Q6MEJ4
UniRef90_F5XS16
UniRef90_UPI00046654B8
UniRef90_E6SCE5
UniRef90_S3VXH8
UniRef90_W5X880
UniRef90_G7CE05
UniRef90_C1DJ14
UniRef90_UPI00036F3625
UniRef90_B2KEF8
UniRef90_D0JAM2

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

UniRef90_Q89YZ6
UniRef90_A9FQN1
UniRef90_N1UWG2
UniRef90_UPI000248EA28
UniRef90_Q15PU4
UniRef90_UPI000403F8A6
UniRef90_F8I4W7
UniRef90_W8L874
UniRef90_G8QXP6
UniRef90_UPI0003702F8B
UniRef90_UPI000237B93E
UniRef90_C3J9V8
UniRef90_I7AHG3
UniRef90_Q5NZ91
UniRef90_Q2KYM2
UniRef90_UPI0004291829
UniRef90_UPI00040ECA5E
UniRef90_J6H2H5
UniRef90_UPI000372E011
UniRef90_W9VIY9
UniRef90_UPI000382AB33
UniRef90_R7PHI7
UniRef90_F3NFZ2
UniRef90_UPI000255D237
UniRef90_M5EFE6
UniRef90_C2G1K2
UniRef90_B5YFB6
UniRef90_W0MXA6
UniRef90_A4SDB4
UniRef90_UPI00046B0588
UniRef90_I3Y746
UniRef90_D8JAL8
UniRef90_A1SR21
UniRef90_D7BH26
UniRef90_Q9JVP2
UniRef90_R5W985
UniRef90_W0I293
UniRef90_C4KBM4
UniRef90_K9S546
UniRef90_B4S437
UniRef90_UPI0003721894
UniRef90_B7IF22
UniRef90_K9WJB1
UniRef90_X5EFG0
UniRef90_UPI000479BE7F
UniRef90_G4E637
UniRef90_E6PH88
UniRef90_D2S0R8
UniRef90_G2Z1Q4
UniRef90_F8EG72
UniRef90_L9ZXY1
UniRef90_UPI000463DFFD
UniRef90_G8AN01
UniRef90_A5FBH2
UniRef90_UPI0003453661
UniRef90_UPI0002FA0772
UniRef90_UPI00037B33E8
UniRef90_D7AWA7
UniRef90_S6GXL2
UniRef90_R7LTZ3
UniRef90_X5E0M8
UniRef90_UPI00029AA2F8
UniRef90_B1VHV2
UniRef90_L2F6S8
UniRef90_R7KBA6
UniRef90_D3D9G7
UniRef90_UPI0003C7F2AC
UniRef90_Q0AEP7
UniRef90_W776N6
UniRef90_R5K8V7
UniRef90_G4E810
UniRef90_S3ABG0
UniRef90_D3PSP0
UniRef90_R7BNR9
UniRef90_V9XE19
UniRef90_H8GW45
UniRef90_D3SZG7
UniRef90_UPI000200131E
UniRef90_UPI000477E0F0
UniRef90_DOCTY9
UniRef90_B8KUW8
UniRef90_Q6MEJ4
UniRef90_F5XS16
UniRef90_UPI00046654B8
UniRef90_E6SCE5
UniRef90_S3VXH8
UniRef90_W5X880
UniRef90_G7CE05
UniRef90_C1DJ14
UniRef90_UPI00036F3625
UniRef90_B2KEF8
UniRef90_D0JAM2

210
220
230
240

NNDLIDDDKTSPILEAGLGLGWITK FVEGK E F I V N R P M L E K Q K S E G
NNDLIDDETTNSPILEAGLGLGWITK V K L D K K G E F I V N R S A L E Q R K K D E E G
NNDLIDDEKETSPILEAGLGLGWITK K F D K E F I V N R S A L E Q R K K D E E G
QNDMDDETTSPLEAGLGLGWITK P A E K R N F I V N R K A L E A Q K K A A G G
NNDLIDSDRTTSPVLEAGLGLERF I K W D K P D F V V G N R E A L E K A Q K E N D R G
TDMDEQVTSPILEAGLGLGWITV A L A P A D R D F M G R A A L E K Q K A E G
HEIIDSATTSPILEAGLGLGWV V F V H L R E K E G D F C G G A A V I V K Q Q E T G
NNDLINDSTTSPVIEAGLGLGWITK F V D G N D F I S R R P I L E K Q K K E G
HDLIDDETHSPVLEAGLGLGWITK L V E G K E E M V V G R K L L E E E Q K A G G
QDMNNEEVTSPILAANMGLGWITIA WE P A E R A F V G R G A L L E E E Q R E R
QDMDETVSPLDAGLGLAWTVDL K D E S R R D F V G R A A L E A R R K V L G
QDMDELVQPNQAGLGLSWT V S L K D A E R R F T N S E N L E E E Q R E R
NNDLIDSDTTSPVLEAGLGLGWITK F T K N F T N S E N L K K Q K E Q G
NNDLIDSDTTSPVLEAGLGLGWITK L I P E K N F P S K A F F E Q Q K A E G
AATMQEEFVPIQMANMGLI G A V S F T K G C Y P G Q E I V A R T Q Y L G
QDMDENVTPVLSNMAWTVA WE P Q D R A F V V G R T A L E A E K A Q G
HELSLSITTPVEAGASW A V G W N K D Q F R G K K V L T Q Q K E Q G
HEMDDETTPVKEAGLGF V V K M D K E D F V G K K A L Q E K G
NELSSTALTSPFDAAGLGRV V V K F S K E D F V G R A A L Q Q A K A G
NNDLIDDNTSPVLAAGLGLGWIT K F T K D F I V N S A N L K A E K E A G
QDIIDENSTSPWEANLGLGWITV K L N K G D F I G R K A L E R E R A E G
HEIDIGEVSPLVSNIAWSIA WE P A D R D F I G R K A L E R E R A E G
QDMDEQVTSPLAANMSTVIA WE P A S R D F I G R A E L E R Q Q K A G
NRTAEVFPQMINLQ L I D G V S F H K G C Y T G Q E V V A R M Q H L G
QDFHEENPRN P Y E A R V G F T V D L D T E F V G R D A L A R V D E N G
EETSGDFPQMLNQLALNGLSFT K G C Y T G Q E T I A R T K Y R G
HEITDDETTPRC L T P F S W V V K E H K E F Y G K S A L L A K E K G
NDMDDDTSPVLEAGMGTVDL K D E S R D F V G K A A L L A L K E K G
NNDLIDDPTSPVLEAGLGLGWITK F V E G K D F I V D R P L M E R Q K A E G
HELSPEITSPVLAAGLGLWTVK L D K R A A F V G S G A L R A E K L A G
QDMMDHVSPVLAAGLGLSWTVD M K D E A R D F L G R A A L E A Q Q E A G
QDIIDNRETTPWEAGLGLWV H L D R A G D F I G R A A L E A Q Q E A G
HEIINDAETSPVLEAGLGLWV T R L D K G N F V G R E
HEFADDLHPVLA ST Y T W A V K F D K E F I V G K A A L E K Q L E E G
NDMDDETTSPVLEAGLGLGWIT A V K F D K E F I V G Q D A I E K Q L E E G
RELTEETDYNPLVGLWQT A V I S F D K K G C Y P G Q E T I A R L N Y K G
NELSLEETSPVLDAGLGLLA A T K S K E E F I V G R D A I V R A K E E G
NNDLIDSDTSPVLEAGLGLGWIT K F T K R F T S S E N L S E Q K
PDTSGSVFLA QMLNGLHSLN A I S F T K G C Y P G Q E I A R L Q Y R G
HEMTSEETTPVQAGLGLT W A L K L A K P A F V G K E A L A A Q
QDFDEPRTPVLEAGLGLFWIT V D L S K K D E F I V G R E T L Q D L E E A G
NNDLINDTTSPILEAGLGLGWIT K F N K K F I N S E A L K L Q K E E Q G
NNDLIDDVTSPVLEAGLGLGWIT K F T K N F I N S E A L L Q Q K Q E A G
QDFDHPRTPVYEAAGLGLFWITV A L D T E F V I G R D A L D R A R E D G
QDMMDDDTTPVLEAGLGLWV I H W E K D D F I A K E I L Q Q A K A E G
HDIIDDETTSPVLEAGLGLWAS K R R R E E G G F P G Y A I I K D Q L A N G
NNDLINDTTSPILEAGLGLGWIT K F T K E F I Q S D S L K L Q K E N G
NELSADLTTPFDAAGLGRVIT V K F E K G D F V G R A A L A K A
HELSTALTTPFDAAGLGRVIT V K F E K G A F V G R E A L Q E A A A R
NNDLIDSDTSPVLEAGLGLGWIT K F S H D F I D A D V L K A Q K E Q G
QDELTAADLTTPFDAAGLGRVIT V K F D K G D F V G R A A L E A E R D A G
NNDLIDDETVSPLVSNMAWTIA WE P A A R Q F I G R G A L E A E R D A G
NNDLIDETTPVLEAGLGLWSV P K D K N Q A D Y N G K E I T M S Q I A N G
NNDLIDDTTSPVLEAGLGLGWIT K F N N G K F I D R E F L T M Q K N E G
HELSEQVNPVLTAGLGRF A V K L D K H D F V G R D S L I R
NELNDELITPVDAAGLGLLA A T K S K D S F V G R D A I V A A K E K G
HEMNNETSPVYEAAGLGLWTLA I K D D R D F V G R K A M Q D K Q A K A
HELGEETIPVAEVLGLDF A I K L G K E N F V G K E A I L E R A A G
QDLSLSISPLVVARSGW A V G W D K P A F W G R E A L L A E R A A G
HELSPISPLVVARASW A V G W D K P E F W G K A A L E E Q R A
QDMDETTNPLVLEAGLGLAWTVDL K S E R D F I G K Q A L E A K A S A E
NNDLIDETTPVYEAAGLGLWSV P K D K E E D Y N G K E V I M N Q I A N G
HDMDESLSPVLDAGLGLWTV A W Q P E T R E F I G R Q A L L Q R K A A G
HELSTALTRPAAGLGRVIT V S A D K G E F V G K E A V
HELTDTTNPLCTPFDWV V K G E F V G K Q A M
HELTDITSPVQAGLGLNFAL K L D H D F I G R D A L L R E K E A G
HELSDVITSPVLEAGLGLWV A V G W K K P Q F W G R D A L L R E K E A G
HEFGDDIHPVLA S H Y G W
QDFDNPRTPVYETGITGFTVA L D T E F V V G R D A L E A A R E D G
SDMDASTSPVLEAGLGLWV H L E M P K P F V V G R E V L E Q Q T S S G
HELTDATTPFDAAGLGRVIT V R F D K K G
NNDLIDQSTSPVLEAGLGLAWITQ K R R K E G G F P G G A D R I Q R E L A E G
HELSDASTITPVLEAGLGLWAL A K A R R P T G G Y P G G A Q I N R Q W R E G
HEIISDTIAPTESASW A V K F D K T D F L G K Q A L I N R Q W R E G
QDISPDISPVQARLGLW A I G W T K D A F F G D A A L R A E K E
NELGTGLTPHQAGLGRVIT V K L D K P G D F V G R A A L E K A
QDLSLEISPLVQARAGW A V G W K K E T F W G K A L L A E K A
HEFSPIIDGITGGAAW A V S K T K T G Y D G A E A F A R I R A D G
HELIRDIVSPLAAGLGLWV I S G K K S F I G S D P V N A A R A N G
HELSPDITSPVLEAGLGLW A V S W K E R F W G R D A L L A E K Q A G
REMDESIVSPLAANLGLWITIA WD P A G R D F I G R A A L E A Q R R A G
NELSDHGTSPYEAAGLGLWV A L S K E G D F V
VDVDDHETSYEAAGLGLWV V K L D K P D F V A K A I L A K Q K E E G
KDLCEKTTPVLEAGLGLWIT K F E K K F L A K E L L Q K Q K N K G

UniRef90_Q89YZ6	T
UniRef90_A9FQN1	
UniRef90_N1UWG2	S
UniRef90_UPI000248EA28	V
UniRef90_Q15PU4	T
UniRef90_UPI000403F8A6	
UniRef90_F8I4W7	
UniRef90_W8L874	V
UniRef90_G8QXP6	
UniRef90_UPI0003702F8B	
UniRef90_UPI000237B93E	V
UniRef90_C3J9V8	
UniRef90_I7AHG3	
UniRef90_Q5NZ91	
UniRef90_Q2KYM2	
UniRef90_UPI0004291829	V
UniRef90_UPI00040ECA5E	V
UniRef90_J6H2H5	
UniRef90_UPI000372E011	
UniRef90_W9VIY9	
UniRef90_UPI000382AB33	S
UniRef90_R7PHI7	
UniRef90_F3NFZ2	
UniRef90_UPI000255D237	
UniRef90_M5EFE6	
UniRef90_C2G1K2	V
UniRef90_B5YFB6	
UniRef90_W0MXA6	V
UniRef90_A4SDB4	
UniRef90_UPI00046B0588	A
UniRef90_I3Y746	
UniRef90_D8JAL8	
UniRef90_A1SR21	A
UniRef90_D7BH26	
UniRef90_Q9JVP2	V
UniRef90_R5W985	V
UniRef90_W0LZ93	S
UniRef90_C4KBM4	
UniRef90_K9S546	
UniRef90_B4S437	
UniRef90_UPI0003721894	
UniRef90_B7IF22	
UniRef90_K9WJB1	V
UniRef90_X5EFG0	T
UniRef90_UPI000479BE7F	
UniRef90_G4E637	T
UniRef90_E6PH88	
UniRef90_D2S0R8	V
UniRef90_G2Z1Q4	V
UniRef90_F8EG72	
UniRef90_L9ZXY1	A
UniRef90_UPI000463DFFD	
UniRef90_G8AN01	A
UniRef90_A5FBH2	V
UniRef90_UPI0003453661	
UniRef90_UPI0002FA0772	
UniRef90_UPI00037B33E8	V
UniRef90_D7AWA7	
UniRef90_S6GXL2	V
UniRef90_R7LTZ3	V
UniRef90_X5E0M8	V
UniRef90_UPI00029AA2F8	
UniRef90_B1VHV2	A
UniRef90_L2F6S8	V
UniRef90_R7KBA6	
UniRef90_D3D9G7	A
UniRef90_UPI0003C7F2AC	
UniRef90_Q0AEP7	
UniRef90_W7T6N6	
UniRef90_R5K8V7	T
UniRef90_G4E810	A
UniRef90_S3ABG0	
UniRef90_D3PSP0	
UniRef90_R7BNR9	
UniRef90_V9XE19	
UniRef90_H8GW45	
UniRef90_D3SZG7	
UniRef90_UPI000200131E	V
UniRef90_UPI000477E0F0	
UniRef90_DOCTY9	
UniRef90_B8KUW8	
UniRef90_Q6MEJ4	
UniRef90_F5XS16	
UniRef90_UPI00046654B8	
UniRef90_E6SCE5	
UniRef90_S3WXH8	
UniRef90_W5X880	T
UniRef90_G7CE05	
UniRef90_C1DJ14	
UniRef90_UPI00036F3625	
UniRef90_B2KEF8	V
UniRef90_DOJAM2	

UniRef90_W8AJA0
UniRef90_L7YBU3
UniRef90_W0TKF6
UniRef90_UPI00037F518C
UniRef90_A1RG59
UniRef90_N2ZLF3
UniRef90_D3SNT0
UniRef90_Q2STK0
UniRef90_L1LZW3
UniRef90_UPI0003B6F78F
UniRef90_K2QQF3
UniRef90_D3EQT1
UniRef90_A0L7X5
UniRef90_UPI0004789CF9
UniRef90_A0A011NXG7
UniRef90_UPI000380FDCCD
UniRef90_E0MQZ2
UniRef90_K9T4A7
UniRef90_A0A024USR9
UniRef90_A9NF89
UniRef90_E8X0C3
UniRef90_T0ZJJ1
UniRef90_A0A011NSR6
UniRef90_A5EXE6
UniRef90_B9QV72
UniRef90_B2T434
UniRef90_H0PU69
UniRef90_K2JPB2
UniRef90_E4NW76
UniRef90_Q2ITM8
UniRef90_A0A059INS9
UniRef90_N6Y3V4
UniRef90_Q2J8A3
UniRef90_G7H7J6
UniRef90_L7KW51
UniRef90_I3CL17
UniRef90_UPI0003673B8F
UniRef90_E5AKL6
UniRef90_G8PRD1
UniRef90_F4CYC8
UniRef90_A0A017HRR6
UniRef90_K0VWF8
UniRef90_E1VCQ8
UniRef90_A3V1L9
UniRef90_W8ZVE4
UniRef90_X0YGQ2
UniRef90_UPI000404D0FB
UniRef90_M0T8H5
UniRef90_UPI000317C93A
UniRef90_UPI0003B4DC79
UniRef90_Q3IN28
UniRef90_UPI000470A036
UniRef90_W8S876
UniRef90_UPI0002558142
UniRef90_UPI000465DF1B
UniRef90_S6HH08
UniRef90_H2CEE4
UniRef90_K9WYM0
UniRef90_Q087Z7
UniRef90_E6QP00
UniRef90_D2R7Y4
UniRef90_I0IL27
UniRef90_UPI000474CC5B
UniRef90_Q6W200
UniRef90_A0A024PR91
UniRef90_L1IXZ8
UniRef90_I3ZKU3
UniRef90_K9SBK7
UniRef90_C5K519
UniRef90_J2VWR2
UniRef90_W9TDI2
UniRef90_B9NPB6
UniRef90_F3C128
UniRef90_A8TZT1
UniRef90_Q6LHP0
UniRef90_A3SK89
UniRef90_B9LN94
UniRef90_D2S7P9
UniRef90_K2JIH6
UniRef90_V8D2D2
UniRef90_M1PI88
UniRef90_Q07R88
UniRef90_B8CTI3
UniRef90_UPI0003716AE5
UniRef90_Q2SL44
UniRef90_V6J9D2
UniRef90_E2MYV3
UniRef90_L0REF2
UniRef90_H0E4K7
UniRef90_A3JPV3
UniRef90_W1S4U7
UniRef90_F8JBL0

1 10 20 30 40

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

UniRef90_W8AJA0
UniRef90_L7YBU3
UniRef90_W0TKF6
UniRef90_UPI00037F518C
UniRef90_A1RG59
UniRef90_N2ZF3
UniRef90_D3SNT0
UniRef90_Q2STK0
UniRef90_L1LZW3
UniRef90_UPI0003B6F78F
UniRef90_K2QQF3
UniRef90_D3EQT1
UniRef90_A0L7X5
UniRef90_UPI0004789CF9
UniRef90_A0A011NXG7
UniRef90_UPI000380FDCD
UniRef90_E0MQZ2
UniRef90_K9T4A7
UniRef90_UPI0003B6F78F
UniRef90_A0A024USR9
UniRef90_A9NF89
UniRef90_E8X0C3
UniRef90_T0ZJJ1
UniRef90_A0A011NSR6
UniRef90_A5EXE6
UniRef90_B9QV72
UniRef90_B2T434
UniRef90_H0PU69
UniRef90_K2JPB2
UniRef90_E4NW76
UniRef90_Q2ITM8
UniRef90_A0A059INS9
UniRef90_N6Y3V4
UniRef90_Q2J8A3
UniRef90_G7H7J6
UniRef90_L7KW51
UniRef90_I3CL17
UniRef90_UPI0003673B8F
UniRef90_E5AKL6
UniRef90_G8PRD1
UniRef90_F4CYC8
UniRef90_A0A017HRR6
UniRef90_K0VWF8
UniRef90_E1VCQ8
UniRef90_A3V1L9
UniRef90_W8ZVE4
UniRef90_X0YGQ2
UniRef90_UPI000404D0FB
UniRef90_M0T8H5
UniRef90_UPI000317C93A
UniRef90_UPI0003B4DC79
UniRef90_Q3IN28
UniRef90_UPI000470A036
UniRef90_W8S876
UniRef90_UPI0002558142
UniRef90_UPI000465DF1B
UniRef90_S6HH08
UniRef90_H2CEE4
UniRef90_K9WYM0
UniRef90_Q08Z77
UniRef90_E6QP00
UniRef90_D2R7Y4
UniRef90_I0IL27
UniRef90_UPI000474CC5B
UniRef90_Q6W200
UniRef90_A0A024PR91
UniRef90_L1IXZ8
UniRef90_I3ZKU3
UniRef90_K9SBK7
UniRef90_C5K519
UniRef90_J2VWR2
UniRef90_W9TDI2
UniRef90_B9NPB6
UniRef90_F3C128
UniRef90_A8TZT1
UniRef90_Q6LHP0
UniRef90_A3SK89
UniRef90_B9LN94
UniRef90_D2S7P9
UniRef90_K2JIH6
UniRef90_V8D2D2
UniRef90_M1PI88
UniRef90_Q07R88
UniRef90_B8CTI3
UniRef90_UPI0003716AE5
UniRef90_Q2SL44
UniRef90_V6J9D2
UniRef90_E2MYV3
UniRef90_L0REF2
UniRef90_H0E4K7
UniRef90_A3JPV3
UniRef90_W1SAU7
UniRef90_F8JBL0

50 60 70 80
S A L T N D L N R R I P G K A Q Y T L C C T P E G G V I D D L I Y Y V S D E E L
Y F T T N D L S N R I K T G Q A Q Y S C F I N H L G G M L A D D L I Y K I S E E K F
G Q L T A N D I E A R L D Q T G K A Q L S A W C T P E T K G G R M L A D L F L I F Q R M G E D D L
UniRef90_UPI00037F518C Y L L Q T A N D V A R L R V G G K A L Y S G W M L N E T K G G V V D D L I V Y L F Q R M G E W F
G Q V T T D I S S L L A T Q D Q W R W G A H C D N P K G G K M L A S F R T F A L M Q E A G L
R L L T V G D V A R L A P V G K A L Y S I M L N A H E G G V V D D D L L Y R L L E D E Q G Y
UniRef90_D3SNT0 K L I T T R Q V E K L R V G G K V Q Y N L L S N P E G G G I K D D D V T I Y R L L E D E V
UniRef90_Q2STK0 H A L A N N V A K L T P G K A L Y S C L L N P Q E G G V I D D L I V Y Y F T E D D F
UniRef90_L1LZW3 G Q L T T C H I G Y L D E Q T S S L G S R C M Q E K G R M Q S S F R I L P Q G D D G F
UniRef90_UPI0003B6F78F H V L T N N A A A L A D V G E S Q Y T L I Q N E A K G G A I D D D A Y Y R F E P D R F
UniRef90_K2QQF3 T L V P V D I L G L K A D G G R Q R Y G F F T D D N G G G I L D D L M I S R L G S R L
UniRef90_D3EQT1 S L V P S D I K K L A P G K A Q Y T T F L N S A S G G V I D D D L I Y Y R Q D N E S R K
UniRef90_A0L7X5 F L L C N D V A K L E A G G K A Y T T G M L N S A S G G V I D D D L I V Y R D N E S Q H
UniRef90_UPI0004789CF9 H A L V G N I T P M A V G K A R Y T M I C A P D G G V L D D L I V Y R L A E T Y
UniRef90_A0A011NXG7 R L L A N N I D K L Q V G K A Q Y S A M L N E A G G V I D D D L I V Y Y R L E E N Y
UniRef90_UPI000380FDCD S L M P S D V I G L G V G K A Q R Y G L L N D E A G G V I D D L L M F V N R G D D L
UniRef90_E0MQZ2 K L Y T N G W S K L K P G R A K Y G I M L R E S T G G F I Y D D G V V G R L S E N R
UniRef90_K9T4A7 N Q T T N N I N S L T S P G G E A K L S L T N D K G G R T L D D L A T A Y L T E D A
UniRef90_UPI0003B6F78F S I V V G D I A S L T S P G G E A K L S L T N D K G G R T L D D L A T A Y L T E D A
UniRef90_A9NF89 Y V L S S T T E L R P Q N Q Y S L L L Q N D G G G I I D D D L V Y P F S S D D Q I
UniRef90_E8X0C3 R L L M N D A S K L Q T G K A H Y S A M L Y E N E R G G V I D D D V V L H K Y L S G E D D Y
UniRef90_T0ZJJ1 M L F A N D V G K L T P G K A L Y G C L L N E R G G V I D D D L I V Y Y R D N E S Q
UniRef90_A0A011NSR6 R L L A N N V D R L Q P G K A L Y S T M L N E A G G V I D D D L I V Y H L G E D F
UniRef90_A5EXE6 R I M P T N F L S L P A V G K Q R Y A L L L N D A G F I E D D L M V T R R A D D D F
UniRef90_B9QV72 R I Y T N P W K L A P V G R C R Y G L L L N D A G F I E D D G V I G R L A D D R
UniRef90_B2T434 G Q L T N D T Q H L D A A N A R L A G Y C S A K G R L L A S F L T W R S G D T I
UniRef90_H0PU69 N L L M N D V K K L G A E D A Q W S S F N S P K G R M L A S L L L W K D S A D G R
UniRef90_K2JPB2 R I Y T N A W K L G I G K A R Y G L M L R E D G M V F D D G V T V R L A E D R
UniRef90_E4NW76 R L T S N D V R E L D Q G D A Q Y S C I L D D Q E G G I I D D T V V Y K Y P D E Y
UniRef90_Q2ITM8 T L V P Q D I V A L A R G R Q R Y A Q F T N D S G G I I D D D L M V T N L G S D R L
UniRef90_A0A059INS9 R L C A N Q I D V A A G R I V Y T Q M L N L R G G I E S D L T V T R L S E A F
UniRef90_N6Y3V4 T L V P V D I V D L P V G M Q R Y A L F L N E R G G V V M D D L M V A N F S G D G L
UniRef90_Q2J8A3 A C L T N D L R R I G P G Q A Q Y T L C C C E E T S G G V V D D L I A Y Y S D E E V
UniRef90_G7H7J6 A T L T N D L R K I A P G K A Q Y T M C C C N S S G G V V D D L I A Y V S D D E V
UniRef90_L7KW51 S T L T N D L G K I V P G K A Q Y T L C C C N S S G G V V D D L I A Y V S D D E V
UniRef90_I3CL17 G Q F T N D V R Q V N G Q R S Q L S A W C N A K G R V L Y T F H L T K R N D D Y
UniRef90_UPI0003673B8F R L Y T N M M S T L K V G M I R Y G V M C R L D G M I F D D G T V I R L D R F
UniRef90_E5AKL6 M A L A N N I D K L T P G R A L Y S C M L N A S G G V V D D L I V Y Y F A D D F
UniRef90_G8PRD1 H M C G G D M S V P V G K I V Y T Q F L N E R G G V I E A D D L T V T R L S E T F
UniRef90_F4CYC8 H A L T G A M S A M R V I G R A K Y S L L C A D D G G V I D D D L V Y R L E E R F
UniRef90_A0A017HRR6 R L V P V D V L G L K P G R Q R Y G L F T D E K G G I L D D L M F A N R G D H L
UniRef90_K0VWF8 Y C L T R D V R K L P S T G Q V V Y S A M C Y E N D G G M I D D G T L F R L G D N F
UniRef90_E1VCQ8 T L V P A D L V G L P E G R Q R Y G L F T A E N D G G I D D D L M I V N A G D H L
UniRef90_A3V1L9 R M Y T N P W T K L G V G R A R Y G L L L G E D G G I R D D D G I G R M R H D L F
UniRef90_W8ZVE4 M L V P V D I I D L P Q G K Q R Y A F T N K P D A G I V E D D L M V T N F D D R L
UniRef90_X0YGQ2 Y I T T N D A S K L A L N Q Q R Y S T M L Y P D A G I V E D D L I V Y Y H L R D R L
UniRef90_UPI000404D0FB R L I A N N V G K L K P G K A L Y S A M L N E A G G V V D D L I V Y Y L S D D H Y
UniRef90_M0T8H5 T L V V I A D V A G L R P G T G T L V F T N E R G G A I D D D V V T K V R P D H T
UniRef90_UPI000317C93A A V L P I D L A T L K L G Q R Y S L L L N D E G K I I D D L I V Y R L E E Y
UniRef90_UPI0003B4DC79 T A L A G N F T I M K V G K A K Y S L I L N D E G K I I D D L I V Y R L E E Y
UniRef90_Q3IN28 R L T T N D V A S L A P G E A T Y A G I T D D D V L L D D T V Y R L P D G Y
UniRef90_UPI000470A036 Q L V P A D I A G L A S G R Q R Y T Q F T N E R G G I L D D D L M V T R L E N E L
UniRef90_W8S876 M L Y T N M M S T L K P G K C R Y G L M C S E N G F L M D D G V V A R L D E D T
UniRef90_UPI0002558142 M L Y T N M M S T L K P G R C R Y G L M C N E N G F L I D D D G V M A R L D E N T
UniRef90_UPI000465DF1B K L V A N D M S A K L T P G K A L Y T G M L N E Q G G V I D D L I Y R F S E T F
UniRef90_S6HH08 G Q L T C N L D Y L S D A K A T L G A R C T Q K G R M Q S S F R I L L E G D G C
UniRef90_H2CEE4 K I T P N L E G Q K D G Q I R Y N A L N D N G G I R D D V T I F R E S D S Y
UniRef90_K9WYM0 N Q S T N D F L R L K P G E G C D T V M V T S T A R T I D L A S A Y V L D D A V
UniRef90_Q08Z77 G Q V T T D I T S L G T N E W K W G A H C D P K G K M L A S F R T F S I G D S L
UniRef90_E6QP00 R I T M N D A S R L E I G K A H Y S A L L T P E G T F V D D I L V Y H K L G D D Y
UniRef90_D2R7Y4 S L V T R K V A G M E P G Q A R Y G L V C N E A G G I L D D I L V Y H L L Q Q H A
UniRef90_I0IL27 R L M T S N L L G V S P G K A L Y G I L S N E A G G A I D D I M A Y R F S E R V
UniRef90_UPI000474CC5B R M Y T N P W L K L G V G R C R Y G V L L G E D G G I R D D G V I G R L P D R F
UniRef90_Q6W200 R V I C A N Q M D V E P G R I V Y T Q M L N Q R G G I E S D L T V T R L S Q T F
UniRef90_A0A024PR91 T L V P A D I T G L P A G M Q R Y A L F T G H E G G L L D D L M I V N R G E D L
UniRef90_L1IXZ8 S V T V A D I E N L A M G K G T L S V T P N E N G G I I D D D T M I T K T G D H L
UniRef90_I3ZKU3 K L L M N D A S K L Q I G Q A H Y S A M L T P N E G T F V D D V V L H K L G D D Y
UniRef90_K9SBK7 N Q S T N D F Q R L Q S G E G C D T V F V T S T A R T L D L A T V Y V L E T H F
UniRef90_C5K519 S L Y T V G D L Q L K P G E G R L T L I T T P Q S T I L D D T V Y C N E G H L
UniRef90_J2VWR2 L L Y T N P W E K L G V G R C R Y G L M L R E D G F I Y D D G V V G R L A E D R
UniRef90_W9TDI2 G Q L T C N L N Y L D A D H A S L G S R C T P K G R M Q S S F R I L L E S D N D G Y
UniRef90_B9NPB6 M L Y T N M M S T L K V G K C R Y G L M C S E N G F L V D D G V V A R L D E D T
UniRef90_F3C128 A L V P V D I I D L P V G M Q R Y A M F T N D A G G I L D D L M V A N L G D Q L
UniRef90_A8TZT1 L V S A A D V A V P V G R C A Y T Q W L N P R G G I E A D L T V T R L S E A A
UniRef90_Q6LHP0 A L V P V D I I D L P A G K Q R Y A F F T N E A G G I S D D L M V T N F G D H L
UniRef90_A3SK89 S L V P V D V A G L A S G R Q R Y G F F T N E A G G I M D D L M L A N R G D H L
UniRef90_B9LN94 R L T T N D V T A L D P G D S Q Y A A I T N E A G G V M L D D T V Y R L P D G Y
UniRef90_D2S7P9 R L Y T N L M S S L K V G S V R Y G V M C G V D G M V I D D G T V L R I S A E D R
UniRef90_K2JIH6 R M Y T N P F M K L A P G K C R Y G L L L G D D G Y I R D D G V I A R I S E R
UniRef90_V8D2D2 T I S S Q F V T D L A D G R S A E N L S L D G N G R I E D H F I Q T D I D G T T
UniRef90_M1PI88 Y A F P I D A A L K I G S R Y N Y L L N S Q A G I L D D L I T R L A E R F
UniRef90_Q07R88 R L L P Q D I A A L P L H R Q R Y A Q F T N D S A G G I L D D L M V S N F G D H L
UniRef90_B8CTI3 G Q V T T D I S S L E A E Q W R W G A H C D P K G K M L A T F R T F A K G D T L
UniRef90_UPI0003716AE5 S L V P V D I I D L P V M K S R Y A L F T N S N G G V S D D L M V T N L G D N C
UniRef90_Q2SL44 G Q F T C D I Q E I T I S H S S L A A C C T P K G R M V A L F I A Q A K P D C Y
UniRef90_V6J9D2 G Q L T C N I N Y L S P E Y A S F A G A R C M V K G R M Q S S F R I L P E G N G Y
UniRef90_E2MYV3 H S L T S A I K P L A P G R A K Y T M I V Q E D G G I T D D L I Y R L G S H F
UniRef90_L0REF2 K I V T Q N I D T L A P G K C R Y G F L V N Q E D G G V L D D L I Y Y C L A S E D Y
UniRef90_H0E4K7 G Q V T A D V E A L E P G H G T Y A A L L T P K G K I V C D L R I L A G D D E L
UniRef90_A3JPV3 S I L P Q D V A D L E E D M Q R Y G F F T N D T G G I L D D L M F A N R G D H L
UniRef90_W1SAU7 T L V P V D V A D L P V D M Q R Y G M F T T P K G G I T D D L M F A N W G D L
UniRef90_F8JBL0 R V Y A N A W T Q L A P G K C R Y G L M L D E N G M V M D D G V T A C V A D D H

UniRef90_W8AJA0
UniRef90_L7YBU3
UniRef90_W0TKF6
UniRef90_UPI00037F518C
UniRef90_A1RG59
UniRef90_N2ZF3
UniRef90_D3SNT0
UniRef90_Q2STK0
UniRef90_L1LZW3
UniRef90_UPI0003B6F78F
UniRef90_K2QQF3
UniRef90_D3EQT1
UniRef90_A0L7X5
UniRef90_UPI0004789CF9
UniRef90_A0A011NXG7
UniRef90_UPI000380FDCD
UniRef90_E0MQZ2
UniRef90_K9T4A7
UniRef90_A0A024USR9
UniRef90_A9NF89
UniRef90_E8X0C3
UniRef90_T0ZJJ1
UniRef90_A0A011NSR6
UniRef90_A5EXE6
UniRef90_B9QV72
UniRef90_B2T434
UniRef90_H0PU69
UniRef90_K2JPB2
UniRef90_E4NW76
UniRef90_Q21TM8
UniRef90_A0A059INS9
UniRef90_N6Y3V4
UniRef90_Q2J8A3
UniRef90_G7H7J6
UniRef90_L7KW51
UniRef90_I3CL17
UniRef90_UPI0003673B8F
UniRef90_E5AKL6
UniRef90_G8PRD1
UniRef90_F4CYC8
UniRef90_A0A017HRR6
UniRef90_K0VWF8
UniRef90_E1VCQ8
UniRef90_A3V1L9
UniRef90_W8ZVE4
UniRef90_X0YGQ2
UniRef90_UPI000404D0FB
UniRef90_M0T8H5
UniRef90_UPI000317C93A
UniRef90_UPI0003B4DC79
UniRef90_Q3IN28
UniRef90_UPI000470A036
UniRef90_W8S876
UniRef90_UPI0002558142
UniRef90_UPI000465DF1B
UniRef90_S6HH08
UniRef90_H2CEE4
UniRef90_K9WYM0
UniRef90_Q087Z7
UniRef90_E6QP00
UniRef90_D2R7Y4
UniRef90_I0IL27
UniRef90_UPI000474CC5B
UniRef90_Q6W200
UniRef90_A0A024PR91
UniRef90_L11XZ8
UniRef90_I3ZKU3
UniRef90_K9SBK7
UniRef90_C5K519
UniRef90_J2VWR2
UniRef90_W9TDI2
UniRef90_B9NPB6
UniRef90_F3C128
UniRef90_A8Tzt1
UniRef90_Q6LHP0
UniRef90_A3SK89
UniRef90_B9LN94
UniRef90_D2S7P9
UniRef90_K2JIH6
UniRef90_V8D2D2
UniRef90_M1PI88
UniRef90_Q07R88
UniRef90_B8CTI3
UniRef90_UPI0003716AE5
UniRef90_Q2SL44
UniRef90_V6J9D2
UniRef90_E2MYV3
UniRef90_L0REF2
UniRef90_H0E4K7
UniRef90_A3JPV3
UniRef90_W1S4U7
UniRef90_F8JBL0

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

UniRef90_W8AJA0
UniRef90_L7YBU3
UniRef90_W0TKF6
UniRef90_UPI00037F518C
UniRef90_A1RG59
UniRef90_N2ZF3
UniRef90_D3SNT0
UniRef90_Q2STK0
UniRef90_L1LZW3
UniRef90_UPI0003B6F78F
UniRef90_K2QQF3
UniRef90_D3EQT1
UniRef90_A0L7X5
UniRef90_UPI0004789CF9
UniRef90_A0A011NXG7
UniRef90_UPI000380FDCD
UniRef90_E0MQZ2
UniRef90_K9T4A7
UniRef90_A0A024USR9
UniRef90_A9NF89
UniRef90_E8X0C3
UniRef90_T0ZJJ1
UniRef90_A0A011NSR6
UniRef90_A5EXE6
UniRef90_B9QV72
UniRef90_B2T434
UniRef90_H0PU69
UniRef90_K2JPB2
UniRef90_E4NW76
UniRef90_Q21TM8
UniRef90_A0A059INS9
UniRef90_N6Y3V4
UniRef90_Q2J8A3
UniRef90_G7H7J6
UniRef90_L7KW51
UniRef90_I3CL17
UniRef90_UPI0003673B8F
UniRef90_E5AKL6
UniRef90_G8PRD1
UniRef90_F4CYC8
UniRef90_A0A017HRR6
UniRef90_K0VWF8
UniRef90_E1VCQ8
UniRef90_A3V1L9
UniRef90_W8ZVE4
UniRef90_X0YQ2
UniRef90_UPI000404D0FB
UniRef90_M0T8H5
UniRef90_UPI000317C93A
UniRef90_UPI0003B4DC79
UniRef90_Q3IN28
UniRef90_UPI000470A036
UniRef90_W8S876
UniRef90_UPI0002558142
UniRef90_UPI000465DF1B
UniRef90_S6HH08
UniRef90_H2CEE4
UniRef90_K9WYM0
UniRef90_Q087Z7
UniRef90_E6QP00
UniRef90_D2R7Y4
UniRef90_I0IL27
UniRef90_UPI000474CC5B
UniRef90_Q6W200
UniRef90_A0A024PR91
UniRef90_L1IXZ8
UniRef90_I3ZKU3
UniRef90_K9SBK7
UniRef90_C5K519
UniRef90_J2VWR2
UniRef90_W9TDI2
UniRef90_B9NPB6
UniRef90_F3C128
UniRef90_A8TZT1
UniRef90_Q6LHP0
UniRef90_A3SK89
UniRef90_B9LN94
UniRef90_D2S7P9
UniRef90_K2JIH6
UniRef90_V8D2D2
UniRef90_M1PI88
UniRef90_Q07R88
UniRef90_B8CTI3
UniRef90_UPI0003716AE5
UniRef90_Q2SL44
UniRef90_V6J9D2
UniRef90_E2MYV3
UniRef90_L0REF2
UniRef90_H0E4K7
UniRef90_A3JPV3
UniRef90_W1S4U7
UniRef90_F8JBL0

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

UniRef90_W8AJA0 L L P R W E D A E A V F R A L V A E V Q A A G L G A R D T L R T E M G Y P L H G 170 180 190 200
UniRef90_L7YBU3 I Y I R N E Y A E A I W N E I L L K I G K P C G L G A S R D S L R L R L E M G Y R L Y G
UniRef90_W0TKF6 L T G E P E E Y A V A F W Q M A G K G S L A N G E L G A S N W T L Q N R L R A G L P A V L
UniRef90_UPI00037F518C L V M P E E E Y V A D F W Q A S D A G V A P C G L G A S R D T L R L R L E A G M N P L Y G
UniRef90_A1RG59 L V L Q P E T A N T L V A K H T V F D A T A W Q T V L R L I E A A G Y P N L A
UniRef90_N2ZF3 I L L P A D E E V S F M N E L V G A G T P V G L G A R D T L R L R L E A A G L N L Y G
UniRef90_D3SNT0 I Y A P V E E G K E L W S E L V K W C P P C G L G A R D T L R L R L E A A G L N L Y G
UniRef90_Q2STK0 I I V P A M H V E A L W N A L A E R G R P C G L G A R D T L R L R L E A A G M N L Y G
UniRef90_L1LZW3 L W A P A D Q A D A V R A Q L A A H L P E A G L G D D W L L G Q L R A A G L T G Q V M
UniRef90_UPI0003B6F78F L F V D N E P A L E L W D R L I E G A A P I G L G A R D T L R L R L E A A G L P L Y G
UniRef90_K2QQF3 I S V P A D R A A D F A K T D Q P N C Q P I G L G A R D S L R L R L E A A G L C L Y G
UniRef90_D3EQT1 V M V S N V I G K K L W K L D D E K V V P C G L G A R D T L R L R L E A A G M C L Y G
UniRef90_A0L7X5 L I F P A Q T I I T L W T R L Q A M V V P I G L G A R D T L R L R L E A A G L N L Y G
UniRef90_UPI0004789CF9 L F V A A A D A V K L W N A G V E G V V P S G L G A R D T L R L R L E A A G M P L Y G
UniRef90_A0A011NXG7 I T L P A A Q A S K L W T A L A G A G Q P C G L G A R D S L R L R L E A A G M N L Y G
UniRef90_UPI000380FDCD I S V P A A Q A E A L A R T L L A G A Q V K P I G L G A R N S L R L R L E A A G L C L Y G
UniRef90_E0MQZ2 I N V P A D Y G R A V W E A V W A R A E P Y G T E A M H V L R A E K G Y I I V G
UniRef90_K9T4A7 L T V P V E A A A Q I W S K L T Q G A I P L G D R V W E S Q L R L R L E A Q G R P V D
UniRef90_A0A024USR9 V S V P S S Q V I E S F T R K A D E R V L E A G L G A R D S L R L R L E A A G L C L Y G
UniRef90_A9NF89 I Y T Y D G Y A S L I W D D L Y K L G K P I G L G A R D T L R L R L E A A G M P L Y G
UniRef90_E8X0C3 I Y L P S D E G A V L D A G A E F G I T P C C G L G A R D T L R L R L E A S A M A L Y G
UniRef90_T0ZJ1 V M L P A A Q A Q S L W R A L E A A G V P C C G L G A R D T L R L R L E A A G M N L Y G
UniRef90_A0A011NSR6 I T L P A A Q A V R L W Q R A E A G A R P C G L G A R D T L R L R L E A A G M N L Y G
UniRef90_A5EXE6 I S I P A R K I A M A L A N A S D S R V H P A G L G A R D S L R L R L E A A G L C L Y G
UniRef90_B9QV72 I N V P A R R H G K M M W E T E K H N G T A Y G T E T M H V L R A E K G Y I I V G
UniRef90_B2T434 W I G P K A Q V E S L L P L L E E K L K R V S P A V W D W L D T R A G E P R I T
UniRef90_H0PU69 V P A A A R P A V F G E L V A G G A R K A G T E A A W Q A A M V A E K G V P M I
UniRef90_K2JPB2 I N V R A A S R G R E L W E A L I Q A G T P Y G T E A M H V L R A E K G Y I I V G
UniRef90_E4NW76 I F F A V G D S H E M W D A F S D V P P C G L G S R D T L R L R L E A A G L L S G
UniRef90_Q21TM8 I S V P A D G A E A F A Q A D R P G V P P I G L G A R D S L R L R L E A A G L C L Y G
UniRef90_A0A059INS9 L Y V S T D Q A A H V F E A L M E A A P L C G L H A L D S C R I E A K G F R H F G
UniRef90_N6Y3V4 I S V P A D K A E A L A K E S H P E V A P I G L G A R D S L R L R L E A A G L C L Y G
UniRef90_Q2J8A3 L L P R W D D T P A L W D A L F A A G V P V G L G A R D T L R L R T E M G Y A L H H G
UniRef90_G7H7J6 L L P R W A E A A L L R E V T F A R E G L P A G L G A R D T L R L R T E M G Y A L H H G
UniRef90_L7KW51 L L P R W D D A G A L F D I T E A G G Q P A G L G A R D T L R L R T E M G Y A L H H G
UniRef90_I3CL17 V I A D S E T Q Q T W Q T L T A K V R A V G S T E T M H V L R A E K G Y I I V G
UniRef90_UPI0003673B8F I N V S P W E A L A L W E A L Y E A G T P Y G T E T M H V L R A E K G Y I I V G
UniRef90_E5AKL6 L T V S E A A H V I Q A L W Q A L A A Q G K P C G L G A R D T L R L R L E A A G M N L Y G
UniRef90_G8PRD1 L Y V S T D M A A H A Y E T L T E A G K L C G L H A M D S L R L R L E A K G F R H F G
UniRef90_F4CYC8 L Y V P G A D A P A L W R V R P H A C G L A C R D T L R L R L E A A G M A L Y G
UniRef90_A0A017HRR6 I S V P G T H A E A L A K A L L E N V Q P I G L L A G A R D S L R L R L E A A G L C L Y G
UniRef90_K0VWF8 I F C H P K D A L T V F D A V W E A G Q P H G L K P A R D M V L R L R L E A A G L I F A H
UniRef90_E1VCQ8 I S V P A E Q T E A L A R A E E E V E A I G L K A R D S L R L R L E A A G L C L Y G
UniRef90_A3V1L9 I N V P A R H G R A L W E K L W E V G C P Y G T E T M H V L R A E K G F I I V G
UniRef90_W8ZVE4 I S V L N T H Y A L A T A L L A D E N V E W I G L G A R D S L R L R L E C G L C L Y G
UniRef90_X0YGQ2 I Y C E R Q A G A Q L W D
UniRef90_UPI000404D0FB I T V P A G K A E A L W N A L L E V G K P C G L G A R D T L R L R L E A A G M N L Y G
UniRef90_M0T8H5 I S V P S E H A V D L A K A I L E K V R L T G L G A R D S L R L R L E A A G L C L Y G
UniRef90_UPI000317C93A I S L P A E A A A E V A D L C A E V K P I G L G A R D S L R L R L E A A G L C L Y G
UniRef90_UPI0003B4DC79 L T I D N E D A A E L W S K I I N I G V P C G L A A R D S L R L R L E A A G M P L Y G
UniRef90_Q3IN28 L L F E T A A A E T V W S A L D C Q P C G L G A R D T L R L R L E A A G F L L G G
UniRef90_UPI000470A036 I S V P A A Q A E A L A R T L L A Q V A P I G L G A R D S L R L R L E A A G L C L Y G
UniRef90_W8S876 V A V P A S Q G R A L W D A L L E D A T P Y G T E A L H V M R A E K G F I M I G
UniRef90_UPI0002558142 L S V P A G Q A L A L W E A L M Q A G H P Y G T E A L H V L R A E K G F I M I G
UniRef90_UPI000465DF1B I V V P A N D Q A A D L W Q Q
UniRef90_S6HH08 L W V R I E Q A A D I R S R L A A Q L P E G T L N D W L L G Q I R A G I G Q V V
UniRef90_H2CEE4 I M C E N D R A P S L W D L G G A K I L P A G L L G A R D S L R L R L E A A M Y P L Y G
UniRef90_K9WYM0 L I L P S A A K D K V W R Q I L E G A V E L S D R L G A R W D T L R I I Q G R P S P D
UniRef90_Q087Z7 A I I N N A A A E T I I S Q S G Q T L I D A S A W Q A L E I K A G Y P N I D
UniRef90_E6QP00 V Y I P S D V A E K V W N A L L D A G A P C G L G A R N T L R L R L E A A M P L Y G
UniRef90_D2R7Y4 V I L P A E A A K D F C N K L E H G V P A G L G A R D T L R L R L E A A M P L Y G
UniRef90_I0IL27 F F G P A E E V S R I Y R K C L S V G D P C G L G A R D L L R L R L E M G Y P L Y G
UniRef90_UPI000474CC5B V N V P A R Y G R A V W E K L H E A G Q P Y G T E T M H V L R A E K G Y I I V G
UniRef90_Q6W200 L Y V S S D Q T A H V F E A I E E A G K L C G L H A L D S C R I E A K A F R H F G
UniRef90_A0A024PR91 I S V P V N A A E R L W L L E Q A E V E P I G L G A R D S L R L R L E A A G L C L Y G
UniRef90_L1IXZ8 I F V P G E N A V K L W R K D V P A E V H P A G L G A R D T L R L R L E A A G L C L Y G
UniRef90_I3ZKU3 I Y V P S D E A A D V W Q K D F A G E P A G L G A R N T L R L R L E A S M A L Y G
UniRef90_K9SBK7 L I C T A Q D R A A L W Q L V A A G A V P M G D R A W E Q L R I E A Q G R P A P D
UniRef90_C5K519 L S I P T S E A I A E K M L E N E A V L P A G L G A R D T L R L R L E A A G L C L Y G
UniRef90_J2VWR2 I N V P A D Y G K A V W E A V Y E Q G K P H G L T P M H V L R A E K G Y I I V G
UniRef90_W9TDI2 L W V P A A E A E A R L R L G A Q L Q E A P L L Q R W L L D Q V R A G I G Q V F
UniRef90_B9NPB6 I A V P A S Q G A F W D A L M E A G M P Y G T E C L H I L R A E K G F I M I G
UniRef90_F3C128 I S V P A S Q A E A L A R R L L E E V A P I G L G A R D S L R L R L E A A G L C L Y G
UniRef90_A8TZT1 I Y V A T D M A R H V F D A I L E S G R L C G M H A L D S C R I E A K G Y R H F G
UniRef90_Q6LHP0 I S V P A D T A D A F A R E L L A Y A E W I G L G A R D S L R L R L E C G L C L Y G
UniRef90_A3SK89 I S V P A S E A E F A R A S H E A V E P I G L G A R D S L R L R L E A A G L C L Y G
UniRef90_B9LN94 V M C P A G D A E T V W G A F V D A Q P C G L G A R D T L R L R L E M G F L S G
UniRef90_D2S7P9 V Y V N P A Y A V A V W Q R L L D A G R P Y G I T P M H V L R A E K G Y I I V G
UniRef90_K2JIH6 I N V P A P Y G R A L W E T L W D A G Q A Y D I T A M H V L R A E K G Y I I V G
UniRef90_V8D2D2 L V I P V D Q L I T W S S L T A V G R P A G S W A H E A L R V A A L R P R L G
UniRef90_M1PI88 I A L P I G Q A R A V A E K S D S R V E W V I G L G A R D S L R L R L E A A G L C L H G
UniRef90_Q07R88 I S V P A A A A E R F A L A L L D D A M P I G L G A R D S L R L R L E A A G L C L Y G
UniRef90_B8CTI3 V V I E Q S K V I D T A N L L A D V S L F D A T A W Q A L E T L A G Y P N I G
UniRef90_UPI0003716AE5 I S M P S S D A S K F A A L I S D E V E W V I G A R D S L R L R L E A A G L S L Y G
UniRef90_Q2SL44 C W L D S A Q A S K L L P D L D N Q C A A G A G V E D W E R L E V L S G L G E V Y
UniRef90_V6J9D2 L W V P A D Q A G E V R K T L A D T L P E A G L A N P W L L G Q I C A G I G Q V L
UniRef90_E2MYV3 I F P P A D R A Q V E W R A I T A A G G P C G L A C R D T L R L R L E A A G M P L Y G
UniRef90_L0REF2 F Y L P A D K A Q S L W E K I F D E R V E P I G L G A R D T L R L R L E L G M P L Y G
UniRef90_H0E4K7 V L C P A E D G A A L L A A L E A R A T R V P E D A A E V V R V E S G R P R L G
UniRef90_A3JPV3 I S L P N S V A E D F T R A N H E D V A P I G L G A R D S L R L R L E A G L C L Y G
UniRef90_W1S4U7 V S V P N S D Q A G A F S A A Y D E V E W I G L G A R D S L R L R L E A G L C L Y G
UniRef90_F8JBL0 V N V D A S Y G R H V W E A L M A A G D P Y G T D A M H V L R A E K G F I I V G

UniRef90_W8AJA0 H E L S E E I T P L I E A G L S W I T A V G W K K P Q F W G K S A L E A E K T A G 210 220 230 240
UniRef90_L7YBU3 Q E L S E E I T P L I E A G L S W I T A V G W K K P Q F W G K S A L E A E K T A G
UniRef90_W0TKF6 D A T A E A F I P Q M L N L D V L D G I S F T K E R N F C Y T G Q E T V A R M K Y L G
UniRef90_UPI00037F518C A D M D E K V S P L E A G L S W I T A V G W K K P Q F W G K S A L E A E K T A G
UniRef90_A1RG59 A S H A H Q Y V I P Q M C N L Q A V N G I S F N K G C Y M G Q E T V A R M K Y R G
UniRef90_N2ZF3 H E M D E H V I S P L E A S N L D W T I A W A F Q G R D F I G R K A L E E E R N A G
UniRef90_D3SNT0 H E I S E T I V S P L E A S N L E R Y V S F Q K E F I G K E A M
UniRef90_Q2STK0 Q D M D E T V S P L D A G L A W T V D L A A P R A F V G R D A L E
UniRef90_L1LZW3 E Q T R E L F I P Q M L N L Q A V G G V S F K K G C Y T G Q E T V A R M Q Y L G
UniRef90_UPI0003B6F78F H E L G L D H I P I F A S R L S K F A V S F S K K G D F I G K Q A L A A Q F E
UniRef90_K2QQF3 N D I D T T T S P V E A S I E W I Q K V R R N Q G G F P G A E R I L A E L D N G
UniRef90_D3EQT1 Q D I N D N T T P L E A G L H K L V H L D S K G D F I G R E V L E K Q T N E G
UniRef90_A0L7X5 S D M D H K L D P L E A G L C G M G W T V A W E P T T R M F I G R D Y L E L R E S G
UniRef90_UPI0004789CF9 N E L T A E T T P F E A G L G R V V K F E K G D F V G
UniRef90_A0A011NXG7 Q D M D E S I S P L D A G L A W T V D L A A R D F V G K A A V A R Q H F L G
UniRef90_UPI000380FDCD N D I D T T T T P V E A G L T W R R A G G E R E G G F V G A A K V L A Q
UniRef90_E0MQZ2 Q D T D G T V T P H D A G L S W A T S K I K P D Y V G K R G L L R
UniRef90_K9T4A7 K E L T E D Y N P L E A G L W K A L S F D K G C Y I G Q E T I A R L N Y K G
UniRef90_A0A024USR9 H D I L T P E T T P I E A G L A W M S K R R E E G G F P G A D V I
UniRef90_A9NF89 N E M N E T I N P I E A G L G F A V D F K K D D F I G K S A L
UniRef90_E8X0C3 H E I S D T I N V F E A N L G R Y C K M D K G D F V G R D A L S E I E F T G
UniRef90_T0ZJ1 H D M D E H T S P L E S G L A W T V V M S
UniRef90_A0A011NSR6 Q D M D E S V S P L D A G L A W T V D L A A P R D F V G K A A L
UniRef90_A5EXE6 N D I D T T T T P V E A G L A W A L Q K V R K K G G Y P G A E I A Q H I K N G
UniRef90_B9QV72 Q D T D G T V T P Q D A G M S W A I G K K K H D F V G K R G L E R
UniRef90_B2T434 Q P V V I E Q F V P Q M V N F D V L G A V N F R K K G C Y P G Q E V V A R S Q Y R G
UniRef90_H0PU69 A S V Q E E F V A Q M L N F D L I G G V S F N K G C Y P G Q E I V A R M Q Y L G
UniRef90_K2JPB2 Q E T D G S M T P D D L G M G W I G V S A K K P D F V G K R S L A R
UniRef90_E4NW76 Q D F D E P R T P L E A K L S F V V D L S K P S F I G Q D A L E T L A E T G
UniRef90_Q21TM8 H D I D T T T T P V E A G L S W S I Q K S R R P G G F L G A D A I L A Q L D A G
UniRef90_A0A059INS9 H D I T D E D H V L E A G L G F A V R E D K G D F I G R E A V L R K R A G
UniRef90_N6Y3V4 H D L D Q N T S P V E S S L L W R R A D G A R P G G Y P G A A V V F E H I A Q G
UniRef90_Q2J8A3 Q D L S L S I T P V Q A R S S W A V G W D K D R F W G R D A L L A E R S A G
UniRef90_G7H7J6 H E L S P E I T P V Q A R S S W A V G W E K P A F F G R D A L T A E K E A G
UniRef90_L7KW51 H E L S P E I T P V Q A R S S W A V G W D K P S F F G R D A L V A E K E A G
UniRef90_I3CL17 T N L A D Q F V P Q M L N Y G A I G G I N F K K G C Y A G Q E I V A R M Q Y L A
UniRef90_UPI0003673B8F Q D S D G T V T P Q D L G M G W A V S K K K P D F I G K R S Y A R A
UniRef90_E5AKL6 Q D M D E N V S P L D A G L A W T V D L S G E R D F V G S A A L
UniRef90_G8PRD1 H D I T E E D H V L E A G L R F A V S T K K P S F I G R D A L L R K K E E G
UniRef90_F4CYC8 H E L T V D T P F A A G L R R V V A L D K E F V G R D A L A
UniRef90_A0A017HRR6 N D I D R T T T P V A A A L E W A V V Q K V R R A G G F P G A D V V L P E F E N G
UniRef90_K0VWF8 H E F T D Q T D P V E A G V L F T V P L K S K Q D D F I G R E A L I R R K E
UniRef90_E1VCQ8 H D I D T T T T P V E A G L I W A I G K P R R R G G F P G A D L I H Q
UniRef90_A3V1L9 Q D T D G T V T P L D A G I G W A I G K M K S D F V G K R S L D R
UniRef90_W8ZVE4 H D L D Q T T T P L E A S L L W G I S K R A G G F I G A D V I
UniRef90_X0YGQ2
UniRef90_UPI000404D0FB Q D M D E T V S P L D A G L A W T V D L K S E R D F V G K A A L
UniRef90_M0T8H5 N D M D Q H T T S P V E A G L T W A L G K R R R E E G G F L G A E R I L K Q L E E G
UniRef90_UPI000317C93A H D I S P E T T P I E A G L T F I N K R R R T E G G Y P G A E R I N R E I A E G
UniRef90_UPI0003B4DC79 N E L S L E R T P F D A G F G P V V S F K K E E F V G R K A L E A L R E Q
UniRef90_Q3IN28 N E F D P E T N P R T P Y E A N I G F A V D L G E F V G S D A L A A Q R E A G
UniRef90_UPI000470A036 A D I D E T T T P V E A A L E W S I Q K S A R A G G F P G A E I L A Q L S E G
UniRef90_W8S876 D E S D G T V T P Q D L G L D W A I S K K K D D F L G K R A Q Q R S H
UniRef90_UPI0002558142 D E T D G T V T P Q D L N M H W A I S K K K E D Y L G K R G Q M R S H
UniRef90_UPI000465DF1B
UniRef90_S6HH08 G A T R E E F I P Q M L N L Q A V G G V S F K K G C Y T G Q E I V A R M Q Y L G
UniRef90_H2CEE4 H E L T E D R T P V E S G I G W I V K E K P A P Y P H M D H I L K Q K
UniRef90_K9WYM0 L E L T D D Y N P L E A G L W Q T I S F S K G C Y I G Q E T I A R L N Y K G
UniRef90_Q087Z7 A A H S G Q Y V A Q M C N L Q A I N G I S F T K G C Y M G Q E T I A R M K Y R G
UniRef90_E6QP00 H E I S E S T T P L E A G L E R W L K L D K P D F I G R A A L Q A L K D A G
UniRef90_D2R7Y4 H E L S E S L D P L Q A G L D F A V T L E G R E F I G R Q A I
UniRef90_I0IL27 Q E L T A E T T P F D A G L G F A V S L K K G D F I G R K I L
UniRef90_UPI000474CC5B Q D T D G T L T P D D A A L G W A I G K A K P D F V G K R S L S R
UniRef90_Q6W200 H D I T D E D H V L E A G L G F A V K T A K G E F I G R D A V L R K R E E G
UniRef90_A0A024PR91 H D L D A Q T T P A E A S L I W A V G K S R R E E G G F P G A D V I
UniRef90_L1IXZ8 H D I D D T T T P T M A G L S W Y V G K G R R E P G F T G S D T I L K Q V A E G
UniRef90_I3ZKU3 H E I S D E I N V F E A G L N R Y C K L D K E S D F V G K A A L
UniRef90_K9SBK7 C E L T E D Y N P L E A G L W H T I S F N K G C Y I G Q E T I A R L T Y K G
UniRef90_C5K519 H D I S E T T T P A E A L S W T V K R R N E A N F P G V I E V L R Q V K K G
UniRef90_J2VWR2 Q D T D G T V T P Q D A G L T W A I G K N K T D Y V G I R G L R
UniRef90_W9TDI2 G S T R E L F I P Q M I N L Q A L G G V S F K K G C Y T G Q E I V A R M Q Y L G
UniRef90_B9NPB6 D E T D G T V T P Q D L G L H W A L S K K K E D Y L G K R A H S R S H
UniRef90_F3C128 H D M N T D T S P
UniRef90_A8TZT1 H D I S G E D H V L E A G L G F A V K V D K G D F I G R D A V L R R R E Q G
UniRef90_Q6LHP0 H D L D P T T T P V E A S L L W G I S K R A R E G G F P G A D L I L E Q
UniRef90_A3SK89 H D I L D E E T S P V E A R L T W R R A G G A R E G G F P G A E R I L A E L S D G
UniRef90_B9LN94 Q D F D P E T E P R S P Y E A R I G F T V K L D T E F V G R D A L E A Q K E E G
UniRef90_D2S7P9 Q D T D G T V T P H D L G M A W A V S K K K P D F V G K R S E A R
UniRef90_K2JIH6 Q D T D G T V T P Y D A G M G W A V G T K K A D F V G M R G L K R
UniRef90_V8D2D2 I D T D E R A I P H E V N W D E M G A V H L N K G C Y R G Q E T V A R V H N L G
UniRef90_M1PI88 N D I T P D T T P I E A A L T W A V P K N R E K A R F Y G A K A F L E A L Q K G
UniRef90_Q07R88 H D I D T T T T P V E A A L A W S I Q K S R R P G G F A G A E V I L A Q L D H G
UniRef90_B8CTI3 A A H S A Q F V P Q M C N L Q A I D G I S F N K G C Y M G Q E T I A R M K Y R G
UniRef90_UPI0003716AE5 H E L D D N H S P V E S S L N W A L S K R E G G Y T G D N I V
UniRef90_Q2SL44 P Q T L D E F I P Q M L N L Q A L G A I S F K K G C Y I G Q E I V A R M Q Y L G
UniRef90_V6J9D2 G P T R E Q F I P Q M I N L Q A V D G V S F K K G C Y T G Q E I V A R M Q Y L G
UniRef90_E2MYV3 Y E L T R D R T P L E A G L K S I M G P T K G Q F I G R N A L
UniRef90_L0REF2 Q D L D T E H N P R E A G Y
UniRef90_H0E4K7 H E M D D A V M P A E V I G I V D R A V S F T K G C Y V G Q E T V A R L H W R G
UniRef90_A3JPV3 N D I D E T T T P I E A A L I W I Q K V R R R A G G F P G A E
UniRef90_W1SAU7 H D I L D T N T P V E A S I N W I Q K I R R R A G G F P G A D V I
UniRef90_F8JBL0 Q D T D G S Q T P F D L D M A W A V S M K K P S F I G K R S F A R

UniRef90_W8AJA0	
UniRef90_L7YBU3	
UniRef90_W0TKF6	
UniRef90_UPI00037F518C	T
UniRef90_A1RG59	
UniRef90_N2IZF3	
UniRef90_D3SNT0	
UniRef90_Q2STK0	
UniRef90_L1LZW3	
UniRef90_UPI0003B6F78F	
UniRef90_K2QQF3	<input checked="" type="checkbox"/>
UniRef90_D3EQT1	<input checked="" type="checkbox"/>
UniRef90_A0L7X5	
UniRef90_UPI0004789CF9	
UniRef90_A0A011NXG7	
UniRef90_UPI000380FDCCD	
UniRef90_E0MQZ2	
UniRef90_K9T4A7	<input checked="" type="checkbox"/>
UniRef90_A0A024USR9	
UniRef90_A9NF89	
UniRef90_E8X0C3	
UniRef90_T0ZJJ1	
UniRef90_A0A011NSR6	
UniRef90_A5EXE6	<input checked="" type="checkbox"/>
UniRef90_B9QV72	
UniRef90_B2T434	T
UniRef90_H0PU69	
UniRef90_K2JPB2	
UniRef90_E4NW76	<input checked="" type="checkbox"/>
UniRef90_Q2ITM8	A
UniRef90_A0A059INS9	
UniRef90_N6Y3V4	<input checked="" type="checkbox"/>
UniRef90_Q2J8A3	A
UniRef90_G7H7J6	
UniRef90_L7KW51	
UniRef90_I3CL17	T
UniRef90_UPI0003673B8F	
UniRef90_E5AKL6	
UniRef90_G8PRD1	
UniRef90_F4CYC8	
UniRef90_A0A017HRR6	A
UniRef90_K0VWF8	
UniRef90_E1VCQ8	
UniRef90_A3V1L9	
UniRef90_W8ZVE4	
UniRef90_X0YGQ2	
UniRef90_UPI000404D0FB	
UniRef90_M0T8H5	
UniRef90_UPI000317C93A	T
UniRef90_UPI0003B4DC79	
UniRef90_Q3IN28	
UniRef90_UPI000470A036	T
UniRef90_W8S876	
UniRef90_UPI0002558142	
UniRef90_UPI000465DF1B	
UniRef90_S6HH08	
UniRef90_H2CEE4	
UniRef90_K9WYM0	<input checked="" type="checkbox"/>
UniRef90_Q087Z7	
UniRef90_E6QP00	
UniRef90_D2R7Y4	
UniRef90_I0IL27	
UniRef90_UPI000474CC5B	
UniRef90_Q6W200	
UniRef90_A0A024PR91	
UniRef90_L1IXZ8	
UniRef90_I3ZKU3	<input checked="" type="checkbox"/>
UniRef90_K9SBK7	
UniRef90_C5K519	
UniRef90_J2VWR2	
UniRef90_W9TDI2	
UniRef90_B9NPB6	
UniRef90_F3C128	
UniRef90_A8TZT1	
UniRef90_Q6LHP0	
UniRef90_A3SK89	A
UniRef90_B9LN94	<input checked="" type="checkbox"/>
UniRef90_D2S7P9	
UniRef90_K2JIH6	
UniRef90_V8D2D2	
UniRef90_M1PI88	
UniRef90_Q07R88	A
UniRef90_B8CTI3	
UniRef90_UPI0003716AE5	
UniRef90_Q2SL44	T
UniRef90_V6J9D2	
UniRef90_E2MYV3	
UniRef90_L0REF2	
UniRef90_H0E4K7	
UniRef90_A3JPV3	
UniRef90_W1S4U7	
UniRef90_F8JBL0	

	1	10	20	30	40
UniRef90_X1IM43					D A L A F L I Q
UniRef90_L9X7L4		R T E H A A V R E A A G I F D V S H M G Q L H V S G A D A T E L M Q			
UniRef90_W7QBQ2	P L G V K	K E H E H T R A A C G L F D V S H M G Q I L L R R G P D A P A E T S L E			
UniRef90_UPI0003B6F775			A S F T P L N H E G I L A V V S H M G Q I L L R R G P D A P A E T S L E		
UniRef90_M9LNY0		H H H V R T H A G L F D V G H M V Q H K F E G G A G A L K F L Q			
UniRef90_Q2CHK3	A V A R E V K N T R Q A V G M L D A S T L G K I V V K Q G P D A G A K F L D				
UniRef90_B2JSB0	A V K R E C L A V R N S V G L D A S T L G K I D I Q K G P D A A A K L L N				
UniRef90_A8TR06		R E V T V A R N G V A L L D A S T L G K I D I R A G G G E A A E F L N			
UniRef90_K2JBE1			M T Q W G L V R L A G S P D A E A K F L Q		
UniRef90_UPI000468AA98		R E V K N T R T N M G L L D A S T L G K I L V K G P D A G A K F L D			
UniRef90_I4EZZ5	G V L A E H T A V R E G V G L F D V S H L G T A T V R G P D A A E Y V N				
UniRef90_U4V4W4		R E H R A I R E N V G M Y D M S S F G K I R V E G R P D A E A F L N			
UniRef90_A6FU96	P A G V M K E H R A Q T R A A A G L F D V S H M G Q V I V R S P D T V A L L E				
UniRef90_X7XSB4	P L G E Q R A A E T D A V F V D R S H R A V I A L T G K D R Q S W L H				
UniRef90_D5AL13		R E T V M I T R N V G L D A S T L G K I V V K G P D A T R Y L D			
UniRef90_B9NLV0		R E H M A I R Q N V G M Y D M S S F G K L R V E G P D A T R Y L N			
UniRef90_T0LL82		E H N Y V R K A A G V F D V S H M G D I I I S G K D S D F L E			
UniRef90_S5XV49	G A I D E Y W A C R K A A V V L D L S P L R K F E I T Q G P D A E A L L N				
UniRef90_H0JAR6		R E C L A V R R S V G L D A S T L G K I D I Q G K D A R E F L N			
UniRef90_U8HWWK9	F D G F G A I E E Y H G C R E R V A V M D L S A L R K F E V I G P D A E A L L N				
UniRef90_D9QM99	G V L A E H R W T R E H A G L F D V S H M G Q C K I T G A D A T A Q F E				
UniRef90_V5SED4		R E V R A V R T A A G L I D V S T L G G L D V S T L G G L D V S T L G G L D V S			
UniRef90_F4SAZ0		E H M A V R N A C G L F D V S H M V Q S K I S G P S A T E F L L			
UniRef90_UPI000237D81E		E H L Q T R A K A G L F D V S H M G Q V R L S G G A D A R A L E			
UniRef90_A2CDX3		H Q A V R Q Q V G M F D I S H M G V L R L E G T N P A K D T L E			
UniRef90_G2J4N7	P L G L L K E H Q H T R A A A G L F D V S H M G Q V K L I G A E A A A L E				
UniRef90_H1SAN9		E H R A R Q S G V V C R P A G L G L I R V A G E D A G S F L H			
UniRef90_UPI00034D9A30	A V L R E C A A R R E G V A L M D G S T L G K I D V L Q G R D A G R F L D				
UniRef90_Q0A5H1	S A L A E H R A V R E D C G L F D V S H M A I T D L E G Q G A R D A L R				
UniRef90_J3DHH8			V A P L T D L G L T S L S G D D A A S F L H		
UniRef90_UPI0002557D79		K E H L H T R A A A G L F D V S H M G Q V L K G A D A A J A F E			
UniRef90_K5BEF6	P L G E Q R S A L D G V V V D R S H R A V L T L T G A D R R T W L H				
UniRef90_U8HZZP7		Q E E A V H V R S K V G L I D V S T L G G L D V R G P D A A E F L N			
UniRef90_A9LZG9			L P F F G V V R V S G E D R A Q T F L H		
UniRef90_UPI0004652F79		R E C V T V R K T A G L F D A S T L G K I E V V G P D A A K F M E			
UniRef90_UPI00047828E3	F D G Y G A I D E E Y Y G C R E R A A I M D L S A L R K F D I L G P D A E A L L Q				
UniRef90_K2AK02		E E H N V R T S C G L F D V S H M G E F L V E G P D A A K F L D			
UniRef90_T0LS86		K E H M A V R T D V G I F D I S H M G D I V I S G H D A E T Y V D E			
UniRef90_UPI000381ABFB		E H Q T R T K A G L F D V S H M G Q V I L H G K E T A L A L E			
UniRef90_UPI000367B8A4	P L G E Q R T A R T A A I I D R S H R R I L A L T G G P E R L S W L H				
UniRef90_Q5Z2B3	N P F G E Q R A A V E R V A I V D R S H R F V L R I T G G E R L S W L H				
UniRef90_J1H1T8		L A E H H A V R R R A G L F D L S H M G E V K V V G P D A A A L D			
UniRef90_UPI00026250AC	S Q L A E H K A V R E V A G F F D V S H M R P L D I E G R D A R S L R				
UniRef90_W1MTS8	P A G V L K E H L H T R E Q A G L F D V S H M G Q I R L V G A D A A L A L E				
UniRef90_D5ARM9	P M G V L K E H L H T R A A A G L F D V S H M G Q V I L P I E A V A A L E				
UniRef90_UPI0003B59716			S A L N I S P L L H Y D F L R L D G P D A S R K A L L Q		
UniRef90_B1WQW9			D V V I C D R S H W G L L Q L T G E D R L R F L H		
UniRef90_U3ANF0	G V L A E H R W T R E H A G L F D V S H M G Q A K L T G A D A V A Q F E				
UniRef90_UPI00035C1209	P F G E Q R A A T T S A A V V D R S H R G V I A A L T G D E R L S W L N				
UniRef90_V5WE71	G S R Q E H L A V R S A G L F D I S H M G R L Y V R C R D N E K A Y E				
UniRef90_A0A011U755	P A G V M K E H Q H T R E H V G V F D I S H M K L I E L S G G G A G A L L D				
UniRef90_UPI00023S2R1			T L D L A I T S L S G P D R A K Y L L Q		
UniRef90_E3BGH2		R E C L A T R N S V G I L D A S T L G K I D I Q G K D A R E F L N			
UniRef90_W8WVU3	A V Q R E C L A V R N S V G L L D Y S T L G K I D V R G P D A V I E F L N				
UniRef90_U1PS71	P A S A A G A V R N G V G C E M S Y G V V R V T G D D R I E F V D				
UniRef90_UPI0003F07712		L A E H L H T R N T V S L F D V S H M Q Q S K V Y G K D R I Q F I E			
UniRef90_Q1YTA8		R E G L A V R N S V G I L D A S T L G K I D I Q G P D A A E F I T			
UniRef90_A0A024IF16		E H L H T R S A G L F D V S H M G Q L R L I G P D A A A F I E			
UniRef90_G0UCI8	P S G A V R E H L H T R S A A S L F D V S H F G V V E L Y G A D R V R F I E				
UniRef90_G4ST75			V C P V I D L A V L K V T G N D A G R F L Q		
UniRef90_UPI000360C364		R E C R S V R N S L G M M D A S T L G K I D V Q G K D A R E F L S			
UniRef90_UPI000464EDC8	S V A E E V S A V R R R A G L F D I S H M G E L L L C G P D A P D Q L D				
UniRef90_D8G050		A S R Q G V L L C D R T H W G R L E V S G E D R L R F L H			
UniRef90_UPI00037AB64E		R E V K A T R E G I L I L D A S T L G K I D I K G R D A S E F L N			
UniRef90_D5X5Z7	P K G L L A E H L H T R Q S A G L F D I S H M G Q V A L R G D D A A A L E				
UniRef90_E6VX71		E H K H T R S K A G I F D I C H M G E F K L A G P D A G M N A L N			
UniRef90_Q22968	Y A D F S I K E S T I H T R K H V S L F D V S H M L Q T Y T G K D R V A F I E				
UniRef90_UPI0002E64D44	A V L R E C R A V R E S V G F Q D A S T L G K I E I T G A D A G E F L N				
UniRef90_L9ZN64		E H Q A D R D R V A M V D M T T F T G I E V T G E G A C F L Q			
UniRef90_T2JBC6		N S A D N D V V I C D R S H W G L L Q L T G S D R L R F L H			
UniRef90_D0A8G6		R E H L H T R E A A S I F D V S H F G V V E V T G A D R E K F L E			
UniRef90_UPI00036E0D2E	P L R E Q R S L A L G E A V V D H S H R G V V S V T G P D R L E S W L N				
UniRef90_Q2BIQ4			V I P L I H Q R V L S V K G P D T E K F L Q		
UniRef90_G4CRU7			L P F F G V V R V S G E E R A V F L H		
UniRef90_UPI00035F6DA6		R E I L Q T R S S V G I L D A S T L G K L I V S G P D A G N F L D			
UniRef90_UPI0002F4E48F	F N T A A A L E A L S K G A L V D R S H W G V I Q M D G G D R L R F I H				
UniRef90_UPI0003B78E7B		E H L W T R E H A G L F D V S H M G Q L L E G E G A A E W L E			
UniRef90_A3JRH4		E H R A V R E N V G M Y D M S S F G K L R V E G R D A A C A F M N			
UniRef90_W7SUA4		E H R G T R A A A G L F D E S S F A K I E V S G P G A A K L L S			
UniRef90_V4HCD1	P A T T A R A V R N G A G T I E M G Y G V V V V E G D D R V G F V D				
UniRef90_F8AZ55	G V L K E H A A V R S A V G I F D V S H L G K A R V R G P G A A D L V D				
UniRef90_UPI0003FB9598			L S Q W H I T E V S G E E A A S Y L E		
UniRef90_B6TQ06		C R A N G S L F D V A H M C G L S L K G R G A I P F L E			
UniRef90_C5DEC3	A T R R E V L A V R N G V G L F D G S H M L Q S R L E G P G A T Q F L H				
UniRef90_G3AC4		A E A E Y R A A R E S V A L H D A T Y R E A L R I T G E D R T S F L H			
UniRef90_S9QIA5	W G A K A E Y L A C R E R V A M I D L N T A L R K F E I T G P D A E S F L Q				
UniRef90_N8VDD7			S V Y H L N D I L A V I R L E G P D A E K Y L N		
UniRef90_UPI00046756A3					
UniRef90_UPI00036CC762	P L A E H H A V R T T A G L F D I S H M A E F E V A G A D A G A F L D				
UniRef90_B9XH03	V S E Y R A L H E S A A V L D L S F R S R L C L I T G A D R V R F L H				
UniRef90_C8X346	L A E H R H T R T S A A L F D I C H M G E C R I T G P G A R D G L D				
UniRef90_D5GAR3		E S H N W V R E K A G L F D V S H M V Q H R L T G P G A L P F L H			

UniRef90_X11M43
UniRef90_L9X7L4
UniRef90_U7QBQ2
UniRef90_UPI0003B6F775
UniRef90_M9LNY0
UniRef90_Q2CHK3
UniRef90_B2JSB0
UniRef90_A8TR06
UniRef90_K2JBE1
UniRef90_UPI000468AA98
UniRef90_I4EZZ5
UniRef90_U4V4W4
UniRef90_A6FU96
UniRef90_X7XSB4
UniRef90_D5AL13
UniRef90_B9NLV0
UniRef90_T0LL82
UniRef90_S5XV49
UniRef90_H0JAR6
UniRef90_U8HWK9
UniRef90_D9QM99
UniRef90_V5SED4
UniRef90_F4SAZ0
UniRef90_UPI000237D81E
UniRef90_A2CDX3
UniRef90_G2J4N7
UniRef90_H1SAN9
UniRef90_UPI00034D9A30
UniRef90_Q0A5H1
UniRef90_J3DGH8
UniRef90_UPI0002557D79
UniRef90_K5BEF6
UniRef90_U8HZP7
UniRef90_A9LZG9
UniRef90_UPI0004652F79
UniRef90_UPI00047828E3
UniRef90_K2AK02
UniRef90_T0LS86
UniRef90_UPI000381ABFB
UniRef90_UPI000367B8A4
UniRef90_Q5Z2B3
UniRef90_J1H1T8
UniRef90_UPI00026250AC
UniRef90_W1MTS8
UniRef90_D5ARM9
UniRef90_UPI0003B59716
UniRef90_B1WQW9
UniRef90_U3ANF0
UniRef90_UPI00035C1209
UniRef90_V5WE71
UniRef90_A0A011U755
UniRef90_A0A023S2R1
UniRef90_E3BGH2
UniRef90_W8WUU3
UniRef90_U1PS71
UniRef90_UPI0003F07712
UniRef90_Q1YTA8
UniRef90_UPI000241F16
UniRef90_G0UCI8
UniRef90_G4ST75
UniRef90_UPI000360C364
UniRef90_UPI000464EDC8
UniRef90_D8G050
UniRef90_UPI00037AB64E
UniRef90_D5X5Z7
UniRef90_E6VX71
UniRef90_Q22968
UniRef90_UPI0002E64D44
UniRef90_L9ZN64
UniRef90_T2JBC6
UniRef90_D0A8G6
UniRef90_UPI00036E0D2E
UniRef90_Q2BIQ4
UniRef90_G4CRU7
UniRef90_UPI00035F6DA6
UniRef90_UPI0002F4E48F
UniRef90_UPI0003B78E7B
UniRef90_A3JRH4
UniRef90_W7SUA4
UniRef90_V4HCD1
UniRef90_F8AZ55
UniRef90_UPI0003FB9598
UniRef90_B6TQ06
UniRef90_C5DEC3
UniRef90_G3A4C4
UniRef90_S9QIA5
UniRef90_N8VDD7
UniRef90_UPI00046756A3
UniRef90_UPI00036CC762
UniRef90_B9XH03
UniRef90_C8X346
UniRef90_D5GAR3

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

UniRef90_X11M43 MLVITNANASNIIEKDYRWLIEGVARKNLKLNSDETSLLAJLQGG
UniRef90_L9X7L4 LFLVFNAGTDEATHERWVEYRNEWDLLEDNRRTDEYAMFALVQGG
UniRef90_W7QBQ2 YLVVNAAGCKDKDQDIALLELETFGLDTEHELEVLDRSGLLWQGG
UniRef90_UPI0003B6F775 LLAAMDQDILVJAQLAELEKQFVAVFKTKLTD DSALWLSRFQGG
UniRef90_M9LNY0 YVVTNAGCRTEDLAWFKKQWTGDQVQHRVMDGWGLLALVQGG
UniRef90_Q2CHK3 WLCHHTTGGSDRHLAHMEEWLLQTEWWDWNSLTDQYAAQLAVVVG
UniRef90_B2JSB0 FMMTTTTGGGARVLTWMEWRLQTEWPDMSVTDHWAQFAVVVG
UniRef90_A8TR06 FMTTTTGGGARVMMNWLEEYLQTEWPEMDVTEQWAVASICGG
UniRef90_K2JBE1 LLLQARDAVASQLPGMAKFAVFNKVTLTDAASDQQLLGLLAGV
UniRef90_UPI000468AA98 WLCHHTTTGGAERTIEWLQTEWWDWVVAANVTEQYAAQVAVVVG
UniRef90_I4EZZ5 VLLVFNANANA AVLRLTAGAPAGVSVTDRHEVAVLAVLQGG
UniRef90_U4V4W4 LVVTPAATRLSDETWMRRHADRNVVITDVTASSEGLVALVMQG
UniRef90_A6FU96 FVVVNAAGCKKAAADIAHMQNGLPGCTVVEEISDRALLALVQGG
UniRef90_X7XSB4 YLDTEPWRGEPLLSYLRKMMVFWADVTLDAADLAVLAVLQGG
UniRef90_D5AL13 WLCHHTTSGGARDRLDWLQCEWWDWKKVTANLTDQYAAQVAVVVG
UniRef90_B9NLV0 YLVTPAAGTRYHDQVWMEHRHGRGDFNVITDVTAAQYAAQVAVVVG
UniRef90_T0LL82 FLVFNASTTGKTYEWMVNSKNYEVKINNNSDYSCYALVQGG
UniRef90_S5XV49 RWLGGDDYGGEWLREQA EKAGLQVMLRSSTNEMHNLTAVVVG
UniRef90_H0JAR6 FLMTTTGGGARVFEWLELYHQTEWPELEVTDHWAQFAVVVG
UniRef90_U8HWK9 RWLGGEDYAGIWLREQAQKLG MKVWTKSASEQIHNI AVVVG
UniRef90_D9QM99 YVVVNAAGNKDEDFAFWRALHLSG DATLTVLDDRALI AVVVG
UniRef90_V5SED4 YVYVTAATGAGVDQVYRQMTWHWRLDVDIINVTAAYAAVAVVVG
UniRef90_F4SAZ0 YLVFNANRRQRDLNWTNQHIQSFDAKIEVMEWGLI AVVVG
UniRef90_UPI000237D81E LLVVNAAGCKSETDFAHVRD ALGATCDVSDMLADRALLAVVVG
UniRef90_A2CDX3 LLVINAACSEDTDTWLQPHLQPAAGIALSDAKNNVLLAVVVG
UniRef90_G2J4N7 LYVVVNAAGCKAQDIAHLKSKIGHRCEVVELENDRALLAVVVG
UniRef90_H1SAN9 VLQLLSADLQAPALQKRLSMFLRAKAKLSDTPARAVLAVVVG
UniRef90_UPI00034D9A30 FLVTTTGNAAAMVLDWMEWLLQTEWPHLDVTEHWAQFAVVVG
UniRef90_Q0A5H1 RJVSNAAATRGSVQRWLERLTA AFGLQP EARTDLAMI AVVVG
UniRef90_J3DHHG VLQLLPALQKRLQMFVMSKAKADVSEQYVVALGLLAGV
UniRef90_UPI0002557D79 FVVVNAAGCKGADIAHMRANLPGIIEVEEITDRVALLAVVVG
UniRef90_K5BEF6 YLDTEPWRGEPLAGYLR RMVFWSDVTV EAPALAVLAVLQGG
UniRef90_U8HZP7 EYVTAATTSQGQMLKWNQFWRNLNVLDVTVNVTAAALAVNLAG
UniRef90_A9LZG9 LLI MAQDLELATV KR LR MFWLRAKAVFEIIEADYAVVVG
UniRef90_UPI0004652F79 HVTTTTGGGARVMMME DY LQTEFPHLNVSSEQWAVI AVVVG
UniRef90_UPI00047828E3 RWLCHGEDYAGIWLREQA EKLG MKVWVKSASASQIHNI AVVVG
UniRef90_K2AK02 FLVVNAANI DDKFKWCNVEVKDKMKALQNLSENYAQL AVVVG
UniRef90_T0LS86 FLIPNANASNIIEKTYRWMIDNKNYSVILENYSNLISHI AVVVG
UniRef90_UPI000381ABFB FVLDTEAAGCKGSDT VHLRS LLEPDI SILEEENRALI AVVVG
UniRef90_UPI000367B8A4 WIDTEAARADL LAF LQK M VFWAKVEPVDRPDELMAVAVVVG
UniRef90_Q5Z2B3 WIDTEADRGPALDFLTKMVF WADAKPAEATDHAVLAVVVG
UniRef90_J1H1T8 LVVFNAGNREAVADELVSRDQRDFDCEVNDSSLTMAVAVVVG
UniRef90_UPI00026250AC RI VLNASGAEADA AHFOI DQHAWVT LNKRPDLGLI AVVVG
UniRef90_W1MTS8 LLVVNAAGCKHQDLAHLRHHLEGRCSVEPLFEERALLAVVVG
UniRef90_D5ARM9 FLVVNAAGCAEADIAHLRAHVPGVTVVEGRGRGLLAVVVG
UniRef90_UPI0003B59716 LLRMSADLCESTRLLLNKYIVFVSKASLSETRQH HVVAVVVG
UniRef90_B1WQW9 LLLVSPNRRRF LYEWMDRYIFMDKVERDI SEQNAI FTIIG
UniRef90_U3ANF0 FIVVNAAGCKKADDFAHIEAGLQGD A KLTRLDRALLAVVVG
UniRef90_UPI00035C1209 WIDTEGSRAPLAF LQK M VFWAKVEVAAARP DLSVLTAVVVG
UniRef90_V5WE71 LLVVNAAGN HKDLDWI RTEA PELQVE DITGKIGMLAVVVG
UniRef90_A0A011U755 MLVANAAGNAAEDEAHLRRLFAEGLDVT VNP LDRQVFLAVVVG
UniRef90_A0A023S2R1 LMLTKPAGVLAARQLPELKFALFAKVEISENHGQQAAGVAVVVG
UniRef90_E3BGH2 FMTTTTSGGAARVLDWLELWHQTEWPELDDVTDQWATMTI AVVVG
UniRef90_W8WVU3 LLLTTTSGGARVIMSWME RKLQTEWPDTSVTDQYAVAVVVG
UniRef90_U1PS71 LLFVTPERTT PLVEDWSGWLQTEWPDVTDQYAVAVVVG
UniRef90_UPI0003F07712 YIVSNAAGCIDKDI ANMKMKSQGF DVT FEPI TDRALLAVVVG
UniRef90_Q1YTA8 YLMEFTTGGGARVLAWLELWQQTEWPE TSVTDHWAQFAVVVG
UniRef90_A0A024IF16 FVIVNAGCKHGDLKHIVD RIGARCTVPEPQFDRGLLAVVVG
UniRef90_G0UCI8 VLVVNAAGCKEKTI GYMRNMVFRGEAVVEHREDCAVLAVVVG
UniRef90_G4ST75 LLLLPSEL L DSI IEKLYLRLRADVQLD SRDEYCVLV
UniRef90_UPI000360C364 FLIMTTSTGGAALE MWLQTEWSDLDVHLNSVTDQSTVAVVVG
UniRef90_UPI000464EDC8 FVVVNAATTTQTF CWFSAKLGSS ETTVTDSEWGG LAVVVG
UniRef90_D8G050 LLLVSPNRRMKLELELDQRYL FMDKVEKDVTDATATFSLVIG
UniRef90_UPI00037AB64E YVMTTASVVMKLEDDWLQTEWPFKVLTSIT EQFSTVAVVVG
UniRef90_D5X5Z7 FLIVNAGCKVQDVALLQTLSDRCEVVPMP EQALLAVVVG
UniRef90_E6VX71 MLVVNAGACKRDKDFSQIKANLLGKGLSFTDILSDETGKIDVQGG
UniRef90_Q22968 FLVTVNAGCKLEKDLPLYLQWRWSKGDVKIETL DNRGLVAVVVG
UniRef90_UPI0002E64D44 YMTTTTSGGAATVLEWLEEW HQTEWVVT SVTEQWSTVAVVVG
UniRef90_L9ZN64 YMVFTTGGGNSATLRWLREYHPDDGSVVT AHDRCGVGVVVG
UniRef90_T2JBC6 FLLVISPNRQKFLYEWM DRYIFPMDKVKDILSDKNAI FTIIG
UniRef90_D0A8G6 VVVVNAAGCKDKMIAYMRQSADFTGDVVALEME DRAIVTVQGG
UniRef90_UPI00036E0D2E WLVIVAE EEAAPLAAWLDKSMKFLMLKVEILDVSGEWGLAVVVG
UniRef90_Q2BIQ4 LLLRMSQDIFDPSAANNLK KYIVFVSKAESVSD EISGLG T G
UniRef90_G4CRU7 LLLMAADLV EKTKRLRMFVLR AKVVFETLHDFAVVVG
UniRef90_UPI00035F6DA6 FLCHHTTGGGQMEWLLQTEWWDWVQNLIT EQYAAQLAVVVG
UniRef90_UPI0002F4E48F LILITS PGDQRLINWMDRYIFPADQVSNLITGEMAVFSLVIG
UniRef90_UPI0003B78E7B YLVVINGATKHGDI A HMAARLPAGITLHHME DDAVAVVVG
UniRef90_A3JRH4 LVVTPAATRLAJADETWMRRNQGD DNVVIDVTAGEGLVAVVVG
UniRef90_W7SUA4 RJVTPGATAGSRDLAWLRQHAPDDGSVVRDVTGQYTCFALLVVG
UniRef90_V4HCD1 LLFVTPPGRADPLVDDWSGKVFID DVERDASAEFGVFGVHGG
UniRef90_F8AZ55 FLIPNANANTAEVRRLLAAASPPPEVAVVENLHTAFGLVAVVVG
UniRef90_UPI0003FB9598 LYLQPPQSVAATQLNELKAYAVFAKVEISEPENL S L TAVVVG
UniRef90_B6TQ06 YLVVNAAGCKRDKDLA HIEA H K K G G D V K W H I H D D R S L L A V V V G
UniRef90_C5DEC3 FIVTNAAGRAKEDI A FELNEQVQGF ECRWE PVVRDRALLAVVVG
UniRef90_G3A4C4 FLVHTASAAVD RVELLQCEWPD LRVVVAANVTQWANVTAVVVG
UniRef90_S9QIA5 VLDLIEPGLGAKVREFLEKFLISEDAEHNDATEEQGVLRLVQGG
UniRef90_N8VDD7 RWVCGDEYTG TWLQKQKAYELGYRVSIRHS SDQYIHNVAVVVG
UniRef90_UPI00046756A3 LMLYKKEJADVQLAELEKQYAVFVSKVTTIDVSEQYDILVAVVVG
UniRef90_UPI00036CC762 FLVFNAGNRDAVA AF TERVA GF DTEVVDSTDFSLI AVVVG
UniRef90_B9XH03 LLDFFEPLTKVVSERLEKYI IADDVQLIDVA AAYGQLSIVQGG
UniRef90_C8X346 MLVVNAACQETDFTWLRREHLPAGVVA FEDI SEATAKGLDLOGG
UniRef90_D5GAR3 YIVTNAGCKDKDLARNMRHLSSSDIKHEVLI GQGLVAVVVG

UniRef90_X11M43
UniRef90_L9X7L4
UniRef90_W7QBQ2
UniRef90_UPI0003B6F775
UniRef90_M9LNY0
UniRef90_Q2CHK3
UniRef90_B2JSB0
UniRef90_A8TR06
UniRef90_K2JBE1
UniRef90_UPI000468AA98
UniRef90_I4EZZ5
UniRef90_U4V4W4
UniRef90_A6FU96
UniRef90_X7XSBA
UniRef90_D5AL13
UniRef90_B9NLV0
UniRef90_T0LL82
UniRef90_S5XV49
UniRef90_H0JAR6
UniRef90_U8HWK9
UniRef90_D9QM99
UniRef90_V5SED4
UniRef90_F4SAZ0
UniRef90_UPI000237D81E
UniRef90_A2CDX3
UniRef90_G2J4N7
UniRef90_H1SAN9
UniRef90_UPI00034D9A30
UniRef90_Q0A5H1
UniRef90_J3DHH8
UniRef90_UPI0002557D79
UniRef90_K5BEF6
UniRef90_U8HZP7
UniRef90_A9LZG9
UniRef90_UPI0004652F79
UniRef90_UPI00047828E3
UniRef90_K2AK02
UniRef90_T0LS86
UniRef90_UPI000381ABFB
UniRef90_UPI000367B8A4
UniRef90_Q5Z2B3
UniRef90_J1H1T8
UniRef90_UPI00026250AC
UniRef90_W1MTS8
UniRef90_D5ARM9
UniRef90_UPI0003B59716
UniRef90_B1WQW9
UniRef90_U3ANF0
UniRef90_UPI00035C1209
UniRef90_V5WE71
UniRef90_A0A011U755
UniRef90_A0A023S2R1
UniRef90_E3BGH2
UniRef90_W8WUW3
UniRef90_U1PS71
UniRef90_UPI0003F07712
UniRef90_Q1YTA8
UniRef90_A0A024IF16
UniRef90_G0UCI8
UniRef90_G4ST75
UniRef90_UPI000360C364
UniRef90_UPI000464EDC8
UniRef90_D8G050
UniRef90_UPI00037AB64E
UniRef90_D5X5Z7
UniRef90_E6VX71
UniRef90_Q22968
UniRef90_UPI0002E64D44
UniRef90_L9ZN64
UniRef90_T2JBC6
UniRef90_D0A8G6
UniRef90_UPI00036E0D2E
UniRef90_Q2BIQ4
UniRef90_G4CRU7
UniRef90_UPI00035F6DA6
UniRef90_UPI0002F4E48F
UniRef90_UPI0003B78E7B
UniRef90_A3JRH4
UniRef90_W7SUA4
UniRef90_V4HCD1
UniRef90_F8AZ55
UniRef90_UPI0003FB9598
UniRef90_B6TQ06
UniRef90_C5DEC3
UniRef90_G3A4C4
UniRef90_S9QIA5
UniRef90_N8VDD7
UniRef90_UPI00046756A3
UniRef90_UPI00036CC762
UniRef90_B9XH03
UniRef90_C8X346
UniRef90_D5GAR3

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

UniRef90_X11M43
UniRef90_L9X7L4
UniRef90_W7QBQ2
UniRef90_UPI0003B6F775
UniRef90_M9LNY0
UniRef90_Q2CHK3
UniRef90_B2JSB0
UniRef90_A8TR06
UniRef90_K2JBE1
UniRef90_UPI000468AA98
UniRef90_I4EZZ5
UniRef90_U4V4W4
UniRef90_A6FU96
UniRef90_X7XSB4
UniRef90_D5AL13
UniRef90_B9NLV0
UniRef90_T0LL82
UniRef90_S5XV49
UniRef90_H0JAR6
UniRef90_U8HVK9
UniRef90_D9QM99
UniRef90_V5SED4
UniRef90_F4SAZ0
UniRef90_UPI000237D81E
UniRef90_A2CDX3
UniRef90_G2J4N7
UniRef90_H1SAN9
UniRef90_UPI00034D9A30
UniRef90_Q0A5H1
UniRef90_J3DGH8
UniRef90_UPI0002557D79
UniRef90_K5BEF6
UniRef90_U8HZZP7
UniRef90_A9LZG9
UniRef90_UPI0004652F79
UniRef90_UPI00047828E3
UniRef90_K2AK02
UniRef90_T0LS86
UniRef90_UPI000381ABFB
UniRef90_UPI000367B8A4
UniRef90_Q5Z2B3
UniRef90_J1H1T8
UniRef90_UPI00026250AC
UniRef90_W1MTS8
UniRef90_D5ARM9
UniRef90_UPI0003B59716
UniRef90_B1WQW9
UniRef90_U3ANF0
UniRef90_UPI00035C1209
UniRef90_V5WE71
UniRef90_A0A011U755
UniRef90_A0A023S2R1
UniRef90_E3BGH2
UniRef90_W8WUW3
UniRef90_U1PS71
UniRef90_UPI0003F07712
UniRef90_Q1YTA8
UniRef90_A0A024IF16
UniRef90_G0UCI8
UniRef90_G4ST75
UniRef90_UPI000360C364
UniRef90_UPI000464EDC8
UniRef90_D8G050
UniRef90_UPI00037AB64E
UniRef90_D5X5Z7
UniRef90_E6VX71
UniRef90_Q22968
UniRef90_UPI0002E64D44
UniRef90_L9ZN64
UniRef90_T2JBC6
UniRef90_D0A8G6
UniRef90_UPI00036E0D2E
UniRef90_Q2BIQ4
UniRef90_G4CRU7
UniRef90_UPI00035F6DA6
UniRef90_UPI0002F4E48F
UniRef90_UPI0003B78E7B
UniRef90_A3JRH4
UniRef90_W7SUA4
UniRef90_V4HCD1
UniRef90_F8AZ55
UniRef90_UPI0003FB9598
UniRef90_B6TQ06
UniRef90_C5DEC3
UniRef90_G3A4C4
UniRef90_S9QIA5
UniRef90_N8VDD7
UniRef90_UPI00046756A3
UniRef90_UPI00036CC762
UniRef90_B9XH03
UniRef90_C8X346
UniRef90_D5GAR3

UniRef90_X11M43 N D M D E T K T P L E T N I A W T V K F D K E D F I G K E A L L K Q K E E G 210 220 230 240
UniRef90_L9X7L4 Q D F D D P R T P Y E A G I G F T V D L D T E F V G R D A L A
UniRef90_W7QBQ2 H D I D T E T T P V E A G L I W A L G V
UniRef90_UPI0003B6F775 M P T R E Q E T P Q M L N L P A L D A V S F K K G C Y T G Q E I V A R M Q Y L G
UniRef90_M9LNY0 H D L D A T V S P Q E A A L A W C V G K D R R A G D F L G A E R V L R E L K E G
UniRef90_Q2CHK3 D E T D G T V T P Q D L G L G W A T S K K K D D F L G K R A Q E R S H
UniRef90_B2JSB0 Q D T D G S V T P Q H L G M G G L V A K T K D F L G R R S L A R
UniRef90_A8TR06 Q D T D G S V T P Q D L G M D W I L G V S K S K P D F I G K R G L A R
UniRef90_K2JBE1 A A L Q G G E Y I P Q Q M N L D K L G G I S F E K G C Y I G K R E V V A R M H F R G
UniRef90_UPI000468AA98 D E T D G T V I P Q D L G L H W A L S K K K E D Y I G K R A Q E R S H
UniRef90_I4EZZ5 H E L S L D I T P N Q A R S G W A V G W Q K S G F W G R E A L V A E K V A G
UniRef90_U4V4W4 H D I T T E D N V I A A G L G L A V S T K K E A F L G R D A V L R T K E N G
UniRef90_A6FU96 H D I L D E T T T P L E A A L G W R R R G V A R E G G F P G A A V I L D Q L E N G
UniRef90_X7XSB4 V D T D E R T I P H E V G W P G L G A V H L D K G C Y R G Q E T V A R V H N L G
UniRef90_D5AL13 D E T D G T V I P Q D L G L G W A I S K K K A D Y I G R D A V L R K E R H
UniRef90_B9NLV0 H D I T C E D H V I D A G L G F A V K T D K P D F I G R D A V L R R K E T G
UniRef90_T0LL82 Q D F D N N R D P V I E C S I S F I M S N K G D Y I G K E S I E K R N H T
UniRef90_S5XV49 Y D F C D Q T P F E A G L G F T V P L K S K E V D F I G R E A L T R R K E T
UniRef90_H0JAR6 Q D T D G S V T P Q D L G M G W A V S L N K S S F I G K R A G M H R Q
UniRef90_U8HVK9 Y E F C D Q T D P F E A G I G F T V P L K T K Q D D F L G R A A L E R
UniRef90_D9QM99 H D I D A T T S P V I E G S L T F A L S K S M E A A D F N G A A R I L K E R A E G
UniRef90_V5SED4 Q D T D G T T H P A E A G M D W A L G K K K P F Y V G K R A I A L Q I A K G
UniRef90_F4SAZ0 T D L D E T V G V G E A G L G W V I G N Q R T G F L G E E
UniRef90_UPI000237D81E S D I L D L T T T P V I E A A L E W S I Q K S R R A A G G Y P G A A L V A D Q Q A E G
UniRef90_A2CDX3 Q D M D I L T T P F E A G L G W L V H L E M P A P M G R T A L E Q Q A E D G
UniRef90_G2J4N7 H D I D T S T S P I E G S L L W A I S K R A G G Y P G A A V V A R H I A E G
UniRef90_H1SAN9 V A T Q E Q F V P Q M I N L E L V G V S F R K G C Y P G Q E I V A R S Q Y R G
UniRef90_UPI00034D9A30 Q E T D A T V T P Q D L G M S W A V S K K K A D F I G K R S H T R A E N
UniRef90_Q0A5H1 Q D M T P E T T P L E C G L G W T V H W T P E D R D F I G R H P L E A Q R R E G
UniRef90_J3DHG8 Q A T Q E Q F V P Q M I N F E L I G V N F K K G C Y P G Q E I V A R S Q Y L G
UniRef90_UPI0002557D79 H D I D E T T S P I E A A L H W R R A G G D R E G G F P G A E R I
UniRef90_K5BEF6 V D T D E R T I P H E V G W P G Q G A V H L D K G C Y R G Q E T V A R V H N L G
UniRef90_U8HZP7 Q D T D G M T T P A E I D M T W A I A R S K P F F V G K E I L E K Q
UniRef90_A9LZG9 A A T K E T A V I A Q M L N Q H I I G V V H F K K G C Y P G Q E I I A R A Q Y R G
UniRef90_UPI0004652F79 Q D T D G T V T P N D A G L Q D W A V G K K K A D F V G
UniRef90_UPI00047828E3 H E F S D E I D P F E A G I G F C V P L K T K S D D F I G R E A L L R
UniRef90_K2AK02
UniRef90_T0LS86 Q D F N E N K N P Y E A S I S F I V N F E H N A G G F I G K E I L L E Q K T Q
UniRef90_UPI000381ABFB H D I D K A T T P V I E A S L W R R A H G E R A G G G F M G S E L I S Q Q L E E G
UniRef90_UPI000367B8A4 L D T D E R T I P Q E A R W A E Q G A V H L D K G C Y R G Q E T V A R V H N L G
UniRef90_Q5Z2B3 L D T D E R T I P H E V R W A E H G A V H L D K G C Y R G Q E T V A R V H N L G
UniRef90_J1H1T8 H E L T E E T T P Y D A S L G A V V A L D K P E F I G Q A L V A R A A R E G
UniRef90_UPI00026250AC Q D M D T S V S P Y A S N L G W T V D L R D S D R A F M G R A G L E A E R A R G
UniRef90_W1MTS8
UniRef90_D5ARM9 H D I D T E T T P Q E A G L S W A L Q K A R R E G G G F P G A D R I L R E L T E G
UniRef90_UPI0003B59716 A A T Q D M F V P Q V L N Y Q L T G A L N F K K G C Y T G Q E V V A R M Q Y R G
UniRef90_B1WQW9 Q E L T E D Y N P L E A G L W S S I S F D K K G C Y I G Q E T V I A R L N Y Q G
UniRef90_U3ANF0 H D A D E T T S P V I E A A L A F A L S K S R K E A D F P G A D R I L K
UniRef90_UPI00035C1209 I D S D E R T I P H E V N W D E L G A V H L N K G C Y R G Q E T V A R V H N L G
UniRef90_V5WE71 H E L T E E I T P R E A T M K W T C K L D D G D P D F I G K E A I R Q R Y
UniRef90_A0A011U755 N D I T P G D T N P V D A G L M W A V P K S L R E G R F A G A D A L R A L I A R G
UniRef90_A0A023S2R1 A V H Q G E Y I P Q M L N L Q A L D G I S F T K G C Y I M G Q E T V A R A K Y R G
UniRef90_E3BGH2 Q D T D G S M S P Q D M G M N W I I G K N K P S F L G K R S W Q R Q E N
UniRef90_W8WVU3 Q D T D G S V T P M D L G M G G M L A K N K D C Y I G K R S L A R S H T S G
UniRef90_U1PS71 F E L E G K I P N V A G V R N A L D F E K G C Y V G Q E V V S K S V E N R G
UniRef90_UPI0003F07712 N D I D E D T T P I E A T L A W T J A K R R R Q E N F P G A E I I L K Q
UniRef90_Q1YTA8 Q D T D G S M T P A D M N M D W V V G K N K A F S F I G K R S L Q R
UniRef90_A0A024IF16 N D I D T T T P V I E A L N W M Q K V R R A G G F P G A D R V L A Q
UniRef90_G0UCI8 H E L S E E I N P V A A R C M W C V P K H L I E E G G F I G H A R L R E L G
UniRef90_G4ST75 K E T S E E F I P Q M L N L D Q L G G I S F N K G C Y I G Q E I V A R T H Y L G
UniRef90_UPI000360C364 Q D T D G S M T P M D V N M N W I L A K D K P F S Y I G Q R S F S
UniRef90_UPI000464EDC8 H E L S P E L T P M E A R L A W V V D W E K G A F P G K R A L E E K R L R
UniRef90_D8G050 F E L T D E Y N P L E A R L L H T I S Y D K G C Y I G Q E T I A R L N Y K G
UniRef90_UPI00037AB64E Q E T D G S V T P I D L D M S W I L I S K K Y D F I G K R A L N R
UniRef90_D5X5Z7 H D I D T S T T P V I E A G L T W R R H G G A R A G G F P G A E V I L A Q
UniRef90_E6VX71 Q D L D D E H T P V E A G A G F F L K K E D Y I G R
UniRef90_Q22968 S D I L E E N T T P L E A G L A F V V A K R R R E T D F P G A E H I V K Q
UniRef90_UPI0002E64D44 Q D T D G T V T P Q D A G M E W I V S K L K D F V G K R S Y S R V
UniRef90_L9ZN64 T D L T P E F N P Y E A G I G F A V D L E T D F V G K E A L L E S R E A G
UniRef90_T2JBC6 Q E L T E N Y N P L E T G L W S T I S F D K G C Y I G Q E T I A R L N Y Q G
UniRef90_D0A8G6 H E L S E D I D P V A A R C M W C V P K H M T E G G F V G H E R L A Q L
UniRef90_UPI00036E0D2E A E T D E K F I P H E L D L L R T A V H L A K G C Y K G Q E T V A R V H N L G
UniRef90_Q2BIQ4 E A T Q E A F I P Q M T N F Q A L D G V S F K K G C Y T G Q E I V T R L Q H R G
UniRef90_G4CRU7 E A T T E T C V A Q M L N Q H I I G V H F K K G C Y P G Q E I I A R A Q Y R G
UniRef90_UPI00035F6DA6 D E T D G T I L P Q D L N L N W A V S K K K N D F I G K R A H E R I F M R
UniRef90_UPI0002F4E48F H E L T E D Y N P L E A G L W Q A I S F D K G C Y I G Q E T I A R L N Y Q G
UniRef90_UPI0003B78E7B H D L D P E T T P V I E A D L S F A I S K R R K E G G F P G A E R V L D Q L F N G
UniRef90_A3JRH4 H D I T C E D H V L E A G L G F A V K T D K P N F I G R D A V L R K K E T G
UniRef90_W7SUA4 S D L T P D H N P Y E A G L G F C V K K D R P F L G R D A L L R A K E Q G
UniRef90_V4HCD1 T E L E G R L P N V L G L R N A V D F E K G C F V G Q E V V S K V E N R G
UniRef90_F8AZ55 Q D L S P S I T P V Q A R A G W A V G W N K P R F W G R G A L L A E R S A G
UniRef90_UPI0003FB9598 A A T S G E F I P V Q A L N D G S L E A I S F S K G C Y T G R E T I A R A R Y R G
UniRef90_B6TQ06 N D M E Q H I T P V I E A G L S W A I G K R R R E G G F L G A D V I L K Q L Q E G
UniRef90_C5DEC3 H E L D E D T T P V I E A S L N W L I S K S R R D G
UniRef90_G3A4C4 S D T D G S S N P L D I G W G K M I E K K A D D F I G R R S L Q R
UniRef90_S9QIA5 Q D M V D T T I P L I E A N L T H G I S Y N K G C Y I G Q E V I A R A T F R G
UniRef90_N8VDD7 H E F T Q A Q T N P F E A G I G F T V P L K S K E E D F L G K Q A M
UniRef90_UPI00046756A3 K Q T Q T E F I P Q A L N L Q A L H G I S F T K G C Y T G Q E I V A R A K Y R G
UniRef90_UPI00036CC762 H E L S L D I V P A Q A G L G R V V A V D K P G F V G K A A L A
UniRef90_B9XH03 A D M D E T N L A P E A G E A R A L S Y S K G C Y I G Q E V I A R I R T Y G
UniRef90_C8X346 Q D L D R E H T P A E A G Y A G M L T S Q A P Y I G K D
UniRef90_D5GAR3 H D L D D T T P I E G G L K W L V G K T R A D G N F L G A E I I S R Q Y

UniRef90_X1IM43	
UniRef90_L9X7L4	
UniRef90_W7QBQ2	
UniRef90_UPI0003B6F775	
UniRef90_M9LNY0	
UniRef90_Q2CHK3	
UniRef90_B2JSB0	
UniRef90_A8TR06	
UniRef90_K2JBE1	
UniRef90_UPI000468AA98	
UniRef90_I4EZZ5	
UniRef90_U4V4W4	
UniRef90_A6FU96	A
UniRef90_X7XSB4	
UniRef90_D5ALI3	
UniRef90_B9NLV0	
UniRef90_T0LL82	
UniRef90_S5XV49	
UniRef90_H0JAR6	
UniRef90_U8HWK9	
UniRef90_D9QM99	
UniRef90_V5SED4	<input type="checkbox"/>
UniRef90_F4SAZ0	
UniRef90_UPI000237D81E	T
UniRef90_A2CDX3	
UniRef90_G2J4N7	<input type="checkbox"/>
UniRef90_H1SAN9	T
UniRef90_UPI00034D9A30	
UniRef90_Q0A5H1	A
UniRef90_J3DHG8	
UniRef90_UPI0002557D79	
UniRef90_K5BEF6	
UniRef90_U8HZZ7	
UniRef90_A9LZG9	
UniRef90_UPI0004652F79	
UniRef90_UPI00047828E3	
UniRef90_K2AK02	
UniRef90_T0LS86	
UniRef90_UPI000381ABFB	T
UniRef90_UPI000367B8A4	
UniRef90_Q5Z2B3	
UniRef90_J1H1T8	A
UniRef90_UPI00026250AC	
UniRef90_W1MTS8	
UniRef90_D5ARM9	A
UniRef90_UPI0003B59716	
UniRef90_B1WQW9	<input type="checkbox"/>
UniRef90_U3ANF0	
UniRef90_UPI00035C1209	
UniRef90_V5WE71	
UniRef90_A0A011U755	A
UniRef90_A0A023S2R1	A
UniRef90_E3BGH2	
UniRef90_W8WWU3	
UniRef90_U1PS71	
UniRef90_UPI0003F07712	
UniRef90_Q1YTA8	
UniRef90_A0A024IF16	
UniRef90_G0UCI8	
UniRef90_G4ST75	
UniRef90_UPI000360C364	
UniRef90_UPI000464EDC8	
UniRef90_D8G050	<input type="checkbox"/>
UniRef90_UPI00037AB64E	
UniRef90_D5X5Z7	
UniRef90_E6VX71	
UniRef90_Q22968	
UniRef90_UPI0002E64D44	
UniRef90_L9ZN64	
UniRef90_T2JBC6	<input type="checkbox"/>
UniRef90_D0A8G6	
UniRef90_UPI00036E0D2E	
UniRef90_Q2BIQ4	
UniRef90_G4CRU7	
UniRef90_UPI00035F6DA6	
UniRef90_UPI0002F4E48F	<input type="checkbox"/>
UniRef90_UPI0003B78E7B	A
UniRef90_A3JRH4	
UniRef90_W7SUA4	
UniRef90_V4HCD1	
UniRef90_F8AZ55	
UniRef90_UPI0003FB9598	
UniRef90_B6TQ06	
UniRef90_C5DEC3	
UniRef90_G3A4C4	
UniRef90_S9QIA5	
UniRef90_N8VDD7	
UniRef90_UPI00046756A3	A
UniRef90_UPI00036CC762	
UniRef90_B9XH03	
UniRef90_C8X346	
UniRef90_D5GAR3	

UniRef90_UPI00031ABC1F 1 T E F T P L A N S L E S L R S T G I V I T M P G L G L I R V A G D D A A T F L H 40
UniRef90_J2TNS8 P L P P R R N R P G H D N S A G V T A L S H L G V I R A E G P D A A S F L H
UniRef90_F0WFH9 P A G V M K E H L H T R M K S S L F D V S H M G Q L R I T S G G P H D R E A V F L L
UniRef90_E8TD41 P A G V M K E H L H T R E Q A G L F D V S H M K L F E V L T G N E R K S W L H
UniRef90_L0J5E0 P L G E Q R S A A D H A V V V D R S H R A V L T L T G N E R K S W L H
UniRef90_S2XVU3 P L V J E Q R L H T R Q E D C G V V D R S Y Y R V I E V T G N S G C V K F L N
UniRef90_B3RL84 Q E H L H T R Q E C S L F D V S H M L Q L T F G N S G C V K F L N
UniRef90_J5M4X2 E E A L N V R N N V G M L D V S T L G G L D I R G P D A A E F L N
UniRef90_K6YAH4 G V I V L T G S D E K I K A Y L L Q
UniRef90_W4LH12 E H Q A A R D R V G L F D L T P F T K L D V T G S G A L A Y L L Q
UniRef90_G7CGK9 P F G E Q R A A T T E V V V V D R S H R A A L T L T G G D R K S W L H
UniRef90_UPI0002D86E10 R E C R A T R E S V G L L D A S T L G K I D I R Q G K D V R E F L N
UniRef90_Q9AGP1 R E S K A V R D S V G M L D A T T L G K I D I R Q G K D A A E F L N
UniRef90_BOJMM8 L I D R S D W G L L E L K G Q D R L R F L H
UniRef90_Q21IG4 L I E V K G P D A E K F L Q
UniRef90_L8JD66 A L A L V D L A D W A L V T L V G E D A E K S Y L H
UniRef90_A0A014L934 A V A R E C R A A R E G V A F M D A S T L G K I E I W G R D A G E F L G Q
UniRef90_B3TA05 E E H R A V R E A V G L F D Q T S F A K F V L Q G G R D A E G V L Q
UniRef90_G7L8V3 E E A L D A A D N G V V V D L S H F G R I R V V G R D D R V Q F L H
UniRef90_P28337 L E S H L H T R R H C S L F D V S H M L Q T R V Y G R D R V R F L E
UniRef90_T0K527 E H A W T R E H A G L F D V S H M G Q L G F S G E G V D E A L F
UniRef90_UPI0002888F3C A V A R E C R A V R E K V G I L D A S T L G K I D I R Q G P D A R E F L G
UniRef90_Q28L75 P T G V M A E H L W T R E N A G L F D V S H M G Q V V L P A D A D L E Q
UniRef90_C9P1M3 N T F T P L L V T A N D R L P L M V T N L E Q W A A I Y V S G I D S K P Y L
UniRef90_Q1GDZ1 P L G I M K E H T A T R E K A G L F D V S H M G Q V I L R G E S A A F E
UniRef90_I0V309 P F A E Q R T A T R G V A V D R S H R Q I I T V T G E E R L S W L H
UniRef90_UPI000366DBFC P T G I I Q E H K H T R E S A S L F D V S H M G Q I R L V G S R A A T C L E
UniRef90_U7FUE4 E S H R W T R T H A G L F D V S H M L Q S T L Q G K D A V N F L H
UniRef90_C5DP10 Q A A H T G V A L Y D C T P W G R I Q V T N S D R L A F L H
UniRef90_B8HYA0 G V T A L S D L G V I R A E G P D A S F L H
UniRef90_C5CMW8 A V A R E C R A A R E G V A F M D A T T L G K I E I R G A D A P E F L N
UniRef90_UPI00037692A4 D E V V A V R T R A G L Y D V S G L N I V N V S P A A L K F L I D
UniRef90_F5T352 S A G W I S L K D R T L V I V T G S D A L H F L Q
UniRef90_T0ZJN2 E H K Q C R Q S G A L F D V S H M G R L E I K G R H A R K F C E
UniRef90_I0IG96 P D T L S F L Q
UniRef90_B7RX51 F N A A G P L E E Y W A C R E R A T I M D L S V L R K F E V I G P D A E D L M Q
UniRef90_UPI0003673C58 H H H T R N K V S L F D V S H M L Q F K V Y G K D K E S F I E
UniRef90_H2Y3Q6 P H D E V I A T R S R A G L Y D V S A L N I V N V S G P D A E A V I D E
UniRef90_F5RCR4 S H T R T A C S I F D V S H M L Q T R I T G E S A I A A V I D E
UniRef90_E4WUF6 G I T P I S H L G V I R A V G A D A S F L H
UniRef90_D0J4U6 V V D L S H H G R I R V S G E D R S V Q F L H
UniRef90_M1C712 S L T M I L L E E W S L T Y V E G I D S K V Y L Q
UniRef90_P57510 A P E A E T E A V L H G A A V H D L G W R R R I A V R G E D R Q R W L S
UniRef90_E6QKE6 A V L R E H E C A A V R G S V G F M D A T T L G K I E I R G K D A G E F L N
UniRef90_UPI00037F793F H E H L H C R N Q A S L F D I S H M G Q C L K G S S A A V G L E
UniRef90_G4T403 E S H N W T R T N A S L F D V S H M M Q S R L T G K N A V S F L H
UniRef90_I2H784 F A E A G P I E E Y H A C R K Q C V I M D L S P L R K F E I A M G P D A E A L C Q
UniRef90_Q161M3 P V A E Q R A L R G G A V V D Q S H L G I V R V A G R D A G T F L H
UniRef90_F6FU17 A V L R E C T A A R T G V A A L D A S T L G K I V V A G R D A G T F L D
UniRef90_UPI00034C0D44 E S H L W T R Q N A G L F D V S H M L Q S R L T G A E A T K L H
UniRef90_Q6FVZ0 L T D Y G I L S V S G E D A D S F L Q
UniRef90_Q5R0Z6 H L H T R R H C S L F D V S H M L Q T K I F G V D R V K L M E
UniRef90_UPI00033157FA E H V A I A D E R A A G R I F M R G R D R A A L L H
UniRef90_A7NPT7 I D L S E L G L I R A S G Q D V T L F L Q
UniRef90_A8PP81 H M H T R E H C S I F D V S H M L Q T K V H G R D R V K F M E
UniRef90_H2TCG8 E S L H V R N E V G I H D M T S F N K L A V S G Q G A D E F L Q
UniRef90_L0K3V9 P E R A H S A V R N G V G L T E M P Y G V L V V S G D D R I E Y V D
UniRef90_E7QU07 A V Q Q E A L N V R N N V G L I D V S T L G G I E L R G P D A A E F L N
UniRef90_UPI00037CE88F P E R T H R A V R N V V G A M E Y G Y G V I V V T G E D R V D Y V D
UniRef90_H8DWF0 A Q N Q P A T L Y S L R H L A I I E V N G E D A G R F L Q
UniRef90_GOHTI7 H L H T R T L T S L F D V G H M L Q T R V S G K D A G E Y L E
UniRef90_G0A4B9 P V A E Q R A L R N G I G V V D A S H R G V V T V T G P D R L S W L D
UniRef90_E1ZYN2 L A E H R A V R N A G I F D L S H M G E V K V T G P D A A A L D
UniRef90_UPI0003B5FC62 L Q S H L H T R R H C S L F D V S H M L Q T L V Y G R D R V R F M E
UniRef90_C0W2M7 E Q E H K A V R E A V A L I D Q S S F A K F E M F G P A A L D T L Q
UniRef90_H0Z470 P Y M E T E T V R T R A G L F D V S A L K I L D L S G P D S L A F L N
UniRef90_B6JEV6 R E T L N V R K N A G I C D V S T L G K I E I F G K D A A E F L N
UniRef90_UPI000468487E H N W V R S K V G L F D V S H M L Q H N F S G V D A K N L L Q
UniRef90_UPI00045EB486 P L G V L G E H N H T R A K A G L F D V S H M G Q C F T A A D D A K A L E
UniRef90_UPI00036091C2 P A G V M K E H L H T R T A A G L F D V S H M G Q L L R P R G G M A L E
UniRef90_A3LT77 Q E S C R H T R N H V S I F D V S H M L Q T H I V G K D R I P F I E
UniRef90_UPI0003642DCE P P G V I A E H L H T R A K A G L F D V S H M G Q A L F E G A H A L R A F E
UniRef90_UPI0004633FC6 E H R H T R E A A S L F D V S H M G Q L H V R G E Q A A A L E
UniRef90_G0A4B9 E A L N V R N G V G L H D M T S F N K M E I V S G N A G E F L Q
UniRef90_UPI00036C6C09 P M G V M K E H L H T R T R A G L F D V S H M G Q V I V S G D L A N A L E
UniRef90_MOMRB1 F T A H G T I A E Y W A C R E K A V I M D L S P L R K Y E I T G P D A E A L M Q
UniRef90_D2CKZ7 E H E S V R T S A G F F D I S H M G V T S L R G I N P K E Y I Q
UniRef90_UPI0002D9E371 R E V L N V R K N A G L C D V S M L G K I E I C G K D A A E F L N
UniRef90_Q7TU18 L P D R G V I K I S G A D A R H L N
UniRef90_A9CG88 K A E H L H V R E K A G L F D V S H M G Q A Y L T G S E A A A I E
UniRef90_Q13BR3 R E H K A V R E A A V I F D Q T S F A K F V L K G R D A E A A L S
UniRef90_E0T174 H L H T R S K A S L F D V S H M L Q T R V Y G K D R F Q F A H
UniRef90_B5ZVY3 T P V L P A E P T L F S L T D L A I T R L T G N D R V K Y L Q
UniRef90_T1KCG0 E H L H T R N A V S M F D M T S F S S I V E G V D A E S Y L Q
UniRef90_W0A3D9 Q E C K A A R N D A I L L D Q S S F G K H L V Q G R D A C R F L Q
UniRef90_G0LI88 L P F F A V V R V S G A D C R D F L H
UniRef90_X5PRW5 P T L G V I Q A Q G E D A S N F L H
UniRef90_UPI00047C908A D E H L W T R S H A G L F D V S H M G Q L E V S G E G A A A L E
UniRef90_UPI0004747950 G V S S L P
UniRef90_U3A7N9 D E H L W T R S H A G L F D V S H M G Q L E V S G E G A A A L E

	50	60	70	80
UniRef90_UPI00031ABC1F	S Q F T N A V E D L	S A S D T A R R L A G A Y C	S P K G R V L M A S F L M W R D A D G I	
UniRef90_J2TNS8	G Q L T Q D F S L L L G	A S E D A R K L A A L T C	A K N G R V I A S F I I K P Q E D E L I	
UniRef90_F0WFH9	S L V V L D D A G A A E	E I S G E A S K L S L F L T N	Q A K G G I I D D C V I T K Y E D D A F	
UniRef90_E8TD41	R A C P L D A G G I E I	S G E A S K L S F L L T N E A	N G G I L D D L I V T R K Y E D D A R	
UniRef90_L0J5E0	N I S S Q H V S D L P	D G G A V T Q N L S L D G A Q	G R V E D H W T Q T E L L D G V T	
UniRef90_S2XVU3	T L F S Q D V A D E A A	P Q G R V T E A L S L D D A N G	H I D H M T L T V L D D S E V	
UniRef90_B3RL84	S L I V T Q K V A N L P	Q G R G T L S V F T N E N G G I	I D D L I V S K I S K L I S D E L	
UniRef90_J5M4X2	R M Y T F A Y V K L L P	T G K T R Y L L M T N E A G T	V I D D G V A C R R R G D E Q Y	
UniRef90_K6YAH4	G Q I T A D V N K L L P	D E R N A L L G C H C	D F K R G K I W S V E Y T F A W Q	
UniRef90_W4LH12	W L T S N D M D R L P	V G R V T Y T S M L N D K R G	G I V C D L T V T R L G E H F	
UniRef90_G7CGK9	S L S T Q H V S E L P	D G G A V T E N L S L D A Q G	R V E D H W I Q T E L L P G V T	
UniRef90_UPI0002D86E10	R I Y T N G W D K L L	A P G R Q R Y G L M C H A	D G M V F D D D G V T C I S D E H F	
UniRef90_Q9AGP1	R L Y T N G Y T K L K	V G M A R Y G V M C K A	D D G M V F D D G V T L R L J A E D R	
UniRef90_B0JMM8	N Q T S N A I D R L K	P G G Q G C E T I F L N S T	G R T L D F V T V Y A S D D S L	
UniRef90_Q21IG4	G Q C T C D F K S L	I A N G K F S L G A H C	N V K G R M V S F T A A K L G E D H F	
UniRef90_L8JD66	G Q V T C D V V S L	A S T D A S T L G S H C	D A K G K M R T V F R L F H H N G D Y	
UniRef90_A0A014L934	R V Y T N G F K K L R	P G M A R Y G V M C K P	D G M I F D D G V T L R L E E N Y	
UniRef90_B3TA05	R L C A N D V A V P	T G G V V Y T S M L N Q R	G T I E C D L T V T R T A E N D R	
UniRef90_G7L8V3	N Q S A N D F E G L	Q A G Q G C D T V F V T P	T A R T I D I A H A W L M K N	
UniRef90_P28337	S L V V G D I A E L R	P G G Q T L T L T N E R G G	D I V D D L T V T N T A E D H	
UniRef90_T0K527	V L L P S D I L K G L	K P G R Q R Y S M L L D E E	G I V D D D L M V S R L G D E G	
UniRef90_UPI0002888F3C	R V Y T N K W E K L A	V G K R Q R Y G L M C K	D D G M V L T D D G V T S C L A E N H	
UniRef90_Q28L75	A L V P V D V L G L A	E G R Q R Y G F F T N D T G	G V L D D L M I A R G P D G L	
UniRef90_C9P1M3	G Q L T C N D V V A L	S A Q G R V Y G A H C	D A K G I W S A F R L F H H R D G Y	
UniRef90_Q1GDZ1	K L V P M D V L G L S	E G R Q R Y G L F T N D T G	G I V E D D L M F A N R G D H L	
UniRef90_I0V309	L V I S Q H V T G L R	D G E G T E A L V L D S Q	G R I D A H L V L A H I G E K V	
UniRef90_UPI000366DBFC	S I A P A D I L G L A	P G G Q C Y S Y L T N H	A G G I V D D F M V M N I N E T S G Y	
UniRef90_U7FUE4	N L V T A D L D G M T	E G G A R A G A L L T P	A G G I V D D L I Y R V E I N T S G Y	
UniRef90_C5DPI0	K V T P T D F Q Q L H	P G V G T L S V L L N P	N G G I V D D L I T K Q S A H D F	
UniRef90_B8HYA0	N Q S T N E F K L L K	P G G C D T V I V N S T A R	T L D L V T A Y V T E D A V	
UniRef90_C5CMW8	G Q L T Q D F A L L G	A T E A R L A V L C T A K	G R V I A S F V I R P Q P E L V	
UniRef90_UPI00037692A4	R I Y T N A F A K L A	V G K A R Y G V M C G V	D G M I F D D G V S L R L A D D Y	
UniRef90_F5T352	K L V T I D V T K L E	P G T S R L A G E V N E	E G A L V D D M V I C D D K E H Y	
UniRef90_T0ZJN2	G Q L T F D L L T L G	P D N F G W A A H C S	P E K G K V L F T T L V V K T G E T F	
UniRef90_I0IG96	R V L T R K V S D M P	V K T A R Y A L T C N	E A G G V M D D V L V Y R F E D H F	
UniRef90_B7RX51	G Q V T C N D T R E L	S S Q A V V Y G A Y C C N	P H G R M V C D F M L A Q L G E N H	
UniRef90_UPI0003673C58	L A V T R N V R K L A	V N Q I V Y T A M C N	P H G G M I D D G T L F R L G E N H	
UniRef90_H2Y3Q6	S M T V C D V K G L P	E N G G S L T V F T N A E	G I M D D A T I N Q T Q Q D D Y	
UniRef90_F5RCR4	R V L T I D V T R L K	P G T A R L G G E V N	A G A L V D D M I I R D A A D K F	
UniRef90_E4WUF6	S V C T A D V A A L L	S D N S G S L A L F T N N Q	G G I V D D L I N K I S S E E I	
UniRef90_D0J4U6	G Q L S N D F A L L K	F D Q A R L A A F C T A K	G R M L A S F L G F R L A D E I	
UniRef90_M1C712	N Q S T A N F E T L H	E G G C D T V F V T P T A R	T L D I A H A W M K T A L	
UniRef90_P57510	G Q L T I D I E T L L	K T H H T L C A H C N	F N G R V W S T M H L F H Y E K G Y	
UniRef90_E6QKE6	G M V T N T V E G L P	D N S G A Y N L V L N A Q	G R I Q G D C L V W R C G E A L	
UniRef90_UPI00037F793F	R V Y T N A F K K L K	P G M G R Y G V M C T P	D G M V F D D G V T L R L D E D Y	
UniRef90_G4T403	N L T P A I S R R L K	S G R Q R Y T V L T N S D	G G I V D D L V V T R L G Q E L	
UniRef90_I2H784	K V T P T D F E S L K	A D Q G T L S V L L N N T	G G I V D D T M I T K E K E N S	
UniRef90_Q161M3	Y I F T R N M K T L A	V G G V Y T A M C Y E	H G G M I D D G T V F R L A D N F	
UniRef90_UPI00036F6U17	S I T S Q D V Q A L S	P R T S T E T L V L S P	Q G H V E H V A G V V D D G E A T	
UniRef90_UPI00034C0D44	R L Y T G N L S T L K	P G R C R Y G L L C T A	D G M V L D D G V I A R L P D G A	
UniRef90_Q6FVZ0	S V T P T D F A N L P	Q G T G S L S V L L N E	H G G V V D D T L I T K E Q D N Y	
UniRef90_Q5R0Z6	G Q L T C D L R K L K	Q D N C L Y G A H C	D Q T G K A F S I F W L Y R E D D A V	
UniRef90_UPI00033157FA	S L V V G D I A E L R	P N G G T L S L F T N E A	G G I L D D L T V T N T S E G Y	
UniRef90_A7NPT7	R L S T N D I E R L N	P E G E T L T A L T T P	I G R I I D L F T V H A L D D T L	
UniRef90_A8PP81	G Q L T C D L E E I N	A E S R L L G A H C	D A K G R I A I F R L F F Y Q K N Y	
UniRef90_H2TCG8	S L V V A D I A E L K	D N Q G T L T L F T N E	Q G G I I D D L I V T K T D Q G Y	
UniRef90_L0K3V9	Y L C T N D M D	D V G I R Y T L L C	N E E G G V R A D V T V T R T D E Q R	
UniRef90_UPI00036E7QU07	N I V S N T V P S	D E G R G T Y A L L L D	P Q G K V E L D M Y V Y C A G E D L	
UniRef90_UPI00037CE88F	R M Y T L A F H K Q	P A G K T R Y A L M T N E	Q G G V I D D G V A C R L A Q N H	
UniRef90_H8DWF0	N Q F S N D I N H	L E K N Y A C Y A T Y L T	P K G R V J A N L I A F N T G D D T	
UniRef90_G0HTI7	N A V S N R V P D	D D G A G C Y A L L L D	P D G R V D T M Y V Y N A G E R L	
UniRef90_G0A4B9	G Q L T C N I N E L S	S E Q A S V A A F C N A K	G R M I S T L L V I R T Q L G F	
UniRef90_E1ZY2N2	S L T T C D L K N L K	N K G A A T L T L F T N E	K G G I L D D L I T K D D E D Y	
UniRef90_UPI0003B5FC62	T L S S Q W L R D L A	P G G S A E M M L D V N	G R I S H A P A V L D D D G E C T	
UniRef90_C0W2M7	H A L T G E I S K V G	L G R A R Y T M I V D E	E G G I I D D L I V Y H V I G E Q E	
UniRef90_H0Z470	S L V V G D I A E L K	P G G Q T L T L L T N E	R G G I M D D L I T N T S E D G H L	
UniRef90_B6JEV6	G L V T T N I E L V R	P G L G R F G A L L T P	Q G K I I A D F L V T E H G G G F	
UniRef90_UPI000468487E	H L A A C N M D K	P V G S V I Y A Q L C	N E T G G I E A D L T I T R L G D H F	
UniRef90_UPI00045EB486	K L I T A D I A K I P	A G R S M L S L V D D E	G L T D D V L V Y V D G D G K	
UniRef90_UPI00036091C2	R I Y C N A F L K L P	V G K A R Y G L M L R E	D G M I Y D D G T T S R L S E H F	
UniRef90_A3LT77	K I T P I D L S Q L P	V N S S S L S V L L N E	N G G V I D D C I I T K H G E E Y	
UniRef90_UPI0003642DCE	K L V P A S L T D L E	P G Q R Y S Q F L N E	E G G T L D D L M I S R L G H K L	
UniRef90_A3P113	R L M P V D V L G L A	E G R Q R Y G L L T N E T	G G I R D D L M F A N R G D H L	
UniRef90_UPI0004633FC6	N I V T T D L D Q L A	A G E A K P G A L L T P	Q G K V L F D F L V S R D G D T F	
UniRef90_A0A016TYW6	S L T T A D V E G L A	N S G M T S V F T N E K	G G I K D D L V T K T D D F I	
UniRef90_B8EP11	R L T P G D I A S L L	A E N G Q M R Y T Q L D	A N G H I L D D L M V T R L A N E L	
UniRef90_UPI00036C6C09	S L V P V D L Q G L A	R G R Q R Y G F L L D A	G G G I L D D L M I T H A G G E L	
UniRef90_M0MRB1	Y L C T N D M D	D V G I R Y T L M C	N E G G G V R A D I T V T R V G D R	
UniRef90_D2CKZ7	A L V P V S L L A L K	D G R Q R Y A M F T N E	D G G I R M D D L M V A N R G D H L	
UniRef90_UPI0002D9E371	L C V T R N M K K L S	V G Q V V Y T A M C Y E	H G G M V D D G T V F R L D N N F	
UniRef90_Q7TU18	K F F P T N L Y S F S	E G Q A R L Y T L M L N E	K G G I I D D L I Y D R L Q E E I	
UniRef90_A9CG88	R V Y C N A F L K L P	V G K A R Y G L M L R E	D G M I Y D D G T T S R L S E H F	
UniRef90_Q13BR3	G L V T T D L T L L K	P G L G R F G A L L T P	Q G K I V A D F L I T E D D G G F	
UniRef90_E0TI74	T L V P G E I S Q L K	R G R I R Y T V L L N E	E G G I L D D L M I T R D D G R L	
UniRef90_B5ZVY3	W I A S N D V S R L P	V G S L I Y T Q M L N D	E G G I E C D L V A R I A E D E Y	
UniRef90_T1KCG0	D L T V T D V K N L K	P N G S L S L F T N H	S G G I I D D L I T N T D S N F	
UniRef90_W0A3D9	G Q V T C D V N A L Q	P G G S T L G G H C	D P K G K L W S D F R L L C L D E S L	
UniRef90_G0LI88	M C S N D V A L P	D G D V R Y S L L L N E	E G G I I A D I T V V L G L D E S R	
UniRef90_X5PRW5	W L C A G N V D V	P V G K L V Y T H M L N E	K G G I E T D I T V N R L S Q T E	
UniRef90_UPI00047C908A	R Q L S N D I N N L P	D Q H A C S Y A T Y N T	P K G R V J A S M L A Y R Q G D E T	
UniRef90_UPI0004747950	N Q L S N D V L L A	P V G Q S R L A A F C	S A K G R M Q A N F I V M K Q A D T V	
UniRef90_U3A7N9	M L L P G D I S A L A	P G R M R Y S L L L D D	D G G I L D D L M V T H R G D S F	

UniRef90_UPI00031ABC1F
UniRef90_J2TNS8
UniRef90_F0WFH9
UniRef90_E8TD41
UniRef90_L0J5E0
UniRef90_S2XVU3
UniRef90_B3RL84
UniRef90_J5M4X2
UniRef90_K6YAH4
UniRef90_W4LH12
UniRef90_G7CGK9
UniRef90_UPI0002D86E10
UniRef90_Q9AGP1
UniRef90_B0JMM8
UniRef90_Q21IG4
UniRef90_L8JED6
UniRef90_A0A014L934
UniRef90_B3TA05
UniRef90_G7L8V3
UniRef90_P28337
UniRef90_T0K527
UniRef90_UPI0002888F3C
UniRef90_Q28L75
UniRef90_C9P1M3
UniRef90_Q1GDZ1
UniRef90_I0V309
UniRef90_UPI000366DBFC
UniRef90_U7FUE4
UniRef90_C5DP10
UniRef90_B8HYA0
UniRef90_C5CMW8
UniRef90_UPI00037692A4
UniRef90_F5T352
UniRef90_T0ZJN2
UniRef90_I0IG96
UniRef90_B7RX51
UniRef90_UPI0003673C58
UniRef90_H2Y3Q6
UniRef90_F5RCR4
UniRef90_E4WUF6
UniRef90_D0J4U6
UniRef90_M1C712
UniRef90_P57510
UniRef90_E6QKE6
UniRef90_UPI00037F793F
UniRef90_G4T403
UniRef90_I2H784
UniRef90_Q161M3
UniRef90_F6FU17
UniRef90_UPI00034C0D44
UniRef90_Q6FVZ0
UniRef90_Q5R0Z6
UniRef90_UPI00033157FA
UniRef90_A7NPT7
UniRef90_A8PP81
UniRef90_H2TCG8
UniRef90_L0K3V9
UniRef90_E7QU07
UniRef90_UPI00037CE88F
UniRef90_H8DWF0
UniRef90_G0HTI7
UniRef90_G0A4B9
UniRef90_E1ZYN2
UniRef90_UPI0003B5FC62
UniRef90_C0W2M7
UniRef90_H0Z470
UniRef90_B6JEV6
UniRef90_UPI000468487E
UniRef90_UPI00045EB486
UniRef90_UPI00036091C2
UniRef90_A3LT77
UniRef90_UPI0003642DCE
UniRef90_A3P113
UniRef90_UPI0004633FC6
UniRef90_A0A016TYW6
UniRef90_B8EP11
UniRef90_UPI00036C6C09
UniRef90_MOMRB1
UniRef90_D2CKZ7
UniRef90_UPI0002D9E371
UniRef90_Q7TU18
UniRef90_A9CG88
UniRef90_Q13BR3
UniRef90_E0TI74
UniRef90_B5ZVY3
UniRef90_T1KCG0
UniRef90_W0A3D9
UniRef90_G0LI88
UniRef90_X5PRW5
UniRef90_UPI00047C908A
UniRef90_UPI0004747950
UniRef90_U3A7N9

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

UniRef90_UPI00031ABC1F G A G A E A L K Q A G L P A P Q G P M A T A T A D G V T V I R L A D G E P R W Q
UniRef90_J2TNS8 L A G T A L T G N G L D A S P G K R T A V G E D A S A V S L Y P A D G V P R A L
UniRef90_F0WFH9 P E A V D A L R D E M F A S V D L F E E L E F M N G V I L T R C G Y T G E D G F E
UniRef90_E8TD41 P G A W A A L S R A G E J E T G S L F E H G V E P R K N W F M G Y T G E D G F E
UniRef90_L0J5E0 P R L A D L A T F G V D E L P T E N T A V A L K S G G F L R R M P A D G L E L D
UniRef90_S2XVU3 P N A P E V L V J A G L A F P Q V G K A T T V G H S Y V R H L P W P R G G R V D
UniRef90_B3RL84 P K S A V V L Q R L T N S N S Q I L P F M G Y D G C F I A R G G Y T G E D G F E
UniRef90_J5M4X2 P N A R K V L E K L T D D I A Y R E G K V A G L P S R V F R V G F L G E L G Y E
UniRef90_K6YAH4 S L F E N A L T J E L F D E L P V G D Q V V K S D A Y G L V M S V T R P E Q R Y L
UniRef90_W4LH12 P Q A R D L A Q Q V F Y L T A Q S L V I G E I P V L A V R I S Y V G E L G W E
UniRef90_G7CGK9 P R A P A L L E T V G A P P P D G A D A A P L P D G G F V R R L P G R D T E L
UniRef90_UPI0002D86E10 P N C R N V L K Q L V G D M S W K P M M V A G V E A R V F R I S F T G E L S F E
UniRef90_Q9AGP1 P R S R D V V A K L V A S G L D V S N E A F K F M E A R I S R I S F S G E L A Y E
UniRef90_B0JMM8 T E S G Q Y L Q Q I L T G V Q H S H Y L L S D P P L R V A V G T G L D L P G Y T
UniRef90_Q21IG4 T Q A N D V I P F F E N A T A E V G G S T A L E Q D G A C L A H T N S M Q E L W L
UniRef90_L8JD66 A Q A N D V I N R E L G G E G H V R P F D G G T A V K I D E Q R W L
UniRef90_A0A014L934 P Q S R E V V A H L A P D V D L S N E A F P F M P A R L C R I S F S G E L A Y E
UniRef90_B3TA05 P R S R E L L S Q L L P F L G S R E I G L G Y A T G R A T R I T Y V I G E L G W E
UniRef90_G7L8V3 P K S G Q V M E S L N P Y L T A Q S L V I G E I P T I G V G N I S E G G F S
UniRef90_P28337 P S M A Q V L Q A G L P D D S T A T T V F G V P G C R V T R C G Y T G E D G V E
UniRef90_T0K527 P E A G D A M A A L V P G M Q S G L F T W R G V P L W I S R S G Y T G E D G F E
UniRef90_UPI0002888F3C P E A R N L L A E I F K F M D W R A G K V A G V P A R V F R I S F T G E L T Y E
UniRef90_Q28L75 P K A D A A L A K L I P D M R F M D S T R M A W D G A E L W L G Y T S E D G F E
UniRef90_C9P1M3 K Q A E L R L N Q F N D C A R D D V R V L E Q G T A V K I
UniRef90_Q1GDZ1 P A A E A L L E A L V P G V A M K F M D V A T F A W I S R S G Y T G E D G Y E
UniRef90_I0V309 P E V P S L L A R F G L E L G T G P Y A V A R F E G G V A R R M P W P G P S S L
UniRef90_UPI000366DBFC P F A A G T L A K I A P E L S N D M R F M D V R T P C T I S R S G Y T G E D G F E
UniRef90_U7FUE4 D A S E A G L N G M L G L A A A L A C V T D P R A L G M R
UniRef90_C5DP10 P D A H R V L Q H V L A W D Q S L A D L Y F G Q R R S Y K R S G Y T G E D G F E
UniRef90_B8HYA0 P Q S S A L L T E L G V I E T S T Y G D H L L C E L A G M P V R V V L G S P G Y T
UniRef90_C5CMMW8 L A G T A L A A N G L D A T A L P G Q R T A I G Q D I S A V S L Y P A D G V P
UniRef90_UPI00037692A4 P R S R D V I A R L A P D L D V S Q D A F G F M P A R I C R I S F S G E L A F E
UniRef90_F5T352 P R S L E D I A K S A G L D F D L A G L P Y F K H I K T T L F G R G Y S G E R G Y E
UniRef90_T0ZJN2 Q D L E E V L K D P E L N P L P A V L G R Q D E Q S G V R R L R L S P D R L Y
UniRef90_I0IG96 P R V M E K I G G F S K E I P T L K R Y A F T T K N L M I R T G Y T G E D G V E
UniRef90_B7RX51 N E A A K D L A N A G F A L P E A K Y Q A A T G D G Y V V V Q M D D A G T Q F E
UniRef90_UPI0003673C58 P R S R A I L S G L V V S P P Q E P T R I D G V P V L V S R T G Y T G E L G Y E
UniRef90_H2Y3Q6 P K M A E V L Q T G T D T D L S K E A N L F G V D C R I T R C G Y T G E D G V E
UniRef90_F5RCR4 P V S L D V L A P H T P A N L A A L P Y F N H V I E T T L F R G G Y S G E R G Y E
UniRef90_E4WUF6 P K A E L L K Q L S F M Q G A D L T L F G T S G I R A T R C G Y T G E D G F E
UniRef90_D0J4U6 Q A A E Q L A G K N A A A W A L K Q Q G D A H V I A L Y P A A G N Q R A L
UniRef90_M1C710 P T S N K I M E A L S P Y G S H K H Y N V N G M P I K T V G V G N I T S E E G Y S
UniRef90_P57510 C N H V R S F L S S L F V K I P N Q S C P V I H E D N K T L L W Y E K P S E R F L
UniRef90_E6QKE6 P K S D T L L E S P A L P E W A A G E S M P F H A A E Q S F S V Q M R R G Y G Y S
UniRef90_UPI00037F793F P K S R A V V E K L A P E L D L S N E A F P F M P A R I C R I S F S G E L A F E
UniRef90_G4T403 P S A S H V L Q Q I A P E A C R L P C M I S R S G Y T G E D G F E
UniRef90_I2H784 P K A S Q V F E K L L K E G Q T T R R S F Q L Y D G T T I D V G Y T G E D G F E
UniRef90_Q161M3 P E S R D L R K L V W T A P H N P E F D T G T P F V V S R T G Y T G E L G Y E
UniRef90_F6FU17 E G A E G E P V I T W W D S W P R V A P G G T R Y G P A P E E H P G A D R L W R L
UniRef90_UPI00034C0D44 P R S R D V M R R L A P G M D V S Q E A F R F M D A R V L R V S F T G E L T F E
UniRef90_Q6FVZ0 P K A Q Q V L E R L V T E L Y F G E R K E F T L D D A T A T R I Y T G E D G F E
UniRef90_Q5R0Z6 S K A A S V A A E F D G R V M Q V G T S P D Q Y L
UniRef90_UPI00033157FA P T A A Q V L Q A G L A D D P F M T S A V M E V F G V S G C R V Y T G E D G V E
UniRef90_A7NPT7 P Q A A R T L A E L I G A E I H L P L H G I T P A T L A G R R K P L G S G D S F T
UniRef90_A8PP81 P T L K S L F E A Q S F K E N E I L E L N H V L S V S I P G S V P R V V
UniRef90_H2TCG8 P S M S R V L Q E G L K E D L S K A R V F G V P D C R I T R C G Y T G E D G V E
UniRef90_L0K3V9 P N A R D V L S E V E P F Y T T Q E L F V K N V P V R A L R L S Y A G E L G W E
UniRef90_E7QU07 P Y A T E K V A S V L N G A S T P D E Q L S F I R G V I R T D A P T G E E G Y E
UniRef90_UPI00037CE88F P R S R D V L K Q L C T D V D Y R E G H V A G I P A R L L R V G F V I G E L G Y E
UniRef90_H8DWF0 D N A P T V L P K E P R L Q P A A N E A G E I Q L P H A G S L H I A P K A S
UniRef90_G0HTI7 P K A T E K I A S V L E Q T G T P A P A L T F E R G V I R T D N L A G E E S Y D
UniRef90_G0A4B9 H H D P G I T L P C Q D F S C Q A N D D M L F I K M P L N R R F L
UniRef90_E1ZYN2 P T A A T V L Q S L V N F M Y S V K T E I L G S R L R L S R C G Y T G E D G F E
UniRef90_UPI0003B5FC62 A D G A E L P S W T D P W H T P E G S T R Y G P P E A E H P G Y T E W Q V R Y W
UniRef90_C0W2M7 P R A E E V L A A L R P E E P A D E D C G A D V L C G P T R T G Y T G E D G F E
UniRef90_H0Z470 P S M A R V L Q A G L S D D L A K T T V F G V P G C R V T R C G Y T G E D G V E
UniRef90_B6JEV6 D G Q P Q M T P D L A F A D P R D N E L G W R
UniRef90_UPI000468487E P K S R E V L Q S I F P F G T A Q D I T L G A A P V R A V R I G F V I G E L G W E
UniRef90_UPI00045EB486 P L A L D I L S P H T P M V L K D L P L F G H G K T T L F R G G Y S A E R G Y E
UniRef90_UPI00036091C2 P K S R T I L Q A L V D E D I C E V A F P F L G A G R L F R I S F S G E L A Y E
UniRef90_A3LT77 P K A V E I L K Q F T N E D L S K I Y A P I D A T V H L A R S G Y T G E D G F E
UniRef90_UPI0003642DCE P K A A E V L G A M N S A A K D L V F M T H T D W V H V L S R S G Y T G E D G F E
UniRef90_A3P113 P A A E A V L A S L V P A A A M R F M D V I A A D W Q G A E L W T G E D G F E
UniRef90_UPI0004633FC6 P D Q L V V L A S W Q A D S S G S E N D S T A G A G L R D L R F P A E L G V F R
UniRef90_A0A016TYW6 P E M V K V L P L T F M K T A V G K V F G I D D C R V T R C G Y T G E D G V E
UniRef90_B8EP1 P Q A A E V L E K I V P V V S R L T F M R S A E F E V D G V R G Y T G E D G F E
UniRef90_UPI00036C6C09 P A A A Q A L Q S L M P A V A V L P P S V G D A E V F V S R S G Y T G E D G F E
UniRef90_M0MRB1 P D A R K T L S K V F P F Y S S Q R T F V E N I V T A L R L S Y A G E L G W E
UniRef90_D2CKZ7 P L A E A A L N S I A P E M K S Q M D V A V I G S D F G D M W L G Y T G E D G Y E
UniRef90_UPI0002D9E371 P R S R D I L R Q I I W T R P E R A T D F H G P A V I V S R T G Y T G E L G Y E
UniRef90_Q7TU18 K N S F K L E E E W I K S S I S H I P Y F G C E Y K I F K H T G Y T G E N G L E
UniRef90_A9CG88 P K A R D L L Q R I V D D D I L S D E A F P F Q L H G R L F R I S F S G E L A Y E
UniRef90_Q13BR3 G A P A E T P E L A F A D P R H D D
UniRef90_E0TI74 P K A H E V M A S L I P Q T E E M P F M S A M D A E L D S R C G Y T G E D G F E
UniRef90_B5ZVY3 P N A R A V L E K V F P F G Q V R T I G I S G C P V R A L R I T Y V I G E L G Y E
UniRef90_T1KCG0 P S S M S C L Q S Q V D F D L S V L Y F M Y I D G C R I T R C G Y T G E D G F E
UniRef90_W0A3D9 Q G T D A W I A T Q Y G L Q E T G L V E G G M A V R V E A D R W L A S E S P L
UniRef90_G0LI88 P K S R L L L Q R V F P Y F S A Q M Y V G E V P V T A L R V S Y V G E L G W E
UniRef90_X5PRW5 P R S R E I L S Q V F P F A T S Q E I D I G Y A R V I A N R L T Y V G E L G W E
UniRef90_UPI00047C908A A D A P I V F A D A P A L V L S A A Q G Q L A L P H G G T F T L A P L A E
UniRef90_UPI0004747950 N N A M T E A G G A A P W Q T R V Q D G A H T V A L Y P A
UniRef90_U3A7N9 P E A V Q V L A R L G L E M Q A P Y L W Q G R P L G V I S R S G Y T G E D G F E

UniRef90_UPI00031ABC1F I L A A P A D R I A S L E Q S L G A T L A A A A P A F W D W L D I A S G I P R I A
UniRef90_J2TNS8 W I A P A S H A A P A L D A A L W Q W S E V R S G I V T L T
UniRef90_F0WFH9 I S I P S A H V E F T R Q R Y D R S V L E A G L G A R D S L R L L E A G L C L H G
UniRef90_E8TD41 L G L P E A D A R D L V A K G D E R A L L W I G L G A R D S L R L L E A G L C L H G
UniRef90_L0J5E0 L V V P R R D Q A A Q W R Q A R V D A G V R P A G L V W A Y E A H R V L A A L R P R L G
UniRef90_S2XVU3 V L V R R Q D Y L V G A W D A V A A G A S P V I G L M G W E A E R V L A A L R P R L G
UniRef90_B3RL84 I S V P S R D C A K A Q E F H P E V K L A G L G A R D S L R L L E A G L C L Y G
UniRef90_J5M4X2 I H V P S R F G A E L W R A I G E A G Q P F G L E A Q R L M R L L E K G H V I I G
UniRef90_K6YAH4 V L Q P N T E A K Q L N C D V A E N D K L W E I A N I K A G L G D I R
UniRef90_W4LH12 F Y T A T N E Y G L R L W D L L W E A G Q A V G A G A F E S L R L L E K G Y R L W G
UniRef90_G7CGK9 V V P R A Q V A D W L D R L T G A G V R R A G V W A Y E A L R L V A A V R P R L G
UniRef90_UPI0002D86E10 I N V N A N A G M Y V W E Q V F A A G E P Y G L T P M H I L R A E K G F I V G
UniRef90_Q9AGP1 I A I P S W H G L R V W K D V F A A G Q P Y G T E T M H V L R A E K G F I V G
UniRef90_BOJMM8 L T V A A A E A G P L W E N L I K N G T P A D E Q V W E Y L R I H Q G R P A V D
UniRef90_Q21IG4 L T V A A A E A R E N I Q Q L L E G L P V A A P H Y W T A Y N I A R N A I P R V D
UniRef90_L8JD66 T A V N P S Q A E V L A N R L A E G A E I L S D S T L W D L Y D I R N A I P R V D
UniRef90_A0A014L934 I N V S A W Y G L A V W E E V Y A V I G R P Y D T T P M H I L R A E K G Y I V G
UniRef90_B3TA05 L Y L P T E F A T A V Y D A I L D R G R H A G V H A M E S L R S E K A Y R A W G
UniRef90_G7L8V3 L M M S P A A A P S V W K A L L A Q G A V A M S N A W N K L R V I L E K G R P A P G
UniRef90_P28337 I S V P A G R A V E L A E R G C P E V W P A G L A A R D S L R L L E A G L C L Y G
UniRef90_T0K527 I S V P A D S V Q L L A D A L L C A K V K P V I G L G A R D S L R L L E A G L P L Y G
UniRef90_UPI0002888F3C I N V Q A N Y A M H V C K A Q H G T P Y G T E T M H V L R A E K G F I V G
UniRef90_Q28L75 I S I P D K R A E A F A R A A D D R V Q P I G L G A R D S L R L L E A G L P L Y G
UniRef90_C9P1M3 L L I K P D S G V E A F L K E S M P A Q R V N S E I W T R F E I Q E A L P I V T
UniRef90_Q1GDZ1 I S V A E A G A E A F A K A L L A H A D A I G L G A R D S L R L L E A G L C L Y G
UniRef90_I0V309 L T P R Q Q L G E W W T R L T D A G A R P A G S W A F D A L R L V L E S L R P K L G
UniRef90_UPI000366DBFC I S I A S E C V E S L T R A Q I S G V P A G L G A R D S L R L L E A G L C L H G
UniRef90_U7FUE4 V S G S V A D V S A M L D R G S P A D V A G A Y D L H R I L S K G V P E G L
UniRef90_C5DP10 V S I P N E D A L Q F A Q L D N E M T K P I G L A A R D S L R L L E A G L C L Y G
UniRef90_B8HYA0 L T D T A E H A G N L N D Q I A A G A S L D E T A W Q Q L R H Q G R P Q A D
UniRef90_C5CMW8 R A M W I A P A G S P A P A G P A L D A Q L W Q W S E V R S G I V T V T
UniRef90_UPI00037692A4 I N V A T W Y G L T V W E D V A E A G T P Y G T E T M H V L R A E K A F P I V G
UniRef90_F5T352 I Y C S A Q R A V Y L W D M I L E K G Q P C I P A S W D S L R V R A A L F F P
UniRef90_T0ZJN2 V I J A P P A D A Y E L S V I P D L S S Q F W E L G N V R E A G I A E V I
UniRef90_I0IG96 I M M G A N M A G M A A G E A D A D L V K P A G L G A R D T L R L L E A G M P L Y G
UniRef90_B7RX51 L I D T Q N Q S E R L N S I L G Q N L N S G K E S A Q W Q A L Q R I R A G I G R I E
UniRef90_UPI0003673C58 V W C H P Q S A T A I W D S I M E G L T P M G L T A D L Q M L R I E A G L V F A G
UniRef90_H2Y3Q6 I S V A K N R A V E L A E N I C S H V E L A G L G A R D S L R L L E A G L C L Y G
UniRef90_F5RCR4 V Y C T A A D A D V F L W D A I L E A G L P C S W T A L D L T R L V L E A G L L F F P
UniRef90_E4WUF6 L S I P A E A V E T I T K Q L I E D G A M A G L G A R D T L R L L E A G L C L Y G
UniRef90_D0J4U6 W V G P A G Q A P E G Q L L S E D L W Q W S E V L Q S G V A T L S
UniRef90_M1C712 L L M S P A A A E S V W K A I L L G H A I P M G S N A W E T L R I L E A G R P A P G
UniRef90_P57510 L V L P F L D F E L T L K R K I L N Q N I F L N N S K Q W L L D I E A Q L P V I D
UniRef90_E6QKE6 L W V E R A H L F A L W Q T R A A G A T I I G A E T I E R L R L L E A G I A T Y G
UniRef90_UPI00037F793F I N V S S W Y G L S V W E S V A E A G T P Y G T E T M H V L R A E K A F P I V G
UniRef90_G4T403 I S L P N R F A E K L A R M N F P E V E P A G L G A R D T L R L L E A G L S L Y S
UniRef90_I2H784 I S V P N D K A E N F A R L D N S E T K P I G L A A R D S L R L L E A G M C L Y G
UniRef90_Q161M3 V M C H P K D C A E I F D A I W E A G Q P M G L E A L D M V R I E A G L I F A G
UniRef90_F6FU17 V L V P R A T L A A A V A I E R E A A G W L A G T W A T E A L R V I E A W R P L A
UniRef90_UPI00034C0D44 V N V P S W Y G L A V W E A A M D A G T P Y G T E T M H V L R A E K G F I V G
UniRef90_Q6FVZ0 I S V E N G K A N E F A Q K D N E I S T K P I G L A A R D S L R L L E A G M C L Y G
UniRef90_Q5R0Z6 L L P S Q Q P I S T D Y P Q P Y W D A L E I E R V R P Q L T
UniRef90_UPI00033157FA I S V P A A K A V H L A T A L L E N V K L A G L A A R D S L R V L E A G L C L Y G
UniRef90_A7NPT7 L Y V P S D G A D A V Y A L T A G A A L D A E T L D V L R V L E Q G Y G A F G
UniRef90_A8PP81 L L A P L H F I H V R F E Q Q N I H H W L L D I L A G I P T I Y
UniRef90_H2TCG8 I S V P K S R V V E V T D K L L A H V K L A G L G S R D S L R L L E A G L C L Y G
UniRef90_L0K3V9 L Y T P S E Y G E Q L W E H L W E A G Q D H D L R P Y D S L R L L E K G F R L W G
UniRef90_E7QU07 V V C T T D E T A D L V T R G M N A P F G R V T W E S L T L L E A G T P L F E
UniRef90_UPI00037CE88F I H V P A R Y A S G L W E A L M S A G R P F G V E A Q R L L R L L E K G H V I I G
UniRef90_H8DWf0 L P A H D A A A E Q V W N A H E I A C G Y P W I S
UniRef90_G0HTI7 V V C S A D D A E A V F D T L V N N A V P F G Y R T W E T L T I L E A G T P L F D
UniRef90_G0A4B9 C I A P L N K M S T P P F S L L H S G P L A E W R F H D I S G G F P W F E
UniRef90_E1ZYN2 I S V P A K D A I N L V I E K L L E N V K L A G L G A R D S L R L L E A G L C L Y G
UniRef90_UPI0003B5FC62 I T P R D Q V A D V V A E A E S A G A R A A G V W A L E A L R V L G A W R P R L A
UniRef90_C0W2M7 L F C E A E A E D L W S V I T D H L T P C G L A A R D S L R L L E A G M P L Y G
UniRef90_H0Z470 I S V P A A R A V E L A E Q D V P D V W L A G L A A R D S L R L L E A G L C L Y G
UniRef90_B6JEV6 I L V P A E L A E K A A A A I G A T M T S E A D Y E A H R I A C G A P R G G
UniRef90_UPI000468487E L H V P T E F G A H V Y D Q L W Q A G C N V I G Y R A I D S L R L L E K G N L Y W S
UniRef90_UPI00045EB486 V F C A A K D A V F L W D K I L E V I A M P V S W D C L D I V R V I E G S L T F F S
UniRef90_UPI00036091C2 L A V P A G Y G E A V A D A L I M Q A G C P Y G V E A L G V M R I E K G H V T H S
UniRef90_A3LT77 L S I P S L T A E E L I R E Y P D V V K P I G L A A R D S L R L L E A G M C L Y G
UniRef90_UPI0003642DCE I S V K H D D V I E L T K L A H D D V Q L I G L G A R D S L R L M E A G L C L Y G
UniRef90_A3P113 I S V P V E A I T A F A E A R E E V A P I G L G A R D S L R L L E A G L C L Y G
UniRef90_UPI0004633FC6 V Y A A E A K G D A N I E A Y H Q L R L E N G V V E S G
UniRef90_A0A016TYW6 I S V L P A A K D A A T L T E K K N G T R V F K L A G L G A R D S L R L M E A G L C L Y G
UniRef90_B8EP1 I S V L P A A K A E V F A R T S D P R V F P V I G L G A R D S L R L L E A G L C L Y G
UniRef90_UPI00036C6C09 I S V A A E H A Q A L A A L L K L V A P A G L G A R D T L R L L E A G L C L Y G
UniRef90_MOMRB1 L Y T P S E Y G E R L W E H V M D A G R P Y G N G A L D S L R L L E A G F R L W G
UniRef90_D2CKZ7 V S I N D Y Q A V A F A R A L J A M V M P I G L G A R D S L R L L E A G L C L Y G
UniRef90_UPI0002D9E371 V F C H P N D A K A V F E A I W E A G Q P Y G L A A L D M V R I E A G L V F A G
UniRef90_Q7TU18 I L L S A K A G I N L W D L V S K N I K P C G L G A R D T L R L L E A G M H L Y G
UniRef90_A9CG88 L A V P A G Y G E S V A D A L M E A G M P Y G V E A L G V L R I E A G M H V T H N
UniRef90_Q13BR3 I T T P E L L A Q K T A A A I G A E L V D V A A Y E A H R I A C G A P A G G
UniRef90_E0T174 L S V P A D Q A R S V A E R D H E A V E P I G L G A R D S L R L L E A G L C L Y G
UniRef90_B5ZVY3 L H V P I E Y A T T V Y D L L M A S G V N A G Y R A I E S C R L E K G Y R A W G
UniRef90_T1KCG0 L S I P N E S V I E T L D A S D G T I K L A G L G A R D T L R L L E A G L C L Y G
UniRef90_W0A3D9 T L D L P A G N E A L W W G L D I K A G L P H L E
UniRef90_G0L188 L W A P V E Y A E R L W E T L W E A G Q P M G A G A L E S M R L E K G Y A R L W G
UniRef90_X5PRW5 L H I P T E M A Q H V F D V V W E A G Q A Y G L H A L E H L R S E R A Y R E Y Q
UniRef90_UPI00047C908A L P P Y D A A A E A V W N T H E I R C G Y P W I A
UniRef90_UPI0004747950 V L S D A P I P R A L W I A P A G H T L P A P T E V W Q W A E V M S G V T L V S
UniRef90_U3A7N9 I S V R A T D I V A L A D A L C A D V M P V I G L G A R D S L R L L E A G L P L Y G

UniRef90_UPI00031ABC1F A A T Q E Q F V P Q M I N F E L I G G V N F R K K G C Y P G G Q E V V A R S Q Y R G 210 220 230 240
UniRef90_J2TNS8 T P I V D A F V P Q M I N Y E S V G G V N F R K K G C Y P G G Q E V V A R S Q F R G
UniRef90_F0WFH9 Q D I T P E T T D P I E A A T L A W A T I A K R R R A E G G T F P G G H A L I
UniRef90_E8TD41 Q D I L T P E T T D P A S A A L M W A I P K K D I R A G E G T F I G A D A L R A A V E R G
UniRef90_L0J5E0 V D T D E R T I P H E V G W I G T A V H L D K G C Y R G Q E T V A R V H N L G G
UniRef90_S2XVU3 I D V D E K M L P H E A P R W L T A A V H L D K G C Y R G Q E T V S R V H N L G G
UniRef90_B3RL84 N D I D E E T T P I E A G L A W T V G K R R R N T G N F P G S D T I I K Q L Q E G
UniRef90_J5M4X2 Q D T D G M T T P E E L D M N W A V A N S K P F F I G K R S L E R S K T L G
UniRef90_K6YAH4 E A T H N E Y T P Q M L N Q A L Q A V D F E K G C Y M G R S V V A R T K Y L G
UniRef90_W4LH12 N D I H T E Y T P Y E A G L A F A V R L R K G D F L G R S A L
UniRef90_G7CGK9 V D T D E R T I P H E V G W I G A A V H L D K G C Y R G Q E T V A R V H N L G
UniRef90_UPI0002D86E10 Q D S D G S V T P Q D L N M G W I T G K Q K T Y S F I G R R S W A R
UniRef90_Q9AGP1 Q D T D G T V T P Q D A G M E W V V S K L K D F V G K R R S F A R A D N L
UniRef90_B0JMM8 R E L T E D Y N P L E A G L W R A I V F D K G C Y I G Q E T I A R L N Y K G
UniRef90_Q21IG4 A D S T E Q F I P Q E I N L Q L L G G V S F N K G C Y T G Q E T V A R M H Y K A
UniRef90_L8JD66 A A T E L E F I P Q A L N L Q A V D G I S F T K G C Y T G Q E T V A R A K Y R G
UniRef90_A0A014L934 Q D T D G T V T P Q D A G M S W V V S K Q K D F I G K R S Y S R
UniRef90_B3TA05 H D L T D Q D T P I E A G L G F A V A L D K E T P F I G R D A L L R Q R E A G
UniRef90_G7L8V3 M E L T N E F N V M E A C L W N S L S N K G C Y K G E T I A R L T Y D G
UniRef90_P28337 N D I D E S T T P V I E A G L L W T L G K R R R T A D F P G A A I M E Q
UniRef90_T0K527 H D L D S R V S T I G A D L G F I Q K R R R E E Y G G F I G H A R L L K E L A D G
UniRef90_UPI0002888F3C Q D T D G S V T P E D L G M Q W C V G Y D K P Y S W I G K R A L T R S D T R
UniRef90_Q28L75 Q D M T P S I S P V I E A G Q A W A I G K V R R A G G F P G A E V L L D Q L A N G
UniRef90_C9P1M3 Q D Q Q N E H L P Q A L N L Q A L G G I S F N K G C Y T G Q E T V A R A K Y R G
UniRef90_Q1GDZ1 H D I D T E T R P F E A A L G W I Q K V R R R A G G G F P G A D A I
UniRef90_I0V309 V D T D E R T I P H E V N W I G S A A H V A K G C Y R G Q E T V A K V H N V G
UniRef90_UPI000366DBFC N D I G P E I S P V I E A N L T A W
UniRef90_U7FUE4 K D Y Y S D I F P H D A D L Q L G G V S F S K G C Y V G Q E V V S R M Q H R G
UniRef90_C5DPI0 H E L D E S I T P V I E A A L S W T S K S R R
UniRef90_B8HYA0 A E L T E D Y N P L E A G L W H T I S F N K G C Y I G Q E T I A R S L N Y Q G
UniRef90_C5CMW8 T P V V E A F V P Q M I N Y E S V G G V N F R K K G C Y P G G Q E T I A R S Q F R G
UniRef90_UPI00037692A4 Q D T D G T V T P Q D L G M S W V V A G G G R P G G E F I G K R S Y A R T S H T
UniRef90_F5T352 F D M P E G D T P W V N M D W C V D E D K G D Y I G K E A V L K H K G R
UniRef90_T0ZJN2 P L T T D R Y T P Q W L N W D R I G G I S F R K G C Y T G Q E T V A R T H Y L G
UniRef90_I0IG96 H E L S E E T D P L S A G L G F G V S L D K D Q F I G Q D S L E Q I H Q D G
UniRef90_B7RX51 Q A N I D E E L P Q M L N Y D V T G H V S F T K G C Y T G Q E T V A R L H Y R G
UniRef90_UPI0003673C58 Y D F C D Q T D P F E A G I G F T V V P K D K P D V I G S E A V A R
UniRef90_H2Y3Q6 N D I D E M T T P V I E A G L T W C I G K R R R K E N F P G A E T V A Q I K S K
UniRef90_F5RCR4 F E M P E G D T P W V N M D W A V D L D K K G D Y I G K A A V L A L K G R
UniRef90_E4WUF6 N D I D E T T L P P S A V L L F T V P K S R R Q G N F P G A E I V K Q Q K T K
UniRef90_D0J4U6 A P V V D A F V P Q M L N Y E S L G G V N F R K K G C Y P G G Q E V V A R S Q F R G
UniRef90_M1C712 K E L T D E F N V L E A N L W N A V S L N K G C Y K G Q E T I S R L
UniRef90_P57510 K I C S G F T P Q A I N L H N L K A I S F K K G C Y I G Q E T I A R I F F K
UniRef90_E6QKE6 V D F T S H E L P Q E T A Q T H A I H F A K G C Y I G Q E T V E R I R S R G
UniRef90_UPI00037F793F Q D T D G T V T P Q D L G M E W V V S K T K D F I G R R S Y D R
UniRef90_G4T403 H E L D E K T T P I E A G L S W L V L K N T H Q S Y P G A G T L N Q M Q N G
UniRef90_I2H784 H E L D E T I T P V I E S G L N W L I S K S R R K G K F N G
UniRef90_Q161M3 Y D F S D Q T D P F E A G L G F T V P L K S K T D D D F Q R D A L T R R K E
UniRef90_F6FU17 L D V D H R S I P H E L D W L R T A V H L H K G C Y R G Q E T V A R V H N L G
UniRef90_UPI00034C0D44 H E T D G S V T P L D L G M D W A L S R T K D F V G K R S L R R
UniRef90_Q6FVZ0 H E L T E S I T P V I E A G L A W V L S K S R R
UniRef90_Q5R0Z6 S E N I Q A F V P Q M M L Q V W D G I S F D K G C Y I G Q E T I A R M K Y L G
UniRef90_UPI00033157FA S D I D E H T T P V I E G S L G W T L G K R R R A A D F P G A R V I
UniRef90_A7NPT7 R E L S Q E Y T P L E T G L L D A V S F T K G C Y I G Q E I I A R M E S R G
UniRef90_A8PP81 P E T S G Q F T P H Q L N L P E L G A V C H H K G C Y I G Q E I I A R T H Y L G
UniRef90_H2TCG8 N D I D E T T T P V I E A T L V W T I G K R R R Q K D F P G A D I V
UniRef90_L0K3V9 Q D L H T E H N P Y E A G L S F A V D L E T D F I G K E A V
UniRef90_E7QU07 Y E L R G E I P N V L G L R N A L D D F E K G C Y V G Q E V V S R V E N R G
UniRef90_UPI00037CE88F Q D T D G M S H P A E I D M G W A V N R Q K T P F V G L R A I
UniRef90_H8DWF0 A A T S E T C V A Q M L N H K I L G G V H F R K G C Y P G Q E T I A R A Q Y R G
UniRef90_G0HTI7 T E I E G A L P N D L G L R N A L D F E K G C Y I G Q E V V S R I E N R G
UniRef90_G0A4B9 V S Q S E Q Y I P Q M L N I D Q L G G V S F N K G C Y T G Q E I V A R T H Y L G
UniRef90_E1ZYN2 N D I D E N T T P I E A A L T W L V A K R R R E A N F P G Q Q L S Q I K T G
UniRef90_UPI0003B5FC62 R D V D E R A T P H E L D W L R T G V H L H K G C Y R G Q E S V A R V F N L G
UniRef90_C0W2M7 H E L T E E I T P F D A S L G A V V K L A K S E F V G R Q A L A R A E R E G
UniRef90_H0Z470 N D I D E T A T P A E A G L M W T L G N R R R V D D F P G A A V
UniRef90_B6JEV6 V D F Y N E T V P H D A N M D R L H G V D F D K G C Y I G Q E V V S R M Q H R G
UniRef90_UPI000468487E G D I S P D Y T P I E A G L G F R V H L K S G D F I G R E V L A Q Q K Q D G
UniRef90_UPI00045EB486 P F D M P H K D T T P F E V L M D W S V D L S K P D F R G K A A L E R T H Q A G
UniRef90_UPI00036091C2 E I N G T V T P A D L G F A K M V S T T K P D I G K A M L S R
UniRef90_A3LT77 H E L T E E I T P I Q A S L T W I P K T R R D Q G G F N G
UniRef90_UPI0003642DCE H E L D P S V S P I E A G L I W S I Q K H R R S A D Y L G A A R V A
UniRef90_A3P113 H D I D T T S P V I E A G L A W
UniRef90_UPI0004633FC6 S D Y Q G D A F P H D I L L D L S G G V G V R K G C Y V G Q E V V S R M Q H R G
UniRef90_A0A016TYW6 N D I D E N T T P A E A A L A F V V A K R R R E T G F P G A E V V E Q L K S K
UniRef90_B8EP1 H D I D G A T D P V I E A G L W S I L K R R R E T G G F P G F A R L A Q V M A R G
UniRef90_UPI00036C6C09 H D M D T T T P V I Q A R L Q W I Q K V R R R A G G F P G A E V V L A Q
UniRef90_MOMRB1 E D L H T E H D P Y E A G L G F A V D L D T D F I G K E A V E
UniRef90_D2CKZ7 N D I D A T T S P V I E G A I E W L Q K V R R N A G G F P G
UniRef90_UPI0002D9E371 Y E F T D Q T N P F E A G I G F T V P L K S K E D D F I G R T V L
UniRef90_Q7TU18 Q D L N E T T T P Y E A G L G W L H L E N N H D F F G R E F L E K Q
UniRef90_A9CG88 E I N G T V V P A D L G F G K M V S T T K A D F I G R R M L E R
UniRef90_Q13BR3 V D F Y G D A F P H E S N M D R L H G V D F G K G C Y I G Q E V V S R M H H R G
UniRef90_E0TI74 H D M N E T I S P V I A S L S F A L G K R R R E G G F P G A E R V
UniRef90_B5ZVY3 S D I G P H T P V I E A G L W A V K R R K S P F R G R E A I E R Q L K E G
UniRef90_T1KCG0 N D I D E A T T P I E A G L A W T I S K T R R E T D F P G A D I M K Q
UniRef90_W0A3D9 A V H Q G E Y P Q M L N L Q A L D G I S F T K G C Y M G Q E L V A R A K Y R G
UniRef90_G0LI88 T D I D T G A T P D A A N L S F A V D L E T D F V G K E G V A Q A H R A E G
UniRef90_X5PRW5 L D L T P V D T L L E A G L G F T V D W N K G G F I G K D A L A S Q K N A G
UniRef90_UPI00047C908A Q A A T E S C V A Q M L N Q H T I G G V H F R K G C Y P G Q E T I A R A Q Y R G
UniRef90_UPI0004747950 Q A V F E A F V P Q M L N Y E S V G G V N F R K K G C Y P G Q E V V A R S Q F R G
UniRef90_U3A7N9 H D L T P E T G P V I E A G L A F A I S K A R R E G G F P G A E S I L A A L A A G

UniRef90_UPI00031ABC1F	T
UniRef90_J2TNS8	T
UniRef90_F0WFH9	
UniRef90_E8TD41	
UniRef90_L0J5E0	
UniRef90_S2XVU3	
UniRef90_B3RL84	
UniRef90_J5M4X2	
UniRef90_K6YAH4	
UniRef90_W4LH12	
UniRef90_G7CGK9	
UniRef90_UPI0002D86E10	
UniRef90_Q9AGP1	
UniRef90_BOJMM8	<input checked="" type="checkbox"/>
UniRef90_Q21IG4	T
UniRef90_L8JD66	
UniRef90_A0A014L934	
UniRef90_B3TA05	
UniRef90_G7L8V3	<input checked="" type="checkbox"/>
UniRef90_P28337	
UniRef90_T0K527	
UniRef90_UPI0002888F3C	
UniRef90_Q28L75	A
UniRef90_C9P1M3	
UniRef90_Q1GDZ1	
UniRef90_I0V309	
UniRef90_UPI000366DBFC	
UniRef90_U7FUE4	S
UniRef90_C5DP10	
UniRef90_B8HYA0	<input checked="" type="checkbox"/>
UniRef90_C5CMW8	T
UniRef90_UPI00037692A4	
UniRef90_F5T352	
UniRef90_T0ZJN2	
UniRef90_I0IG96	
UniRef90_B7RX51	
UniRef90_UPI0003673C58	
UniRef90_H2Y3Q6	
UniRef90_F5RRCR4	
UniRef90_E4WUF6	
UniRef90_D0J4U6	T
UniRef90_M1C712	
UniRef90_P57510	
UniRef90_E6QKE6	
UniRef90_UPI00037F793F	
UniRef90_G4T403	T
UniRef90_I2H784	
UniRef90_Q161M3	
UniRef90_F6FU17	
UniRef90_UPI00034C0D44	
UniRef90_Q6FVZ0	
UniRef90_Q5R0Z6	
UniRef90_UPI00033157FA	
UniRef90_A7NPT7	
UniRef90_A8PP81	
UniRef90_H2TCG8	
UniRef90_L0K3V9	
UniRef90_E7QU07	
UniRef90_UPI00037CE88F	
UniRef90_H8DWF0	
UniRef90_G0HTI7	
UniRef90_G0A4B9	
UniRef90_E1ZYN2	<input checked="" type="checkbox"/>
UniRef90_UPI0003B5FC62	
UniRef90_C0W2M7	
UniRef90_H0Z470	
UniRef90_B6JEV6	T
UniRef90_UPI000468487E	
UniRef90_UPI00045EB486	
UniRef90_UPI00036091C2	
UniRef90_A3LT77	
UniRef90_UPI0003642DCE	
UniRef90_A3P113	
UniRef90_UPI0004633FC6	T
UniRef90_A0A016TYW6	
UniRef90_B8EP11	
UniRef90_UPI00036C6C09	
UniRef90_M0MRB1	
UniRef90_D2CKZ7	
UniRef90_UPI0002D9E371	
UniRef90_Q7TU18	
UniRef90_A9CG88	
UniRef90_Q13BR3	T
UniRef90_E0TI74	
UniRef90_B5ZVY3	<input checked="" type="checkbox"/>
UniRef90_T1KCG0	
UniRef90_W0A3D9	A
UniRef90_G0LI88	
UniRef90_X5PRW5	
UniRef90_UPI00047C908A	
UniRef90_UPI0004747950	T
UniRef90_U3A7N9	

UniRef90_B4X3R5
UniRef90_G8Y5R0
UniRef90_UPI00037F8EAC
UniRef90_UPI00042B06AD
UniRef90_UPI00026CA602
UniRef90_W9DW21
UniRef90_T1PFT7
UniRef90_C6XAC2
UniRef90_G0V801
UniRef90_U1LQ76
UniRef90_L8EST5
UniRef90_UPI00038012DF
UniRef90_UPI00037B7758
UniRef90_UPI0003F49962
UniRef90_E8WQ62
UniRef90_G1KFU2
UniRef90_H8GBF0
UniRef90_K2AUP6
UniRef90_UPI0002630B3E
UniRef90_I0HIQ5
UniRef90_UPI00030F1B20
UniRef90_B8D2P4
UniRef90_T1G4I2
UniRef90_D7R616
UniRef90_UPI00022C93A0
UniRef90_E2BQ75
UniRef90_M5EX82
UniRef90_F3IYP1
UniRef90_H0JH02
UniRef90_I5C354
UniRef90_M7BHW2
UniRef90_W0IAV3
UniRef90_X6CP69
UniRef90_J7S1P4
UniRef90_UPI0003B625E5
UniRef90_V9DKS7
UniRef90_UPI000478CC31
UniRef90_UPI00035EBCF6
UniRef90_C5C232
UniRef90_B3PJA4
UniRef90_L0IY56
UniRef90_UPI00047E2D4D
UniRef90_M3ZUD0
UniRef90_UPI00034AF70C
UniRef90_B7VK90
UniRef90_A6GP66
UniRef90_G7Z208
UniRef90_UPI00030DC8C2
UniRef90_N6U562
UniRef90_H2K700
UniRef90_A3WEE3
UniRef90_L1IY04
UniRef90_C7MUC8
UniRef90_A3SR02
UniRef90_I0RI64
UniRef90_UPI0004652A9D
UniRef90_A0A059DZQ4
UniRef90_F7SR25
UniRef90_B9R3N5
UniRef90_B0UWM0
UniRef90_D9VQ89
UniRef90_X1XIN3
UniRef90_UPI000255814A
UniRef90_B3RBH6
UniRef90_V4TEA1
UniRef90_K2HE54
UniRef90_UPI00036365F6
UniRef90_B1ZK03
UniRef90_D9UJ83
UniRef90_UPI0003496BB4
UniRef90_F6R228
UniRef90_UPI0004711D71
UniRef90_UPI000475ED4C
UniRef90_UPI00047D9512
UniRef90_UPI00031560FD
UniRef90_V5JAK4
UniRef90_F9X795
UniRef90_A7S2C9
UniRef90_R4LE30
UniRef90_A4EQX6
UniRef90_X1Y9C9
UniRef90_Q07IC0
UniRef90_A5E5B2
UniRef90_UPI00036527F3
UniRef90_A1APD2
UniRef90_G0LMR9
UniRef90_L9L1T2
UniRef90_K7LB48
UniRef90_K5BZY2
UniRef90_W5Y571
UniRef90_UPI0004419411
UniRef90_E2Q3U9

1 10 20 30 40
F I A A Q P L A D H A E A S T A P A L S H C D H L A V I R A Y G E E A G H Y L Q
H N W V R N K A G V F D V S H M L Q H N F R G K E A S D L L Q
E H L H V R S Y A G I F D C S H M G E F L T H G D D K I Q H F S
V M D L S H F G R I R V S G D G H D R I Q F L L H
A A L R E A R A V R T A A G I V D V S T L A K F A V V G P D A A A F L L E
A S K R E A K N V R T N V G V C D V T T L G K I D V K G P D S A E L L N E
H L H T R K F A S I L F D V S H M L Q T Y V R G K D A A V E C M E
E E A L A V R K A A G M I D V G T L G K L E V R G P D A A E F L E
E S H N W T R N N A G L F D V S H M L Q S K L V G P G S V S F L L N
L A E H Q A V R E R A G L F D L S H M A E L R V S G P D A G A F L L D
R E Q R A L A D G R G F V D L S H R G V I T V S G P E R L S W L H
P V Q P A G A A P T C A G L L D A F R I V S A A G E D A M A F L L H
A V I S L Q D R G I V Q I A G A D A T K F L L H
H N H V R T S A G L F D V S H M L Q H R F S G D P T S Q S F L L
E H R W C R E K A A L F D I C H M G E F L F K G D P E A T F L L Q
T C F P L E H R A L L R L R G P D A A T F L L Q
P V S E Y W A L L E G V T L W D V G V E R Q L E I T G P D A F E F T N
R R E H F A C R E A A V L I D Q S S F A K F T L K G P D A A K A L L N E
E H L W T R E H A G L F D V S H M G Q L L F S G V A D A G L E
P M R E Q R L L E T S V G L V D R S N R D V I A V P G E E R S S W L H
A V E A E M V A V R N H V G V F D G S S L G K I E V T G P D A G L F L S
E E H M A V R T S V G L F D V S H M G R L L L K G S D A G L P F A Q
E S H L Y T R E K A S M F D V S H M L Q T K V S G K D R I E F F E
R E E A R R V R T A V A L I D V G T L G K L E I R G P Q A G E F L L N
H Q H T R T F A S L F D V G H M M Q T V F G K D A T E L L E
D E H R H V R E N V G I F D Q S S F A K Y E M S G V D A Q K A L L D R
E E H H Q V R R D G G V F D V S H M N V I D V L G V Q A R V W R
F C R L T H E G V L A I R G V D A T K F L L Q
A Y I R E A A A V R R S V G I V D V S T L G K L A V K G P D A A T F L L D
L S H L E S H L H T R R H C S L F D V S H M L Q T K V F G R D R V K F M E
L K D R S L L F V S G A E A Q S F L L Q
L K D R A L L S V S G A E A H L L D D
E S H R W V R Q H A G L F D V S H M L Q S K V T G T G A V K L L D D
E A R H M R E K A G L I D L T S F S K F E V S G P G A E A Y L D D
Y P D L S H K E S H L W T R Q H A S L F D V S H M V Q H K L S G E L A E F L M Q
F F P A E P T R F A L T K I A I T R I A G Q D R V K Y L Q
E A Q A T R E T V A M Y D M T A L K R L E V S G P G A A A F L L Q
P Y A E Q R A L A A G R A V F D L S H L G V V T V A G V D R L T W L D D
V C H L P N T G L L L V E G P D A A K F L L Q
E A W R T R T S V A M Y D M T P L K R L E I T G P G A L P L L Q
R E E C Q S V R N N V G F F D Q S V L A K F M V T G K D A T E F L L Q
V C Y Q L P H R T L L K I Q G P D T S P F L Q
P A Q E G R A L E D A A G W I D R G N R G V V R V T G P D R L S W L H
N T F Q P L A H T Q N E S L P L M M T H V S D W S A I T M I Q G D D K K S Y L Q
L S R W G V I G V D G D D A V T F L L Q
M S A G Y A V L D R R S V V A V T G E D R K A F L L Q
E A K L T R E R V A L Y D M T P L R R L E V T G P G S L P F L L Q
R E V L N I R K N A G I C D V S T L G K I E V F G K D A T F L L D D
K V A L Y D M T P L R R L E V T G P G A L A F L L D E
E H E W T R N S A S L F D V S H M G Q L A K S P Q A A R E L E
F P R R H L H Y S S E C S S I T H L V K N R A V I E V A G E D C V A F L L Q
E A W K T R T A V A L Y D M T P L K R L E V S G P G A L G L L L Q
E H R A A R E A A V L F D Q S S F A K F A L K G P D A A V E A L N
P L G E Q R A A D A A V V I D R S H R A V I A L R G A D R R T W L H
P N Q E Q R A L A A G T A W A D L S H R G V V S V S G P D R L S W L H
P M G V K D E H L W T R S E A G L F D V S H M G P C F L S G D E A A A L I E
P E Q N F W N L V N D A L C D V A A E R Q V E I T G P D A A A F V Q
K E M K A V R N T A G I M D I S A F T K I E V S G P E A E T Y L D Q
L I N L K Q Y G L I V V E G V D A E K F L L Q
E Q R A L A D G R G F V D L S H R G V V T V T G A D R L S W L H
T T F K P K L E L L S H R R L L R L S G A D T A E F L L Q
S H R R L L R L S G A D T A E F L L Q
E H R A C R E G V A L F D M S S F S K Y L V K G A D A E A V L L Q
E S E Y F A I R N Q A T L Y D I S P I Y K Y R I S G P E A E R V V N
H L R I V T L R G P D A V T F L L Q
E E H K A T R E A V T V F D Q S S F A K F K L I G P D A E K A L S
L P D R A V V A V S G P D A T A F L L Q
R E Q R A L A D G R G F V D L S H R G V L T V E S G P E R L A W L H
E A L V A R K R V A M F D M T P L K R I E V S G P E A L N F L L Q
R A L L S V R G A E A A V L L Q
L S G L S I V E V A G K D A E R F L L Q
P F A E Q R A A A R K V A V V D R S H R E L I E V A P G A E R L S W L H
R E A R H V R R A V G I A D V S T L G K I E V A G P D A A A F L L D
S E L A E H R A V R E S A G I F D L S H M G E V R V T G A D A A A F L L D
E Y A V R S G S A L F D I S P L R K Y E I T G P D A A A L V D
Y S P I A A A E A W K T R T A V A M Y D M S P L R R I E V S G P G A V Q L L N
L D K R C I L R V S G P D S V K F L L Q
E A A A T R E R V A M Y D M T P L M R L E V L G P V S F L L Q
R A E V M A A H E A A A I F D A S S F G K I E V Q G P D A E A F L L
P L S D R A L V R H G E E D S V S F L L Q
L A D R G V I K I S G E E A R H F L L Q
E S H K W V R S N V G L F D V S H M L Q H N I S G S E S K L F L L Q
P V A E Y W T L N D V T I W D V G V E R Q L E I S G P D A L A F L L N
E H G W C R Q R A L F D L C H M G E F L F E G D L N A H G L E
P D R T A L A V R K G A G V I E R G Y G V I T V E G D D R I E F V D
R V R G P D A A P F L L
C R E N G S L F D V S H M C G L S L K G K D S V P F L L
L A D R R L I R V S G T G A E E F L L N
R E V R T V R T A V G F C D V T T L G K I D I Q G P D A T F L L Q
C F P L S H R A L L R I Q G P E T A T L P F L L Q
E A R A T R E R V A L H D M T P L R R L E V T G P G A L A F L L Q

UniRef90_B4X3R5
UniRef90_G8Y5R0
UniRef90_UPI00037F8EAC
UniRef90_UPI00042B06AD
UniRef90_UPI00026CA602
UniRef90_W9DW21
UniRef90_T1PFT7
UniRef90_C6XAC2
UniRef90_G0V801
UniRef90_U1LQ76
UniRef90_L8EST5
UniRef90_UPI00038012DF
UniRef90_UPI00037B7758
UniRef90_UPI0003F49962
UniRef90_E8WQ62
UniRef90_G1KFU2
UniRef90_H8GBF0
UniRef90_K2AUP6
UniRef90_UPI0002630B3E
UniRef90_I0HIQ5
UniRef90_UPI00030F1B20
UniRef90_B8D2P4
UniRef90_T1G4I2
UniRef90_D7R616
UniRef90_UPI00022C93A0
UniRef90_E2BQ75
UniRef90_M5EX82
UniRef90_F3IYP1
UniRef90_H0JH02
UniRef90_I5C354
UniRef90_M7BHW2
UniRef90_W0IAV3
UniRef90_X6CP69
UniRef90_J7S1P4
UniRef90_UPI0003B625E5
UniRef90_V9DKS7
UniRef90_UPI000478CC31
UniRef90_UPI00035EBCF6
UniRef90_C5C232
UniRef90_B3PJA4
UniRef90_L0IY56
UniRef90_UPI00047E2D4D
UniRef90_M3ZUD0
UniRef90_UPI00034AF70C
UniRef90_B7VK90
UniRef90_A6GP66
UniRef90_G7Z208
UniRef90_UPI00030DC8C2
UniRef90_N6U562
UniRef90_H2K700
UniRef90_A3WEE3
UniRef90_L1IY04
UniRef90_C7MUC8
UniRef90_A3SR02
UniRef90_I0RI64
UniRef90_UPI0004652A9D
UniRef90_A0A059DZQ4
UniRef90_F7SR25
UniRef90_B9R3N5
UniRef90_B0UWM0
UniRef90_D9VQ89
UniRef90_X1XIN3
UniRef90_UPI000255814A
UniRef90_B3RBH6
UniRef90_V4TEA1
UniRef90_K2HE54
UniRef90_UPI00036365F6
UniRef90_B1ZK03
UniRef90_D9UJ83
UniRef90_UPI0003496BB4
UniRef90_F6R228
UniRef90_UPI0004711D71
UniRef90_UPI000475ED4C
UniRef90_UPI00047D9512
UniRef90_UPI00031560FD
UniRef90_V5JAK4
UniRef90_F9X795
UniRef90_A7S2C9
UniRef90_R4LE30
UniRef90_A4EQX6
UniRef90_X1Y9C9
UniRef90_Q07IC0
UniRef90_A5E5B2
UniRef90_UPI00036527F3
UniRef90_A1APD2
UniRef90_G0LMR9
UniRef90_L9L1T2
UniRef90_K7LB48
UniRef90_K5BZY2
UniRef90_W5Y571
UniRef90_UPI0004419411
UniRef90_E2Q3U9

UniRef90_B4X3R5 L M L C P A G Q S E A V I K S L M K Y R L R A K V E F Q V D E Q A V L M G L S Q G G
UniRef90_G8Y5R0 Y M V T N A N A G C R E K D V A F I K R E L E A F D A Q H E T F E G T L L A L L Q G G
UniRef90_UPI00037F8EAC L F L V V T N A N A G P R E E V L S S L L C N S D V Q A E D T T Q Q T C L F A L L Q G G
UniRef90_UPI00042B06AD Y L V V S P E T R G N I T E E V L N K Y V F F A D E I Q Q D I T T K Q T C L F A L L Q G G
UniRef90_UPI00026CA602 Y L L T S S T G G A D R M E A H L S Y A H R R V S V V A Q Q E H F A G I A L A L A G G
UniRef90_W9DW21 Y M T T T T A Q A A N Q S H L E A Y Y L Q L V W P E L N V T S A D Q W A G A A I V A Q G G
UniRef90_T1PFT7 Y V V S N A A M K T Q D M A L M E A Y V N T F K I E F M T S A D Q W S L I A I V A Q G G
UniRef90_C6XAC2 F Y I T N A N A A V Y R E M Q R W L Q I W Q L D V G L V N V T G A Y G G I N L A L A G G
UniRef90_G0V801 T M V T N A N A G R V K E D F L K S E L K L C H F D C N W E S V N D E R A L L A L A L Q G G
UniRef90_U1LQ76 L V V A N A S N R K A A L D A L D A L S A R V A G F D A S V V D E T Q T G L V A V Q G G
UniRef90_L8EST5 W L H T E P G D E E P L L A Y L E S A R M K F F Y R V E I S L S T T L N A F A G V L Q A
UniRef90_UPI00038012DF H A L V R A D D L A Q A L V K R L S M F V L R A K A K L S L S T T F L N A F A G V L Q A
UniRef90_UPI00037B7758 L L D C P S S L E P D L L R R L G M Y K L R A S V V T S K S D E F A A F A V L Q G G
UniRef90_UPI0003F49962 Y V V T N A G R S T E D L S K W N A E H P T D V V K W E V L E G W G L L A L L Q G G
UniRef90_E8WQ62 M I V V N A S A A T T G N D F S V T R S R L K N P D A L S D I S D R T G K L D L Q G G
UniRef90_G1KFU2 L L E C D A A A A L D P L Q K H L K L Y K I R R K V D I T S C L D L C W A V L Q G G
UniRef90_H8GBF0 F W L S L A D S D V G L W A W G L A H A G G W D V T I R E A D V A P L Q V L Q G G
UniRef90_K2AUP6 Y L V T G T G F A T H D F D W I S R N L R L T G N C Q L V D V T S G S A V L L A L Q G G
UniRef90_UPI0002630B3E Y M V V N G A T K W D L R G V F R E F L P D E V T I N H L L E D Q A L L A L L Q G G
UniRef90_I0HIQ5 W L D T E P G A G A G L L R Y L E M M R F F T K V E P R D S G E L A V L S L V G G
UniRef90_UPI00030F1B20 F L A P T S G N A E A V A G W F E Q W R Q T E W P T M T V T A N W A S I A I A G G
UniRef90_B8D2P4 L L V T N A L A R E S M L N Y F E K V K K G F R V E I D L T F A N Y S M I A L Q G G
UniRef90_T1G4I2 Y V V S N A G C S E K D H K H C A K F A A K G K E V K V E T I E N S L V A V L Q G G
UniRef90_D7R616 Y F T T T S S G A A T V Y R E L S R L N I E W K L D C N L D T G S Y S A M N L A G G
UniRef90_UPI00022C93A0 F L V S N A A R R N Q D S Q L L L Q Q E N F K L R F L D P L E Q S L V A L L Q G G
UniRef90_E2BQ75 Y F V V S N A A R Q L L L E R Q E D F K R T G K N V R I D F L D Q G L V A L L Q G G
UniRef90_M5EX82 Y I V T G T G F T H D F S W I G D H K D L D V T L T D V E N F G T L S L M G G
UniRef90_F3IYP1 R L V V N A G A R G V K D L A W M Q A Q L D D F D V Q L D V E R S E M A M L A I Q G G
UniRef90_H0JH02 L L A M A A E L V E P L L T D L K K Y A V F S K V L T D E S A Q W Q R L G L A G G
UniRef90_I5C354 L M T T T T A N A G A G V M Q H L E Y Y C L D V L G W P D T S V T D Q W A G A A I A G G
UniRef90_M7BHW2 Y V V S N A G C R D K D W R A E E L R A A G G D V H L E V S E N A L A L A L Q G G
UniRef90_W0IAV3 T I E T D A G Q R D G L L K R L T M Y K L R A A V T L V P S T E E G V T A S W G G
UniRef90_X6CP69 R L E C R A D S S D D F M R R L T L Y K L R A K V E I A K S D Q A L V L A V A W G G
UniRef90_J7S1P4 Y M V T N A S R A K E D S F I R N E L N E A R I Q W E S I E G T A L I A L Q G G
UniRef90_UPI0003B625E5 F Y L I S S G S A E R F D W D F L F K N L P D D R L D N I T G S R G V F V L L S G G
UniRef90_V9DKS7 Y F V T T N A D C R E K D L K F L D K E Q A S K E K I N W H V L D H H A L L A L Q G G
UniRef90_UPI000478CC31 L M L T T P S V L E R Q L P E L K E A V F S K V E I A A D E R H A T G I A G G
UniRef90_UPI00035EBCF6 F Q V G A N G N L D L H W L T R H L P A D G T V Q V R D I T P G T C C I G L W G G
UniRef90_C5C232 W L V T E A D D A A P L A A F L D S M R F T L R V E V A V R D D V A V L G A V G G
UniRef90_B3PJA4 A L R L P R N I L E Q A Q I S L G K Y I V F S K A K L R K A D D Y A I I G L H S G G
UniRef90_L0IY56 F Q V G A N G N I D L D Y F R R Q A P A D D S V Q V R D I T G G T C C I G L W G G
UniRef90_UPI00047E2D4D F L V V T A S V R D A H Y F K N H V A R G A D V A L E D V S N R Y A V L G L M G G
UniRef90_M3ZUD0 F L E C D S T V E N S I M K H L K V Y K I R R K V S I S L C P E L S V W A V L S G G
UniRef90_UPI00034AF70C W A H T E P G A A A D L A Q F L D S M R F M L R V E V E D L S D R V L T L A G G
UniRef90_B7VK90 A L M Q P K S A I T E V E L V J E I K K Y A V F S K V D I E Q T S D V V I G V M G
UniRef90_A6GP66 F L V C R Q E T V T A L V K R L S M F V L R S K C K V R D C T A D Y Q L A F
UniRef90_G7Z208 L L D P E T D R R A D L R R L K M Y K L R S K I A L E D R A E A L R V V V A G G
UniRef90_UPI00030DC8C2 W Q L G A N T P A D L D W L V R H A P E D V H V R D I T S G T C C I G V W G G
UniRef90_N6U562 F M T T T A L A A G V L T H L E F C A Q T L W P E L E V T D Q W A Q M A V A G G
UniRef90_H2K700 F Q V N G A N S P A D L D R L R H A P D D V Q V R D I T S G T C C I G V W G G
UniRef90_A3WEE3 A L V V N G A C K W D D I A H L R E H L D D D V V T L T H F D D F A L L A L Q G G
UniRef90_L1IY04 F I D V A R D Q K E D F L K R Y K L R A K V V L T D H S S E R A V Y A A V G G
UniRef90_C7MUC8 F Q V G A N G N L D L D Y L L R Q A R D E P G V Q V R D I T S G T C C I G V W G G
UniRef90_A3SR02 Y I V T G T G F A T H D F D W I R R N I P E G C Q L F D I T S S R A V L S L M G G
UniRef90_I0RI64 Y L D T E P W R G E P L I A Y L R K M V F W S D V T V E T A E L A V L T L L G P
UniRef90_UPI0004652A9D W I H T E K E K T A E L V A Y L E K M K F M L R V E I D R S N D Y A V L R A P G G
UniRef90_A0A059DZQ4 Y L V V N G A D S K E A D W A L F E R T F E G K A V L T R A D D R L L F A L L Q G G
UniRef90_F7SR25 F W I S L A D S D M L W A Q G L A V Y S E L D V A I N E P D V S P L Q L Q G G
UniRef90_B9R3N5 Y L V C A A F F E Q R L L D H L A Q H L L G G E T V T R N L S T D W G A M A L N G G
UniRef90_D0UWMO Y L L T R Q D L Q N H G L A Q L K K Y A V F S Q Y V T F S E K N W T L V G M L
UniRef90_B9VQ89 W A H V E P G T Q E A L L G Y L E S M K F F Y R V E V A D R T A D F A V V H
UniRef90_X1XIN3 L L E C E K D T A S D L I K Y L R M Y L L R R K I N I N V L D D I S V W A L F
UniRef90_UPI000255814A L L D V S D S L A D G L A Q R L T M Y K L R S A V T I T D S G Y A L H L R R G T G
UniRef90_B3RBH6 Y L V V T G S T R D F S Y J E R L T P A D R S C V I V D V T G Q Y A V L A V M G G
UniRef90_V4TEA1 F R L C C Q E P Q Y S W L L D I A W G F D V E M D E T E D V A A L A L Q G G
UniRef90_K2HE54 D L L V P T A M A D S L L K L G K Y I V F S K A S L A L D D T R V V L S L V G G
UniRef90_UPI00036365F6 Y I V T G T P G Y A T H D F D W I K R N I P E G A H L V D V T S G F A V L S V M G
UniRef90_B1ZK03 R L D V A A E R V P D L V K R L G L Y R L R A K V T
UniRef90_D9UJ83 W L H V E P G T R E A L A G Y L E S M K F F Y R V E V D R T A E Y A V V H L
UniRef90_UPI0003496BB4 F Q V G A N S P I D L D W L T R H L P R S G S V Q L R D I T S G T C C I G L W G G
UniRef90_F6R228 L L E C D S S V L D A T Q K H L K L Y K I R R K V S I S P C L D L S L W A V V G G
UniRef90_UPI0004711D71 W L L C D A S G A V E L L K A H L T K Y G V F F K A T L S L R N D L Y I A G A S G G
UniRef90_UPI000475ED4C W L D T E R S I A P L L E Y L G Q M V F W S K V E P R D T G E R A L S V V G G
UniRef90_UPI00047D9512 Y L A T T T A K A A E V M L H L E F L A A A A F L T S V S D Q Y A G I A V A G G
UniRef90_UPI00031560FD F L V V P P A V A E A L V A R A E E F A P G A D A T V T D S A D T S L V A V Q G G
UniRef90_V5JAK4 F R V T T A D P C L R W F Q D C A L G M D A T R D I S L D A A L A L Q G G
UniRef90_F9X795 L H V G V N S R V D E V Y K A Q S S N P R N W V H I D I T N G S C C I G L W G G
UniRef90_A7S2C9 F L E C D R S I S A A L T K H L K F F K R L R S K A D I S H A E G L V P W V F
UniRef90_R4LE30 F Q I G V N G P Q D L A W L R H R P G V T V R D V T G T G T G V V W G G
UniRef90_A4EQX6 R L F V G T N A I K R D L A W F R N L A E G Y K V T L T D S T D Y A T L G L M G G
UniRef90_X1Y9C9 L L E C D R P A A S R L E K H L K L Y R L R K K V Q V L L D E T Y H T W V A Y R
UniRef90_Q07IC0 L L D C D R A L A Q P L A T K L N F Y R L R A K V L V E N L S D R G V L A I W D G G
UniRef90_A5E5B2 Y M V T N A G C R A K D V D F L K K E L L Q F L D V K H N T F E G T L L A I Q G G
UniRef90_UPI00036527F3 F W L S L A D S D V G L W A L A L A H A G G W N V H V G E V D V A P I Q I Q G G
UniRef90_A1APD2 A M I V V N A D A T I A S D F S V I A S R L R G G S F R D I T D E T G K L D V Q G G
UniRef90_G0LMR9 L C L T P P D V I A D L A E Q W A D R V F I K D V R V N V S E E F A V F G V H G
UniRef90_L9L1T2 L L E C D S S V L G A L Q K H L M L Y K I R R K V T V E P H P G L R S W A V L P
UniRef90_K7LB48 Y L V V N A G C R D G A L A H I E M H A K G R D V S W H I H D E R S L A L Q A
UniRef90_K5BZY2 L I E I T A S E Q E A L R R L T M Y K L R A P V D L K A E A E G V S V F W G
UniRef90_W5Y571 Y M T T T A H A G A V M Q H M E L Y H Q W L W P E L D V H F E W A Q L A I A G
UniRef90_UPI0004419411 L L E C D A T L L D S V Q K H L K L Y K I R R K L N I A P C P E L C L W A I I P
UniRef90_E2Q3U9 F Q L G A N T P A D L D W L R H A P A A V Q I R D I T S G T C C I G V W G

UniRef90_B4X3R5
UniRef90_G8Y5R0
UniRef90_UPI00037F8EAC
UniRef90_UPI00042B06AD
UniRef90_UPI00026CA602
UniRef90_W9DW21
UniRef90_T1PFT7
UniRef90_C6XAC2
UniRef90_G0V801
UniRef90_U1LQ76
UniRef90_L8EST5
UniRef90_UPI00038012DF
UniRef90_UPI00037B7758
UniRef90_UPI0003F49962
UniRef90_E8WQ62
UniRef90_G1KFU2
UniRef90_H8GBF0
UniRef90_K2AUP6
UniRef90_UPI0002630B3E
UniRef90_I0HIQ5
UniRef90_UPI00030F1B20
UniRef90_B8D2P4
UniRef90_T1G4I2
UniRef90_D7R616
UniRef90_UPI00022C93A0
UniRef90_E2BQ75
UniRef90_M5EX82
UniRef90_F3IYP1
UniRef90_H0JH02
UniRef90_I5C354
UniRef90_UPI0007M7BHW2
UniRef90_W0IAV3
UniRef90_X6CP69
UniRef90_J7S1P4
UniRef90_UPI0003B625E5
UniRef90_V9DKS7
UniRef90_UPI000478CC31
UniRef90_UPI00035EBCF6
UniRef90_C5C232
UniRef90_B3PJA4
UniRef90_L0IY56
UniRef90_UPI00047E2D4D
UniRef90_M3ZUD0
UniRef90_UPI00034AF70C
UniRef90_B7VK90
UniRef90_A6GP66
UniRef90_G7Z208
UniRef90_UPI00030DC8C2
UniRef90_N6U562
UniRef90_H2K700
UniRef90_A3WEE3
UniRef90_L1IY04
UniRef90_C7MUC8
UniRef90_A3SR02
UniRef90_I0RI64
UniRef90_UPI0004652A9D
UniRef90_A0A059DZQ4
UniRef90_F7SR25
UniRef90_B9R3N5
UniRef90_B0UWM0
UniRef90_D9VQ89
UniRef90_X1XIN3
UniRef90_UPI000255814A
UniRef90_B3RBH6
UniRef90_V4TEA1
UniRef90_K2HE54
UniRef90_UPI00036365F6
UniRef90_B1ZK03
UniRef90_D9UJ83
UniRef90_UPI0003496BB4
UniRef90_F6R228
UniRef90_UPI0004711D71
UniRef90_UPI000475ED4C
UniRef90_UPI00047D9512
UniRef90_UPI00031560FD
UniRef90_V5JAK4
UniRef90_F9X795
UniRef90_A7S2C9
UniRef90_R4LE30
UniRef90_A4EQX6
UniRef90_X1Y9C9
UniRef90_Q07IC0
UniRef90_A5E5B2
UniRef90_UPI00036527F3
UniRef90_A1APD2
UniRef90_G0LMR9
UniRef90_L9L1T2
UniRef90_K7LB48
UniRef90_K5BZY2
UniRef90_W5Y571
UniRef90_UPI0004419411
UniRef90_E2Q3U9

130 140 150 160

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

UniRef90_B4X3R5 L T T D T E Q A E S V W T V L A L D R A A T N A N G W R Q A D I D A G E G M V Y
UniRef90_G8Y5R0 L S I L P S S T P Q A L I E D F P D T V K P I G L A A R D S L R L T L E A G M C L Y G
UniRef90_UPI00037F8EAC L Y L P I S I G A D I W K Q S H P Q V K P C G L G N A R D T L R L R T L E M G R P L N G
UniRef90_UPI00042B06AD L L M S P T T A G S V W K T L S Q V A I P L G F N A W E K L R L R T V I Q G R P A P G
UniRef90_UPI00026CA602 L Y A V A S D A G A V W D A V E A G G A P Y G L E A L E F L R L R I E K G H I V I G
UniRef90_W9DW21 L N S I E S S D Y G N F A M W E K I M E V G Q P Y G T E L L S T L R L R I E M G H V A G S
UniRef90_T1PFT7 L S I S P S S H V E A L L Q Q T K Q Q V K M A G L G A R D S L R L R L E A G L C L Y G
UniRef90_C6XAC2 M S V P A G S A Q H V W N A L L E N G R P F G T D T Q R L L R L L E M G N C L I G
UniRef90_G0V801 M S V P E K N A S E F A S L D N S T V L K P I G L A A R D T L R L L E A G M C L Y G
UniRef90_U1LQ76 L Y I A A H A T E S L W R A L E H G L A L C G L A A R D T L R L L E A G M P L Y G
UniRef90_L8EST5 L F L P R G E L E P F A A A N G P A A G T L A L E A L R L V L E A H R P R L G
UniRef90_UPI00038012DF W W I A S Q A Q L E A S Q D L A R L L G R G D E Q A W R A L D L A A G L P W I A
UniRef90_UPI00037B7758 L I A P R G A K V E D A R E D Y E A A R I A A A G V P Q G G
UniRef90_UPI0003F49962 L S I P P E N T I S I T E E N H P D V Q L I G L G A R D S L R L L E A G M C L Y G
UniRef90_E8WQ62 L F L P A G K V T E L W S Q S D A R V A P A G L G A R D L R L R L E M G Y S L E Y G
UniRef90_G1KFU2 A S R G A D P L E I I P G S Q I G N V K D Y H M Y R Y R Q G M P L Y G V
UniRef90_H8GBF0 I Y L Y D A H A E R L W D R V W E A G R P H P I G P C H I R R I E A G M L A Y G
UniRef90_K2AUP6 L H M P T D V A V T V Y E A L M T A G R N A G Y R A I E T L R L L E A K G Y R A W G
UniRef90_UPI0002630B3E L S L P G E A A E A F A D A L T A Q V K P I G L G A R D S L R L L E A G M P L Y G
UniRef90_I0HIQ5 L L V P R A E K T A V I E K L G V A R A G L W A Y E A V R L V L E A A R T P R L N
UniRef90_UPI00030F1B20 V S V P S R Y A A S L L N T L L E R G R A V G M E A W L R L R L E K G Y I H L G
UniRef90_B8D2P4 I W G E H G E M R K L V D L L V S K G K L A G L I A R D T L R L L E A G M P L Y G
UniRef90_T1G4I2 L S L P M D M T E Q L L E I N N E I K L A G L G A R D T L R L L E A G L C L Y G
UniRef90_D7R616 I H A P A E Y G A T L W D A L M K A G E P F G V L A Q R D L R L L E A K G H L I V S
UniRef90_UPI00022C93A0 I S M P A K I G A R T L V E A D T P A D T K L A G L G A R D S L R L L E A G L C L Y G
UniRef90_E2BQ75 I S V L A K D A V N L V I E R I L E H V K L A G L G A R D S L R L L E A G L C L Y G
UniRef90_M5EX82 L H V P I A A A G E V F D A L M K A G R P V G Y R A L E S L R L E K G Y R A W G
UniRef90_F3IYP1 L M L P A E E A Q S F F N
UniRef90_H0JH02 T W R A A D A A A P A L P E V A L D E W L L A Q V R A G V G Q V F
UniRef90_I5C354 V Y C G A G H G Q H V W E A L M E A G T P Y G M E A L G A L R L R I E K G H V T G
UniRef90_M7BHW2 L S V P V G R V Q L V E L R D P Q V Q L A G L A R D S L R L R L E A G L C L Y G
UniRef90_W0IAV3 D S R F A K A G V T L T R R A G R H G D G A E A L Y D A L R I S H G I V T S G
UniRef90_X6CP69 I A V P G A S A E K V A E Q S N K E V K P I G L A A R D S L R L R L E A G L C L Y G
UniRef90_J7S1P4 L H H P I E Y Q R H I F D E I M Q A G K E H E L R A M D A L R L R L E K S Y R M W A
UniRef90_UPI0003B625E5 I S I P P E N G D A A L T A D Q S K V R W A G L G A R D S L R L R L E A G M C L Y G
UniRef90_UPI000478CC31 L L V S D Q Q A D T L A F A P A G D E S L W W G L R I K A G L P H M E
UniRef90_UPI00035EBCF6 L Y T T A D L G R K L W D T L R R A A G P A G R G A F N S L R L R L E K G Y R S F G
UniRef90_C5C232 V L V P W E T A N E V L D R Q A G E L R L A G A W A W E A L R R L E A R R P R F A
UniRef90_B3PJA4 L K S L T A L A P L G Q S L A E V A S L R T E N D W N L A Q I Q R G T C I T
UniRef90_L0IY56 L Y T S A E Y G L R L W D A L W A V A G Q A A G R A A F N S L R L R L E K G Y R A W G
UniRef90_UPI00047E2D4D I Y L Q N F N F A P G A L L E L L E V I G R P A G M N A L N Y L R L E K A Y R H W G
UniRef90_M3ZUD0 L Q N Q F N P L E I I A S C Q K G D I M D Y H K H R Y L S I G L P E G V
UniRef90_UPI00034AF70C L F L P A D A L A P V A E A T A A G A R P V G M W A Y E A R R I A E H R P R L G
UniRef90_B7VK90 L L V T Q E A T E A L V S S S T A E K V S E A L W Q Y H E L L D A Q P N L S
UniRef90_A6GP66 L V V G N G K T E Q S S A A D D Q F E F A L Q Q L L G J A Y V S
UniRef90_G7Z208 L P V E G P A E G I A A L E E A G L V R R D A A E Y D R L R L S L G V P D G T
UniRef90_UPI00030DC8C2 L Y A D A D V G L R L W D T L W E A G Q A A G R S A F N S L R L R L E K G Y R A W G
UniRef90_N6U562 L G V P A Y G E F V A D A I M Q A G R K H E I C A Y G A M R I E K G H V T H
UniRef90_H2K700 L Y T T A D L G L R L W D T L W E A G R E A G R S A F N S L R L R L E K G Y R A W G
UniRef90_A3WEE3 L A V H E D K A L A D A L V A D E R V K P A G L G A R D S L R L R L E A G L P L Y G
UniRef90_L1IY04 G V R I S E E G K H T L F T S A A G F S E I S E T L Y D I Y R I S L G V A Q G P
UniRef90_C7MUC8 I Y T S A E Y G M R L W D L W E A G P A G R A A F N S L R L R L E K G Y R S W G
UniRef90_A3SR02 L H L P R D E F A T T V Y E A L M A G R P N A G Y R A I D S L R L R L E K G Y R A W G
UniRef90_I0RI64 L V V P V D Q A E R W R Q R V D A G L R P A G V W T Y E A H R V L A A V R P R L G
UniRef90_UPI0004652A9D A L V T Y D E L D D M K S A F S Q N Y L I Q V G T W A L D A E R V A A G R A R I L
UniRef90_A0A059DZQ4 V L V S P E A G V P L K E M D E R V K P I G L G A R D S L R L R L E A G L C L Y G
UniRef90_F7SR25 L Y R D G S R G D E L W E T I M A A G R P F G L Q P G H T R R I E A G M L S Y H
UniRef90_B9R3N5 F H V P W E D M L A V Y D A L W A T G M D Y G S F A M N A L R L L E K G F K G A G
UniRef90_B0UWM0 L C W E Q K M S L E Y T Q D T Q Y W D Y L D M Q A G F P L T
UniRef90_D9VQ89 Q L E A F A A A H G P A A G L L A Y E A L R V E A H R P R L G
UniRef90_X1XIN3 I F L D E R D N K F T Y Q Q W R Y K N G V A E G S
UniRef90_UPI000255814A L Y G A E A G D D G S D W D A T R T A H C L I P E T G
UniRef90_B3RBH6 L Y V P V E F A V G V Y E T L H E A G R N A G Y A L E S L R L E K G Y R A W G
UniRef90_V4TEA1 L W I S P G A A L P L W D R L W E A G R L W G L R A M D I A R I E A G F V M T G
UniRef90_K2HE54 L V L P V E T A I A H W A A L S E G R G I G G A E H A R L H D I L A G E G H V L
UniRef90_UPI00036365F6 L H I P T E F A A S V F E A L S K A G E E A G Y R A L E S L R L E K G Y R A W A
UniRef90_B1ZK03 L P A L G E R L Y F S Q G A F S A D A T E E D Y H A H R I G L G V P E G G
UniRef90_D9UJ83 V F L P R T D L A A F A E A A G P A G L L A L E A L R V L E A Q R P R L G
UniRef90_UPI0003496BB4 I Y T T A D M G R R L W D T L W E A G Q E A G R S A F S S M R L E K G Y R A W G
UniRef90_F6R228 G W R L I T K A G A N L P E I I P G S R I E N V I Q D Y H R H R Y K Q G I P E G V
UniRef90_UPI0004711D71 L T I S E T P I E T D G A Q A H W W F E D T R A G F V W I G
UniRef90_UPI000475ED4C L L V P R A D L V A W W T R T E A G A R P M G T L A F D A L R V E S L R P R L G
UniRef90_UPI00047D9512 V Y V G A D H G P F I W K L L L E K G A P Y G L E A M G T L R I E K G H V A G
UniRef90_UPI00031560FD I Y L G N A D A Q P V W E A L V A G A Q P C G L L A S R D S L R L R L E A G M P L Y G
UniRef90_V5JAK4 L W C H P T H A L Q D L W D A L M E T G R P A G L D A L D I A R I E A G M L L K D
UniRef90_F9X795 I Y T A A A T G Q K L W D A I Y A G G Q A A G R I A G N S L R M E M G Y R D W G
UniRef90_A7S2C9 L L L P S D T D P S A C L E G A G H A P R G A Y E E H R A R L G V C E G E
UniRef90_R4LE30 I Y T R A D L G R R L W D T L W A A G S P H G L A A F T S L R L R L E K G Y R S W G
UniRef90_A4EQX6 I T M R A E N A A T V Y A A T T A G A K P A G L F A Q T S M R L E K G F C A M G
UniRef90_X1Y9C9 M G S N G D Q T E K L D R L L E T F P G E I A T V P R Y V F R Y T L G V G E G E
UniRef90_Q07IC0 W V D A S D Y D S H R I A C G A P A G
UniRef90_A5E5B2 L S I P S T S E V E L I A E Y P E I V K P I G L A A R D S L R L R L E A G M C L Y G
UniRef90_UPI00036527F3 I Y L Y E A S A V A L W D R V W E A G Q P H P I G P C H M R R I E A G M L A Y G
UniRef90_A1APD2 I F L P S A R V G E L W D L R D Q R V R P A G L G A R D L R L R L E L G Y S L Y G
UniRef90_G0LMR9 V V C S A D V A D R I L E T Y G L N G V P F G Y Q V W N T L A V E A G T P R F N
UniRef90_L9L1T2 L L T Q E E G P A L V P R C W L G N L Q D Y H R H R Y L Q G I P E G V
UniRef90_K7LB48 I S I P S E S A V D L A K A L L E K I R L T G L G A R D S L R L R L E A G L C L Y G
UniRef90_K5BZY2 R I P G A T A A G D A A V I D V L R V L E Y G I A E A G
UniRef90_W5Y571 L A V P A R Y G D A L A R L L M K V G A P Y G I T P Y G T M R L E K G H P A G
UniRef90_UPI0004419411 I I P G S Q I G D P K D Y H R H R Y R Q G I P E G V
UniRef90_E2Q3U9 L Y T T P D L G L R L W D T L W E A G A A L G L G A L E S L R L E K G Y R A W G

UniRef90_B4X3R5 P G A E D L F L P Q V L N Y D V T A G V N F K K G C Y T G Q E V V A R M H F K G 210 220 230 240

UniRef90_G8Y5R0 H E L S E S K T P T E A S L T W I P K T R R D N A S F N G A S T I L A Q Q K N E G

UniRef90_UPI00037F8EAC K D I L P G F T T P L M A S M D R F W S I S M N K G C Y K G Q E T I L S R T Y D G

UniRef90_UPI00042B06AD K E L T N E F N V L E A G L W N S I S M N K G C Y K G Q E T I L S R T Y D G

UniRef90_UPI00026CA602 A E A D G R T T P H D L Q L E R M L R K S G G F I G T A G L T R

UniRef90_W9DW21 E L D G R T T P Y D N A L E G L V S K K K D F I G T A G L T R

UniRef90_T1PFT7 S D I D N K T T P I E A A L A W L V A K R R E E N F P G A Q R V V N R Q L K E G

UniRef90_C6XAC2 Q D T D G L T Q P F E A G S D G A I Q F A K P F F I G Q R L I A R

UniRef90_GOV801 N E L S L E I T P V I E A R L N W

UniRef90_U1LQ76 N E L S L D V L P A Q V G L G R V V A L K T K G D F V G R A A V E

UniRef90_L8EST5 L E T D H R T I P H E L G W I G T A V H L Q K G C Y R G Q E T V A R V H N L G

UniRef90_UPI00038012DF G S T Q D L F L P Q T V N L E L A G G V S F T K G C Y P G Q E V V A R S H Y R G

UniRef90_UPI00037B7758 V D F Y G A A F P H E A N M D L L A G V D F T K G C Y I G Q E V V S R T K H R

UniRef90_UPI0003F49962 H D L D E T I S P V I E A G L S W V I G K D R R T S E F P G K

UniRef90_E8WQ62 N D L D D N I L T P L T A G L S S F V N M E K E F V I G K G A L L R E E E M G

UniRef90_G1KFU2 R D L P G V A L P L E S N V A Y I N G I S F T K G C Y I G Q E L T A R T H H M G

UniRef90_H8GBF0 C D I T R D T N P L E V I G Y D Y R W M V D L D E A D F V I G K E A L R R V K A D G G

UniRef90_K2AUP6 A D I G P D H T P V I E A G L G A W A C K M K S D A D F V I G R A A I A A Q L A G G

UniRef90_UPI0002630B3E H D L D L D E T T P V I E A D L G F A S K R R R E E G D F A G A E R I L A E R E Q G

UniRef90_I0HIQ5 W E T D H R T I P P E A G L L A A G V H L D K G C Y R G Q E T V A R V H H L G

UniRef90_UPI00030F1B20 S D T N G R T T P L D I G M G G I V A K R K D D F L G K R S L S

UniRef90_B8D2P4 H E Y G E D P V K F P C A L S L R G A L T W E K R G D F V G E A L R A C R R E G

UniRef90_T1G4I2 N D I D E K T T P V I E A G L A W T I G K R R R E A D F P G A P L I L K Q

UniRef90_D7R616 Q D T D G L T N P F E V I G M D W A V K L D K P F F T G K R S L

UniRef90_UPI00022C93A0 H D I D E E T T P V I E A A L T W L V A K R R R E A N F P G Q R L L S Q I K

UniRef90_E2BQ75 N D M N A D T T P V I E A A L T W L I A K R R R E A N F P G Q R L L S Q I K

UniRef90_M5EX82 A D I T P N D T P E E A G L G W A V K L R K N D F V G R R A L E K I

UniRef90_F3IYP1 G A T R E L F V P Q M I N L Q A L D G V S F R K K G C Y T G Q E I V A R M Q Y L G

UniRef90_H0JH02 A E I D G R T T A R D L Y L D W M L S K K K P F I G S G L M D R

UniRef90_I5C354 N D I D E T T T P V I E A A L V W T L G K R R R V A D F P G A T V I

UniRef90_M7BHW2 S D F A Q D A F P H D V L M D F N G G L S F R K G C Y V I G Q E V V S R M Q H R G

UniRef90_W0IAV3 S D Y Q G D A F P H D V L L D E T D G G V G F R K G C Y V I G Q E V V S R M Q H R G

UniRef90_X6CP69 N E L D T A T T P V I E A N L K W

UniRef90_J7S1P4 K D L S R E Y T A F E A G L D R F V R L N K G E F T G R E A L V R Q Q Q E G

UniRef90_UPI0003B625E5 H D L N E Q I T P Q M A A L G W L V G K S R R S P A F N G H E T I N K Q

UniRef90_UPI000478CC31 A V H Q G E F I P Q M L N L Q A L D G I C F T K G C Y I G Q E T V A R A K Y R G

UniRef90_UPI00035EBCF6 T D M T Y E H D P Y E A G V G F A V R P D K E D F I G K A A L E

UniRef90_C5C232 R E V D E R S T P H E L D W L R T A V H L D K G C Y R G Q E T V A R V F N M G

UniRef90_B3PJA4 P E T Y E Q F T P Q E L N L T L V N G V N F R K G C Y T G Q E I V A R L H Y R G

UniRef90_L0IY56 I D M T T E H N P Y E A G L G F A V S A K K T D F V I G H A A L

UniRef90_UPI00047E2D4D H D I G P D E T P A E A G L S F L C A M D K A I P F I G R D A V A S E K

UniRef90_M3ZUD0 D D L P G V A L P L E S N L V Y M Q G I S F S K G C Y I G Q E L T A R T H H T G

UniRef90_UPI00034AF70C R D T D H R S I P H E M N W V I G R A V H L I E K G C Y P G Q E T V A R V H N L G

UniRef90_B7VK90 K A E Q N E H I P Q A L N L Q A I G G I S F S K G C Y T G Q E T V A R A K Y R G

UniRef90_A6GP66 Q P T V I E M F I P Q A L N F D L V G G V S F S K G C Y P G Q E I V A R S H Y L G

UniRef90_G7Z208 G E I P E K S I P L I E N R M D A L N A I S W D K G C Y M G Q E L T A R T K Y R

UniRef90_UPI00030DC8C2 A D M T A E H T P E E A G V G F A V R P A K K D F L G R D A L A

UniRef90_N6U562 A E I N G T V T P G D L G F A R M A V R S T T K A D F I G K A M L V R

UniRef90_H2K700 T D M T D E H T P F E A G L G F A V R M D K E D F V I G K A L R R A

UniRef90_A3WEE3 H D L T T D T D P V I T A D L T F A L S K K R R E G G Y A G H M A V A

UniRef90_L1IY04 K E L L Q G T C L P L E G N I E L F G G V S F N K G C Y V I G Q E L T A R S H F R G

UniRef90_C7MUC8 N D M T T E H N P Y E A G L G F A V N K K K T G Y V I G Y E I A G L E N E G

UniRef90_A3SR02 S D I G P D H T P F E A G L G W A V K L R K D P F K G R A A K A Q K E G G

UniRef90_I0RI64 V D T D E R T I P H E A G V G W I G R A V H L D K K G C Y P G Q E T V A R V H N L G

UniRef90_UPI0004652A9D F E T D H K S I P N E L G F I L N N A V H M K K G C Y P G Q E T V A K V F N L G

UniRef90_A0A059DZQ4 H D M D T T R D P V I E A D L A W I Q K K R R E Q A N F P G A E R I L K A L S D G

UniRef90_F7SR25 A D A D M H T N P Y E L G M D R L V A L D M K A D F I G K A A L Q R I Q A Q G

UniRef90_B9R3N5 E L T N E V T L P E A N V M R F V K L D K G D F L G R E E T A K

UniRef90_B0UWM0 I I G Q G E F I P Q A L N L Q E I Q A I S F Q K G C Y I G Q E T V A R A K Y R G

UniRef90_D9VQ89 A E T D H R T I P H E L G W I G T A V H L Q K K G C Y R G Q E T V A R V H N L G

UniRef90_X1XIN3 E L L K G Q S F P L I E M N C D Y L N G I S F N K G C Y V I G Q E L T A R T H H T G

UniRef90_UPI000255814A I E L T P S D T F I L E A G F E R L H G V D F R K G C Y V I G Q E V T A R M K H K

UniRef90_B3RBH6 R E L S P S V N P F E A G L S F A C K L A S G N F R G R D A L L R L R Q A G

UniRef90_V4TEA1 A D F I S S H T R S A F E L G F G R L V D F G K G H F N G R R A L L K L S E R

UniRef90_K2HE54 P G A E D L F L P Q A L N Y D V L H G V S F R K K G C Y T G Q E V V A R M H F K G

UniRef90_UPI00036365F6 S D I G P D H T P I E A G M S W A C K L K S D I A F K G R S A L E T Q I K N G

UniRef90_B1ZK03 R D F A S D A F P H E A L M D Q L G G V D F K K G C Y V I G Q E V V S R M Q H R G

UniRef90_D9UJ83 F E T D H R T I P H E V I G W L A S A V H L D K K G C Y R G Q E T V A R V H N L G

UniRef90_UPI0003496BB4 S D M T T E H D P Y E A G V G F A V R M N K G Y F I G K N A L

UniRef90_F6R228 K D L P G V A L P L I E S N L A Y M N G V S F T K G C Y I G Q E L T A R T H H M G

UniRef90_UPI0004711D71 A S Q S D A W L P Q M I N W E A L G G L S F K K G C Y T G Q E V V A R A H Y R G

UniRef90_UPI000475ED4C V D T D E K T I P H E V N W I H V A A H V A K G C Y R G Q E T V A K V H N V G

UniRef90_UPI00047D9512 P E L N G R V S A H D L G M E K L L S T K K P F V I G K P L A Q R

UniRef90_UPI00031560FD N E I L T L Q T T P A D I G M G K M A V N A L K R E H L F A R E A I E R Q

UniRef90_V5JAK4 V D Y V S S W T A L P Y E A G L G W T V Q P R L G D F V G S R A L A R

UniRef90_F9X795 S D M S T E H T P Y E A G L G H I V D M S K D D F V I G K K A L

UniRef90_A7S2C9 E E I P A N A M P L I E Y N L D F L N G V S F H K G C Y I G Q E L T A R T H H T G

UniRef90_R4LE30 V D M T A E D D P Y E A G L G F A V R L D K K G D F I G R A L A

UniRef90_A4EQX6 H E L D S D V S P I E A G L D F A T R K T G G F I G A E A L A E R R A K G

UniRef90_X1Y9C9 L N L P G K A F P L I E S N C D W L H G V S F H K G C Y I G Q E L T A R T Y H T G

UniRef90_Q07IC0 V D F Y G D A F P H E A N M D K L H G I D F S K G C Y V I G Q E V V S R M H H R G

UniRef90_A5E5B2 H E L T E D L T P V I D A S L T W

UniRef90_UPI00036527F3 C D I T L D T N P L E V I G Y D Y K W M V D L N E A D F I G R D A L I R A K E K G

UniRef90_A1APD2 H D I D E S I T P I E A G L E Y F V N F D K D F V I G R D A L L A Q R E O G

UniRef90_G0LMR9 T E L A D Q I P N V L G I R N A L D F E K G C Y I G Q E T V S K V E N R G

UniRef90_L9L1T2 Q D L P G V A L P L I E S N L A F M N G V S F T K G C Y I G Q E L T A R T H H M G

UniRef90_K7LB48 N D L E Q Q H I T P I E A G L T W A I G K R R R E E G G F I G A D V I A R T L E E G

UniRef90_K5BZY2 R D Y A Q D A F P H D V L M D V N D G V S F K K G C Y V I G Q E V V S R M K H R G

UniRef90_W5Y571 P E L N G Q T T A H D L E G M G R M L S N R K D F I G R T M A A R

UniRef90_UPI0004419411 K D L P G T A L P L I E S N L V Y L N G V L S F T K G C Y I G Q E L T A R T H H M G

UniRef90_E2Q3U9 R D M T T E D T P Y E A G L G F V V R P E K G D F T G R N A L

UniRef90_B4X3R5	
UniRef90_G8Y5R0	
UniRef90_UPI00037F8EAC	
UniRef90_UPI00042B06AD	<input type="checkbox"/>
UniRef90_UPI00026CA602	
UniRef90_W9DW21	
UniRef90_T1PFT7	<input type="checkbox"/>
UniRef90_C6XAC2	
UniRef90_G0V801	
UniRef90_U1LQ76	
UniRef90_L8EST5	
UniRef90_UPI00038012DF	T
UniRef90_UPI00037B7758	
UniRef90_UPI0003F49962	
UniRef90_E8WQ62	S
UniRef90_G1KFU2	<input type="checkbox"/>
UniRef90_H8GBF0	<input type="checkbox"/>
UniRef90_K2AUP6	<input type="checkbox"/>
UniRef90_UPI0002630B3E	S
UniRef90_I0HIQ5	
UniRef90_UPI00030F1B20	
UniRef90_B8D2P4	<input type="checkbox"/>
UniRef90_T1G4I2	
UniRef90_D7R616	
UniRef90_UPI00022C93A0	
UniRef90_E2BQ75	
UniRef90_M5EX82	
UniRef90_F3IYP1	
UniRef90_H0JH02	
UniRef90_I5C354	
UniRef90_M7BHW2	
UniRef90_W0IAV3	T
UniRef90_X6CP69	T
UniRef90_J7S1P4	
UniRef90_UPI0003B625E5	
UniRef90_V9DKS7	
UniRef90_UPI000478CC31	A
UniRef90_UPI00035EBCF6	
UniRef90_C5C232	
UniRef90_B3PJA4	
UniRef90_L0IY56	
UniRef90_UPI00047E2D4D	
UniRef90_M3ZUD0	<input type="checkbox"/>
UniRef90_UPI00034AF70C	
UniRef90_B7VK90	
UniRef90_A6GP66	
UniRef90_G7Z208	
UniRef90_UPI00030DC8C2	
UniRef90_N6U562	
UniRef90_H2K700	
UniRef90_A3WEE3	
UniRef90_L1IY04	
UniRef90_C7MUC8	
UniRef90_A3SR02	<input type="checkbox"/>
UniRef90_I0RI64	
UniRef90_UPI0004652A9D	
UniRef90_A0A059DZQ4	
UniRef90_F7SR25	<input type="checkbox"/>
UniRef90_B9R3N5	
UniRef90_B0UWM0	
UniRef90_D9VQ89	
UniRef90_X1XIN3	<input type="checkbox"/>
UniRef90_UPI000255814A	
UniRef90_B3RBH6	A
UniRef90_V4TEA1	
UniRef90_K2HE54	
UniRef90_UPI00036365F6	<input type="checkbox"/>
UniRef90_B1ZK03	T
UniRef90_D9UJ83	
UniRef90_UPI0003496BB4	
UniRef90_F6R228	<input type="checkbox"/>
UniRef90_UPI0004711D71	
UniRef90_UPI000475ED4C	
UniRef90_UPI00047D9512	
UniRef90_UPI00031560FD	
UniRef90_V5JAK4	
UniRef90_F9X795	
UniRef90_A7S2C9	<input type="checkbox"/>
UniRef90_R4LE30	
UniRef90_A4EQX6	A
UniRef90_X1Y9C9	<input type="checkbox"/>
UniRef90_Q07IC0	T
UniRef90_A5E5B2	
UniRef90_UPI00036527F3	
UniRef90_A1APD2	
UniRef90_G0LMR9	
UniRef90_L9L1T2	<input type="checkbox"/>
UniRef90_K7LB48	
UniRef90_K5BZY2	T
UniRef90_W5Y571	
UniRef90_UPI0004419411	<input type="checkbox"/>
UniRef90_E2Q3U9	

UniRef90_G9N9W5
UniRef90_UPI0002F80E7A
UniRef90_C6AQ72
UniRef90_A4AIH1
UniRef90_UPI00035D565A
UniRef90_I1AZZ3
UniRef90_UPI0002D466F8
UniRef90_F2IZ30
UniRef90_F9WYF5
UniRef90_UPI000474BC71
UniRef90_B7RZS6
UniRef90_A0A010QE84
UniRef90_A6DLP1
UniRef90_C7MDX5
UniRef90_UPI000382CF10
UniRef90_B9R386
UniRef90_A6U7D2
UniRef90_UPI00036797C4
UniRef90_F3KGM7
UniRef90_UPI00046A46A5
UniRef90_A0A021VV87
UniRef90_W5P8A3
UniRef90_UPI000289BDF7
UniRef90_X6HYZ7
UniRef90_A0A011VM54
UniRef90_U2B611
UniRef90_C0QGU5
UniRef90_Q1GEN9
UniRef90_I0HSG3
UniRef90_L1QJ50
UniRef90_G2QDJ6
UniRef90_D6ZBG1
UniRef90_A3VYA8
UniRef90_UPI000476D540
UniRef90_UPI000381A8B8
UniRef90_E2SBQ4
UniRef90_A3SLM6
UniRef90_UPI00035FEEEE2
UniRef90_G8S7S0
UniRef90_V9VSD6
UniRef90_R4LWD3
UniRef90_H2AV68
UniRef90_C7YK10
UniRef90_M4MR39
UniRef90_B6QQL7
UniRef90_D7DQB7
UniRef90_UPI00046B2390
UniRef90_UPI000472B84F
UniRef90_F8A578
UniRef90_J3PZL6
UniRef90_A3TR59
UniRef90_L0LKK8
UniRef90_UPI000466C014
UniRef90_G4Q9L8
UniRef90_H8FQ63
UniRef90_UPI00047AA338
UniRef90_A9JRE6
UniRef90_W5WVK9
UniRef90_G6XN01
UniRef90_Q2HAI0
UniRef90_E9EAD6
UniRef90_C5GLB0
UniRef90_L0DKP0
UniRef90_B8F7H0
UniRef90_I7DAK6
UniRef90_UPI0003822454
UniRef90_A5VPK4
UniRef90_A0Z437
UniRef90_UPI00036A8356
UniRef90_I3D6G3
UniRef90_UPI0002379787
UniRef90_A0A016UKZ9
UniRef90_A0A023X6B5
UniRef90_UPI00047D8BA5
UniRef90_A0A023D1M1
UniRef90_B0SV22
UniRef90_UPI00046A44C6
UniRef90_A0A058ZLV0
UniRef90_Q1GF49
UniRef90_UPI0001D55AEF
UniRef90_X7F7K4
UniRef90_S6HRK7
UniRef90_C3Y1M9
UniRef90_UPI000365C8C6
UniRef90_W9CNZ6
UniRef90_UPI00037A452E
UniRef90_UPI00036108A6
UniRef90_A9H151
UniRef90_A0A017HPW8
UniRef90_UPI0003773940
UniRef90_UPI0002557ED5
UniRef90_UPI00036C99A9

1 10 20 30 40
RRQFASARPPAGLAAALS SRQLLSVTGPDAAKEFLQQ
LFDLSYLTSLTEVTGETDSAEEFLQQ
I C P L E H Y T L I T E I A G T P D R A E K Y L Q
N P F G E Q R A L A A G Q S V V E L A D R A V L T I T G P D R L T W L D
T A T A E R L Q H A H I A K N T L W S V I K A S G T D I R T Y L Q
E Y W A C R E K V A I M D L S P L R K F E I T G P D A G A L M N
R E Q R A L D Q G R G L V D L S H R E V V A V T G P D A D R L S W H
L A S R G V V E V G G P E A H H F L Q
L A S R G V V E V G G P E A H H F L Q
Y S D L S V G E S H A W T R E K A S L F D V G H M V Q Y H V D G P G A E A F L Q
P L P D R S L I S V T G P D A E A F L Q
A I L C D V S V E R Q V E I T G P D A A K F T Q
E S H H F T R T H A S L F D V S H M V Q H R F T G P K A A A F L Q
S F Y E L K T F G V L R V S G E D A D K V L E
P V A E Y W A L L E G V T L W D V G V E R Q I E I S G P D A F D F T N
R E V R T V R E R V G V C D V S T L G K L E V Q G P D A G A F L D E
E H Q H T R A K A G L F D V S H M G Q A V L I G P D T A K A L E
L D G R A I T H V S G K D A D T L Q
R E V L S V R K N V G I C D V S T L G K I E L S G Q L D A G A F L D D
P D S E A D A T R T A A G L I D L S A L R R V H I K G P D A F A V L D
M T N R R I L R L T G A D T R D F L Q
P T A E Q R A L A H G G A V V D Q S H L G V V T V R G P D R L A W L H
A C F L L G E R A L V R V G P D S A P F L L
E H Q S I R E A V G M Y E M S S Y S K L R I K G S D A M D Y L Q
E Y F A I R S Q A A L F D I S P M T K Y R I E G P D A E A F L D D
S A E R E V R T V R G G A G I C D V S T L G K I D I O G P D A R A F L E
E E H H Q V R R E C G V F D V S H M C V V D V A G S Q A Q A Y L Q
G V K N E H L A V L E S A G I F D T S H M A C V I R G P D A L A L Q
R E V T M V R N A V G V C D V S T L G K I D I O G P D A A E L L D
M R L S D W G V I R A T G N D A A A F L H
I A R L D S R A L I R T S G P D A R P F L H
F S R S A P R H A A P S S P S P A G L V E L T S R K L I S V S G P D A A K Y L Q
Y S P L S I A E A A W T R E R V A L Y D M T P L T R Y E V A G P G A L S L L D
E Y F A L R N Q A S L F D I S P M H K Y R I T G P D A A R V L N
P V D E Y W A L V Q G V T L W D V G V E R Q I E I A G P D A F E F T Q
V R L P H R G V I A L T G D D R V T F L N
E Q R T L L A G G T F V D L S H R D V V T V A G P D R L T W L H
E E Y L A I R T K A G V M D V S G L K K V H V I G P H A S H V I D
G Y A A L D D M A L L C M R G S G A K N Y L Q
P M K E Q R L L E T G V G L V D R S H R D V L A V P G P E R A G F W L H
M S D R R I L R L T G S D A K P F L Q
P M R E Q R T L D T A V G L V D R S N R D V V A V P G V E R A S W L H
Q S H L W T R K H A G L F D V S H M L Q S R L M G T D A L A L N E
Y S D L T L A Q S H L W T R N H A S L F D V S H M V Q H I F K G D A A A F L E
E L S A I R T A V A M G D M S P L S K Y V I A G P D A E A M M D
Y T D L S H A E S H H W T R E K A S L F D V S H M V Q H R L T G P G A L P L L M
Q T E A L A V R K A T A G I L D G S S F G K I E I H G P D A A L F L E
E S W A C F R L D K R A L V R V R G P D A V P F L L
L T D R T V L R A S G Q D R V T F L Q
P T A E Q R A L S R G G A V V D Q S H L G V V R V A G P D R L T W L H
L A D R G L I S L Q G E K S K T F L Q
E Q V A C R T S V A V F D Q T S F S K Y A V A G A D A A S T L Q
R S F I R I T G A E A E A F L H
V H L P S R A F V T V D G P E A E H F L Q
H F A L I K F S G S D V R N F L Q
F V R L E R R A I A I G S G D D R R T Y L Q
E A Y L D L R R D A A W F E M N H W S T I Q G P K A M E A L N
F A P V R E C A Q V M Q A V G V I D L S P F G K M K V I S G A D S E R L L D
P L V E Q S R L D R K A G I V D R W D R V A L R I S G P E R L E W L N
L A D R R L I R V S G T G A E E F L N
Y S P L S V S E S H L F T R A H A S L F D V S H M V Q R V F S G P G A A A F L Q
F S T F R P R N Q Q S A P S F R S G Y A R L P T R A L I T L T G K D S T S F L Q
P N D L Y R T L K S Q P G F I D R T D R V R I E V A G G A D R A K F L H
L T Q Y R L I E V A G L D A E K Y L Q
E A A V T R E R V A M F D L T S E P R L A V T G P G A L P F L Q
P V A E Y W H L L N G V T L W D V G V E R Q V E I T G P D A F T F T N
V N L S Y R A L V H I T G E E A E K F L Q
G W A P L A Q E A L L R L E G Q D A C K F L Q
E E E C K N V K E N V G L L D M T A F A K C R L K G P K A E E F L Q
T L I N L T Q F T L I E A T G L D A E K F L Q
E A L V T R K R V A L F D M T P L K R L E V A G P G A L G F L Q
S V A A E Y E A C R E R V G L V D M S S F T K F D I M G P D V V R F L Q
R G P A T L L H R D R R V F R V S G K D P V V G M L D
D E V R L V R D K V G M L D V S T L G K L A I R G A D A G A F L D
L P D R R V L A L I R G G K D R V G F L D
R E V R L T R T G V G V C D V S T L G K I D I H G P D A G A F L D
R E H K A A R D A A V L F D Q T S F A K F T L K G P D A E A A L G
R E A K A V R Q S V G I C D V T T L G K I D V L E G A D A G D F L N
M A D R R I L R L R G G P D T R S F L Q
P V G S E Y K Q V M Q R V G V T D L S P F G K F N I K G Q D S I R L L D
R T V T R V S G E D T S H F L Q
N H A I L C D V A V E R Q V E I T G P D A A K F V Q
P V G R E C E L V L S R A G V I D L T P F G K F E V S G P D A A S L L D
P F G E Q R A A V R S A V V D R S H R Q V V A V P G Q E R L S W L H
Q I H P L A P A K K G I A R L F S R R L I S L V K G P D S T K Y L Q
V T P L N N R K V L G L K G S D C K K F L Q
A I L D M R G T I E V T G A D A G R F L Q
P L S P G A H A T N I H T A M T H F A L P D R A V L A I S G A D R V S F L Q
M S G R T V I A L E G S D R E G F L Q
A Q F I Q L N Q Y Q L I E A Q G T D A E K Y L Q
R E V G H V R Q A V G V A D V S T L G K I D I O G G A D A G R F L D
R E V E T V R T K V G V Y D A S T L G K I D I K G P D A G T L L E

UniRef90_G9N9W5 G I T T A N V K G E P R T D A F Y T G F L N A T G R V L H 70 V F I Y Q E G D S F 80
UniRef90_UPI0002F80E7A G Q L T S C D I V R K K V T A D R M Q Q G V M C N L K G R K I L L A L D V L D V I N W D H H L
UniRef90_C6AQ72 G Q L T T C Q A L V T T K L A G A G G D E S A E T L T A H C P N K G R I L E H A L F R L I R Q D S E T Q F
UniRef90_A4AIH1 S L I T T Q Q A L T K L G A G G S A E T L L L L N S E P N K G R I L E H A L F R L V V I R D D S E T Q F
UniRef90_UPI00035D565A G Q I T T Q D I E K L N S P Q Q Q A T H S C L L L S E P N Q G K A I S E L L V A G H N D E D L
UniRef90_I1AZZ3 A C V T T R N I E K L N S P Q Q Q V V Y T A V C A S A K H G G M I D D D G T V F R L G G T H F
UniRef90_UPI0002D466F8 L L L T T Q H V E K L P A G Q A T E T A V I L S A S A K G H I D H A L Y L V D D D G T T T
UniRef90_F2IZ30 N L I T T C D M D K A A E T G A G Y G A L L L T P Q Q G K I L F D F L I L K D G E R Y
UniRef90_F9WYF5 S I T P A G L K E M K P G S S L S T L L H P Q Q G K I V D D C I I T R L L G E G F
UniRef90_UPI000474BC71 N L I T T D L D A L G E G G E A R P G A L L T P Q Q G K I M F D F L I S R R D L G E G F
UniRef90_B7RZS6 F L S C R D L S K M Q V G Q C K Y V L I T D Q D G G I I N D P I M L K L G E N H
UniRef90_A0A010QE84 T V T P S S V A D M E L N T S K L S T F L H P Q Q G I I V D D T M I T R L L G E H E
UniRef90_A6DLP1 G Q S T S D V K V L G A K N T A Q L S S L L N P Q Q G K I I H H F L I K L D E A C F
UniRef90_C7MDX5 L V V T R D L S K C A V I G Q C K Y V F L T D Q H G G I L N D P L L R L E E N R
UniRef90_UPI000382CF10 I V Y A N R M S T L A E G R V R Y G L M L R E D D G G H V M D D G T C A R L P G R R
UniRef90_B9R386 A L T P S N F V E L G H G R Q R Y T V L L N E D D G G I I D D L M D K N D D G E A L
UniRef90_A6U7D2 T L I T T D I A Q L G A D E I R P G A L L T P Q Q G K I L F D F L L S R D D G E A L
UniRef90_UPI00036797C4 F V Y T S N F S L A V I G R V R Y G L M L R E D D G G V V M D D G T S A R L A E N S
UniRef90_F3KGM7 Y L L P R N M E S I Y P G K S G S Y T V L T D E D G G V A D D V I V Y R L A E D H
UniRef90_UPI00046A46A5 G L I T N D I R K L D T G A V Y A A I L T P Q Q G K Y L A D F F L V S D G D A V
UniRef90_A0A021VV87 S I T S Q N E L T D L P P R A R A G E T L V L S P H G H V E H A A A V V D D D T T
UniRef90_W5P8A3 G L L T N Q L P L P G P A R A G Y A H F L N V G R T L Y D V I L Y L G L P E T T F
UniRef90_UPI000289BDF7 L I C A N D V D V S T G R I V Y T Q W L N K K G G I E A D V T I T R L S D D D Y
UniRef90_X6HYZ7 R V T L R N D F T K L K P G R V H Y T A W C D D E D G F V L D D D G T L F R L S D T R
UniRef90_A0A011VM54 R I Y C L N N V A L L E K P G R A R Y G L M L R E D D G G V L D D D G V T M C F S D T H
UniRef90_U2B611 R L L A N D V A R L E V G K A L Y S A M L N E Q Q G G V I D D L I V Y L T E Q G Y
UniRef90_C0QGU5 R C H Y T N L F S T L K L G R V R Y G L M L R E D D G G F V M D D G T T A R L G E N H
UniRef90_Q1GEN9 L V Y T N L F S T L K L G R V R Y G L M L R E D D G G F V M D D G T T A R L G E N H
UniRef90_I0HSG3 G Q L T Q D L V R L D A G A V R L A G Y C S A K G R L L A S F V V W R R G P E F
UniRef90_L1QJ50 N L L T Q N V E T L Q P G E L R F G A L L S A P Q G R I M F L M F I W R D E G S V
UniRef90_G2QDJ6 G V L T A N L T H I R T D S G F Y A A F L T A P Q G R I L H D V F I Y G E D G H S W
UniRef90_D6ZBG1 R L T T N V D K P V I G S V V Y T L M L D E R G G V V R S D L T V A R L G A H T
UniRef90_A3VYA8 R L V T R D V A K I A T G R V G Y A L W C D E E G G M V I D D D G T L F H L G P E N R
UniRef90_UPI000476D540 R L V P R N M E K C A V T G Q C K Y V F V T A P D D G G I I N D P V L L R V I E N R
UniRef90_UPI000381A8B8 G L V T N D I S A V T D G A A V W T A F L T P Q Q G K V I A D L F V V P G T D C L
UniRef90_E2SBQ4 A L T T R D Y L D L P P G R P T D V L L S P Q Q G R I E H A F T G V D D G A T F
UniRef90_A3SLM6 R A T T Q D I E K L K P G R S T Y A C M L N D Q G K F V D D C V I Y R M G P H S
UniRef90_UPI00035FEEE2 T Q C Q D V K R L S P T Q A I Y G V I T L T P Q Q G K T L A D L V V Q V D E Q T T A
UniRef90_G8S7S0 T L T T Q H L S E L S A N Q G S E L L V L S P H G H V E Q H A F V T E D G E T T A
UniRef90_V9VSD6 G L V T N N V D R L D G G L V Y A A L L T P Q Q G K Y L A D F L A A D D G E A V
UniRef90_R4LWD3 T L T T Q Y L S D L R A G S Q G T E L L V L S P H G H V E H H A M V T E D G T T A
UniRef90_H2AV68 L V T P S K F S K L Q E G S G Q L S V L L N D Q G G I V D D D L I V R E R N G F
UniRef90_C7YK10 K V T P S D W A N H G L M Q S K L T T F L W P S G G I V D D S V V T R R E G N D Y
UniRef90_M4MR39 R L I P R D I R K L Q V G Q I Y Y A P W C D E N G Y V V G D G L V F R M D E N T
UniRef90_B6QQL7 K V T P S S L D K L A N N T S T L S C L L D D G G I I V D D T V I S R Q G A F F
UniRef90_D7DIB7 R F F T G V Y T D Q K V G S C R Y V M L L D E S G V V D D D G I A S R L A D D F
UniRef90_UPI00046B2390 G L L T N E L D A P P T R A G Y A H F L N V Q G R T L Y D V I L Y G F Q E G F
UniRef90_UPI000472B84F G L V S N D V A A S P D R L V W A G F L T P Q G R Y L S D F F I R H D A D S L
UniRef90_F8A578 S I T T A Q L A D L A P R T S T E L L V L S P N G H L E H H A A V V D D D G A A T
UniRef90_J3PZL6 G L I T N N L N K L P H S P A L Y T A F L T P P G R L Q F D G F V Y P E H P C L
UniRef90_A3TR59 W L C A D V D V P V G I R T V Y T A M L N A R Q T Y E A D V T V T R V I G Q E F F
UniRef90_L0LKK8 N L I T T D L V S L G A D E A R P G A L L T P Q Q G K I L F D F L I S R T R D G G F
UniRef90_UPI000466C014 N L I T P D L A A L A G E A K P G A L L T P Q Q G K I L F D F L I S R T R D G G F
UniRef90_G4Q9L8 G Q I T Q D I N R V S A G Q A Q F T A Y C N P Q G R L Q A T G V L W R S D E N T
UniRef90_H8FQ63 G L I S N D V T R L S A F D R A L F A A M L T P Q Q G K F L F D L F L A Q A A D D G T
UniRef90_UPI00047AA338 G L V T N D V S Q L A V I G M G M H A V A L T P K G K V V C D M Y I A R T H D D R
UniRef90_A9JRE6 R L L A N T L P K V G Q T N L S H M L T P R G R V Y A E L T V T H T Q P G E
UniRef90_W5WVK9 N L I S Q K V N A M V P G Q A S Y G L I L D G G R V Q H F F G I S C V E D F F
UniRef90_G6XN01 N L I T A D I E N L P A G E A R A A A L L T P Q Q G K I L F D F L I W R D G G D Y
UniRef90_Q2HAI0 R V T P A G I A A L P P G R S T Y A V L M K E D E G G I V D D L M V T R L E G E F
UniRef90_E9EAD6 W A T T G N V S R K P G A V T Y T L L L D E D E G G V R S D I T V A R V R D D L
UniRef90_C5GLB0 G L V T Q N L N T P V P Q S G F Y A A F L N A P G R V L H D V F I Y P V P N Y
UniRef90_L0DKP0 N L T T N D V K R L A V G E K G H E A F V T S L Q K G K T L G Y V T L A S E D R L
UniRef90_B8F7H0 G Q L T C D V A K L A V G E Q S L T C H C D P K G K M S A L F L Y R A T A E Q F
UniRef90_I7DAK6 A M T T S D L A A A P G T V T T L L L G E D G G V R G R L T V A R L G E D E R
UniRef90_UPI0003822454 M L V P R D L T K C K V I G C K Y V F I T A P D G G I I N D P V L L R L G E N H
UniRef90_A5VPK4 A V I T T N L D Q L V P H E L K P G A L L T P Q Q G I L F D F L V S R I G E G L
UniRef90_A0Z437 G Q T T A D F G Q L V N A L D V I P G A F C D V K G R V I A D F R A L I V D P E T
UniRef90_UPI00036A8356 N L V A N K L P K S V G R I N L C H A L N T K A G G V H S E F T I M R E I A E D S
UniRef90_I3D6G3 G Q L T T D V T K L A V G D S T I T A H C D A K G K M S I F R L M R I A E Q F
UniRef90_UPI0002379787 W L T T N Q L A K K P G S V T Y T L S L D A A G G V R S D L T V A R L S E Q R Y
UniRef90_A0A016UKZ9 Y L C S A N I D R P L G T T V Y T G M Q H P R G G Y V T D C T L S R L S E T Y
UniRef90_A0A023X6B5 A V L T R D V P A D R L G A Y A L L L D E R K G R V L A D L E V I R D E D V
UniRef90_UPI00047D8BA5 R V Y T M A H A R Q P V G R V R Y C L M L N D M G S V I D D G V A F R L S E T E
UniRef90_A0A023D1M1 G L V S N S V A E A P G H A V W A G F L T P Q G R Y L A D F F I F S D G E R L
UniRef90_B0SV22 R L Y T G T F S T L A V G R A R Y G V M L R E D D G F Y D D G T T R F A D R Y
UniRef90_UPI00046A44C6 W I A A N V A R P V G S L I Y T Q M L N D R G G I E C D L V V R M A Q D E Y
UniRef90_A0A058ZLV0 R I Y A N M M G T L A V G K T R Y G L M L R E D D G F A Y D D G T C A R L G D H
UniRef90_Q1GF49 G L V S N D V N K V Q D G L V Y A A I L T P Q Q G K Y L A D F F L A A D G D A V
UniRef90_UPI0001D55AEF H L F A N V I P K V G F T N I S H M L T P K G R V Y A E L V S H Q S P G E F
UniRef90_X7F7K4 G L V T N D V E R V A Q G L V Y A A L L T P Q Q G K Y R A D F F M A P D G H D L
UniRef90_S6HRK7 L I S P R D L K C A V I G Q C K Y V L L T N A E G G I I N D P I L L R L A E N H
UniRef90_C3Y1M9 Y L F V N E L P Q V G R T R I S H M L T T S G G V Y A E M T V T R L G D H F
UniRef90_UPI000365C8C6 L V L S Q H L T E L G E N Q G T E A L V L D S Q G R V D C H M L V A H H E V V
UniRef90_W9CNZ6 G V I T N D I Y K E G G K A G F Y S A F L N A Q G R V L N D V W V R D G N N W
UniRef90_UPI00037A452E S L I S N D I N L T D D G L V Y S A L L T P Q Q G K Y L A D F F V V P L E D A F
UniRef90_UPI00036108A6 N L L S N D V G G L A P G R A A Y A A L L T P Q Q K I A V D L L A S A L P G G V
UniRef90_A9H151 G L V S N D V A A V A P G Q A V W T A F L T P Q Q G K W Q A D F F L F A D G E R L
UniRef90_A0A017HPW8 G L V S N D L R G L K E G L V Y A A L L T P Q Q G K Y L A D F F L V P D G E R L
UniRef90_UPI0003773940 G Q L T T D V I G L A S G A T T I T A H C D P K G K V N A L F L L K V S E Q F
UniRef90_UPI0002557ED5 F V Y A N K F S T L A E G R V R Y G L M L R E D D G H V M D D G T T A R I S E H Y
UniRef90_UPI00036C99A9 K V Y V N A F G S L A V I G K A R Y G L M L R E D D G M A M D D G T T T R L S D H Y

UniRef90_G9N9W5
UniRef90_UPI0002F80E7A
UniRef90_C6AQ72
UniRef90_A4AIH1
UniRef90_UPI00035D565A
UniRef90_I1AZZ3
UniRef90_UPI0002D466F8
UniRef90_F2IZ30
UniRef90_F9WYF5
UniRef90_UPI000474BC71
UniRef90_B7RZS6
UniRef90_A0A010QE84
UniRef90_A6DLP1
UniRef90_C7MDX5
UniRef90_UPI000382CF10
UniRef90_B9R386
UniRef90_A6U7D2
UniRef90_UPI0003679C4
UniRef90_F3KGM7
UniRef90_UPI00046A46A5
UniRef90_A0A021VV87
UniRef90_W5P8A3
UniRef90_UPI000289BDF7
UniRef90_X6HYZ7
UniRef90_A0A011VM54
UniRef90_U2B611
UniRef90_C0QGU5
UniRef90_Q1GEN9
UniRef90_I0HSG3
UniRef90_L1QJ50
UniRef90_G2QDJ6
UniRef90_D6ZBG1
UniRef90_A3VYA8
UniRef90_UPI000476D540
UniRef90_UPI000381A8B8
UniRef90_E2SBQ4
UniRef90_A3SLM6
UniRef90_UPI00035FEEE2
UniRef90_G8S7S0
UniRef90_V9VSD6
UniRef90_R4LWD3
UniRef90_H2AV68
UniRef90_C7YK10
UniRef90_M4MR39
UniRef90_B6QDL7
UniRef90_D7DQB7
UniRef90_UPI00046B2390
UniRef90_UPI000472B84F
UniRef90_F8A578
UniRef90_J3PZL6
UniRef90_A3TR59
UniRef90_L0LKK8
UniRef90_UPI000466C014
UniRef90_G4Q9L8
UniRef90_H8FQ63
UniRef90_UPI00047AA338
UniRef90_A9JRE6
UniRef90_W5WVK9
UniRef90_G6XN01
UniRef90_Q2HA10
UniRef90_E9EAD6
UniRef90_C5GLB0
UniRef90_L0DKP0
UniRef90_B8F7H0
UniRef90_I7DAK6
UniRef90_UPI0003822454
UniRef90_A5VPK4
UniRef90_A0Z437
UniRef90_UPI00036A8356
UniRef90_I3D6G3
UniRef90_UPI0002379787
UniRef90_A0A016UKZ9
UniRef90_A0A023X6B5
UniRef90_UPI00047D8BA5
UniRef90_A0A023D1M1
UniRef90_B0SV22
UniRef90_UPI00046A44C6
UniRef90_A0A058ZLV0
UniRef90_Q1GF49
UniRef90_UPI0001D55AEF
UniRef90_X7F7K4
UniRef90_S6HRK7
UniRef90_C3Y1M9
UniRef90_UPI000365C8C6
UniRef90_W9CNZ6
UniRef90_UPI00037A452E
UniRef90_UPI00036108A6
UniRef90_A9H151
UniRef90_A0A017HPW8
UniRef90_UPI0003773940
UniRef90_UPI0002557ED5
UniRef90_UPI00036C99A9

UniRef90_G9N9W5 HA WND T P G S Q L N I A P N E S R L V F E D P R A P G L G Y R
UniRef90_UPI0002F80E7A N Q S D L L L P E N L Q L P S E C F A V T H T D E Q C C Y Q L S D N F Y L
UniRef90_C6QA72 T K G I E S W D S D S P S S N D S I S V R D D R F R E P A A A W R
UniRef90_A4AIH1 D L G L P V A V S H E I P L V W N D S W A A V A R G G H Q Y S R K E Q H P G A T
UniRef90_UPI00035D565A T G A T D Y L N T F G F P A C K Q H W L S S C S R K K G E D S F T
UniRef90_I1AZZ3 R H S R A L L T E L F W T A P D K T G G F Q G T P V M L S R T G Y T G E L G Y E
UniRef90_UPI0002D466F8 A G S I T E V P G D W V V R E T P H G R D
UniRef90_F2IZ30 T D E A P S G A G S A V R D P R L P V L G F R
UniRef90_F9WYF5 P L A A E I L Q S S L S S A C K V E F S K W Y F G N V A S R G G Y T G E D G F E
UniRef90_UPI000474BC71 P K S R D V L R A A F G D T P T D L K Y Y W F M E Y D W E R T G W S S E L G Y E
UniRef90_B7RZS6 P K S A E I L Q E V L D P A D G L D L S S L Y F G T T G F A R G Y T G E D G F E
UniRef90_A0A010QE84 T D S S E L I S N M N I H Q I E P E K L Y V H D Q H L L L T M G M L G L D S S I
UniRef90_C7MDX5 P K S Y A V M R D L L G E A V A D D F T L D G I D V T V S R T G Y T G E L G Y E
UniRef90_UPI000382CF10 P L A R R L L D P L L P F M G C A E T T L G G A P A R L F R I S F S G E E G Y E
UniRef90_B9R386 V A A H A P A A A E L G F M A A A P M E F D G I A C H I A R A G Y T G E D G V E
UniRef90_A6U7D2 E D A P A G S Y R D H R F E K A G V S V F R
UniRef90_UPI00036797C4 P R S R D V I T S L L D E W P F M A C G E V K V M G V K F R I S F S G E L G F E
UniRef90_F3KGM7 P I A H T L L D A N S P D N I A E E T S L F N K P C I V S R T G F T G E R G Y E
UniRef90_UPI00046A46A5 E P V D A E G A E G E P V T W R D P W P R V L P G G T R Y H P G A D R A W R L V
UniRef90_A0A021VV87 P R A P G E A G G G V P P R K T A E C A D I L L T R D P R T A C M G W
UniRef90_UPI000289BDF7 P N S R E L L Q S L T D T D L S N E N E I G M A M V R A H R I T Y V I G E L G W E
UniRef90_X6HYZ7 P T S F A V L H E A G F A F D L A E F P H D G G T L T I S R T G F T G D L G Y E
UniRef90_A0A011VM54 P L S R E L L R R V F P F M S A A Q V T V A G V T A R L A R V S F S G E L A Y E
UniRef90_U2B611 P R A R A A D R P D G F V D D P R L P A L G G R R W
UniRef90_C0QGU5 K N S L R L I K H L E D T M P Y F S F K G H M D P A F S P R S G Y T G E F G F E
UniRef90_Q1GEN9 P K A R D L I D L G L D E D V N G E T P F M A C G V I F R I S F S G E H A Y E
UniRef90_I0HSG3 A S A E W P L W G L A G D A A A A L G S S G P A A A W Q R V A P D E A S E V
UniRef90_L1QJ50 D D N S A S P S P I T T L T S S S S S S S P T T T I I T A P D T R A P N L G H R
UniRef90_G2QDJ6 P L A R A L A Q P L C P D D L S H E K F R Y F T A L R T Y R V S Y V I G E L G W E
UniRef90_D6ZBG1 P T A Y A V L C A A G L D Y Y A H L R P F D V E G M L M I S R T G Y T G D L G Y E
UniRef90_A3VYA8 P K A K Q V M V D L F G E Y Y L M E A E I D G M S V V I S R T G Y T G S G E L G Y E
UniRef90_UPI000476D540 A A A S A A P A T L P G V T A F A D P R H P D A G A R
UniRef90_UPI000381A8B8 P L A V D Y L E K H V P G I R D V V Y F S H I H P V T I S R T G Y T G E R G Y E
UniRef90_E2SBQ4 V I A T A W L E G H D N T T P L A C V I T A N D G A L L L V I Q A D G V A D V W R
UniRef90_UPI00035FEEE2 P A A A D L F P D L A E P R V G A V P G P K F T A G T V P L Y D V R P F E G G L
UniRef90_G8S7S0 P P A G A P E A A A T A A R L L G V E L A E P R I F E V P G P K F A A G T V P P E M T A R
UniRef90_U9VSD6 P T A S R V L K F F G Q R Q V F P L K D H S D L N I N V M R G G Y T G E D G F E
UniRef90_R4LWD3 P Q S A E V L S E V L A T D L K L A D G S K T H P V L I S R G G Y T G E D G F E
UniRef90_H2AV68 P R S R E V L E A F Q E L P F S R L A V V T T A G R Q V R Q G F T G E H G Y E
UniRef90_C7YK10 P L A P S V L Q S Y I F T G E G E D P A L T D L D L T L Y F R T G Y T G E D G F E
UniRef90_M4MR39 P A A R E I L S T L Y P M S S V R E S Q V A A V E T R M I R V A F V A D N G Y E
UniRef90_B6QQJ7 P A A R E I L S T L Y P M S S V R E S Q V A A V E T R M I R V A F V A D N G Y E
UniRef90_UPI00046B2390 E T V P D A L P C T S E P G G T L P L Q E L I T E T A I L T C D P R T V R M G W R
UniRef90_UPI000472B84F A E G D E P V T W R D P W P A V V E G G T R Y G P P A A E H P G A D R A W R L V
UniRef90_F8A578 H P L D D I H T L L A S P S L L D Q P S Y H V W K D F R G D Q R L G Y R
UniRef90_J3PZL6 P R S R E L L S A L S P D D T S R D V R L G R A T V R A T R I T Y V I G E L G W E
UniRef90_A3TR59 D N A T H G P K D S
UniRef90_L0LKK8 D D S S A S Q S D S R V R D L R F A E P
UniRef90_UPI000466C014 E N E N D L T N G G I P H F P L L H C D S K E G L F S I G F P S P D S N K N R K
UniRef90_G4Q9L8 D G A A A R D G A A A R L G V A A P A G S T A P F A D P R L A A A G V R L L
UniRef90_UPI00047AA338 A N A V I Q A V A N L G G E W P V W S H G M W N I G P V S V R P V M G S L P G F V
UniRef90_H8FQ63 P K A R T L L Q K L T S A D L S E S G F R F L Q C R T L I R I S Y T G E L G W E
UniRef90_A9JRE6 G L F A E A S A F H L S D P S D L A V Q I P A D I T V H L W R S H L L G D A V D
UniRef90_U5WVK9 E T A P V A G V R D G R F A K A G I D L F R
UniRef90_G6XN01 P E A E G I V K S M V L A E G E E L N K R R L G F G Q S A W R G G Y T G E D G F E
UniRef90_Q2HAI0 P K A R E I L V S Q V T S D D F S D K G S L A G I P V T A M R L S Y V I G E L G W E
UniRef90_E9EAD6 E E D A G I M E Y D F Q L E N G K S P P F T C V D T R A P G F G F R
UniRef90_C5GLB0 A S A D L V R L A G A D L P T E G D L N H G S T A I G G S P V I Q T G Q P G L T
UniRef90_L0DKP0 T T S G E I I A K F N E N V T A
UniRef90_B8F7H0 P L A G E V L P G L S T T D L S A E E T Y A G D V P I V A L R L S T G E P G W E
UniRef90_I7DAK6 P K S R D V M V D L F G E Y Y C A E F E L D G M R V V S R T G Y T S E L G F E
UniRef90_UPI0003822454 P E S L V S V C W Q G D S P A S D N D S I K R D S R F P A Q L N
UniRef90_UPI0003822454 S E A H H H F D V D Q K L T E G N R A A A V A A G W L I P L G H Q T S L
UniRef90_A5VPK4 P K A R E I L M K R V F K W L S A K T V D I G Y A P V N A M R V N F V I G E L G W E
UniRef90_A0Z437 E N C G E I S A N F
UniRef90_UPI00036A8356 P L A R A L V Q P L F G F F K N K P A F I G G V P V T A M R L S Y V I G E L G W E
UniRef90_UPI00036A8356 P S S R Y L M A M S T D P T F R C Q E L N I G M A T G I R T H C G E L G W V
UniRef90_I3D6G3 P G A R S L P G L D L S G K E H R R V T F G E V A A T A Y V P S T G P S G G V C
UniRef90_UPI0002379787 L F A R K V L E A L G G D I D L S P D G F P Y C P A R V M R I G F T G E L S Y E
UniRef90_A0A016UKZ9 P Q P S D P L A A P D P R L P G A G W R A L
UniRef90_UPI00047D8BA5 P A S R A L I A D L T A P M A A A E L E W E G L P A R L F R L S F S G E L A Y E
UniRef90_A0A023X6B5 P K A R D I L A A V T R D D T A K T I G I A G C P V N A L R V T Y V I G E L G W E
UniRef90_UPI00047D8BA5 P R S R E L L S R I V D D F D L S N D A F P F M A C A E F R I S F S G E L A Y E
UniRef90_A0A023D1M1 P Q A R K V L Q K L T S E D L S D D V F V S N I P V T A I R I S Y T G E L G W E
UniRef90_B0SV22 P A P E G A F A D P R D P A M G W R A Y
UniRef90_UPI00046A44C6 P R S G E I M Q A L F G D Y W H R E Y D L D G T P L I V S R T G W A S E L G Y E
UniRef90_UPI00036108A6 P R S R D V L A K L T S G D L S E E C Q Q L S L G G V R V R A V Y T G E L G W E
UniRef90_Q1GF49 P Q G A E V L E R A G A E P P T A P Y G V V A L P G G G L A R Q V P F R Q V I Y L
UniRef90_UPI0001D55AEF E E D R K V W S L W G G E G E G E G I G W M D G D R G I V C V D N R A P G M
UniRef90_X7F7K4 P P A P E G A F A D P R D P A M G W R A Y
UniRef90_S6HRK7 P R S G E I M Q A L F G D Y W H R E Y D L D G T P L I V S R T G W A S E L G Y E
UniRef90_C3Y1M9 P R S R D V L A K L T S G D L S E E C Q Q L S L G G V R V R A V Y T G E L G W E
UniRef90_UPI000365C8C6 P Q G A E V L E R A G A E P P T A P Y G V V A L P G G G L A R Q V P F R Q V I Y L
UniRef90_W9CNZ6 E E D R K V W S L W G G E G E G E G I G W M D G D R G I V C V D N R A P G M
UniRef90_UPI00037A452E P P E G A F T D P R H P K L G W R
UniRef90_UPI00036108A6 D G L L P T G L P S L V F D P R L A A L G A R A Y L P A D G T L P E G V I
UniRef90_A9H151 A V P P M L D S A I G A P D P R L A A
UniRef90_UPI0003773940 E A P E G A L S D P R D P A L G W R
UniRef90_UPI0002557ED5 E K C G K I Q P H F T
UniRef90_UPI00036C99A9 P Q S R A L L E E L L P F M G C M P V T V G G I E G R L F R I S F S G E L A Y E
UniRef90_UPI00036C99A9 P R S R E V V A S L V D E G F D V S N E A L P Y M G A K E L T V C G G E L A Y E

UniRef90_G9N9W5 I I T Q L A G P 170 K A P E L D V D Q T T E D A Y T L R R Y L H G V A E G Q
UniRef90_UPI0002F80E7A I L T T K E A S S S L S L P F I A V Q Q M R G S L A W H Q L Q L Q Q K Q I Y I Y
UniRef90_C6AQ72 L L H P T R L A L E P T V E A E A W D L D I Q D G V P S L A
UniRef90_A4AIH1 W N Y R E S L V A V D S D L S D F A A S G S L A F E A L R I A Q W R P W F S
UniRef90_UPI00035D565A L L M H N T T P S A Y W E P H I S A Q H H I N D S A F E A L R I L Q G W P V F G
UniRef90_I1AZZ3 V F C H P K D A P E V F D A L W A A G R P Y G L Q A L D M L R I E S G R P A F A G
UniRef90_UPI0002D466F8 V F V P R G E L A F A D R A G P A A G V L A Y E A L R V I E S G H R P R L G
UniRef90_F2IZ30 L V G P R E G L A R T L A A A G A E D A G E A G W Q A H R I R L G V P E A G
UniRef90_F9WYF5 L S I H P S Q T V E V T Q H L L Q T A T P A G L G A R D S L R I E A G M C L Y G
UniRef90_UPI000474BC71 I Y A A S I R A T A D L A G W H A Y R I E A S G V A E S G
UniRef90_B7RZS6 I F L R D G S A D K L W E H L M A V G T P L G L K P G H T R R I E A G M L S Y H
UniRef90_A0A010QE84 I S F K S T N G E A L K V A G P E R L Q L A G L G P R D S L R L E A G M C L Y G
UniRef90_A6DLP1 L I T K D G S Q P D L G L E M D D E T F K A F R M E A G F P I M D
UniRef90_C7MDX5 I Y V H D A S A E K L W Q L V L E A G E P H G L R P C H I R R I E E G G M L A H G
UniRef90_UPI000382CF10 L A V P A R F G A S L W R L A V A Q A E P Y G L E A L N V L R L E A G M C L Y G
UniRef90_B9R386 M S V P A G A E A I A R A A D D R V E A I G L G A R D S L R L E A G L C L Y G
UniRef90_A6U7D2 L Y R D L P S A E A G I A D F D A L R I E A G L A V A G
UniRef90_UPI00036797C4 V A I P S R Y G A S L F N A E Q H G G G I Y G M E A M N V M R L E A G M C L Y G
UniRef90_F3KGM7 I F A S A D V I G S L F N A E Q H G G G I Y G M E A M N V M R L E A G M C L Y G
UniRef90_UPI00046A46A5 A D P R H S A L G W R A Y R D I A Q Q D D T V D W D A L R V A H L V P E T G
UniRef90_A0A021VV87 L V P R A G L A D A V A A R E A A G W R L A G T W A T E A L R V A W R P R F A
UniRef90_W5P8A3 R L L S Q D E G S A L V P G G R L G D L Q D Y H R H R Y Q Q G V P E G V
UniRef90_UPI000289BDF7 L Y F P I E F S N Y I A E L I E S I G K F C G M H S V D S C R I E K A Y R H F G
UniRef90_X6HYZ7 L F V P A E K A L G L W D R L M T A G R A I G Y A A L N R A R L E A G L I V A N G
UniRef90_A0A011VM54 L A I P A Q Y G D S L L R E L M R Q G C L Y G T E A L A I M R I E K G H V A G
UniRef90_U2B611
UniRef90_C0QGU5 I F I A P E K A V D L W Q D R S Y N V I P Y C G L E A R D S L R A G A V L P L S H
UniRef90_Q1GEN9 I A V P A R Y G E A L Y E R L L E A E P P L E P A L J A P E A W A W L R V H S A V P R I V
UniRef90_I0HSG3 L R L D D V I Q G V A R W G A E P P L E P A L J A P E A W A W L R V H S A V P R I V
UniRef90_L1QJ50 G D Q S E T D A T E A D W Q A H R L A L G V P D P T
UniRef90_G2QZJ6 L I T F S P S S S S S A A D G R F P L L P T E A A Y T L R R Y L H G V P E G Q
UniRef90_D6ZBG1 V Y A S A E H G R A L W D V L R E A G R E A G R V A F N S L R V I E K G Y R L W G
UniRef90_A3VYA8 L W T A W G D A L P L W D R L W Q A G R A I G Y E A V N I A R I E A G Y M V A G
UniRef90_UPI000476D540 I Y L R D A Y G E Q L W Q R V F E A G R P H G M Q P C H I R R I E A G I L A F G
UniRef90_UPI000381A8B8 L I G P D S A L P P G T A A D L L T W Q R H R L S L G L P E G S
UniRef90_E2SBQ4 V R P R A D L A S L P A V L G D P V G S W A W E A L R I E A G R P R I G
UniRef90_A3SLM6 I F C R R Q D A P L I W D T I V E E G I P T R F T T L D L R A E N S E M Y P F
UniRef90_UPI00035FEEE2 I A A T E W Q A V D G A E L L N A D E Q E Q L R T A A G I P R F G
UniRef90_G8S7S0 V R R V P L G V D L L V P R H A K T V A R A G L W A Y E A I R V A A R V P R L R
UniRef90_V9VSD6 H A D P R H A A M G W R V Y G A E G D D G S D W D A I R V A H C I P R T G
UniRef90_R4LWD3 Y D V Q P F D G G L A R R D V L A D V P R A G L W A Y E A V R V A H K I P R L G
UniRef90_H2AV68 I A L N E S V S P D F A S D A N E Q V K P I G L A G R D S L R L E A G M C L Y G
UniRef90_C7YK10 I S T S P A I E A L L A K A G P E R L Q L A G L G S R D S L R L E A G M C L Y G
UniRef90_M4MR39 L W V K A E D G P T V W D A V E A A G R P A G A W A L D V A R L E A G L L I V G
UniRef90_B6QQJ7 L S I P T S D G A E L L I S Q P D K C R L A G L A R D S L R L E A G M C L Y G
UniRef90_D7DIB7 L H A P M G Q I P H L W N A L I A A G R P F G S D T Q R L R L E A G M H A M P G
UniRef90_UPI00046B2390 L I T Q D E G P V L V T R G R L G D L R D Y H R Y R Y L Q G V P E V C
UniRef90_UPI000472B84F V P R P S V I T P E P S L E S Y H A H R I T G L G L P D P S
UniRef90_F8A578 L V P R G E L A A A V A A R E A A G W P L A G T W A E A L R V E A W R P R A A
UniRef90_J3PZL6 I I G N P E S A P E L K S L A Q L P E A P L I S T Y A L H V L L H A S L P H S L S
UniRef90_A3TR59 L Y V P T D A A G V E G G V G G V E V V P A G Y A I E A M R L E A K G Y R A F A
UniRef90_L0LKK8 R F A K A G I V L T R T P N E H G G D P E T L Y D T L R I A N G I A V S G
UniRef90_UPI000466C014 V W R H H E A A L A A T T D E T A W T A L R A E N G I A E S G
UniRef90_G4Q9L8 L T I K I A Q E G V Q T D E N E Q L S E E S L R W L S E D I R S G L A W V T
UniRef90_H8FQ63 L P E G G E T A L A A A G L T P G D L G E W D R A R I G L G L A D G A
UniRef90_UPI00047AA338 I M A D V R D A E I V R E R L E A S T R R A S R A V W N I A R V I E G G R P A F G
UniRef90_A9JRE6 L Y M D M R N M S A V Y Q A L M E A G R D E N I D A M N S L R L E A G M C L Y G
UniRef90_W5WVK9 V W I D R D K V T E A W D A F T R E L S P T G M M A Y D A R M M A R I P D L S
UniRef90_G6XN01 L P G A S A S G D V A A Y D A L R V I D H G I A E G R
UniRef90_Q2HAI0 I S I L A D E T L R G V T E A L L E A G G P A G L G A R D S L R L E A G L C L Y G
UniRef90_E9EAD6 L Y A S A E N G L V R L W D A L W K A G G A A G R S A F N S L R L E A G F R S W G
UniRef90_C5GLB0 F L A P E K V V N E Q P I M P G E M V D F A T Y N L R R I L H G V P E G Q
UniRef90_L0DKP0 I L G G L A D A P K V A A Q L H S L G E R L D P A L W D L R I E A G T P A F G
UniRef90_B8F7H0 C Y L D E E P K R A I F W G D I V V E T N G D S R L W N L I D I E Q G V P L L Y
UniRef90_I7DAK6 L H T T A D F G R R L W D T L R D R G V A V A G H Q A L A L R L E A G V T T P G
UniRef90_UPI0003822454 I Y L R N A D G V R L W D R V L E A G T P H G T E P C H I R R L E A G G I L A W G
UniRef90_A5VPK4 V L R L Y H Q A S A N A G L D A W V Q L R A E Y G I A E G E
UniRef90_A0Z437 L J P E D A K Q V G I N L N N K S I D E F E S A W R A L A C L R G E A R I T
UniRef90_UPI00036A8356 L H H P I E Y Q N H I F D K L M E A G Q P Y G I R A M N S L R I E K S Y K L I G
UniRef90_I3D6G3 N V K L I A N A E L I J N P K D N L E F N G S V D W D L F E I Q Q G M P I L S
UniRef90_UPI0002379787 L Y T D A D Q G R K L W D V L W D A G Q A A G R S A F N S L R L E K G Y R S W G
UniRef90_A0A016UKZ9 I Y I P N E S A Q N V Y E R I V E A G R H A G Y E T L R Q L R I E K F Y V Y W G
UniRef90_A0A023X6B5 L L V P E E S A P R L F E A V L A L G T K L A G E Y E T A R I V E A R P R F G
UniRef90_UPI00047D8BA5 L H V P Q S F G A A L W R K L L E V G Q P Y G L E A S R I L R L E K G H I I I G
UniRef90_A0A023D1M1 V A M P E A E L D E F A A Y E A H R I A L G L P S P V
UniRef90_B0SV22 L C V P A S A G D A L V R R L F E L G T P Y G T E A L G V M R I A L G H V A G
UniRef90_UPI00046A44C6 L H L P V E Y A T T V Y E A L H K A G A E A G Y R A I E T L R L E K G Y R A W P
UniRef90_A0A058ZLV0 L A V P A R Y G H A L M E R L M E Q G T P Y G L E A L G V L R I E K G H A A G
UniRef90_Q1GF49 G A L P D R P H P A L G W R Q Y G K E T F D D G S D W D V I R V T H V I P E T G
UniRef90_UPI0001D55AEF L Y H R R E D S V A L Y D A I M N A G Q E E E I D A M N A L R L E A K A F R A W G
UniRef90_X7F7K4 D G R P S E Q G V L D W D A L R L E A Q L V P E S G
UniRef90_S6HRK7 L Y L D G S K G D L L W E K I M A A G Q P L G L Q P G H T R R I E A G M L S Y H
UniRef90_C3Y1M9 L Y H A R E D T A R L Y E A L M S A G Q E F G L G A M G S L R L E K G F R G W G
UniRef90_UPI000365C8C6 L V P R A S M V D W W R L L T D S G A R R A G T M A Y E A L R V L E A L R P R A G
UniRef90_W9CNZ6 G K R I I S N R N A E L Q M E D Q E L R V Q G E D M Y R V K R Y L I G V P E G Q
UniRef90_UPI00037A452E L Y S I D S E K F N Q P I N W T K L R V I D Y V I P E Y G
UniRef90_UPI00036108A6 D V I G P E G W R A H R V T L G V P Q G G
UniRef90_A9H151 L I L P R T P D A A D H A A Y D A H R L A L G L P D G S R D C E G K T L L
UniRef90_A0A017HPW8 L Y G P E G G D D G T D W D R L R V I E H V I P E T G
UniRef90_UPI0003773940 L E I D E Q R A E L L N E T S L A V T F N A D E K E W D I A D I Q A G I P H L S
UniRef90_UPI0002557ED5 L A V P S Y G E S L F A T L V E R A E A Y G M E A L N V L R I E K G L L T H
UniRef90_UPI00036C99A9 L A V P A R Y G D A M L R A I V K A G C P Y G A E A L A V M R I E K G H A A G

UniRef90_G9N9W5 DEIQREQLPQLESNMEYMNGLVDFFHKGCYVVGQELTIRTKHRG
UniRef90_UPI0002F80E7A PETRGLFLPLHRLDLHLISGYLSFDKKGCCYKGGQELIARTHYK
UniRef90_C6AQ72 AATQLLEFLPQALNLDLLERAISFQKKGCCYKGGQELIARTHYK
UniRef90_A4AIH1 TETVDDRSIPQALNLDLLERAISFQKKGCCYKGGQELIARTHYK
UniRef90_UPI00035D565A ILEWDEKLPPLNANLVFDFGVDFNKKGCYVVGQELTISRMRHWRG
UniRef90_I1AZZ3 HETDDADDPFEAGLWGFVPLKSKKEADDFSGKAAAL
UniRef90_UPI0002D466F8 RETDHRTPPEHGLWVIGGAVHLJAKKGCYKGGQELIARTHYK
UniRef90_F2IZ30 ADFAGDAFPHDADMQLSGLVSVFRKKGCCYVVGQELVSRMEHR
UniRef90_F9WYF5 SLDLNDLITPVEGALAWLTLPKDFFRSGGEFNGAETI
UniRef90_UPI000474BC71 SDYAGDAFPHDVLGLDETNGLVKGDFRKGCCYVVGQELVSRMRHHRG
UniRef90_B7RZS6 ADMTLANNPYEMGMDRRLVDLEMDADDFVSKAAALTSIRER
UniRef90_A0A010QE84 HDLDDDTTPVEGSLSWLPKKEERTKGGFHGAETIANKQ
UniRef90_A6DLP1 HDYDQKTLPLPETGLQLHCYSYTKGGFTGQELVARKYRG
UniRef90_C7MDX5 ADITVQTTPEFVGMGYDWMVDLEEAADFVGGKDALRRLKAE
UniRef90_UPI000382CF10 AEMDGRRTAYDLGLGIGGMVA
UniRef90_B9R386 HDLDETTSPVEGNLITGQKR RRRDEGGFLGAEERIQKELADG
UniRef90_A6U7D2 RDYAQDAFPHDVLMDLNGGLSFRKKGCCYVVGQELVSRMQHRG
UniRef90_UPI00036797C4 AEDIDGRATAYDLVGMQRM LSGKQKDFIIGNKMAQR
UniRef90_F3KGM7 FDIVSENQTPWEAGLIGWS IIGKDKKDYIIGNKMAQR
UniRef90_UPI00046A46A5 VEELTPDTFILLEAGFERLHGVDLFRKKGCCYVVGQELTARMKHK
UniRef90_A0A021VV87 HEVDHKTLPHELDWLRRTAVHLHKGCCYRGGQELVARTHYHNLG
UniRef90_W5P8A3 HDLPLGVIAPLLESNLGLAFMNGI VSFTKKGCCYRGGQELTARVHMLG
UniRef90_UPI000289BDF7 HDLITDEDHVLDEAGLGFV VVKPKKGGKFIIGYDAVKKKQTNG
UniRef90_X6HYZ7 ADETTDRLRMPDEILGLGFMVA LGGKGFHNGRRRAIARAKRK
UniRef90_A0A011VM54 EELNGHTTAAADLGLGKMMSS AKKDYVGRILLAQR
UniRef90_U2B611
UniRef90_C0QGU5 QDEILNGTSWKFIDLNGHPWMFALVSLKPKDGFVIGDKAL
UniRef90_Q1GEN9 AEILNGTIVTAFDILNMQGLVSNFKKSGCCYVVGQELVARSQYRG
UniRef90_I0HSG3 AATVEQFVPLQMLNLELVGGVSNFKKSGCCYVVGQELVARSQYRG
UniRef90_L1QJ50 ADTQDKATYPLIEADFDLLNGIDDFHKGCCYVVGQELTISRMRHRG
UniRef90_G2QDJ6 AEILHGGKALPHESNLDDLTGAVDFFRKKGCCYVVGQELTISRMRHRG
UniRef90_D6ZBG1 TDVTTTEHTPAQAGLGLF AVVRMKGKGGDFVIGR
UniRef90_A3VYA8 VDFQPAHATERVHGLGLGPMVDDLRTKGGHFNGRALATKPR
UniRef90_UPI000476D540 CDLWYDHTNFEVHGMGYNWMVDLDRDDEGGRALERIKAE
UniRef90_UPI000381A8B8 ADLPEQGFALIEYGFDDLNGVDFRKGCCYVVGQELTARMKWK
UniRef90_E2SBQ4 LDDTDERALPNEGLGLGSAVHLDKKGCYRGGQELVARTHYHNLG
UniRef90_A3SLM6 EDEPHGDTLWELGLDFT VSKGKTGFRGAEHYRLK
UniRef90_UPI00035FEEEE2 HDWGA GDYPLNANLREMDGI VSFDKKGCYVVGQELTISRMRHWR
UniRef90_G8S7S0 HETDHRTPPEAGFMATAVHLDRKKGCCYVVGQELVARTHYHNLG
UniRef90_V9VSD6 IELGPEPSYLIEAGFELNGVDFDRKKGCCYVVGQELVARTHYHNLG
UniRef90_R4LWD3 WETDHRTPPEAEELLAAPAVHLDKKGCYRGGQELVARTHYHNLG
UniRef90_H2AV68 NELEDENNTPVIEASLKWLTJAKDRR
UniRef90_C7YK10 HDLDDDTTPVEAGLWLPQARRQS GGFHGAETI
UniRef90_M4MR39 YDYTGKFRASPFDLGLGLRGLVD FKKSGDFIGRTALERL
UniRef90_B6QQL7 HDLITSAQTPTAALGWVVG
UniRef90_D7DIB7 VDTDGLTNPPEIAGADW I KMSKPYFIIGQRS
UniRef90_UPI00046B2390 DLPPLGVIALPLIESNLAFMNGI VSFTKKGCCYVVGQELTARTHYHNLG
UniRef90_UPI000472B84F DCESEKTLLEIANFDWLNGLISFQKKGCCYVVGQELTARTHYHNLG
UniRef90_F8A578 READHRTLPHELDWLRRTAVHLHKGCCYRGGQELVARTHYHNLG
UniRef90_J3PZL6 PYPVITLPLFEANLDYHGGVDFRKGCCYVVGQELTARTHYHTG
UniRef90_A3TR59 RELTTDWGPHVIEAGLTFACKLRTSDFLIGREEVVSRMAKARG
UniRef90_L0LKK8 LDFAGDAFPHDVLMDLNGGLVSGFKKGCYVVGQELVSRMRHHRG
UniRef90_UPI000466C014 ADFS SDVFP HDVLYDQNGGVGLKKGCCYVVGQELVSRMQHRG
UniRef90_G4Q9L8 KDIYGLFLLAQNLDLSDINAI SFSFKGCYVVGQELVARTHYK
UniRef90_H8FQ63 RDMPEKALLLENYELAGVDFSEKGCYVVGQELTARTHYRG
UniRef90_UPI00047AA338 VDMDENTLPLQEANLDTLGA I SFTKGCYVVGQELVARTHYFRG
UniRef90_A9JRE6 AEMNCDNPLIEAGLDYF I KLNKAGDFVIGQKALLEIKANQ
UniRef90_W5WVK9 VDVDEKVTLPHEVAFPTSAAV HLNKKGCCYVVGQELVSRVHNLG
UniRef90_G6XN01 DYALIQDAFPHDVLMDVNDGVSVFRKKGCCYVVGQELVSRMKHRG
UniRef90_Q2HAI0 HDLSETTTPVVDASLRWVVKQR RRGPDYFYGAEVISEQFE
UniRef90_E9EAD6 TDMTEHTNPNYEAAGLVFAVVKMD KKGAFVIGQSVL
UniRef90_C5GLB0 GEIREESALPMECNMMDIMGATDFHKGCCYVVGQELTIRTKHRG
UniRef90_L0DKP0 REVTENLPLQETGRDNRAISFVKGCCYVVGQELVARTHYHNLG
UniRef90_B8F7H0 KANQFELPLQETNLQLLDAI SFTKGCYVVGQELVARTHYK
UniRef90_I7DAK6 VDFTTEDHPVEAGLID SAVRLDKGYFLIGRDALALA
UniRef90_UPI0003822454 CDLITDNFPEVIGYGVVSWMVDLKEADDFVIGQKALRRDRDNG
UniRef90_A5VPK4 ADFYGDVFP HDVNFVDFDQTVGVV SFPKGGCCYVVGQELVSRMRHHRG
UniRef90_A0Z437 SSTTGKYLPLQDLSYDLAGWV SFDKKGCCYVVGQELIARLHWRG
UniRef90_UPI00036A8356 TELSLIEYSPEYSGLDKFI HFNKGNFVIGLDAINKWREKRG
UniRef90_I3D6G3 AKTQSEFPLQAVNLQCEHAI SFGKGCYVVGQELIARAKYRG
UniRef90_UPI0002379787 ADMTEHTDPEAGLVGF AVVRMDKDFLIGRAALEHREAR
UniRef90_A0A016UKZ9 QDIDATVTPVEIG RSRFVDFFKDFLIGQETVARTHYHNLG
UniRef90_A0A023X6B5 TDVTAANTPPEAYLDR SAVVDFDKGCGYVVGQELVARTHYRG
UniRef90_UPI00047D8BA5 QDTDALSTPDELG MW ALSKAKTRYLIGKTAIARGK
UniRef90_A0A023D1M1 DCDVIEKTLLEADFDALHGV SFTKGCYVVGQELVARTHYR
UniRef90_B0SV22 PELNGQTTAADLGLGRMMS T KGDYIGR
UniRef90_UPI00046A44C6 SDIGPDHTPDEAGLGVAVKMKQN DFKGRAAVEAQR
UniRef90_A0A058ZLV0 AELNGQTTADMLVGLGRM VSKKGD
UniRef90_Q1GF49 IELTPDSYDLVGFERLNGVDFRKGCCYVVGQELTARMKHK
UniRef90_UPI0001D55AEF SEMNCDNPLIEAGLIEYF VVKLNKAGDFVIGQKALQKAKG
UniRef90_X7F7K4 IELTPDTFILLEAGFERLNGVDFRKGCCYVVGQELTARMKHK
UniRef90_S6HRK7 ADMDLNTNPNYELGLDRLLDL VLDGDGDFVIGQETVARTHYHNLG
UniRef90_C3Y1M9 AEMTVDNPLIEAGLDSF I KMNKAGDFVIGQKALQQLQVQEG
UniRef90_UPI000365C8C6 LEDTDERALPHELGW IHTAAHVAKGCYVVGQELVARTHYHNLG
UniRef90_W9CNZ6 DEITRETAALPQESNVDSMGG I DYA KGCYVVGQELTIRTKHRG
UniRef90_UPI00037A452E SELETGESYILLEMGFERLNGVDFKKGCCYVVGQELTARMKHK
UniRef90_UPI00036108A6 LDFYGDAAFPEACMEQLNGLISDFKKGCCYVVGQELVSRMRHHRG
UniRef90_A9H151 IELTPETYLEAGFERLHGVDLFRKKGCCYVVGQELTARMKHK
UniRef90_UPI0003773940 ATMQNEFLPQAMNLQALQAVV SFTKGCYVVGQELVARTHYR
UniRef90_UPI0002557ED5 AELHGRTTAYDLGLERLMS P SFIIGKAAATRA
UniRef90_UPI00036C99A9 PELNGT TGA D LGMGRMMS KKKDFIIGRAMAGR

UniRef90_G9N9W5	<input checked="" type="checkbox"/>
UniRef90_UPI0002F80E7A	
UniRef90_C6AQ72	A
UniRef90_A4AIH1	
UniRef90_UPI00035D565A	
UniRef90_I1AZZ3	
UniRef90_UPI0002D466F8	
UniRef90_F2IZ30	
UniRef90_F9WYF5	
UniRef90_UPI000474BC71	T
UniRef90_B7RZS6	<input checked="" type="checkbox"/>
UniRef90_A0A010QE84	
UniRef90_A6DLP1	
UniRef90_C7MDX5	
UniRef90_UPI000382CF10	
UniRef90_B9R386	T
UniRef90_A6U7D2	T
UniRef90_UPI00036797C4	
UniRef90_F3KGM7	
UniRef90_UPI00046A46A5	
UniRef90_A0A021VV87	
UniRef90_W5P8A3	<input checked="" type="checkbox"/>
UniRef90_UPI000289BDF7	
UniRef90_X6HYZ7	
UniRef90_A0A011VM54	
UniRef90_U2B611	
UniRef90_C0QGU5	
UniRef90_Q1GEN9	
UniRef90_I0HSG3	T
UniRef90_L1QJ50	T
UniRef90_G2QDJ6	<input checked="" type="checkbox"/>
UniRef90_D6ZBG1	
UniRef90_A3VYA8	
UniRef90_UPI000476D540	<input checked="" type="checkbox"/>
UniRef90_UPI000381A8B8	
UniRef90_E2SBQ4	
UniRef90_A3SLM6	
UniRef90_UPI00035FEEE2	
UniRef90_G8S7S0	
UniRef90_V9VSD6	
UniRef90_R4LWD3	
UniRef90_H2AV68	
UniRef90_C7YK10	
UniRef90_M4MR39	
UniRef90_B6QQL7	
UniRef90_D7DIB7	
UniRef90_UPI00046B2390	
UniRef90_UPI000472B84F	
UniRef90_F8A578	
UniRef90_J3PZL6	<input checked="" type="checkbox"/>
UniRef90_A3TR59	
UniRef90_L0LKK8	T
UniRef90_UPI000466C014	T
UniRef90_G4Q9L8	
UniRef90_H8FQ63	
UniRef90_UPI00047AA338	
UniRef90_A9JRE6	
UniRef90_W5WWK9	
UniRef90_G6XN01	T
UniRef90_Q2HAI0	
UniRef90_E9EAD6	
UniRef90_C5GLB0	<input checked="" type="checkbox"/>
UniRef90_L0DKP0	
UniRef90_B8F7H0	A
UniRef90_I7DAK6	
UniRef90_UPI0003822454	
UniRef90_A5VPK4	T
UniRef90_A0Z437	T
UniRef90_UPI00036A8356	
UniRef90_I3D6G3	A
UniRef90_UPI0002379787	
UniRef90_A0A016UKZ9	<input checked="" type="checkbox"/>
UniRef90_A0A023X6B5	
UniRef90_UPI00047D8BA5	
UniRef90_A0A023D1M1	
UniRef90_B0SV22	
UniRef90_UPI00046A44C6	
UniRef90_A0A058ZLV0	
UniRef90_Q1GF49	
UniRef90_UPI0001D55AEF	
UniRef90_X7F7K4	
UniRef90_S6HRK7	<input checked="" type="checkbox"/>
UniRef90_C3Y1M9	
UniRef90_UPI000365C8C6	
UniRef90_W9CNZ6	<input checked="" type="checkbox"/>
UniRef90_UPI00037A452E	
UniRef90_UPI00036108A6	T
UniRef90_A9H151	
UniRef90_A0A017HPW8	
UniRef90_UPI0003773940	A
UniRef90_UPI0002557ED5	
UniRef90_UPI00036C99A9	

1 10 20 30 40
UniRef90_L0ITE0 E Q T N T R T N V T V F D Q T S F S K Y L L V G P G A E A A L Q
UniRef90_UPI000369607F E Y K A L K N H V T M W N V A V E R Q L R V K G P D A E K F T D
UniRef90_Q1N1G5 L I I Q Q G P D S A K F M Q
UniRef90_AOA059F9N1 E H T W T R T H A G L F D V S H M G P C F L T G D E A H A L V E
UniRef90_UPI0002038594 P V G R E C K Q V V E K V G V I D L T P F G K F S L K G S D S V K L L D
UniRef90_S8C5A7 L K T R S V T R F R G P E T L K F L Q
UniRef90_UPI0002A49DFA F P P H H E C L S C R H G V A V F D M S Y F G K F Y L T G P D A K K A A D
UniRef90_HOVSK2 T C F P L H E R A L L R V R V R G P D V A P F L Q
UniRef90_UPI0002064057 L K N K S L L R V R G N G A V L I F L L Q
UniRef90_W0QQZ9 S Q Y R L I D I A G A D E K Y L L Q
UniRef90_V7F9Y3 R E V L A V R N G V G V C D V S T L G K I D I R G S D A C E F L E
UniRef90_UPI0003707090 E Y E A L V N R V T M W N V A V E R Q L R V K G P D A E A F T D
UniRef90_W9G3N3 E Q V A T R E A V A V F D Q T S F S K Y L V A G P D A E R A V L Q
UniRef90_H9GGI1 E E V K C C K E A V C V I D M S S F T K F E I T G E Q A L D V L Q
UniRef90_UPI0004686EE6 P F R E Q R R L A A G T A L A P L D D R T V T E V S P E R L P F L Q
UniRef90_E8UDP0 F A L L K L S G A D V R N F L Q
UniRef90_UPI0003B3EF13 S P V A E Q R A L E A G T G V V D W S P R G V L T V T G P D R L T W L H
UniRef90_W5KGU2 F P P R D E C M T C R N A V A V F N M S Y F G K F Y L S G P D A K K A A D
UniRef90_AOA016SLL0 L T H R S I L L L R G S D S L K L L Q
UniRef90_A3SQH0 R E A L Q T R Q S V G L C D V T T L G K I D I Q G R D A E F L N
UniRef90_T0J4W9 L R D R A L L R I S G E A R P F L Q
UniRef90_UPI00034F9DB4 F P P Q H E C L A C R G A A A V F D M S Y F G K F Y L L G P D A R R A A D
UniRef90_B9JUP7 L E N R A F L K V A G A E A H F L N
UniRef90_UPI0002EF85C5 F P P H H E C L T C R N V L A V F D M S Y F G K F Y L V G P D A R K A A D
UniRef90_UPI00042BC801 E E H K A V R E T A G L F D V A H M G V L E V A G E H A T S F L D
UniRef90_X0VEG6 L T D R A L L R I S G E E A K I F L Q
UniRef90_F6EV14 E Y E A L T E A V T L W D V A V E R Q I R V K G P D A E A L T D
UniRef90_M0MQH9 F D L T P R T R V E I S G P E A L S F L Q
UniRef90_UPI000345F134 E A W K T R N A V A M Y D L T S F H R V Q V V S G P G A A T L L Q
UniRef90_G3XXX5 R K E H E A L R N S V G Y Y D F T H Q L L E V K G P D A Q A F L N
UniRef90_E3GI03 Y S P A A A E A W K T R T A V A M Y D L T P I R R L E I S G P G S V D L L Q
UniRef90_H1V974 S P E R A K A D Y E A V R T K A G L M D V S G L K K V H V G E H A A Q V I D
UniRef90_V9VWM0 G G L R T G A D R V D F V Q
UniRef90_UPI000476B1B7 P V R R E V Q N V L N N V S I A D I S A F A K F H I T G K D R S K F L N
UniRef90_T2M409 H E A I R T R A G L M D V S G L K K V H Y V G P H A Q S L L D
UniRef90_UPI0003484B9F M S V T L R S D R A V L R F S G R D A Q K L L D
UniRef90_AOA024K7V3 K E E C E A V R D G A G V L D L P G F S R F N L S G E G A A E F L R
UniRef90_UPI0002DA7E5D L D D R A L L R L A G D D V R G F L Q
UniRef90_UPI0002E55103 L A R L T K R T V L R V A G P D A R H F L A
UniRef90_UPI00047E1162 R T V L S L T G T D V V E F L Q
UniRef90_AOA037ZDC1 Q E C R H V M E K V G I L D M S A F A K Y E V S G K G A E A W L E
UniRef90_UPI00036C1795 R E V L A T R R S V G V C D V T T L G K V D V Q G S D A A T F L N
UniRef90_F7ZK66 N P F A E E Q K L V A G R A F T D L S F M E V V T V G G P D R A A W L H
UniRef90_X4RBA0 P I V E Q R H L E R G D A I V D L S N R G V V T A T G P D R L S W L H
UniRef90_UPI0003B58DDB E A L D A A Y N G V V V V D L S H F G R I R V S G E D R I Q F L H
UniRef90_W9RV97 T C F P L G E R G V L R V R G P D T L K F L Q
UniRef90_K7K525 L K S R S V I R F R G P D S V P F L S
UniRef90_G3T575 E A W K T R T G V A L Y D Q T P I R R L E I A G P G A E L L Q
UniRef90_AOA016Q3F7 Q Q A Y W A L R N R A A L F D V P E R P L E I S G P D V T I E F L N
UniRef90_UPI00037B391F E Y W A C R D A A T V Q D M S G L R K L D I G P D A K Y L L Q
UniRef90_G5ZYB6 E E Y K A V R E A N L V D Y S H M S I T S V M G D D A W A L V N
UniRef90_Y1GEU6 T P E E D F W S L V N D V T L W D V S V E R Q V E I K G P D A S K F T Q
UniRef90_UPI000363958C R E E C L A V R D A A G I L D L P G F S R E T L E G A G A R D W L A
UniRef90_UPI00035E1B3 R E A S S R W H A T L A D R A V L S L T G A G S R K L L Q
UniRef90_R1EPK0 R E V L A T R K S V G I C D V T T L G K I D I Q G T D A G A F L D
UniRef90_S9S0K4 G V K T E H L A V L I S A G M F D T S H M D C I R V R G K D P A L L D
UniRef90_I5B3M7 L P P Q P P R S G Y A R L T S R R L I S I G G V D A P R F L Q
UniRef90_M7S5S2 R E V R Q T R A S V G V C D C T T L G K I D V Q G T D A A D F L N
UniRef90_B9NY89 L L S I T G E E Q L S Y L H
UniRef90_U1JJJ0 R E C R H V A Q S V G L L D M S A F A K C R I A G P K A K E F L D
UniRef90_UPI0004723CA0 E C A A V R S A A G I M D I S A F T K V E V S G P D A G A L L D
UniRef90_Q5LT22 V Y N L R H R G L V R F K G K E V F Q F L Q
UniRef90_AOA044ULA0 E Q R T L A S G E G F V D L S H R D V V R I A G P D R L T W L H
UniRef90_E9UXE9 P L G E Q R A A E T G T I A I D R S Q R R V L R V S G A D A P G F L N
UniRef90_C0WH02 G L M L A R G P Q A V D L L H
UniRef90_UPI000477C34D Y S P A A V E A W K T R T A V A M Y D M T P L R R L E V T G P G A V D L L A
UniRef90_J4UPT3 T D E S C R H Q H E V I R N T V G V Y Y F T H R L I E V T G A D A L V L L E
UniRef90_C6LBU2 N P F G E Q R A E L T L V D R S N R T L L T V T G D D R E T F L T
UniRef90_S2ZGM1 P V Q E E Y W A C K A R V T L M D M S S F A K F E V R G N E A T D F L Q
UniRef90_UPI00035A0CD0 P V G S E Y K Q V M Q K V G V I D L S P F G K F N V R G K E S V K L L D
UniRef90_F7DS18 L E S H K H V R S K A G V F D V S H M F Q L N V S G S S L S F L E
UniRef90_M7NWP5 F P P K K E C L A C R G A A A V F D M S Y F G K F Y L V G L D A R K A A D
UniRef90_Q9UL12 S A R F A N N S L D L D C A L V D L S Y L G L I A I G G P E A E D F L Q
UniRef90_V4JNE4 R E V N T V R T A V G V Y D A S T L G K I D V Q G A D A G V F L D
UniRef90_UPI000379A922 L E D R G I L M Y I N G A D A K E F L Q
UniRef90_Q4FMZ7 R E E C E A V R D H V G V L D L P G F S R F R V H G A G A E G L R
UniRef90_B7RLM7 R E V L A T R G S V G V C D V T T L G K I D V Q G V D S A D F L N
UniRef90_M9RQG2 S P R A T L Q K H H G L R S R S A Y V N L T N R G V V R V A G P D A A H F L D
UniRef90_W2S2N7 E E T K A V R E A V G G I E I A N F A K H E F K G Q G I R Q Y L N
UniRef90_U4V132 F P P H Q E C L A C R G A A A V F D M S Y F G K F Y L V G P D A R K A A D
UniRef90_UPI0002C46ECA E Y F S I R S T C S V F D I T P L N K Y R I V G P Q A E D F L N
UniRef90_UPI00037F5140 E E C R A V R T G V I T E I A N F A K Y K I T G A G A E D Y L S
UniRef90_B9R5T0 E A E Y E A C R E N V S L L D Y S S F T K L D I K G R E V V D L L Q
UniRef90_J9KOC5 P P G Q L K E H L H T R A A A G L F D V S H M G Q I L L R G E D P A A L E
UniRef90_B0UAJ4 L P S R R L I S L S G P D A P H F L Q
UniRef90_X0Y856 L P H R V L L K N H G A D T N A F V L Q
UniRef90_L8G1U5 E R E Y Y A L R N T A G L I D V S P L F K Y E V Y G K D A A A F L S
UniRef90_G0MNN9 P V Q K Y W L L R Q K A A M F D V P E K P I E I S G P D V A A F L E
UniRef90_X1D3W3 R E V N A V R N G V G F C D V S T L G K I D I Q G A D V A E F L D
UniRef90_B6BT32 F P P H H E C L T C R N A L A L F D M S Y F G K F Y L V G P E A T K A A N
UniRef90_Q0BVT0
UniRef90_UPI0003513C69

UniRef90_L0ITE0 WL C T G D V 50 G V E V G T S V Y T G M L N E R K G T Y E S D V T V T R T G P E E E
UniRef90_UPI000369607F Y V I T T R D A T K A I S T M R G F R Y V I L L C N N A K G G V L N D P V L L R I V A D D D Q S
UniRef90_Q1N1G5 G Q F T C D I N G A T S H Q F A L R G A C C N A K G G R M V A S F L S L I D D A D K A Q G S
UniRef90_A0A059F9N1 T L V P S D I A G L K Q G F T N I S H M L T P K G G R V Y A E L T V S H L P G G E F
UniRef90_UPI0002038594 H L F A N V I P K V L A E N G S T L Y A A M L T P K G G R F L Y D F F M L H T G D G E
UniRef90_S8C5A7 G L V T A N D V R S K L A E N G S T L Y A A M L T P K G G R F L Y D F F M L H T G D G E
UniRef90_UPI0002A49DFA W L F T A N D V R S K L A E N G S T L Y A A M L T P K G G R F L Y D F F M L H T G D G E
UniRef90_HOVSK2 G L L T N E L P V P P P A R A T Y A H F L N V Q G G R T L Y D V I V S R L P E C F
UniRef90_UPI0002064057 G L L T N D M K H F E E G S A H L T S H C D P K G K M S A L L L Y R A E S Q D E D K F
UniRef90_W0QQZ9 G Q L T C D V A K I E V G S A T L T S H C D P K G K M S A L L L Y R A E S Q D E D K F
UniRef90_V7F9Y3 R V Y I N G W K T L E V G R A R F G V M L N R E D G G F V M D D G T T S R L D E N E H
UniRef90_UPI0003707090 Y V I T T R D A T K I E P G N G K Y A I L L C N D K G G V L N D P V L L R I V A D D D Q S
UniRef90_W9G3N3 W L C T A D V D V P I G R A V Y T G W L N A N K G T Y E A D V T V T R V L P C E
UniRef90_H9GGI1 Y L F S N D L D V P V G H I V H T G M L N H S G G Y E N D C I V R V N K R S T F
UniRef90_UPI0004686EE6 S L T T S Q A V G R L R A G E S T E L L V L D P N Q G R V E H A A G V L D D D G E D E
UniRef90_E8UDP0 G Q L T T Q D I N R V L S A G E Q A Q F F G Y C N N Q G R L L A T G V M W S D D D E S T
UniRef90_UPI0003B3EF13 S L T T Q H L E G L G A G E P F T A L V L S P T G H I E H V L H G V D D G G T V
UniRef90_W5KGU2 W L F T A N D V R S K L T G S T V Y T C M L N N K K G G A E S D L T V S R L G D V Y
UniRef90_A0A016SLL0 G L V T N D V K T L Q P S V G I A A L F L N N K K G R I V D D V I V S R L N D G D I
UniRef90_A3SQH0 R V Y S N A F L K L P V G K V R Y G L M L N R E D G G I A Y D D G T T A R M S E N H
UniRef90_T0J4W9 G L L T R N D V V G L E P G G P R W G G L L T P Q G K A L F D F L L W A D G D D V
UniRef90_UPI00034F9DB4 W L F S A N V S R P P G S T V Y T C M L N H R G G T E S D L T V S R L G D G Y
UniRef90_B9JUP7 N L L T A N D L G L I E P G Q A A P S A L L T P Q G K I L F D M L V Y P L A D G Y
UniRef90_UPI0002EF85C5 G L I T H D V G L V A P G R A V F A G L L T P Q G K A L F D F H L H A G D D D G A
UniRef90_UPI00042BC801 W L F T A N D V S K S P G L T V Y T C M L N K H G G I E S D L T V S F E G D G Y
UniRef90_X0VEG6 L V T S N Y V R W I G D G G S Q Y A Y L L D P Y G N V I D D F I Y R R A D V D R Y
UniRef90_F6EVI4 G L L T R D V P G L K P E P G R W T A L L T P Q G K A L F D F I V R W A D G D D V
UniRef90_M0MQH9 Y V I T T R D A T E I E P M H G K Y V I L C N E D D G G V L N D P I L L R V I E D E
UniRef90_UPI000345F134 T M T T N E V D R E P G A V V Y T L M L D D D G R V R G E L A V V R R D E A R
UniRef90_G3XXX5 R L T T S D I T A P P G A I T H T L L L N R D G K I R S D I F V A R L E P D L
UniRef90_E3GI03 K M L V A S I L G K M E I G E A K Y T T M L N D D G I I D D V I V F R V E K E V
UniRef90_H1V974 R L T T S D M A K E P G A V S F T L L L D E Q G G V L S D I F V A R L R R K E L
UniRef90_V9VWM0 R V T T R N D V E K I M P G R S T Y A S L L N D Q G K F V D D C I Y R L S N W
UniRef90_UPI000476B1B7 G Q M T G N L R G A P T P G L V A C A F L N V R G Q I E T F A R A Y R R T D D V
UniRef90_T2M409 Y M V A N K L P S I T G R T N V S H M L S S T G K V Y A E V T V S A L A P N H
UniRef90_UPI0003484B9F W A T T R D I I G K L Y P G G K S V Y A A L L S E A G R F L D D C I V Y R T G D P N A
UniRef90_A0A024K7V3 D V I T G H V E A S Q G P A R W W A L L S A Q G K I Q A E G L I G W A E D A F
UniRef90_UPI0002DA7E5D G L V T G G L P K V I G G R M N L V Y F S D D R G R I L L T E M S C V R H G E D H
UniRef90_UPI0002E55103 G L L T Q D L A R V V P G D T P Q W A G L L T P Q G K A L F D F L L W A D D G S F
UniRef90_UPI00047E1162 N L M T C E P P G E G A A Y G A L L T P Q G K I A F D F L H H D D G S F
UniRef90_A0A037ZDC1 N L V T N D V S D L D G R L V Y T A L L T P Q G K Y L A D F F V T K R G D A V
UniRef90_UPI00036C1795 Y L F A N K I P Q T I V G R I G L C H M L T K H G G V R A E F T V Y K T G K Q A
UniRef90_F7ZK66 K V Y C N G F A K L A V G K T R Y G L M L R E D G I A M D D G T A G R L A E D H
UniRef90_X4RBA0 S L T T R D F L N L P T G E S S E V L L L D P N G H I Q T A A G V V D D G T T
UniRef90_UPI0003B58DDB S M A S Q A L D R L P A G E G A E T L L L D A S G R V E H A A H V I D D G T T
UniRef90_W9RV97 N Q S T A N F E V L H E G Q
UniRef90_K7K525 G L L T N D V R R L G E P V G I Y A A L L T P Q G G R F L Y D L F L Y K P P T C D
UniRef90_G3T575 G L L T N E L P L P G P G R A G Y A H F L N V Q G R T R S D V L L Y R V L P E G F
UniRef90_A0A016Q3F7 R L T T G N V A G E V G K R T F T L L L D N H G G I R S D I L F V A R L P E D L
UniRef90_UPI00037B391F R I F T R N S E K L K V G S G H Y T L A C H Q G G I F M D G L F R L D D K K
UniRef90_G5ZYB6 L A L T R D I A K L A V W R G G I Y A L L C N E M D G E V I D D G T L F R L A P H F
UniRef90_Y1GEU6 Y M V S A D V S L I R V D E Q G I Y S L L L N A M D G E I R G D A Y V L C S A D G Y
UniRef90_UPI000363958C L L T P R N L S N C E V N Q C K Y V L N T N Y E G G I L S D P L L R L G E D H
UniRef90_UPI00035EF1B3 R M T T G A V D E P G R L G L A Y F A D E G G R I V T E M S V L A L A D D A
UniRef90_R1EPK0 G L T T A N A D E L A A G T P L Y T G F L N A Q G R V L A T F L L P A S E D G V
UniRef90_S9S0K4 R V Y A N T F S T L P V G K C R Y G L M L N R E D G G I V F D D G T T A R L G E H Y
UniRef90_I5B3M7 F C F T R H I S D L S S R G C A Y G A F L D A G H C I D D A L V Y R F S D V S
UniRef90_M7S5S2 G I I T S S V P N V H R G G G F Y S A F L N A T G R V L H D V F V Y P D G Q A F
UniRef90_B9NY89 R I Y C N G F A K L A V I G K T R Y G L M L N R E D G G I A M D D G T A R L A E D H
UniRef90_U1JJJ0 G Q L T Q D M N L I T R D T Q F L W A G H C S P K G K L W G A F Q V F K H N E S Q F
UniRef90_UPI0004723CA0 F L L A N R I P A R S G P V R L V H S L D P S G G V H S E F T V R E S E S E F
UniRef90_Q5LT22 R L T A N R L P Q K P G G I A L T H M L N R S R G R I E E T T V V K L D E D R F
UniRef90_A0A044ULA0 A L T S A N D I R R L A D G Q A Q Y T L L L S P R G R I V I E D L L L Y R Q D G A N E
UniRef90_E9UXE9 S L T S Q A F E G L A P G A W T S A L L S P Q G H V E H F F S G V D D G T A F
UniRef90_C0WH02 N L L T Q K L D D A P S G F S A G A L D L D I Q G H I L H H M D I T R E A S E D F
UniRef90_UPI000477C34D A Q L T Q E L R S D W P E S T A R M A A L L C T P Q G R M L A D F L L W R E A D G T
UniRef90_J4UPT3 R L T T G S V R S K P G A V T Y T L L T E A G G I R S D I L T V A R I E T E
UniRef90_C6LBU2 R L Y P C R I S K L D I T K G K Y T M L L T E E G I P Q D D C V I T R Q G E T T
UniRef90_S2ZGM1 T L L S K I I T P G A L M A L L D A N G R V Q H A M D V A V T D D A V
UniRef90_UPI00035A0CD0 Y L C S N N I D T E I G S L V H T G M Q N E D G G F E N D C T V A R L E H Y
UniRef90_F7DS18 R L F A N V I P K V I G F T N I S H M I T P R G R V Y A E L V C Q K S P G E F
UniRef90_M7NWP5 S L T P S D I N E M P L Y S S L S T L L N S N R G G I E D D M I Y R H N K D E F
UniRef90_Q9UL12 W L F S A D V S R P P G S T L Y T C M L N H R G G T E S D L T V S R L G D G Y
UniRef90_V4JNE4 A Q V S N D I R E L S E T H S Q L N S H C S A K G R M I A N F R M L R I E Q T M
UniRef90_UPI000379A922 R V Y I N G F S T M P V I G S K A R Y G V M L R E D G F A M D D G T V A R F S P T H
UniRef90_Q4FMZ7 N M I S N D I N K V S E D S S C F A S L L T P Q G K F L F A F I L I K H S S G Y
UniRef90_B7RLM7 G L C T G A L P K V I G R M N L L Y F A D D R G R I V T E M S C L R M A D D E
UniRef90_M9RQG2 K I Y C N G F A K L A V I G K V R Y G L M L N R E D G G I A L D D G T A G R L A E D H
UniRef90_W2S2N7 G L P A K I L G V A G P E P I Y T A F L T A H G R I L V D D A F I Y P E A E W
UniRef90_U4V132 H I L A G F V P K P P G R M A L T P M L T P K G K L Y G D L T V A C L A E D H
UniRef90_UPI0002C46ECA W L F S A D V S R P P G S T V Y T C M L N R R G G T E S D L T V T F E G D G Y
UniRef90_UPI00037F5140 K L T V R D V S K Q N V A S T V Y T W C D Q E R G G F V I D D G T L F R I S D N D
UniRef90_B9R5T0 Y L M T N T M P K V I G S I L I H T G M Q N V R G G Y E N D C S L R L R S E N H
UniRef90_J9KOC5 Y L C S N D V D V P I G S I L I H T G M Q N V R G G Y E N D C S L R L R S E N H
UniRef90_B0UAJ4 G L I P A D L V G L K V G R Q R Y G L L T D A A G G I V D D L M V A R F E D H V
UniRef90_X0Y856 V Q Y S A M C Y S D G G I V D D L L Y R R T D H Y
UniRef90_L8G1U5 G V I T A N I A P S T S F Y A A F L N A P G R I V N D V E I Y P D G E N W
UniRef90_GOMNN9 G L I T N D V T K L Q S R N G L A A F L N A T K G R I V N D V L W R R G D D L
UniRef90_X1D3W3 R V M V R N I N K L K V G R C T Y L C W C D D H G K V L D D G T V S R L D D N H
UniRef90_B6BT32 K V M T R K V S T I K E R G G Y S L A C T P Q G G I F M D G V I F K F S E N K
UniRef90_Q0BVT0 R V C V N R L S R I R S G R A Y L V M L R E D G G V L D D G T A R L G E D H
UniRef90_UPI0003513C69 W L X S D A V I S P P A G S T V Y T C M L N K R G G V E S D L T V S F Q G D G Y

UniRef90_L0ITE0 F L I I S S A A T T E R D K D H I R K N L P D G V S V D M T S A Y A V F G V M G
UniRef90_UPI000369607F F W F S L S D S D I G F Y L Q G V N A D K R F N V E I D E I D S C P V Q L Q G
UniRef90_Q1N1G5 L L V M A K G A V L A D I L Q N W E I K K E A V F F K A E I V K K Q D F N A Y H
UniRef90_A0A059F9N1 L Y I V V N K G A V K H Q Q H W E I F K E T A L A G K A V L T R A D R D L F A L Q G
UniRef90_UPI0002038594 M L V T G S G S E L H D L R W I E E E A I R G E Y I K N V T D E I G V L G L A G G
UniRef90_S8C5A7 Y A D V D K G V V D E L V A T L K K F R L R L K V D I E N V E D F S C W Q R F G G
UniRef90_UPI0002049DFA Y L A I G G G V A E H N W N H I I Q T V L Q D Q G F R C D L S E D M G M I S I Q G
UniRef90_HOVSK2 L L E C D R T S L D T L P Q H L A L Y R I R R K V K V E P W P E C C V W A V L P
UniRef90_UPI0002064057 Y I E C S Q A A E S L Q K H L K M Y R V R R K I D I D Y L E D S V V W A F F D
UniRef90_W0QQZ9 V T I I H S S L L P E A L T Q L K K Y A V F S K V T F T E L D T P V Y G I A G
UniRef90_V7F9Y3 F L M T T S A N A G K V L Q H L N F C H Q L E V H I V S V S E Q W A Q V A I A G G
UniRef90_UPI0003707090 F W F S I S D S D L L L W L Q G V N V T K K Y D V V I D E I D V C P V Q I Q G G
UniRef90_W9G3N3 Y L V V S A A T T D R D V D W L R R Q A P C A V T V T D V T S A L A V F G V M G
UniRef90_H9GG11 F M I S P T D Q Q V H C W A W L K K H M P E D S V L E D V T W K Y T A L N L I G
UniRef90_UPI0004686EE6 W L L A D A G D A E G L A T W L T R M K F R T Q A T V E L R P D L L A L G F V G
UniRef90_E8UDP0 F M M V H K S I A T L L Q K R L S M F V L R A K V L I E Q V E S S I Q A V Y E
UniRef90_UPI0003B3EF13 W A W T E P G R V A D L V S W L D R M R F M T R V E V A D R S D E V G L V W V G
UniRef90_W5KGU2 Y L A I G G G V A Q H N W S H I I Q T V L Q D E C F N C D Q S E D M G M I S I Q G
UniRef90_A0A016SLL0 L V E C S A O A N R E N L K K L L E K Y R V R K S V D I V E S H E N V L F S
UniRef90_A3SQH0 Y V M T T T A N A V L V F R R Q C L W P G L D V H L I S T T D W A Q F A V A G
UniRef90_T0J4W9 L I D C E A G Q A D A L A K R L A L Y L R L R R K V V I A R E S G L A V
UniRef90_UPI00034F9DB4 Y L A V G G G I A Q H N W C H I I T V L Q D Q R F R C D C S E D L G L I S I Q G
UniRef90_B9JUP7 L L E V A S D E Q E A L L R R L T L Y K L R A A V T L T P A E F S G V T V I W
UniRef90_UPI0002EF85C5 L L I D V A A E A E A L L K R L N T M Y K L R K A V T L A R R D D L A V L A S W
UniRef90_UPI00042BC801 Y L A V G G A V A Q H N W S H I I T V L Q D M R L Q C D C S E E L G M I S I Q G
UniRef90_X0VEG6 M L V I N A S N A E K D L A W L N A V N S G K Y L I D E A H P D R V D L A I Q G
UniRef90_F6EV14 L I D C E A A Q A D A L A K R L T I Y R L R R K V
UniRef90_M0MQH9 F W F S I S D S T L M Q W L Q G V N V G K D F D V E I D E I D V A P M Q I A I A R
UniRef90_UPI000345F134 F L V G A D G T T G V D W L R R H L P R N G S V H L R D L T A G T C C L G L W G
UniRef90_G3XXX5 F Q I G A N T A T D V A Y R R Q R H T P T Q W V V S D I T G S T C C L G L W G
UniRef90_E3GI03 L W I S T L Y I D A L I A W F D A H K E N A K V E Y R D I T E T T M Y A V Q G
UniRef90_H1V974 F Q L A V N G S R E A R L Q T R A S P A K F V Q V R E T T G G T S G I G L W G
UniRef90_V9VWM0 L T V H G D G T G M E Q L N A V A G K N C S V I F D D N L H D M S
UniRef90_UPI000476B1B7 Y L V I T G G G S E H D L R W L I D H A R K Y D V Q I D N K T D Q V A I S I N G
UniRef90_T2M409 Y L V I T G G G S E H D L R W L I D H A R K Y D V Q I D N K T D Q V A I S I N G
UniRef90_UPI0003484B9F F M V V H G S G T G Y E R L V R S A Y G R Q V A V L F D D D L H D R V S L Q G
UniRef90_A0A024K7V3 W L D V H G S V A D D F F K R M R L Y K L R A E V T L E D K R A T H R V G W S
UniRef90_UPI0002DA7E5D F T M I T A G S A Q W H D F E T L K K A L P D G L T T D H T T E F A T M I V T G
UniRef90_UPI0002E55103 L T D C D A T V Q E S L V R R L S M Y R L R R A I S I E D P I D A G V H W S L A
UniRef90_UPI00047E7162 A L D V R R E V A E D L S K R L T L Y R L R S K V I T I E D V G E A L Y V F A G
UniRef90_A0A037ZDC1 L L D V A M P L A A G L A Q R L N M Y K L R A D V T I G D S G L K V L Q G
UniRef90_UPI00036C1795 Y Y L V G A G R H D F D Y L E K L C P N D G S V Q L Q K V T T Q Y G V L V I A G
UniRef90_F7ZK66 F V V T T T A N A V N V Y R H M E F V H Q D V Q L I S T T S W A Q F A V A G
UniRef90_X4RBA0 W F I L D R G Q A Q P F A D F L D S M V F R M R V E I A R P E A Q V F G L F V
UniRef90_UPI0003B58DDB W L V V E G D E A A P L A A F L D R M R F M L R V E V A D A S A D V A V L G
UniRef90_W9RV97 T L V V S P E T C A R S L E M L E K Y I F A D K V Q D I T K R T S F V L V G
UniRef90_K7K525 T K L D D T G T G P D S Q P H E P F H L F A D R Y G A G L I E K T S Q V
UniRef90_G3T575 F L E C D S V A H T L Q K H L V F H R I R R K V E V E L C P E L G V W A M L
UniRef90_A0A016Q3F7 F H L G V N G P V D L H Y F T R E A K V Q R A H V R D I T G G L A S V G V W G
UniRef90_UPI00037B391F Y W F V H P D G D L D T W F L A H K H N Y N V S I S D P Q S R V L Q L Q G
UniRef90_G5ZYB6 R W C G S N E Q S G R W L S A L A D Q H N L Q V R I H D L G S S L P N L A L Q G G
UniRef90_Y1GEU6 Y I L S E S L T S K E I A E E L D Q E I P E I K A M E N N W G A I M L E G
UniRef90_UPI000363958C W W Y S I S D S D L L L W A M G V A G K D K Y D I E L R E P D V S P L Q I Q G
UniRef90_UPI00035EF1B3 F L D V T A A V A Q W H D R D W L Y R H L S A D R L E D V S E R E T C Q I T G
UniRef90_R1EPK0 V I D T H V G S A P L L L K H L K R Y K L R S K V I A D R S A E L A V V A A C G
UniRef90_S9S0K4 V M T T T A N A V A V F R H L E F C R Q C L W P E M D V T E A W A Q F S V A G G
UniRef90_I5B3M7 F M V C V N A G M G A S I T R H L V L H S D E K S V K D L S D Q L A K L D V Q G
UniRef90_M7S5S2 L V E V D A D Q G E L T R H L R R Y M L R S K L K V R A L D E E G V W H V W G
UniRef90_B9NY89 F V V T T A N A V K V Y Q H M E F V R Q C L F P D M D V T E A W A Q Y A V A G
UniRef90_U1JJJ0 F M M G S N E V T A S H R E L R K Y G V F A K V D I T H L D S P R I T G L L S
UniRef90_UPI0004723CA0 Y L V S A G A F A R I A D H E W L R K H L P K D G S V H D I T A K L G V L V I A G
UniRef90_Q5LT22 Y L V C A A F F E Q R L L D H L A A H R G T A D I T R N L S T D W A L L A L N G
UniRef90_A0A044ULA0 L I E S D R N G S K L R K L F E M F R I H K D V T I E E E A K N C V Y H I
UniRef90_E9UXE9 L A W T E P N G A S A L V D Y L E R M K F W S D V T V T L E T S Q A
UniRef90_C0WH02 Y L D L P A A Q F E S A Q D F L T K M V F W S E V T V E E A D I
UniRef90_UPI000477C34D A L L L D A E G L V E P T L K R L R M Y I L R L K C T L D D D A R A Q R H V Y G
UniRef90_J4UPT3 F Q V G V N G P L V E T A Y L Q R E A R L Q R A A Y V R D I T G G T C C V G L W G
UniRef90_C6LBU2 Y W I S T L H V P R I M R E M E N A S D G L D A K W E I T K K I D M Y A V Q G
UniRef90_S2ZGM1 F L I V S P H E A E T L R D Y L V S M L F W S K V K I E V S P L K L V T V F G
UniRef90_UPI00035A0CD0 F I I C P A T Q Q T R A I A W L N S H A D G S V Q V T D A T S M F S G I N I I G
UniRef90_F7DS18 L I I T G S G S E L H D L S R W D G R G G R T V E K R D V R E E M L V Q G R V G
UniRef90_M7NWP5 Y L V T N A A T R E K N K S Y F K K H W G D S N V Q L K E L K D R
UniRef90_Q9UL12 Y L A M G A V A Q H N W S H I I T V L Q D Q K S Q C D S E D L G M I S I Q G
UniRef90_V4JNE4 F L L L P R T Q L E P L F K R L Q M F R L R A D V T I D N A S D L V C F G I L G
UniRef90_UPI000379A922 Y I V T T S A H A Q A M R H L E Y C R Q W L W P E L D V H D Q W A K Y A I A G
UniRef90_Q4FMZ7 F I D C E K S Q T E A L F R K Q L S V Y K L R S K V E I M N L S N E F V V A A
UniRef90_B7RLM7 F L L T A T A T A Q W H D R D V L V S G L P E D L T I D D T T R D T L I V T G
UniRef90_M9RQG2 F V V T T A N A L P V Y R H M E F V R Q C L F P D M D V T E A W A Q Y A V A G
UniRef90_W2S2N7 F I E V D A E S V D I L T K H L K K H K L R S K F A L E R L K E P L I F
UniRef90_U4V132 F M L F G S G A M Q E A H R R W F E K D L P A G I S Y N V S D D W H G I A L S G
UniRef90_UPI0002C46ECA Y L A V G G A V A Q H N W S H I I T S V L Q D Q R F R C D S S E D L G M I S V Q G G
UniRef90_UPI00037F5140 F R L C S Q A E K H N W P W L I D T S H G D F V E I D E T K H I C G I S L O Q G
UniRef90_B9R5T0 F Y M F G S S Q A E Y H M R W F E K H L P D D G S V A I E A I N L S L V G L A G
UniRef90_J9KOC5 Y M M I A P T I Q K T R C K I W I Q R H L P S D S L T D V T S M F T A I C L M G
UniRef90_B0UAJ4 V V V V N A N A Q K A D A H L R A H L P A A I T V E E R P D A L L A L Q G
UniRef90_XOY856 F M V V N A N I D K D F E W L R S N V K G N V S L A N V S D Q T G L I A V Q G
UniRef90_L8G1U5 I V E V D A Q G A E T L Y K H L K R F R L R A K F D I R L L P E D E M Q T W S L
UniRef90_GOMNN9 F L E C S K G N Q S L L K K E I L K Y R L R A K R V E I S E T S D H V F F
UniRef90_X1D3W3 F R V T A A E P T L S W L M C L S R R F D V T I E D S T D K I T L S L Q G
UniRef90_B6BT32 F W Y V I A D G P F E D W L L A H S K G F D V K I L D P K S R V I Q I Q G
UniRef90_Q0BVT0 Y L L S S T A H A G Q V F Q H L L Y C H Q C L W P E L D V T E Q W A V I A I A G
UniRef90_UPI0003513C69 Y L A I G G A V A Q H N W S H I I T A V L Q D M K I Q C D C S E E L G M M S L Q G

UniRef90_L0ITE0 P K S R D L L S T 130 140 150 160
UniRef90_UPI000369607F P K S K A L M N D L I G D Q V D L D N M P F Y G S C V T S Q S G F S G E A G Y E
UniRef90_Q1N1G5 P K S R D L L S T 130 140 150 160
UniRef90_A0A059F9N1 P E A V D V M S D F F P G C E E L A F M H H M P F E L N G T R C Y T G E D G F E
UniRef90_UPI0002038594 P Y A R E V L Q K L T T E D L S D A A F I A D I P V T A I R I S Y T G E L G W E
UniRef90_S8C5A7 G N A S D S C T R P E F K S E A D S V J A W K W L R D P R L P C L G Y R
UniRef90_UPI0002A49DFA P K S R D V L Q E V F P F S T H K A V V T A A G H Q V R A M R L S F V G E L G W E
UniRef90_HOVSK2 A V A W A G Q A V S L Q E R A E A T S L L T R D P R T V C M G W R
UniRef90_UPI0002064057 P N N R Q K L E G L I F P C G T L N N K V S K L V D N L M P R L S D L G I R I L
UniRef90_W0QQZ9 E E A F A K L P E N V T A L T L S Q G Q K R A F A W G N F E P N G D E R L W T
UniRef90_V7F9Y3 P R S R D V L R G V V D T F P Y L A A R E I T V G S S T P A R L F R G E L A Y E
UniRef90_UPI0003707090 P L S E N L M A K L A G E Y G L M E T Q I G G A D V V L S Q T G F T G E K G Y E
UniRef90_W9G3N3 P R S R D L L S R L S A D D T S R E V R L G M A T V R A T R I T Y V G E L G W E
UniRef90_H9GGI1 P R A V D V L S E L F P S L F C K E M S V G Y A N G I R V M M T H T G E P G F M
UniRef90_UPI0004686EE6 P A A E R V R G L D Y V R L W V D P W Q Q V A V G H G Q Y A D V P G A D L A W R
UniRef90_E8UDP0 P E S D L T N G G T P H F P L L H C D K G A G L F S V G F P S P N A N
UniRef90_UPI0003B3EF13 D G V D T P G D A K P L A I R R S P L G G R E
UniRef90_W5KGU2 P K S R D L L Q E V L D A D L S N E V T A A G H K V R A M R L S F V G E L G W E
UniRef90_A0A016SLL0 T E E T P G S L L D P R F P S L G R R
UniRef90_A3SQH0 P N A R N L L R K V V D E F P F M A C G E V T V C G G M P A R L F R G E L A Y E
UniRef90_T0J4W9 H W A L E A E G K P L D P R L P A L G H R W L
UniRef90_UPI00034F9DB4 P A S R A I L Q E V L D A D L S D A V Q A A G H L V R A M R L S F V G E L G W E
UniRef90_B9JUP7 D N V P T G A F Q D R R F A A G E T V W R R V N S A G D D I R
UniRef90_UPI0002EF85C5 S A D I L G G A P A D A R T A A L G A R
UniRef90_UPI00042BC801 P A S R A I L M L F S S L H P L V V L A A H L V R A M R L S F V G E M G W E
UniRef90_X0VEG6 P N S L A I L Q S L T E D T C T E P
UniRef90_F6EVI4 E E S L A V H W A L E A A D K P L D P R L P A L G H R W I A P A D G G D A
UniRef90_M0MQH9 P R S E D V M V E V P Y A Y G L M E A E I D G C P V L V S Q T G S G E K G F E
UniRef90_UPI000345F134 P Q A Q A L M Q Q L C A H D L S D H S H L G A A P V V A L H T A G T G E P E W E
UniRef90_G3XXX5 P R S R A V I T T A L P Y M S V K R A T I A G I P I T A L R K S Y V G E L G W E
UniRef90_E3GI03 P D S R A V L N D F L K D N I D E N N M V G D I P V K I A R S G Y T G E L G F E
UniRef90_H1V974 P R A A E V V A G I S S D N L R D M P H I A G I P V T V I S L S F V G E P G W E
UniRef90_V9VWM0 P V A V D F L A E Y V P G I R D L A Y F L F G C P V M I S R T G Y T G E R G Y E
UniRef90_UPI000476B1B7 G T S L P G W N E G G P V R Q T F A E L G G V V L V G R V N R T G T A G L D L H
UniRef90_T2M409 P R S R V L L Q K L F S F M Q N K E L D I G G I P V L A L R V S Y T G E L G W E
UniRef90_UPI0003484B9F P A A V D F L A E Y V P G I R D L P Y F H H V Q P V T I S R T G Y T G E R G Y E
UniRef90_A0A024K7V3 P E A P A E G L V H A D A R A E G L G F R
UniRef90_UPI0002DA7E5D P K S R E L F A G I L G W L T H Q E A T V A G K P A F L A R V S F A G E L G W E
UniRef90_UPI0002E55103 P R A R A V A D P R L A A L G Y R W L
UniRef90_UPI00047E1162 W D E A A P E G A H A D P R L A A L
UniRef90_A0A037ZDC1 D G T P P E G A L A D P R D T S L G W R L Y G A E G G N Q I T E W T A R R I A A
UniRef90_UPI00036C1795 P R S R E L L Q K I T D T D L S N A N F K W L T G A H A L R V N F V G E L G W E
UniRef90_F7ZK66 P N S R A V L Q R I V D D A D Y D L S N E A F P F M G C G N I T V C G G E L A Y E
UniRef90_X4RBA0 P D A I G A L A D W L D P W P R T A P G G A H Y G V V D A D H P A R S A R A L
UniRef90_UPI0003B58DDB A M S V A A L D A A T P A F E P A G V A L D W V D P W A H P R P G S G W H W I E R
UniRef90_W9RV97 P K S S Q L M E D L N L G N T H Q H F S V N G M P V T V R V G S I S E D G F S
UniRef90_K7K525 E E P E A A S V I G W G A G V D R T A M S S S Q G S D Q G W Q W F K D P R L G F R
UniRef90_G3T575 P S T S E V H R A P L Q E K A E G A T L T A D P R T A C M G W R
UniRef90_A0A016Q3F7 P L A K D L M D R A F P Y L T T K K I E V S G I P A I A T H F S Y I G E E G F E
UniRef90_UPI00037B391F P K S L A V I N L A T N G G V D H C M E Y F K A G V F I S R T G W T G E L G Y E
UniRef90_G5ZYB6 P R S R Q I L E K I V F T P N P V P S A Q M N W F G V T V A R L H D G E L G Y E
UniRef90_Y1GEU6 P Y A W E I M A E V Y G F D P N Y E Y M N T D D E L M I F R C G K H G E F A Y Q
UniRef90_UPI000363958C P K S R A L M N D L F G S W I N D L K Y Y W C I P V V V R T G W S G E I G Y E
UniRef90_UPI00035E1F3 P S S R E L L A S V V E G A D L S R G W L S H Q E A R I S G R P C R G E L G W E
UniRef90_R1EPK0 T A V P L E P A D G V A L P G D G G A W R D P R L R C L G R G V A P R A D G G
UniRef90_S9S0K4 P N A R K L L E K V V D Q D I S D A A F P Y M A A G R L F R I S F S G E L A Y E
UniRef90_I5B3M7 K N A L K I V S E L E P E A S N G V N L V D G T P V I V S R T G Y T G E F G F E
UniRef90_M7S5S2 A D V S A L L Q Q P S H H H H Q R D T I V L R D D R A P G L G Y R I L S T R Q
UniRef90_B9NY89 P N S R N L L Q K I V D P E F D I S N E G F P F M A C G N I T V C G G E L A F E
UniRef90_U1JJJ0 D D H S Q T C Q L L G L N F A D T N A C N F L G Y K A L R L D E Q R I L
UniRef90_UPI0004723CA0 P R S R D L L A K V L T D A D L S N P A F P W L S G R R I D V G L Y V G E L G W E
UniRef90_Q5LT22 P H A R D I L A A C F K W L T A Q Q I T V A G H S L W A L R M S Y A G E L G W E
UniRef90_A0A044ULA0 D N I S N D I P G I Q D P R V P S F G K R I L
UniRef90_E9UXE9 S V W R P A Q G Y S
UniRef90_C0WH02 A I V T L L G E A D I P T P P T V V F S R E V Q W P G I K R V D L
UniRef90_UPI000477C34D L L E D A A D D P V L P G E A L P V W G T R Q E G E L T A I R L P D A P G Q R R
UniRef90_J4UPT3 P L A R K V I S K V L S A D D F T K R A S I A G V P L V A M R L S Y V G E L G W E
UniRef90_C6LBU2 P R A E E M V E Q L L E V N P H G Q K R F Q M V E N R A A K G G Y T G E K G Y E
UniRef90_S2ZGM1 E H A P L T A A F R R V V E G Q P L R T
UniRef90_UPI00035A0CD0 P H A H Q L L A D V G D K T D F R P M S V N I I D V G H M R L T H T G E D G F I
UniRef90_F7DS18 P R A R K V L E K L T S E D Q A K P L K I S N V P V T A I R I S Y T G E L G W E
UniRef90_M7NWP5 P L S A D I L Q E H T N T D L T N K F G K C S N V H I S R T G Y T G E D G F E
UniRef90_Q9UL12 P A S R A L L Q E V L D A L D L S N E A R A A G H L V R A M R L S F V G E L G W E
UniRef90_V4JNE4 T C A D A A L T E V F G S L P A A D N D M S R A G E A V L I R V I P G N I P R Y L
UniRef90_UPI000379A922 P R S R D V V A A L V D D A D V S D A G L P Y L G A R L F R L S F S G E M A Y E
UniRef90_Q4FMZ7 F N K E K F L E F E G S K D I A G N T I K Y R E D S I L L D P R N K D L G A R L
UniRef90_B7RLM7 P K S R D L L R G L T D A D L A G W T V A G Q P A S L V R V S F A G E L G W E
UniRef90_M9RQG2 P N S R K L L E K L V D A F P F M A C A N I T I C G G L R A R L F R G E L A F E
UniRef90_W2S2N7 V S H D T A L D G S Q A S G P S A L E G L R A S G K D P R P G M A S R
UniRef90_U4V132 P K S R E L L A P I T R D D V S A E T F V G G V P V I T N R I S F S G E L G Y E
UniRef90_UPI0002C46ECA P A S R A I L Q E V L G A F P F S T H K L V R A A G H L V R A V F V G E L G W E
UniRef90_UPI00037F5140 P T S A S I L R L L G I N G I D N L K P F H N M P I M I S R T G F T G D L G Y E
UniRef90_B9R5T0 P R A R D V L A K V A G D M D F R E M D V A N A P C K V N R I S Y T G D L G Y E
UniRef90_J9KOC5 P F T R H L L S E M T E T D L S P K S F P F F N G I R A L N L T H T G E L G Y V
UniRef90_B0UAJ4 P A A E A A L A A L A E V A A M R F L D V R A P G F V A R S G Y T G E D G F E
UniRef90_X0Y856 P V S R E L A G K V L H V D L S D L A Y Y H L M E G K V N D R G Y T G E L G F E
UniRef90_L8G1U5 W K S K E V G M G W T P H T I P T E T V P A P A G H I E C V D T R A P E M G K R
UniRef90_G0MNN9 D E D S S A T Q Q H K D P R F A G F G A R V F G N P S S S E
UniRef90_X1D3W3 P N S R E I L K N V S D A D M D
UniRef90_B6BT32 P A S R D I M K A A S N G K I N E N M Q Y Y R S G F F D S R S G F T N E L G F E
UniRef90_Q0BVT0 P R S R D V L H R L I D A F P R M S V A E T M L T D G T P V R L V G E L G A Y E
UniRef90_UPI0003513C69 P L S R A V L Q E V L D T F P F S T H K L V R A A G C T M R L S F V G E M G W E

UniRef90_L0ITE0 UniRef90_UPI000369607F UniRef90_Q1N1G5 UniRef90_A0A059F9N1 UniRef90_UPI0002038594 UniRef90_S8C5A7 UniRef90_UPI0002049DFA UniRef90_HOVSK2 UniRef90_UPI0002064057 UniRef90_W0QQZ9 UniRef90_V7F9Y3 UniRef90_UPI0003707090 UniRef90_W9G3N3 UniRef90_H9GGI1 UniRef90_UPI0004686EE6 UniRef90_E8UDP0 UniRef90_UPI0003B3EF13 UniRef90_W5KGU2 UniRef90_A0A016SLL0 UniRef90_A3SQH0 UniRef90_T0J4W9 UniRef90_UPI00034F9DB4 UniRef90_B9JUP7 UniRef90_UPI0002EF85C5 UniRef90_UPI00042BC801 UniRef90_X0VEG6 UniRef90_F6EVI4 UniRef90_M0MQH9 UniRef90_UPI000345F134 UniRef90_G3XXX5 UniRef90_E3GI03 UniRef90_H1V974 UniRef90_V9VWM0 UniRef90_UPI000476B1B7 UniRef90_T2M409 UniRef90_UPI0003484B9F UniRef90_A0A024K7V3 UniRef90_UPI0002DA7E5D UniRef90_UPI0002E55103 UniRef90_UPI00047E7162 UniRef90_A0A037ZDC1 UniRef90_UPI00036C1795 UniRef90_F7ZK66 UniRef90_X4RBA0 UniRef90_UPI0003B58DDB UniRef90_W9RV97 UniRef90_K7K525 UniRef90_G3T575 UniRef90_A0A016Q3F7 UniRef90_UPI00037B391F UniRef90_G5ZYB6 UniRef90_Y1GEU6 UniRef90_UPI000363958C UniRef90_UPI00035EF1B3 UniRef90_R1EPK0 UniRef90_S9S0K4 UniRef90_I5B3M7 UniRef90_M7S5S2 UniRef90_B9NY89 UniRef90_U1JJJ0 UniRef90_UPI0004723CA0 UniRef90_Q5LT22 UniRef90_A0A044ULA0 UniRef90_E9UXE9 UniRef90_C0WH02 UniRef90_UPI000477C34D UniRef90_J4UPT3 UniRef90_C6LBU2 UniRef90_S2ZGM1 UniRef90_UPI00035A0CD0 UniRef90_F7DS18 UniRef90_M7NWP5 UniRef90_Q9UL12 UniRef90_V4JNE4 UniRef90_UPI000379A922 UniRef90_Q4FMZ7 UniRef90_B7RLM7 UniRef90_M9RQG2 UniRef90_W2S2N7 UniRef90_U4V132 UniRef90_UPI0002C46ECA UniRef90_UPI00037F5140 UniRef90_B9R5T0 UniRef90_J9KOC5 UniRef90_B0UAJ4 UniRef90_X0Y856 UniRef90_L8G1U5 UniRef90_G0MNN9 UniRef90_X1D3W3 UniRef90_B6BT32 UniRef90_Q0BVT0 UniRef90_UPI0003513C69

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

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

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

UniRef90_L0ITE0 R E L T P S E N P V I E A G L L F A C K 220 L K T D A F L G R E S L E K A K A E G 240
UniRef90_UPI000369607F Q D M D N E H N P F Q C N L G Y Q V S L S W N K A D Y V G G K E A L E K M K E Q
UniRef90_Q1N1G5 P E T S E E L T P Q M L N L Q L T N G V T R S F K K G C Y T G G K E I V A R M Q Y L G
UniRef90_A0A059F9N1 H D M S A T R D P V M L A G M A W L T Q K T R R E A G N F P G G A R L L A A L K Y
UniRef90_UPI0002038594 A E M N C D T N P V I E A G L K Y F I K L N K A D F I G G K Q A L K Q L K E K G
UniRef90_S8C5A7 T E I P G D A T P L E Y N L V G L N A I S F D K G C Y V G G K E L V A R T H H R G
UniRef90_UPI0002A49DFA A D L R P G D D T P L E A G L A F T C K L K S S P F V Q G R D R L E A R T K Q K K E G
UniRef90_HOVSK2 D L P P G I A L P L E S N L V F M N G V S F T K G C Y I G G Q E L T A R T H H M G
UniRef90_UPI0002064057 E D L P G K P L P L E V N C D Y L H G V S F H K G C Y I G G Q E L T A R T Y H T G
UniRef90_W0QQZ9 K E N Q F E L I P Q A A N L Q L E N A I S F T K G C Y I G G Q E T V A R A K Y R G
UniRef90_V7F9Y3 T E F N G Q T T A R D L G F G K M M S S K K D F V G R E
UniRef90_UPI0003707090 Q D L D H E T S P F Q V N L A Y Q V P R N K T A D Y I G G R K S A L E E K Q R A
UniRef90_W9G3N3 R E L T T E T G P F V E A G L T F A C K L R T K G D F I G G R S A L E E K Q R A R G
UniRef90_H9GG1 Q D L D A F T T P L E C G R E F R A V K L E K G D F I G G R D A L E M R Q K Q E G
UniRef90_UPI0004686EE6 A E V T D E R S L P H E S D W L R S A V H L N K G C Y V G G Q E T V A K L H N L G
UniRef90_E8UDP0 D K T Y E K F L A Q S L N L D I N A I S F N K G C Y V G G Q E V I A R L H Y K
UniRef90_UPI0003B3EF13 V D T D H R T I P N E I G L L G T H L D K G C Y R G G Q E T V A R V H T L G
UniRef90_W5KGU2 A D L R P G D D T P L E A G L A F T C K M K T S T P F L I G G R S A L E S Q K A E G
UniRef90_A0A016SLL0 E E L R G T L L P F Q A N G D L L N M I S L D K G C Y I G G Q E L T A R T A H T G
UniRef90_A3SQH0 E L N G Q T T A L N L G L L G M V S Q K K D C C I I G G Q E
UniRef90_T0J4W9 A E L Q D Q T L W L E T N A E E L H G V D Y D K G C C Y I G G Q E N T A R M H Y R
UniRef90_UPI00034F9DB4 A E L R P D D S P L E A G L A F T C K L K S A E P F L I G G R E A L E K Q R A E G
UniRef90_B9JUP7 L D Y P Q D A Y P H D V L L D L N G G V S F K K G C Y V I G G Q E V V S R M H H R
UniRef90_UPI0002EF85C5 D L G S D E L L W L E T G A D L L D G V S F T K G C Y V I G G Q E N T A R M H H R
UniRef90_UPI00042BC801 A D L R P D D T P L E A G L A F T C K L K S S P F L I G G R E A L E T Q K A T G
UniRef90_X0VEG6 G E L Q D Q I L W L E T N A G E L G G V D Y D K G C Y V I G G Q E N T A R M H Y R
UniRef90_F6EVI4 Q D M D H E T S P F Q V N L G Y Q V S L S W N K A D Y V G G K E A L E R Q Q E Q
UniRef90_M0MQH9 R D V T T E H D P H E A G L G H L V R M G K K G Y F R G G K E A L E R
UniRef90_UPI000345F134 V D M T T E H D P L E A G V F H L V D L D K K E E Y V G K A A L E
UniRef90_G3XXX5 D L A G T N P L E A D F G W T V D L D W N K D F V G K S A L E K V K A N G
UniRef90_E3GI03 V D V T T E H N P F E A G L G F A I D T E K R G Y V I G Y D A I T R L
UniRef90_H1V974 G D N S E T Y T L W E V L G L E F T A V S P G K T G F I G G A E
UniRef90_V9VWM0 R D G F A G T L P W E V L G L D S G A I S S Y R K K G C Y V I G G E I M A R L E A R G
UniRef90_UPI000476B1B7 S E M N M D V G P Y E A G L D F F I K L D K G D F L G R D A L
UniRef90_T2M409 Y D N S E M Y T L W E L G L D F T V S P G K T E F C G A T E H L R L Q G R
UniRef90_UPI0003484B9F A D F P D S T F A H D A A M D L L G G I D F D K G C Y V I G G E V V S R M K H R G
UniRef90_A0A024K7V3 G D L S T D Y S L L I E G G L E R F V K L D K P D F P G G K A I L Q N E K Q Q G
UniRef90_UPI0002DA7E5D A E L S D K T L W L E C A N A Q E L N G V S F T K G C Y V I G G Q E N T A R M H Y R
UniRef90_UPI0002E55103 E D L F G E A F P H D A A M D Q L N G V S A F K K G C Y I G G Q E V V S R M Q H R G
UniRef90_UPI00047E7162 N E S Y I L L E Q G F E R L N G V D F R K G C Y V I G G Q E V T A R M K H K
UniRef90_A0A037ZDC1 R E M S I E Y S A I E S G L D R F V R L D K P D F I G K Q G L L D W Q A R G
UniRef90_UPI00036C1795 E L N G T T T A L N L G L G R M V
UniRef90_F7ZK66 T E V V I E R A L P H E L D W L R T A V H L N K K G C Y R G G Q E T V A K L V N L G
UniRef90_X4RBA0 T E V D D R T L P H E L A D W L R S A V I D L G K G C Y K G Q E T V A K V L N L G
UniRef90_UPI0003B58DDB R E L T N E N V L E A G L W S A I S L D K K G C Y K G Q E T I S R I T Y N G
UniRef90_W9RV97 T E I P G E A V P L E Y N L A G L N A I S F D K G C Y V G G Q E L I A R T H H R G
UniRef90_K7K525 D L P P G V A L P L E S N L A F M N G V S F T K G C Y V G G Q E L T A R T Y H M G
UniRef90_G3T575 S D M T Q E Y D P Y E A G L E F A L H P G K D G Y V G
UniRef90_UPI00016Q3F7 S D F D T S M A P D E A G L R R F A V D R D K K Y F I G Y E A L K K R N T G
UniRef90_UPI00037B391F A E F A A G S D A F E A G L G F A V N L N K T A F I G Q D A L K R
UniRef90_G5ZYB6 D E L Y N N Y S R N P V E L Q M Q W A I Q Y D K E D F I G Q D S A V E E L S R K G
UniRef90_Y1GEU6 Q D M R V T D N P F E I G M D R L V D L E M E A D F V G K E A L K K I K K E G
UniRef90_UPI000363958C A D L S T D Y S V L Q G G L E R F V K W D K P D F L G R E A L L G E R E R G
UniRef90_UPI00035E1B3 A Y L P T E L P L E S N L E V L G V A F D K G C Y L G Q E L T A R T Q S R G
UniRef90_R1EPK0 E L N G Q S T A L N M G L G R M V S K K K D
UniRef90_S9S0K4 Q D I G H F P F I N H P W E F A L P F K A G
UniRef90_I5B3M7 A E I P R A S L P L E A N L D L M G G V D F R K G C Y V G Q E L T I R T K H R G
UniRef90_M7S5S2 E L N G T T T A L N L G M G R M V S K K K D
UniRef90_B9NY89 A E T V I E F Y P Q M L N L Q A L G G I S F K K G C Y T G Q E T V A R M R Y L G
UniRef90_U1JJJ0 T E L S I E Y A A L E S G L D R F V H L D K G D F L G R A L K R W Q E R G
UniRef90_UPI0004723CA0 E L T N E V I T L A E A D V L R F A R T D K D Y L G R D
UniRef90_Q5LT22 S E L A G Q L P L F M N A D I M N G V S A N K G C Y L G Q E L T A R A
UniRef90_A0A044ULA0 V D T D A R T I P N E V G W G P E Y A V H L D K K G C Y R G Q E T V A R V H T L G
UniRef90_E9UXE9 A D L D K K S I P H E V P Q W I P A H V H L N K G C Y R G Q E T V A R V E N L G
UniRef90_C0WH02 A A T A Q Q F V P Q M L N Y E V L G A V D F H K G C Y P G G Q E T V A R T Q Y R G
UniRef90_UPI000477C34D T D M N S H D P Y Q A L E F A V K M D K A D F R G K A L E
UniRef90_J4UPT3 D F D D A T P F E T G M D W M I D W T K E E F L G R D A V L A A K
UniRef90_C6LBU2 A D C D A R T L P H E V L G L W L D Q A V D L E K G C Y R G Q E T V A R V E N L G
UniRef90_S2ZGM1 L D L D D D K T P L E C G R G F R T K L E N D N F I G K E A L L Q Q R K L L G
UniRef90_UPI00035A0CD0 S E M N C D T N P L E A G L D H F I K L N K A D F I G K Q A L K Q I K E K G
UniRef90_F7DS18 T D I D H T V T P V E A S L S W L I G K R R E G G F L G D K R I L Q Q L Q E G
UniRef90_M7NWP5 A D L R P D D S P L E A G L A F T C K L K S P V P F L G R E A L E Q Q R A A G
UniRef90_Q9UL12
UniRef90_U4JNE4
UniRef90_UPI000379A922 A E L N G T T T A F D L G L G G M M S K K K D Y V G R V M A E R A
UniRef90_Q4FMZ7 N E L Q N K T F G I E C N F E E L N G I D F K K G C Y V G Q E N T A R I K
UniRef90_B7RLM7 G D L S T D Y T M L Q G G L E R F V K L D K P D F P G K S A L R N E Q Q Q G
UniRef90_M9RQG2 E L N G T T S A L N L G M G R M V S T A K D
UniRef90_W2S2N7 S E L S E A S L P Q E S N I D L L G G I D F H K G C Y L G Q E L T I R T H H T G
UniRef90_U4V132 M E Y R P D F D A V I E S G M D I F I N W K K D F V G K E A T L K A R D E G
UniRef90_UPI0002C46ECA T D L R P D D S P L E A G L A F T C K L K S A V P F L G R E A L E Q H R A S G
UniRef90_UPI00037F5140 I D F I S D H A I R P N L G L G W L V D L N K G C Y F N G K K A I A N S K
UniRef90_B9R5T0 R E F R P I Y G P F E A D L G R F V K L N K N N F I G Q E A A R R E F E D G
UniRef90_J9KOC5 Q D I D T S T T P L E C G R S W R V K F D K G N F I G R D A L L R Q Q E E G
UniRef90_B0UAJ4 A D I G P D T S P V I E A G L T F
UniRef90_XOY856 N D I S A D T N P L E A G L G W I T K L D K G P F I G S R A I E K V K G E G
UniRef90_L8G1U5 D E I R E S A L P Q E S N L D Y M S G I D Y R K G C Y V G Q E L T I R T H H T G
UniRef90_GOMNN9 D E L A D L L P F Q A N G D L L N M V S L D K G C Y I G Q E L T A R T A H T G
UniRef90_X1D3W3
UniRef90_B6BT32 T D I D T T I N P F E A G L G F C V N M D K E D F I G R D A L
UniRef90_Q0BVT0 E L N G Q V T L H D L N A G G L M A D K C L G R A M A L R
UniRef90_UPI0003513C69 A D L R P D D T P L E A G L A F T C K L K S G P F L G R E A V E A Q K S S G

UniRef90_L0ITE0
UniRef90_UPI000369607F
UniRef90_Q1N1G5
UniRef90_A0A059F9N1
UniRef90_UPI0002038594
UniRef90_S8C5A7
UniRef90_UPI0002A49DFA
UniRef90_HOVSK2
UniRef90_UPI0002064057
UniRef90_W0QQZ9 A
UniRef90_V7F9Y3
UniRef90_UPI0003707090
UniRef90_W9G3N3
UniRef90_H9GGI1
UniRef90_UPI0004686EE6
UniRef90_E8UDP0
UniRef90_UPI0003B3EF13
UniRef90_W5KGU2
UniRef90_A0A016SLL0
UniRef90_A3SQH0
UniRef90_T0J4W9
UniRef90_UPI00034F9DB4
UniRef90_B9JUP7
UniRef90_UPI0002EF85C5
UniRef90_UPI00042BC801
UniRef90_X0VEG6
UniRef90_F6EVI4
UniRef90_M0MQH9
UniRef90_UPI000345F134
UniRef90_G3XXX5
UniRef90_E3GI03 A
UniRef90_H1V974
UniRef90_V9VWM0
UniRef90_UPI000476B1B7
UniRef90_T2M409
UniRef90_UPI0003484B9F
UniRef90_A0A024K7V3 T
UniRef90_UPI0002DA7E5D
UniRef90_UPI0002E55103
UniRef90_UPI00047E7162 T
UniRef90_A0A037ZDC1
UniRef90_UPI00036C1795
UniRef90_F7ZK66
UniRef90_X4RBA0
UniRef90_UPI0003B58DDB
UniRef90_W9RV97
UniRef90_K7K525
UniRef90_G3T575
UniRef90_A0A016Q3F7
UniRef90_UPI00037B391F
UniRef90_G5ZYB6
UniRef90_Y1GEU6 A
UniRef90_UPI000363958C
UniRef90_UPI00035EF1B3
UniRef90_R1EPK0
UniRef90_S9S0K4
UniRef90_I5B3M7
UniRef90_M7S5S2
UniRef90_B9NY89
UniRef90_U1JJJ0
UniRef90_UPI0004723CA0
UniRef90_Q5LT22
UniRef90_A0A044ULA0
UniRef90_E9UXE9
UniRef90_C0WH02
UniRef90_UPI000477C34D S
UniRef90_J4UPT3
UniRef90_C6LBU2
UniRef90_S2ZGM1
UniRef90_UPI00035A0CD0
UniRef90_F7DS18
UniRef90_M7NWP5
UniRef90_Q9UL12
UniRef90_V4JNE4
UniRef90_UPI000379A922
UniRef90_Q4FMZ7
UniRef90_B7RLM7
UniRef90_M9RQG2
UniRef90_W2S2N7
UniRef90_U4V132
UniRef90_UPI0002C46ECA
UniRef90_UPI00037F5140
UniRef90_B9R5T0
UniRef90_J9KOC5
UniRef90_B0UAJ4
UniRef90_X0Y856
UniRef90_L8G1U5
UniRef90_G0MNN9
UniRef90_X1D3W3
UniRef90_B6BT32
UniRef90_Q0BVT0
UniRef90_UPI0003513C69

UniRef90_B7RFV8
UniRef90_K2HBM4
UniRef90_W1SE61
UniRef90_L1IKQ1
UniRef90_UPI00046DFDC8
UniRef90_D4LXF4
UniRef90_H6MCS5
UniRef90_AOA023Y508
UniRef90_E3QTB3
UniRef90_UPI000376BE2F
UniRef90_F9VNX5
UniRef90_A9SJE6
UniRef90_Q6ARJ5
UniRef90_W0DDG0
UniRef90_I4EF25
UniRef90_UPI00036B409B
UniRef90_F3WTY6
UniRef90_UPI000375639F
UniRef90_UPI00036E7821
UniRef90_D5BT30
UniRef90_UPI0003747E5C
UniRef90_UPI0003B79A11
UniRef90_X5MNV5
UniRef90_U6NFV0
UniRef90_UPI00046608AB
UniRef90_N0E148
UniRef90_Q8MQN6
UniRef90_UPI0003B64ACE
UniRef90_B6BQH0
UniRef90_T1PCM5
UniRef90_N6UI66
UniRef90_E5ARE5
UniRef90_W2E658
UniRef90_U3GYH8
UniRef90_UPI000464E83D
UniRef90_D5BR90
UniRef90_UPI000255F0C6
UniRef90_F1ZAU5
UniRef90_M9RCU7
UniRef90_G6D375
UniRef90_M2X177
UniRef90_UPI0002629559
UniRef90_X6GKE8
UniRef90_B2VA03
UniRef90_E2CG83
UniRef90_X5UB27
UniRef90_UPI0003814C7E
UniRef90_C3XU71
UniRef90_Q16T15
UniRef90_Q1GT82
UniRef90_W7T817
UniRef90_A6FQS3
UniRef90_C2KSF8
UniRef90_Q5LW00
UniRef90_Q6C8Y7
UniRef90_F9EED0
UniRef90_D3PYF1
UniRef90_UPI0002488A00
UniRef90_UPI00037712F8
UniRef90_UPI000377D1B2
UniRef90_UPI0004026CAB
UniRef90_A3VWX6
UniRef90_AOA044RZW5
UniRef90_I1H1U8
UniRef90_UPI000363134F
UniRef90_T12I13
UniRef90_H2ZAI2
UniRef90_X1HYZ0
UniRef90_W4S721
UniRef90_E5Y9A7
UniRef90_F0ZH12
UniRef90_A8U3E1
UniRef90_C7DCW9
UniRef90_R1FKA8
UniRef90_U5EXD6
UniRef90_W8SR40
UniRef90_Q2CJN4
UniRef90_A3SII3
UniRef90_D3SM46
UniRef90_D7GG14
UniRef90_A6FNW1
UniRef90_R4VK73
UniRef90_UPI00046A269A
UniRef90_A5CF27
UniRef90_B0WFI9
UniRef90_UPI0003C12BC1
UniRef90_L0AKT3
UniRef90_D0DC58
UniRef90_A8UVY2
UniRef90_E2CP61
UniRef90_C8PUU7
UniRef90_U6PE59

1

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

UniRef90_B7RFV8 R I M A G R V P 50 Q Q G R M S L T P 60 S E K G K L T G D F F T M S C L D E D R T
UniRef90_K2HBM4 D L V T N D V L T P R D Q R L I Y A A L L S P Q Q G K Y L A D F F V L N R D D D R T
UniRef90_W1SE61 G L L T R D V L T L A E A G R A P R W T G L L S P Q Q G K A L F D L T L W A D G D D D V F
UniRef90_L1IKQ1 R L S T A R R V L I E E T Q G R M T L A P M L S K E D G G K I I G D F T T E S D G D D R W L
UniRef90_UPI00046FDFC8 R M L A C R L P T Q G R M T L A P M L S K E D G G K I I G D F T T E S D G D D R W L
UniRef90_D4LXF4 K I Y L S N I S K V A V G R S K Y T A S L D E N E E G T I R G D D V I V M H M A D D G L
UniRef90_H6MCS5 Q L V S A D V S L I R D E Q A I Y S L V L N E E G T I R G D D V I V L C S I M A D G Y
UniRef90_A0A023Y508 A Q F S S D V T A L P V R H W Q W S A W L S A K G G R T I A V F L I R V D E E R T L
UniRef90_E3QTB3 R L F T T S D I S K S P G R T V T F L L S D G H T G G I R S D I F V A R L G N D G L
UniRef90_UPI000376BE2F K L F A T K L P K P G R A R L A V M L S P T G K L K G D L T L L N W G D D G T
UniRef90_F9VNX5 L L I A K D I K K A S Y N T M I P T A F L N D K G G F I D D V M T Y K L S D E F L
UniRef90_A9SJE6 G L V T N D V S K L P S V G R C L Y A A M L N S D G S V L D D A L V Y M L A E N S
UniRef90_Q6ARJ5 H C F T K D L E R L P V G R C V Y G L F L L E N S D G S V L D D A L V Y M L A E N S
UniRef90_W0DDG0 S L L T N D I K G L K P F S F N Y N L W L R Q N G S P I E D F F V Y K L E D A Y
UniRef90_I4EF25 M L L Y P G G V V D D I I Y R R P D G Y
UniRef90_UPI00036B409B S Q L T N D I S K L G K S E L Q I N A Y C Q H S G G K L I G L F W V M R R Y Q D G G F
UniRef90_F3WTY6 G L V T Q D V Q G L T A D A P R W A G L L T P Q Q G K A L F D F L L W A E G D A I
UniRef90_UPI000375639F W I C T A D V A V P V I G R T V Y T G V L N G Q Q G T Y E S D V T V T R T A D R E
UniRef90_UPI00036E7821 G L V T N D T G H L P A Y A A L L T P Q Q G K A L F D F I M W P D G E D V
UniRef90_D5BT30 S L V T G N L P K P G R I G L I Y F A S P K G R V L S E M T A T C L G E D E
UniRef90_UPI0003747E5C N L L T N D V G K L A A G R A A Y A A L L T P Q Q G K L I V D M L A S R T P E G D Y
UniRef90_UPI0003B79A11 W L T T N D R L P K V G R I N L T Y A L T E A G T T R T E Y T I V R H A E D D Y
UniRef90_X5MNV5 R L V T G N L D Q V T P S N G V Y S L L L T P Q Q G K F L F D F F M V S D E G A M
UniRef90_U6NFV0 G L V T S D V R K K V P S V G I G A F F L N L K G R I V D D V L I S R D N G D L
UniRef90_UPI00046608AB R I M A G R I P P P G R L S L T P M L S P K G R L M G D F T V S C L N D Q T
UniRef90_N0E148 M V C S A D V D V P T G G T V Y T A M L N A R G T Y E A D V T V T R T G D E F
UniRef90_Q8MQN6 Y L C S N D V D V A V G S L I H T G M Q N P N G G Y E N D C S L A R L S E R H
UniRef90_UPI0003B64ACE G L I T H D V A L V A V G R A V F A G L L S P Q G K A L F D F L H A G D G G A I
UniRef90_B6BQH0 K L T P R S I K D M T I G K C F Y I P M L N E N A G M I N D P V L L K L D D D M
UniRef90_T1PCM5 W I E T G N T N R D P K K T V Y T C A L N D A G G V E A D V T I K F E G Q G F
UniRef90_N6UI66 A L I T T D V I K I N S Q E L F P S A L L S P K G R L L A T L L V W R A G D A V I
UniRef90_E5ARE5 G Q L T N D I Q T L E A G S V R L A G F C S P K G R L L A T L L V W R A G D A V I
UniRef90_W2E658 G L V T K D I Q F M E E S R T A Y T L L R A D E D G R V I D L V N L F K N E D S D V
UniRef90_U3GYH8 N L L S Q K L D D L V S S Q R R E A L L L R E D G G R V L Q H M T V W A V G D E I
UniRef90_UPI000464E83D W L C A A K I G G D G I G K G I Y T H F L D D E G M V R A D L T V I R M A D R C
UniRef90_D5BR90 R L L A C K L P M G R M T L A P M L K D E A G G V I G D F S L A C L A E D E
UniRef90_UPI000255F0C6 F V I T R D A T R I P V M H A R Y V I L C N E A G G I V N D P V L R R V A E D E
UniRef90_F1ZAU5 S L L S N T V P K K V G K V A L S Y L L T D E G G V R A E F T V Y K K A P Q T
UniRef90_M9RCU7 G L V A G A L P K K G R V G L T Y F A D N R K G R I V E T E M V T R E A A D L F
UniRef90_G6D375 L A F T A D L S K K H D G V V Y T L L L N E K G G V E A D L T V S V L G R G Y
UniRef90_M2X177 G L I T Q N V E L L T K Q S Q K Y T G F L N K R G R L I N Q G F L A P L C E D W
UniRef90_UPI0002629559 T V T S Q V L T G V P V D S S L A V L S P Q Q G R V L E H L A S V V A A E E T V
UniRef90_X6GKE8 R L L A C K L P K P G R M T L A P M L S P Q D G R L I G D F S L A N L G E G W
UniRef90_B2VA03 G I L T N N V A Q L N D K E F N Y N L M L D H K G S P I W D F Y V F K D N E N Y
UniRef90_E2CG83 M L T P R D L S N L T V I G R C F Y T P M V D E T G G M L N D P V A L K L A E D R
UniRef90_X5UB27 R M L A N R L P Q H G R I A L T P M V T P K G K L Y G D L T V A R L D N E T
UniRef90_UPI0003814C7E A Q F A S D V R A L A T G H W Q W S T W L N P K G R V I A L F A L R T G D G L
UniRef90_C3XU71 R L C A N E V D V P V I G T V L H T G M L N H Y R G G Y E N D C R I A R L A N N H
UniRef90_Q16F15 W I F A G D L N K P I N K T V Y T C A L N K R G G V E T D V T I J F K R G R Y
UniRef90_Q1GT82 G L V T N D V S G N L P V I V W A A L L T P Q Q G K A L F D F L I W G D G D L
UniRef90_W77817 N Q L T N S F A N A Q V I G D V I E S S Y T S S D E T G R A I D L V T A Y V L E D V
UniRef90_A6FQS3 M L T P R D L R G M T P G Q C F Y V P I V D E T G G M L N D P V A V K L A E D R
UniRef90_C2KSF8 T V T T Q K L A G L A P G V G S E A L V L D V Q G R I E L A F Y L V D D G H N T
UniRef90_Q5LW00 R A L A N A M P K R D G R V T L A H A L D E N G R F C A E F T V A R L A E D R
UniRef90_Q6C8Y7 G L F T L P V S A A T P F S G V F G A F L N G K G R V I T D A F L Y T T S N H F
UniRef90_F9EED0 T L S S Q V L T G L V P G G G V E T L I L D A H G H I A H A L A A L D D G R T L
UniRef90_D3PYF1 R M T V A Q M D R P V I G R I M Y T P V L N P A G G F R S D L T V V R L G D D H
UniRef90_UPI0002488A00 G L V T N D V E G P L P A W S G L L T P Q Q G K V L F D F L L W A D D D I
UniRef90_UPI00037712F8 Y V V T R D V T R L A S M R A A Y A V L C D A G G R M I N D P L L L K I T S P E E
UniRef90_UPI000377D1B2 L L T S R D M S T C S V N Q C K Y A L I T D E S G G L V C D P I L K L S N D R
UniRef90_UPI0004026CAB G L L T Q D L A D V K P G A P K W S G L T A Q G K A L F D F L L W D D G E A I
UniRef90_A3VWX6 A V F A N R M P K A V I G R S C L T P L I G V R G G I A G D A T V T R L A E D E
UniRef90_A0A044RZW5 Y V E T N E P P Q L G E V S S G L M L T K K G N I L D L E H H D Q Y R S E F S
UniRef90_I1H1U8 S L L T N D L V P A R A P P P A Y A A L L T P Q Q G R F L Y D L F L Y R P A P R S
UniRef90_UPI000363134F R V M A G R L P A E G R I S L S P M L A D S G R L I G D F T I A R L G P Q F
UniRef90_T1213 S L C T A D I V I G M K D N T S S L S L F T D K T G G I L D D D L T V T K C E D H L
UniRef90_H2ZA12 K L L T R D I V I G N T E N Q F V Y S L M L N K D A G I E C D D V V A T K M G N E Y
UniRef90_X1HYZ0 Q F T T N S I T S L K A K H A Q Y S F L L D A S G G V L D D V I Y R K D R D K F
UniRef90_W4S721 A Q F A N D V Q A L A L P G W Q W N A W L T A K G R V I A L F A L L R E D D T H
UniRef90_E5Y9A7 W A F T K D L S L S G P R A Y A G A F L D A S G G V V D D A I V Y P L S E G R
UniRef90_F0ZH12 G L T T N N L N R L K D S Q S Y N G F L Q S N G R L L F D S I I S L D K E H F
UniRef90_A8U3E1 M L T P R D L R G M N P A G Q C Y Y V P I V D E T G G M L N D P V A L K F T D E K
UniRef90_C7DCW9 R M I C G R L P R K A G R V G L T Y L N H Q A M V K A E A T I A N I P D R I
UniRef90_R1FKA8 W V C G N D M E G R A P G A V Y T P L L C N A R G G V E A D V T V T R L A D N R Y
UniRef90_U5EXD6 W M F T S D I L N K P A N K V I Y T C S L N K N G R V E A D V T V S V I K D E T Y
UniRef90_W8SR40 R I M A G R I P A P G R L S L S P M L S P R G R I V G D F T V S C L S E T H
UniRef90_Q2CJN4 V L T P R D I A G M E P G G Q G R Y V L C D H D G W L I N D P V L L K L A D D R
UniRef90_A3SII3 R M C C A G V P K R D G R L G Y A Y L L N H H G M I K A E A T L A N L P E R V
UniRef90_D3SM46 G L L T N D V P K G M P F S V S Y A L M L R Q N G A P I R E F F L Y K L Q D H Y
UniRef90_D7GG14 S L L T G R F D G L P P G Q G L N A L L L S P T G Q V R Y G L Q A V D D G E R L
UniRef90_A6FNW1 A V F A N R M P K S V I G R S C L T P L I S V R G G G I A G D A T V T R T A E D E
UniRef90_R4VK73 Y A S V A K V G G D T P G K G I Y T H F L D A K G G V R A D L T I L R L A D R Y
UniRef90_UPI00046A269A A V F A N H M P R A V I G R S C L T P L I G V R G G I A G D F T V L T R T S D D E
UniRef90_A5CF27 R L T T N V I P A A N G E A K Y S M L L S P Q Q G R F L D F F L I R N S H N T F Y
UniRef90_B0WFI9 K M C A N D V D I E I G H I V H T G M L N E R G G Y E N D C M I R Q S R D H Y
UniRef90_UPI0003C12BC1 H L F A N T V P K V I G Q T N I S H M I T P R G R V Y A E F T V S Q L P G E F
UniRef90_L0AKT3 Q M A V I G R T D V D I G K T V Y T P L L A E N G G F V S D L T I A R M L G E H Y
UniRef90_D0DC58 W L C A A K I G D D G I G K G I Y T H M L D D E G M V R A D F T V F R M G D R I
UniRef90_A8UVY2 S L L T N N V K A L S P G T F N Y N L W L R Q N G Q P V A D F F V Y K V I Q D Y
UniRef90_E2CP61 M L T P R D L S N M S V I G Q C K Y V L I T N A E G G I L N D P I L K L G E N H
UniRef90_C8PUU7 G Q V T C N V T K L S D Q F Q A T A I S N L K G R V L G I W I K L I A D D A Y
UniRef90_U6PE59 Y A I C T Q I P P L G K I G S G L M L T R Q G R L F A P L K I F H H D D T F

UniRef90_B7RFV8 F Q L T A S Y G A Q A F H M R W F T Q H L Q G D V V E N I S D R R T G F Q I A G
UniRef90_K2HBM4 L I D A D A G Q A D A L A R R L T M Y R L R R K V I G I D V T D M P V A C G T G
UniRef90_W1SE61 L I L D C E A A Q A D A L A R R L T L Y R L R R K V I G I D V T D M P V A C G T G
UniRef90_L1IKQ1 L I L V P D A A G L H R H A E S W M R Q Q K L R E R V S L D D V S D R D R Y A Q L A I A I Q G
UniRef90_UPI00046DFC8 L L I G S G G A E E Y H L R W F S Q H L D D P G V S L H C L G T W C G L A I A I Q G
UniRef90_D4LXF4 Y W V S D L I Y G P R E L L P W I E K H K G T A D I T K L I T Y N D W D M Y A I Q G
UniRef90_H6MCS5 Y L L S E D I L S A E L L A S M N T I L E K A E I Q D M C R E N N W G A L L E G
UniRef90_A0A023Y508 L L V L A D G D A D A I A S Q L Q R F V F R R K V K I A V R D D R T V A G
UniRef90_E3QTB3 F Q L A V N G P V D F A Y L S R E A R L Q K F V Q V R D T T G G S G G I G L W G
UniRef90_UPI000376BE2F F W I M G S Y L R A W H M R W F N D Q M Q D G V S V R D L G D D I C F A L I G
UniRef90_F9VNX5 L I V T N A I N R E K V I N W I K S N S S L E V E D L T F K Y A M I A I Q G
UniRef90_A9SJE6 L A D V D A G L S A D E I I G Y L K H L R K K I E K D V S K D F S V W Q H Y G G
UniRef90_Q6ARJ5 Y M V V N A G M G S V V S H L E N H A A D G V D I A D C T A S V G K M D L Q G
UniRef90_W0DDG0 L L D T E G D A K K I I E E F E R L K L S L K V Y F E D L T T F G H V F V F G
UniRef90_I4EF25 F V V V N A S N L D K D F A W Q R E A R S D L D V T T N I S G E T G M I A I Q G
UniRef90_UPI00036B409B L M S F P I D L L E K I K S R L E M F V I M S D V V I D D S N H L F Q I G L I N
UniRef90_F3WTY6 L I D A E A T Q A E A L T R R L S I Y R L R R A I T I A P V P E L A V
UniRef90_UPI000375639F F L V V S S A V R D L D W L R R H V I V G A D A S V V D V T S A Y A V L G V M G
UniRef90_UPI00036E7821 L L D V E A E Q A D A L A R R L S I Y R L R R V I S I A R D E A L A V H W
UniRef90_D5BT30 F M L M T G A G A D F D L L F F A L P A G G A I S I S D I T R D F A T L L V T G
UniRef90_UPI0003747E5C L L D L P R H H V A D V A R R L T L Y R L R S K V E I E D V T A R
UniRef90_UPI0003B79A11 Y L V S A G A W T D Y A D N L I R A Q D F M A E Q D V T T Q W G V F A I A G
UniRef90_X5MNV5 L I D C A K T R A A D L Q K R L T M Y K L R A D A F D D S A D F Q V I A H W G
UniRef90_U6NFV0 L V E C S A S N R T G L K E M L I K Y R M R K N V D I V E S H A D V L F
UniRef90_UPI00046608AB F Q L T A S Y G A Q A F H M R W F E H H E A P G V T V E N V S D R L T F Q I A G
UniRef90_N0E148 L V L S S A A T T V R D V D W L R R H L P G S P A V V D V T G A Y A V F G V M G
UniRef90_Q8MQN6 Y M M I A R T I Q Q C W I R K H M P N H L R A K V V A D V T S M Y T A I C L L G
UniRef90_UPI0003B64ACE L I D V A A E K A D A L L K R L G M Y K L R K A V T L A R R D D L V L A S W G
UniRef90_B6BQH0 F W I S I A D S D L L W A K G L A L G L N L N V V I E E P D V Y P L A T I Q G
UniRef90_T1PCM5 Y I V A G G A S A Y Y T T M M K D E L R R Q G F V R D V T S D M G V I S I Q G
UniRef90_N6U166 M I D I S A P L A A D S F Q K R L L Y K L H A K V E I T Q P L Q E V I S V
UniRef90_E5ARE5 R M L V I S A D L A A P L Q K R L S M F V L R A K A R L T N T T D D L A V V G F A
UniRef90_W2E658 T I T A S E K K E Q V L A W L Q E N R E K Q E E T D I S E S H S L I G F E G
UniRef90_U3GYH8 Y V E C A R A G S Q E L F D Y L Q K M I F W S D V Q I E I T D L A I V T T V
UniRef90_UPI000464E83D R V I D G A D A G P R D F H Y M R R V A E G F D V T I T D V T E Y V T I G I W G
UniRef90_D5BR90 F L I T G S G T A E N Y H M R W H M P K D G S V T I T S H N L E L V G L T L A G
UniRef90_UPI000255F0C6 F W F S L S D S D L L F W L Q G V N V G R Y D V D I R E I D V C P V T Q V Q G
UniRef90_F1ZAU5 Y Y L V S A G A L E R H D Q D Y L L K A L P N D G S E R L T T A M G V L V L A G
UniRef90_M9RCU7 V L V T A A S A H W H D R E W L E R Y M P E D A T L V D W T T D M S T L V T G
UniRef90_G6D375 Y V V F S A N H T A S I R H I L Y K H K L R A N L T D V S K Q L C L A I N G
UniRef90_M2X177 L I D V H P S T G S E L V K H L Q L F R L R S K V E I S N V S D S Y S V W L V S
UniRef90_UPI0002629559 L L V L D A G A R A G L R R Y L E M M R F A A R V E I P D R D D L R V L S G A T A
UniRef90_X6GKE8 F L A G S G I A E Q Y H M R W F E A H L P Q D G S V H I E A L G A R L L S I A G
UniRef90_B2VA03 I L D F E F D R D E V L N K L K Q L K L S Y Q V F F E V L E F E H I Y I F G
UniRef90_E2CG83 Y W V S I A D S D L L Y W L K G L A Y A L R L E V D V D E P D V S P L A I Q G
UniRef90_X5UB27 F Y L F G S G A A Q N V H R W F E M H V P P D G V A Y R N R T D F H G I A I A G
UniRef90_UPI0003814C7E R M L L P D A N A T L V G D A L R R F V F R R K V V L A P R A D L H V A G A F G
UniRef90_C3XU71 Y V I L S P P N L V R S W A W L T R H L P R D G S V Q D V T R S Y A V L N V L G
UniRef90_Q16T15 Y I V A G G A S A Y H T K S H I W Q E K A L R A V V T D H T E L G V L S V Q G
UniRef90_Q1GT82 L I D C E R D A A E G L A K R L T L Y R L R R A I T I A R E P D L C V
UniRef90_W7T817 L L L S S P P R H A H V F E S F H K Y I F P D R V Q V H K K E L Q G G F I Y M G
UniRef90_A6FQS3 W W I S I A D S D L L Y W V R A T A H G W R L D V L V D E P D V S P L A V I Q G
UniRef90_C2KSF8 W I L T E V P E A T R V F L D A M R F R S K V E I T D S Q E F V V L G F L G
UniRef90_Q5LW00 F Y I C G P A F S E V H D D H V L R S R L R A A T L T N V S M G W G C F T V A G
UniRef90_Q6C8Y7 V I E F D K A V E D E L L H L K R H R I R A K V K M E K L T D Y E C I F I W N
UniRef90_F9EED0 R L V T E A G R G A A L A E H L Q R M R F M L R V E V A A G D L A V L A M G
UniRef90_D3PYF1 Y R V T A G G A G A R D L K W F T D N L P S D G S V S D L S A T G T V G V W G
UniRef90_UPI0002488A00 L I D C E A T Q A D A L V R R L S L Y R L R R P V T I A R D P A L A V
UniRef90_UPI00037712F8 Y W F S I S D S D L S L W L K G V N V G K G F D V Q I Q E M D V S P V Q I Q G
UniRef90_UPI000377D1B2 F W L S T S D C G D L E L W A K G V A V H A P F K D I K I S D A N V S V V Q I Q G
UniRef90_UPI0004026CAB V I D C E A G Q R D
UniRef90_A3VWX6 F W V T S S G M A E R Y H K R F F D A V L P E G T T F E S L T D I V C F N V A G
UniRef90_A0A044RZW5 I L L T D P E R E S R E L N W L K R I L A L E A N V E I S V S E Y L A S L A V V Q G
UniRef90_1H1U8 Q M L D R T G S A D R L L A C F K R Y R L R N K V E I D N V S Y E E F L C W T V G
UniRef90_UPI000363134F Q L T A S Y G A Q G W H M R W F E R H A G E G A V V E N I S D R W T G F Q I A G
UniRef90_T1I213 Y I V S N A S R R E H D Q E E L Q E K G Y E I N I K F Y E P E E K S L V A L Q G
UniRef90_H2ZA12 Y I T V P T A A A H C R F H I Q E K I Q D H T L V Q D R T E E T S I L S V Q G
UniRef90_X1HYZ0 F V V V N A N N A K T K N W I N P E N A G R K V S N R P D D C R V D I A L Q G
UniRef90_W4S721 L L L L P D G N A A E I A T Q L G R F V F R R K L K I G V A A L S A F G G
UniRef90_E5Y9A7 Y F V V L N V G K G E R I A E W A S E G K S V T I R D L A G T Y G K L D L Q G
UniRef90_F0ZH12 I I D I D N A V L N D A V A H L K Q Y K L R N K I D I T D V T D Q Y R V Y S I L
UniRef90_A8U3E1 F Y L S I A D S D L L Y W L K G L A Y G F R L D V D V N E P D V A P L A V I Q G
UniRef90_C7DCW9 W Y G S A A S E Q H F D M D W L A S H I Q D E D V Q K S L T N D Q T L L V L A G
UniRef90_R1FKA8 W Y M C T G G A T A S H D L R W I E S A L D E G S V A D I S D E L T L L S V Q G
UniRef90_U5EXD6 Y L V A G G A S A F Q T I S H L K L H S K E F D V D K D L T E E L G V L S I Q G
UniRef90_W8SR40 F Q L T A S Y G A Q D T H M R W F T S H P G D G V T L D N V S D R R T F Q L A G
UniRef90_Q2CJN4 F W L S I A D S D I G L W A T A I G R E R G L D V R V S E P D V A P L A V I Q G
UniRef90_A3SII3 W Y G S A A S E L H D M D W L S A H V P D E D V Q R S L T N D Q T L L L L A G
UniRef90_D3SM46 L L D T P D P A K Q V I E L E K R K L S L K V Y L E D L T P N Y R H I F L L G
UniRef90_D7GG14 W V I T D P A S S A S P D D P A E P A P A T G V P T G P D M Q G V G L A E F L
UniRef90_A6FNW3 F W V V S S G M A E R Y H K R F F D M V P L P E G T T F E S M T E A M C G V A G
UniRef90_R4VK73 R I I D G G D T G H R D I W L Q R M V D D H G F D T D Q T E D F G C L G V W G
UniRef90_UPI00046A269A F F I T G S G M A E R Y H Q R F F R A V P L P S G T T F E S K T E S M C G V A G
UniRef90_A5CF27 F I D C L A S S K N A L Y S K L H M F K L R S K V Q I N D V S D Y F D V I Y S Q
UniRef90_B0WF19 F M I S P S S Q Q T R I L Y D W M S R F A D A S V K L N D V T S M Y T V I N V V G
UniRef90_UPI0003C12BC1 M L V T G S G S E L H D L R W I E E E V F R G K E V R N V T D E I G V L G V A G
UniRef90_L0AKT3 R V I T G G A A A G S D R A W F E R H L P D G D V T M I D R S E L C T L G V W G
UniRef90_D0DC58 R M V N G A D A G P R D L M Y M K R T A Q D R D V T I T D V T E F T T I G I W G
UniRef90_A8UVY2 Y L L D T D K P A E E V I E E F N R L K L S L K V Y F E D T Q Q L R H I F L F G
UniRef90_E2CP61 F W L S L A D S D L L W A Q G V A V H A G M D V S I S E P D V S P L Q L Q G
UniRef90_C8PUU7 Q I V I S Q D C A D E F A K H I K Y A A G S K L T L S A P R D I F
UniRef90_U6PE59 I M L T E P E R E S R D I Y W L R A A K F N V Q V N C V S E Y L A S L A L V G

UniRef90_B7RFV8 P N A A K V L Q A 130 C T R A D V S K Q M T V G M A N C L I Q R V S Y T G D L G F E
UniRef90_K2HBM4 P A P E G A L P D
UniRef90_W1SE61 P E A A
UniRef90_L1IKQ1 P R A R A L L E R V F P T S S V R E V E I E Q V R V L C S R T S L L T G E L G Y E
UniRef90_UPI00046FDFC8 P K S R A L L Q S L F R F M A I R R L D L G M A P A L V I G R I G Y T G D L G Y E
UniRef90_D4LXF4 P D S I N A M N A M L D K P I D E L K R F G I C P V Y I H R S G K T G E N G Y E
UniRef90_H6MCS5 P Y S W E I M S E I H G F Y Y E Y M N T E E D L L I F R C G K H G E Y A Y M
UniRef90_A0A023Y508 P R A A S D V I G G I S S D N L K D M P P I A G I P V T V V S L M S F V I G E P G W E
UniRef90_E3QTb3 P N S H S L L Q K V V S K M R F M D C K R L D I G L I Q S H M S V T G E M G F E
UniRef90_UPI000376BE2F R N V W N Y I E K T D L Q P L E F K I N T K F L G E L I S R S G W T G E D G V E
UniRef90_F9VNX5 G T L A E K P D N T T E S E A G A I G W G T K D E S A L R S S E T S G D E W L
UniRef90_A9SJE6 P F S A V I L K K I T A D C P T A T E V E L L D G T S F M R T S Y T G E F G F E
UniRef90_G6ARJ5 E S A K D W V E K T F G M V P E E G K F F E K D G V F V A N N P L R I R E E G F
UniRef90_W0DDG0 P K A V G I L Q R L V D A D L S A V P G F S A I T A G V D R T G Y T G E D G Y E
UniRef90_I4EF25 E K
UniRef90_UPI00036B409B
UniRef90_F3WTY6
UniRef90_UPI000375639F P R S A D L L S G L F P F G T S R E V R L G S A V V R A T R I T Y V G E L G W E
UniRef90_UPI00036E7821 S R E P V A G A S P D P R S
UniRef90_D5BT30 P K A P A L L A D V F P W L T H Q R V K I A G V D T T A I R V S F A G E A G W E
UniRef90_UPI0003747E5C T R A L V I W G D G L L P R E P K M V I D P R I T P G L G A R
UniRef90_UPI0003B79A11 P Q S R A I L S K L F P W L S A R R I E L G M V P V N A I R V A Y T G E L G W E
UniRef90_X5MNV5 A N A S L V
UniRef90_U6NFV0
UniRef90_UPI00046608AB P R A R D V L A D C T R A M D V R Q I T V G M V D C L V Q R V S Y T G D L G F E
UniRef90_N0E148 P R S A E L L G R L F P F G T S R E L P L G R A T V R A T R L T Y V I G E L G W E
UniRef90_Q8MQN6 P Y S R I L L S E L L T D T D L T P K S F P F F D G L R V L N I T H T G E L G Y V
UniRef90_UPI0003B64ACE M P A D A R N A V L G A R W V G P A D G A P A G A D A
UniRef90_B6BQH0 P K S E E L M V S I F G D I K F F N F R V I D F E G T K Q I I A R S G Y D G F E
UniRef90_T1PCM5 P K S R E I L Q K I V N C E L N S D E N N A T E Y G A R L L R V S F V I G E L G Y E
UniRef90_N6UI66 S W K N E I N T F D F D S S F I D K R F P Q K E K M V R
UniRef90_E5ARE5 G D V R A A L S Q C F E A L P D G V H V K I D T A C G E L I R V P D G V P R F L
UniRef90_W2E658 P Y A W K L A Q Q F L P F Q S F A L T L Q G T E I V L A R T G V T S G E Y G Y Q
UniRef90_U3GYH8 S D S P A E P L D C C V A S A S Y P L G V A S G P L V I T D
UniRef90_UPI000464E83D P N A R V T L Q K V V E D P A G L S P E N F P F A I K P I R I Y V I G E Q G W E
UniRef90_D5BR90 P K S R D V L Q C T F D D V S H A A M P F M M V P A I V G R V S Y T G D L G Y E
UniRef90_UPI000255F0C6 P K S V D L M A D V F D D V A G A G Q V A G C D V I V S Q T G F S G E K G Y E
UniRef90_F1ZAU5 P K A R D V L A K V I T R T D L S N E A F P W L T G Q S I S I G G F I G E L G W E
UniRef90_M9RCU7 P A T R D C L G K L C A E A D L S L P W L S F Q E S E I V G A W V F A G E L G W E
UniRef90_G6D375 P N S Q R I L Q G Y T S A G L S N D A F P L Y S H C R A L R V S W T G E L G W E
UniRef90_M2X177 E Y C S K I L L I Y C N Q L S R V A P G L E R M D Q I W S D F V P D K P T V Y S
UniRef90_UPI0002629559 P A A E V L P E L G L P E A A W A E D W P S V A P G G V A Y G P D P G D A V A
UniRef90_X6GKE8 P R A R D V L A K A F P F M A T A R M D I G M A P C L V G R V S Y T G D L G Y E
UniRef90_B2VA03 E D S E K F I Q Q T F K E A P E K F K Y L K S G D I A N N P L R L G Q K G F D
UniRef90_E2CG83 P K A E D L V A R V I G D F R Y E Y V Q F Q G Q H M V L A R S G Y S K Q G G F E
UniRef90_X5UB27 P R S R E L L A R L T R A R D I R N M V V G N I P A M V A R V S F S G E L G Y E
UniRef90_UPI0003814C7E A A Q P A P G V L E G A E D A P D G L R L G I A P G R V L R I G T S P A P
UniRef90_C3XU71 P R A R E L M S S L T D V V T M S S H N F P P N V C R E M T I S H V I G E L G W E
UniRef90_Q16F15 P K S R E I I Q K I T D F D L S D E N P F Y K C N V R I L R V S F V I G E L G Y E
UniRef90_Q1GT82
UniRef90_W7T817 P E A A N L L E H K V F P P Q A H R C H T L P S G L V V A E G S G L A L P G L T
UniRef90_A6FQS3 P R A D D L M A A V F G D K V R D I R F F R F G V F D F Q G R D M V I A R G F E
UniRef90_C2KSF8 S E L A K V W I D P W P R P V I G E T T V Y T L P E A S H P G L H E P E K R I L
UniRef90_Q5LW00 P K S R E L L S R L V D W F D L H E G E V G W A T D V R L M R V N Y C G E G W E
UniRef90_Q6C8Y7 R D A T P D Y W R R E N E C D S G F F G L C E V A W S V A E V G E T S E V I E
UniRef90_F9EED0 G G A D A L D A W R D P W P G V V P G G T S Y D V G L A R A H P G A S W R A G L
UniRef90_D3PYF1 P R A R D L L S S I F G F G T A R H I T I D G V P V L A M R I S V I G E L G W E
UniRef90_UPI0002488A00
UniRef90_UPI00037712F8 A Q A N S L M A D L I G D M A A A E T E I A G L P V L V S R T G F S G E A G Y E
UniRef90_UPI000377D1B2 P K S P N V I W R M F G E Y W H R T V N F Q G T D L R I S R T G W S G E F G Y E
UniRef90_UPI0004026CAB A L A R R L T G Y R R R P I A I E P I E G G V H W S P D G T E F
UniRef90_A3VWX6 P Q S R E M L Q R L F P F M A S R R I E L G G V A C V A I R V S F T G D L G W E
UniRef90_A0A044RZW5 P K S R E V L E E L F K Q S S A Q L M R L G S A P V I A V R T T A A T G L S Y E
UniRef90_I1H1U8 P E A E S I G W G Q T D L G A E S S A Q G N G H G W Q W L K D P R L D Y E
UniRef90_UPI000363134F P R A A E L L A G A L P F L G A A R M T V G M A D C L V L R V S Y T G D L G Y E
UniRef90_T1213 P S S A K T L Q D L L G N E L N L A N M S F M I P T R I L T R C G Y T G E D G F E
UniRef90_H2ZAI2 P K S C Q V Z L Y K L S A S L S L L D C F I F H L Y P F P N R L S F V I G E L G F E
UniRef90_X1HYZ0 P K S L D V F S V L I E D
UniRef90_W4S721 L A A P A R A Q G A H A D I R T Q R I E L D L G S P A L S R T L V L L A N D E A
UniRef90_E5Y9A7 P A T V R V M T K L L K D P E A V F D K L P Y F P L S R T G Y T G E Q G F E
UniRef90_F0ZH12 D K T Y K T V R N D E L L S I L E D E G C S V M S D P R H Q I M G V R
UniRef90_A8U3E1 P K A E E L M V R V F G E G V R N F F R F A L L S F Q G R E M P V A R G F E
UniRef90_C7DCW9 P K A R D V L S R A F P W L T V R E C F V G L A P A T V M A V S F S G E L A Y E
UniRef90_R1FKA8 P L S H Q L L A P L V G G G A I D D L S A F P F D V R L R L T F V I G E L G F E
UniRef90_U5EXD6 P N S R L I L Q R L T D F D L S D D N S Q T T C Q Q V Q I L R T S F V I G E L G Y E
UniRef90_W8SR40 P R A R D L L Q A V S R E D V A G M R F L D V R Q A I V Q R V S Y T G D L G Y E
UniRef90_Q2CJN4 P K A E D V V A A L L G E F R F E P R E L D G I P L L L A R S G W S K Q G G F E
UniRef90_A3SII3 P K S R D V L A E A L P W L S L R E A F V G I A P V T V M N V S F S G E L A Y E
UniRef90_D3SM46 E D S K D F V E K V W G N A P Q E G R L I V E G S V L I H N S V R F R E T G Y D
UniRef90_D7GG14 D S M R F R L K V Q V S P R D D A R V L W V I G E G I D P A D L P A A L A P A
UniRef90_A6FNW1 P K S R E L L Q R L T N D F P F M R S Q R L E L G G V D C R V S F T G D L G W E
UniRef90_R4VKF73 P N A R R V L K P L T A E P D A L D A D Q F P F A H F R F R I S Y V I G E Q G W E
UniRef90_UPI00046A269A P K S R S L L Q G M T A D F P F M R S Q W I E I A G V R C R V S F T G D L G W E
UniRef90_A5CF27 F Y I N D S N L H H L N L N T A K L V T Q Y R D P R E N Q M G F
UniRef90_B0WFI9 P K A T Q L M S E L L Q P F I Y K K L N V G Y A S D V M I M T F T H T G P G Y C
UniRef90_UPI0003C12BC1 P L A R T V L Q K L T A E D L S D P A F I A D I P L T A I R I S Y T G E L G W E
UniRef90_L0AKT3 P D A R E V V Q S V E P D Y T A Q E I T V G E V D A W A M R L S Y V I G E L G W E
UniRef90_D0DC58 P N A R E T L L K V V A D P A G L D I E N F P F A I K F R I S Y V I G E Q G W E
UniRef90_A8UVY2 E G S D E F I K D A F G E F G D F E V K E I N G L L V A K N P V R L R Q K G Y D
UniRef90_E2CP61 P K S G E I T M A A L F G S Y W F R E M E L G G L P L I V S R T G W S S E L G Y E
UniRef90_C8PUU7 A V I D N G L S S F S E S E N G T D T D V D R K A W
UniRef90_U6PE59 P N S R K V L S E L F P Q R S T R L M R L G L V A V V C A R S S T S T G L S F E

UniRef90_B7RFV8 UniRef90_K2HBM4 UniRef90_W1SE61 UniRef90_L1IKQ1 UniRef90_UPI00046FDFC8 UniRef90_D4LXF4 UniRef90_H6MCS5 UniRef90_A0A023Y508 UniRef90_E3QTB3 UniRef90_UPI000376BE2F UniRef90_F9VNX5 UniRef90_A9SJE6 UniRef90_Q6ARJ5 UniRef90_W0DDG0 UniRef90_I4EF25 UniRef90_UPI00036B409B UniRef90_F3WTY6 UniRef90_UPI000375639F UniRef90_UPI00036E7821 UniRef90_D5BT30 UniRef90_UPI0003747E5C UniRef90_UPI0003B79A11 UniRef90_X5MNV5 UniRef90_U6NFV0 UniRef90_UPI00046608AB UniRef90_N0E148 UniRef90_Q8MQN6 UniRef90_UPI0003B64ACE UniRef90_B6BQH0 UniRef90_T1PCM5 UniRef90_N6UI66 UniRef90_E5ARE5 UniRef90_W2E658 UniRef90_U3GYH8 UniRef90_UPI000464E83D UniRef90_D5BR90 UniRef90_UPI000255F0C6 UniRef90_F1ZAU5 UniRef90_M9RCU7 UniRef90_G6D375 UniRef90_M2X177 UniRef90_UPI0002629559 UniRef90_X6GKE8 UniRef90_B2VA03 UniRef90_E2CG83 UniRef90_X5UB27 UniRef90_UPI0003814C7E UniRef90_C3XU71 UniRef90_Q16F15 UniRef90_Q1GT82 UniRef90_W77817 UniRef90_U6FQS3 UniRef90_C2KSF8 UniRef90_Q5LW00 UniRef90_Q6C8Y7 UniRef90_F9EED0 UniRef90_D3PYF1 UniRef90_UPI0002488A00 UniRef90_UPI00037712F8 UniRef90_UPI000377D1B2 UniRef90_UPI0004026CAB UniRef90_A3VWX6 UniRef90_A0A044RZW5 UniRef90_I1H1U8 UniRef90_UPI000363134F UniRef90_T12123 UniRef90_H2ZA12 UniRef90_X1HYZ0 UniRef90_W4S721 UniRef90_E5Y9A7 UniRef90_F0ZH12 UniRef90_A8U3E1 UniRef90_UPI00037DCW9 UniRef90_R1FKA8 UniRef90_U5EXD6 UniRef90_W8SR40 UniRef90_Q2CJN4 UniRef90_A3SII3 UniRef90_D3SM46 UniRef90_D7GG14 UniRef90_A6FNW1 UniRef90_R4VK73 UniRef90_UPI00046A269A UniRef90_A5CF27 UniRef90_B0WFI9 UniRef90_UPI0003C12BC1 UniRef90_L0AKT3 UniRef90_D0DC58 UniRef90_A8UVY2 UniRef90_E2CP61 UniRef90_C8PUU7 UniRef90_U6PE59

170 180 190 200

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

UniRef90_B7RFV8 S E F S P D Y T A A E T G L D R F 220 S F K K E D F I G R S A A E A E H A T G 240
UniRef90_K2HBM4 D D T Y L L E A G F E R L N G V D F R K K G C Y V G Q E V A R M K H K
UniRef90_W1SE61 E E L Q D Q I L W L E A N A G E L G G V D Y D K K G C Y V L G Q E N T A R M H Y R
UniRef90_L1IKQ1 H E L D N T D S V L E A N A G E L S W C A L D D K P G G F V L G R N A V
UniRef90_UPI00046FDFC8 R E Y R P L H G P L E A G L D R F V D Y D K K A D F I G K E A A R K E R L E G
UniRef90_D4LXF4 D F K H L S P Y E C G L G W A V A A D K D F I G K E A L A R K E H
UniRef90_H6MCS5 A S L W E G Q A V N P V Q L Q M Q W A V Q Y D K D D F I G K D A V
UniRef90_A0A023Y508 A D Q R E G W T P Q Q L G L D R L N G Y S V K K G C Y P G Q E V A R T H F L G
UniRef90_E3QTB3 A D V T S E H N P F E A G L E S A V I D P E K Q G Y V I G H D A I K R L
UniRef90_UPI000376BE2F A E F T Q D R T P G M T A M D R W I D W D K P D F I G K A A V
UniRef90_F9VNX5 E D I D E N I T P V I E A R Y W V F S L D K K Q F I G R E K I V I E Q L K N G
UniRef90_A9SJE6 T E I P G E A L P L E Y N L A G L N A L D F N K G C Y V G Q E L V A R T H H R G
UniRef90_Q6ARJ5 Q D W P F T N T P W P F A L L P Y G E D G N F T K D F V G G A D V V S
UniRef90_W0DDG0 K E L R E G Y S P L E A G L L N V A T S L T K G C Y V G Q E V I A R H Y K G
UniRef90_I4EF25 N E I L S T E I T P L E A G L A W A V R L D K G P F V G R D A L A Q Q K A A G
UniRef90_UPI00036B409B T I T S E K L V P Q M L N L D I N E G V N F S K G C Y P G Q E V V A R M H L Y L G
UniRef90_F3WTY6 G E L S G E T L W L E C N A R E L N G V S F T K G C Y V G Q E N T A R M H H R
UniRef90_UPI000375639F R E L T T E T G P V A A G L A F A C K L S G T D V D F L G R K A V E A A K
UniRef90_UPI00036E7821 A E L S G E T L W L E A N A R E L N G L S F T K G C Y V G Q E N T A R M H H R
UniRef90_D5BT30 S D L T S D Y T W L E S G L E R W V N F G K D D F T G K T A L M A E H Q A G
UniRef90_UPI0003747E5C L D F Y G E A F P H E A C L D Q L N G I D F F K G C Y V G Q E V V S R M E H R G
UniRef90_UPI0003B79A11 T E L G R D A T P L E A G L D R F V D L S K D F R G K A A M E
UniRef90_X5MNVW5 L D I G D K D F P L E S N L D L L N G I D F H K G C F V G Q E V A S R T H R K G
UniRef90_U6NFV0 E E L G G L L P F H A N G D L L N M V S L D K G C Y I G R E L T A R T A H T G
UniRef90_UPI00046608AB R E F S P D Y T A A E T G M D R F I H W A K A E F I G R D A H A D Q E T G
UniRef90_N0E148 R E L T T D I N P V I E A G L T F A C K L A T E W D F I G R A T V E S A K A A G
UniRef90_Q8MQN6 Q D L D T F T T P L E C G R S W R V K F N K P D F I G R N A L K Q R E E G
UniRef90_UPI0003B64ACE D I G T D E L L W L E T G R A D L L D G V S F T K G C Y V G Q E N T A R M H H R
UniRef90_B6BQH0 N D F T G E N N P L E C N L E K Y C K A D A S H D F V G K Q A L T K I Q S E G
UniRef90_T1PCM5 F D L R P D D T P L E A G L G F T C R K E G S Y K G K E A I E K Q R K E G
UniRef90_U6UI66 D Y E I G K V F P H D I N Y D Q I S G L S F N K G C Y I G Q E V V S R M Y H R
UniRef90_E5ARE5 A A T S E Q F V P Q M I K F R T R W H Q L S Q G
UniRef90_W2E658 H P Y F E F K T G Q E L S L F E E W F V D F Y K D A F I G K E F E L Q Q L E K G
UniRef90_U3GYH8 V D T D T T I P H Y A F V K D Q R A V H F D D K G C Y R G K E T V A R V H F L G
UniRef90_UPI000464E83D A D L I T Q Y N L T E A D L A R P K V K E A D F R G K E Y K A R A H
UniRef90_D5BR90 R E F R P I T G A V E T G L D R F V A Y D K D T D F I G K A A A H A E R E S G
UniRef90_UPI000255F0C6 Q D M D Q E T L P F Q V N L G Y Q V P R G K A G E Y V G K A A L E R Q V E A G
UniRef90_F1ZAU5 R E L S I E Y A A L E S G L D R F I S F K K P A F K G R A G L L A R K E A G
UniRef90_M9RCU7 G D L S T D Y S L L E G G L D R F I R F D K P D F P G K A A L A E K Q Q G
UniRef90_G6D375 A D L R T D D N P V I E A N L S F A C R K D G E Y I G N E S V T R A R Q N G
UniRef90_M2X177 T D Y F L N S L P F E G N L D Y L N G I S F S K G C Y L G Q E T T A R V N Y T G
UniRef90_UPI0002629559 R E V D E R S L P H E L D L R T A V H T A K G C Y R G K E T V A K V M N L G
UniRef90_X6GKE8 R E Y R P I Y G P L E A G L D R F V A Y G K E T D F I G K Q A A L A E R Q Q G
UniRef90_B2VA03 K E L I E K V L T L E T N I W K Y A I S L N K G C Y V G Q E A I A R V Y F R G
UniRef90_E2CG83 N D M T R N N T P H E C G L G K F C Q T Q K A I G C F V G R D A L R V A V E G
UniRef90_X5UB27 T D F R P D F T A A E S G L D S Y V A F D K Q A D F V G K A A A E R Q H
UniRef90_UPI0003814C7E A S Q A E Q W T P Q Q L G L E R L R A F S V S K G C Y P G Q E V A R T H F L G
UniRef90_C3XU71 T D L D S S V T P F E C Q Q E H T V K L D K D F I G R S A L L E Q K Q E G
UniRef90_Q16F15 Y D L R S D D T P V I E A N L G F T C R K R G D Y Q G R A A L D R Q L E N G
UniRef90_Q1GT82 S E L G D G T T W L E C N A A E L N G V S F A K G C Y V G Q E N T A R M N W R
UniRef90_W7T817 K E L T L E V T P L E A G L W H T V D P E K G C Y L G Q E T L A K Q
UniRef90_A6FQ53 N D M T D D N T P H E C G L G R F C N T H T A I G C I G R D A L R V A K E G
UniRef90_C2KSF8 R E G M P G M L P H E L D W L R S A V S L N K G C Y T G Q E T V A K L V N R G
UniRef90_Q5LW00 Q E I T T Q N T L H E L G L G R F I A T G K T G F I G Q A Q A V A
UniRef90_Q6C8Y7 R E I P P N K L P M E S D L D Y M N G L I A D F N R G C Y V G Q E L T I R T H H T G
UniRef90_F9EED0 R E V D E R T I P H E L D W L R T A V H L T K G C Y P G Q E T I A R T L N L G
UniRef90_D3PYF1 A E L D G E Y D P V I E A G L A L P K V K A A E F I G K D A Y L R A R
UniRef90_UPI0002488A00 A E F Q D K T L W L E A N G R E L N G V S F T K G C Y V G Q E N T A R M H H R
UniRef90_UPI00037712F8 Q D V D S E M V P F Q V I G L A S H I P R N K A D Y I G R A A L E K M R D E
UniRef90_UPI000377D1B2 V D M G V K E E N P Y E V G L G R L V L E N D N K F I G R S E L E K I R
UniRef90_UPI0004026CAB A E L Q D K I L W L E C N A A E L G G V S F T K G C Y V G Q E N T A R M H Y R
UniRef90_A3VWX6 R E Y S P E Y W P Q E A G L D G L C K M D
UniRef90_A0A044RZW5 R E L T L N T N P Y E C G L G Y M V D L N K E N F I G K E L S Q K Q W N R
UniRef90_I1H1U8 T E I P G E A L P L E Y N L A G L N A I V D F N K E N F I G Q E L I A R T H H R G
UniRef90_UPI000363134F R E Y T P D Y T P A E T G L G R F L D W S R E G W I G R E A
UniRef90_T1I213 N D I D K T T T P V I S A V L M W T I G K R R K E L D F P G Q A I M A E Q K E
UniRef90_H2ZAI2 T S I N S N D N P I E A R L L K S C Y L G G E A L E K L R
UniRef90_X1HYZ0
UniRef90_W4S721 D A Q R E Q W N T P Q P L A L D R L Q A F S V K K G C Y P G Q E L V A R T H F L G
UniRef90_E5Y9A7 Q D I G P V N T P W P F T L P K D E N G N W T K N F F G R S A L E E A L A S G
UniRef90_F0ZH12 N E Y W G S V I P L E Y N F D L L N G V D F H K G C Y L G Q E L T S R T Q A S T G
UniRef90_A8U3E1 N D M T R E N T P H E C G L G R F C D T Q T A I G C F V G R D A L L I R Q A S E G
UniRef90_C7DCW9 S D I L T E F D P F E T G L S R F I K I D K P D F V G R Q A L I Q R Q S E G
UniRef90_R1FKA8 A D L A C G D S P Q E A A I G F T V L P K L R R E D F L G R D A L A K M Q
UniRef90_U5EXD6 F D L R I D D T P L E S N L G F V C R K N G D Y V G K E K I D I Q K K N G
UniRef90_W8SR40 R E F S P D Y T P G E T L D R F I A W K A D F I G R D A L A
UniRef90_Q2CJN4 A D M R R Q T H P T P Y E M G F G M V D L G H D F I G R D A L A
UniRef90_A3SII3 A D L L T E F D P F E T G L D R F V R M E K G D F I G K A A L E K R V A E G
UniRef90_D3SM46 K E L R E G S P L E A G V L R Y A I S L N K G C Y V G Q E A I A R V Y Y R G
UniRef90_D7GG14 I D T D D K T L P N E L G L Y A T E L D K G C Y T G Q E T V A R V H N V G
UniRef90_A6FNW1 R E Y S P E Y W P Q E V G L A G L C K M D K D
UniRef90_R4VK73 A D L R T E Y N L I E A G L T R P K V K P A D F H G K S A Y L E Q R N Q
UniRef90_UPI00046A269A R E Y S P E Y W P Q E V G L E R L C K M D K D F L N K D A V
UniRef90_A5CF27 G E I D N K A L P P E Y G A D R L N A I S Y S K G C Y I G Q E L I S R I K S Q G
UniRef90_B0WFI9 D E L T S L T P F E A G V Y S V R L D K K K A N F I G R A A L E Q Q K Q Q G
UniRef90_UPI0003C12BC1 S E L N C D T N P L E A G M D Y F
UniRef90_L0AKT3 H E L E L E Y D P A E A G L T F H G V K E A D F I G K E A Y A
UniRef90_D0DC58 A D L H T Y N L I E A A L A R P K V K E A D F R G K E
UniRef90_A8UVY2 K E L K E G F S P L E A G V L S Y A I D M N K G C Y V G Q E A I A R V Y F R G
UniRef90_E2CP61
UniRef90_C8PUU7 K T T A G L W Q P Q E L R L H Q Q G G V D Y D K G C Y L G Q E I I A R L Y F K
UniRef90_U6PE59 R E L T L D T N P F E C G L G A L I V D F T K E D F I G K S A

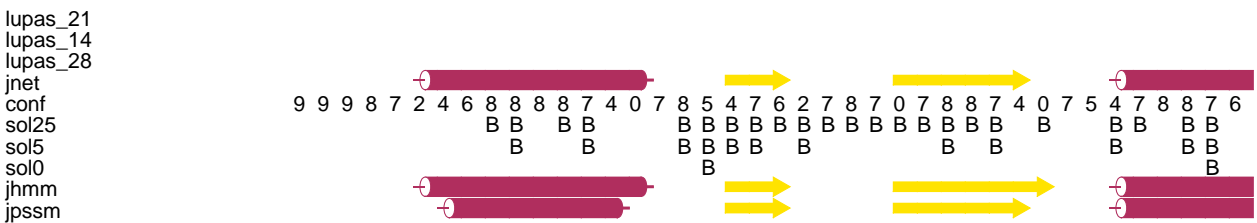
UniRef90_B7RFV8	
UniRef90_K2HBM4	
UniRef90_W1SE61	
UniRef90_L1IKQ1	
UniRef90_UPI00046FDFC8	
UniRef90_D4LXF4	
UniRef90_H6MCS5	
UniRef90_A0A023Y508	
UniRef90_E3QTB3	
UniRef90_UPI000376BE2F	
UniRef90_F9VNX5	<input type="checkbox"/>
UniRef90_A9SJE6	<input type="checkbox"/>
UniRef90_Q6ARJ5	
UniRef90_W0DDG0	
UniRef90_I4EF25	<input type="checkbox"/>
UniRef90_UPI00036B409B	S
UniRef90_F3WTY6	
UniRef90_UPI000375639F	
UniRef90_UPI00036E7821	
UniRef90_D5BT30	T
UniRef90_UPI0003747E5C	T
UniRef90_UPI0003B79A11	
UniRef90_X5MNV5	
UniRef90_U6NFV0	<input type="checkbox"/>
UniRef90_UPI00046608AB	
UniRef90_NOE148	
UniRef90_Q8MQN6	<input type="checkbox"/>
UniRef90_UPI0003B64ACE	
UniRef90_B6BQH0	
UniRef90_T1PCM5	
UniRef90_N6UI66	
UniRef90_E5ARE5	
UniRef90_W2E658	
UniRef90_U3GYH8	
UniRef90_UPI000464E83D	
UniRef90_D5BR90	
UniRef90_UPI000255F0C6	T
UniRef90_F1ZAU5	
UniRef90_M9RCU7	
UniRef90_G6D375	<input type="checkbox"/>
UniRef90_M2X177	<input type="checkbox"/>
UniRef90_UPI0002629559	
UniRef90_X6GKE8	
UniRef90_B2VA03	
UniRef90_E2CG83	
UniRef90_X5UB27	
UniRef90_UPI0003814C7E	
UniRef90_C3XU71	<input type="checkbox"/>
UniRef90_Q16F15	<input type="checkbox"/>
UniRef90_Q1GT82	
UniRef90_W7T817	
UniRef90_A6FQS3	
UniRef90_C2KSF8	
UniRef90_Q5LW00	
UniRef90_Q6C8Y7	<input type="checkbox"/>
UniRef90_F9EED0	
UniRef90_D3PYF1	
UniRef90_UPI0002488A00	
UniRef90_UPI00037712F8	
UniRef90_UPI000377D1B2	
UniRef90_UPI0004026CAB	
UniRef90_A3VWX6	
UniRef90_A0A044RZW5	
UniRef90_I1H1U8	<input type="checkbox"/>
UniRef90_UPI000363134F	
UniRef90_T1I213	
UniRef90_H2ZAI2	
UniRef90_X1HYZ0	
UniRef90_W4S721	
UniRef90_E5Y9A7	
UniRef90_F0ZH12	
UniRef90_A8U3E1	
UniRef90_C7DCW9	
UniRef90_R1FKA8	
UniRef90_U5EXD6	T
UniRef90_W8SR40	
UniRef90_Q2CJN4	
UniRef90_A3SII3	
UniRef90_D3SM46	
UniRef90_D7GG14	
UniRef90_A6FNW1	
UniRef90_R4VK73	
UniRef90_UPI00046A269A	
UniRef90_A5CF27	<input type="checkbox"/>
UniRef90_B0WFI9	
UniRef90_UPI0003C12BC1	
UniRef90_L0AKT3	
UniRef90_D0DC58	
UniRef90_A8UVY2	
UniRef90_E2CP61	
UniRef90_C8PUU7	
UniRef90_U6PE59	

1 10 20 30 40

```

UniRef90_Q7RKQ5          H L H T R S K C S I F D Y T Y R P I L K I S G N D K I I F L E
UniRef90_X2LAX4          E Q L E L S A D C G L I N L S H F H I T D I E G S D H V A L M E
UniRef90_B9J8P1          E A K A V R D S V G L M E T S G F A K Y S V K G S G A E A F L D
UniRef90_W8RZ08    P A G E Y H R L I H G V A M W D V A A Q R Q V E L L G P D A W K L A Q
UniRef90_S9RWF8          D E A K A I R E G N V G I L D A S A F A K H A V K G S P G A T A F L D
UniRef90_Q0FCP2          R E V K N V Q E N V G L C E V N G F N R I E I T G S D R H N F L D
UniRef90_A8LKB7          A R A E A E A V R S T A G L I D A T A F A K H R V S G P G A T A F L D
UniRef90_UPI0003C12E2E   H M H T R E H C S I L F D V S H M L Q T K V L G K D R V K F M E
UniRef90_UPI0003B46628   A L R A G Y G I A E T G L Q V L T V S G P D T P S W L T
UniRef90_J9YXR9          N H L K N H V Q I W D V S V E R Q V Q I E G P D A D Y L T Q
UniRef90_F0L5C1          E V K N V T Q N V G V L D M S A F A K M E V S G P G A R A W L D
UniRef90_Q5LKS1          A L A E A Q A T R A T A G V I D L C A F A Q F E I T G T D A G K L L N
UniRef90_UPI000362A7CA   F A L T D H G L V T L Q G P D A V A F A Q
UniRef90_G7UN64
UniRef90_G6CYA7          E E A R A I R E G V G L I D A T A F A K H T V T G A G A T E F L D
UniRef90_A3K3G7          D V A V E R Q V Q L K G P D A A E L A Q
UniRef90_E0MTD2          G A K H E H I N T I V K A G L F D T S H M S M L T L T G D S S F D L L Q
UniRef90_V4JCK7
UniRef90_F3GTC6
UniRef90_UPI000441A219   F P P R N E C L T C R N A L A V F D M S Y F G K F Y L V G P E A R K A A D
UniRef90_R7I284          E K H S A L T G A L K D V R A A R V I R T E G E N G E K L L R
UniRef90_UPI00034F8E0F   F P P Q H E C L A C R G A A A V F D M S Y F G K F Y L L G P D A R R A A D
UniRef90_UPI000237AC54   R E T K N L Q E N V G L T E V N G F N R L E I T G T D R H E F L D
UniRef90_B7FWN9          R R L L S V S G Q G A T T F L Q
UniRef90_T0R8E4          V I V R G V D A Q E F L Q
UniRef90_UPI000375808E   E Y E L L R S A C G L L D Y T G L G L L R I A G S G A A P F L S
UniRef90_A9E5C8          E V K N V A E N V G L C E V N G F N R F E I T G S D R H S F L D
UniRef90_UPI0003B49ECA   A K A E A T A L R D T A G L I D A S A F T K H T V R G A G A T A F L D
UniRef90_G1MUD3
UniRef90_Q2CDZ1          D E A T A I R E G V G M I D A S A F T K H L L R G P G A A A F L D
UniRef90_UPI00035EF4A3   E S T A H V R G C Y L G D W T S L N K I E V S G P E A L A F L A
UniRef90_UPI0003EC26F9   F S Q T K I H G R D R V K L M E
UniRef90_F8EVA1          L D D R A I I R L T T A D V V D F L Q
UniRef90_B5IQH2          L L R L E G T D S R R F L H
UniRef90_UPI00036BFC8F   E V K N I Q N N V G L T E V N G F N R F E I S G P D A N G F V E
UniRef90_UPI000466F9E6   R D E Q R A W R D S A V L F D Q S H M A E L M V E G P D A G A F L E
UniRef90_UPI000237826A   R H E A G V V D M S D W G R F A L R G V A Q D A L D
UniRef90_A4CT27          H F D V I R L E G S G S A G F L H
UniRef90_J9YUZ3          F G S L E E S D H L K K D V Q V W D V A A E R Q V E I V G K D A A K L V Q
UniRef90_W5DRW8
UniRef90_A3JQ13          E A E V Q H I H N H V G I A E V N G F N R I E I T G T G V M E W L D
UniRef90_UPI0003B450F7
UniRef90_UPI000374DC83
UniRef90_A3V8G5          F T T W R D E Q W A W R N T I A V H D Q S H M N S T H V R G P D A L A F T Q
UniRef90_N9Q8S2          F T L F S L N G V D A Q K F L Q
UniRef90_V2UV13          M S D L A F I Q L N G V D A Q K F L Q
UniRef90_F7FHQ0          E S E V K C C K E A V C V I D M S S F T K F E I T G D Q A L E V L Q
UniRef90_F1KTZ2          R E Y E M A T T K C A I V D L T W R G K I E V R G P D S I L L D
UniRef90_B9L4S8          F P D L P P R D E Q H A W R E S V A L F D Q S H M T N L Y L S G P G A L R V L E
UniRef90_S9XBP7
UniRef90_UPI0003BB9012   E S E V K C C K E A V C V I D M S S F T K F E I T G D E A L E S L Q
UniRef90_D6RD07          R D E Q R A W R E S A V L Y D Q S H M D E L I V E G P D A E A F L S
UniRef90_X7EEH7          T A F S P E K E Y E S L I N D V T F G D F A A E R Q I E I N G K D A Y N F V R
UniRef90_UPI00036A6F16   F P P H H E C L S C R R R A V F D M S Y F G K F Y L F V A L A R S F L
UniRef90_H2TAV8          C R L P G K S F I S V R G P D A V K F L N
UniRef90_R9X8Z9          T G D Q A L E V L Q
UniRef90_G3SHE9          E E Q R S W R E T C A F A D Q S H M T D H S V E G P D A L E F Y S
UniRef90_W0JY37          L L R L E G A G S R D F L H
UniRef90_A2CCL8          P G R E Q T A L A E G R A A C A L A R D V V T V T G P D R L S W L T
UniRef90_E7NDE6          L R L E G K G A R D F L Q
UniRef90_Q7U9L7          R D E Q V A W R D H A V L F D Q T H M D E L T V E G P D A E A F L A
UniRef90_B6AU63          R D E Q H A W R D T V C L F D L S H M T D L F L R G P D A F A L L R
UniRef90_B9KZ10          D E T A A L R T D I G L I D L S G M S V T L I A G P V A Q A F I E
UniRef90_U2V9R3          E Q A A W R E G V V L K E L S H M W D L F L E G P D A L D L L R
UniRef90_S9RXW1          D W S F L W Q H R F T G P D V L A M L S
UniRef90_UPI00047AA13C   R S E Q R S W R D T V A L L D Q S H M T D L Y I N G P D A L Q L L S
UniRef90_UPI0004274C59   F P P H H E C L S C R H G V Y F D M S Y F G K F Y L E G D D W L Y W T G
UniRef90_H2TAV9          L D E S L S W K E S C Y I L G D W S F L W Q H R F T G P D A L R L F E
UniRef90_A0A024H318
UniRef90_UPI000331578A   R S E Q R A W R D S A V L F D Q S H M D N L I L R G P D A I N L I S
UniRef90_UPI000255DF2D   K E H L W C R A K C S L F D V S H M D E M T G E E
UniRef90_K0S903          F P P R Q E C L A C R G A A A V F D M S Y F G K F Y L V G V D A R K A A D
UniRef90_UPI0003EBF4B1
UniRef90_C5DJQ6          L V R L T G D D R L E F L D
UniRef90_U2S960          W F K G P D V E K L F S
UniRef90_W0EI58
UniRef90_UPI000288E5B1
UniRef90_L8MEC0

```



UniRef90_Q7RKQ5	T
UniRef90_X2LAX4	
UniRef90_B9J8P1	
UniRef90_W8RZ08	
UniRef90_S9RWF8	
UniRef90_Q0FCP2	
UniRef90_A8LKB7	
UniRef90_UPI0003C12E2E	
UniRef90_UPI0003B46628	
UniRef90_J9YXR9	<input type="checkbox"/>
UniRef90_F0L5C1	
UniRef90_Q5LKS1	
UniRef90_UPI000362A7CA	<input type="checkbox"/>
UniRef90_G7UN64	
UniRef90_G6CYA7	<input type="checkbox"/>
UniRef90_A3K3G7	
UniRef90_E0MTD2	
UniRef90_V4JCK7	
UniRef90_F3GTC6	
UniRef90_UPI000441A219	
UniRef90_R7I284	
UniRef90_UPI00034F8E0F	
UniRef90_UPI000237AC54	
UniRef90_B7FWN9	A
UniRef90_T0R8E4	
UniRef90_UPI000375808E	
UniRef90_A9E5C8	
UniRef90_UPI0003B49ECA	
UniRef90_G1MUD3	<input type="checkbox"/>
UniRef90_Q2CDZ1	<input type="checkbox"/>
UniRef90_UPI00035EF4A3	
UniRef90_UPI0003EC26F9	
UniRef90_F8EVA1	
UniRef90_B5IQH2	<input type="checkbox"/>
UniRef90_UPI00036BFC8F	
UniRef90_UPI000466F9E6	
UniRef90_UPI000237826A	
UniRef90_A4CT27	A
UniRef90_J9YUZ3	
UniRef90_W5DRW8	<input type="checkbox"/>
UniRef90_A3JQ13	
UniRef90_UPI0003B450F7	
UniRef90_UPI000374DC83	
UniRef90_A3VG55	
UniRef90_N9Q8S2	
UniRef90_V2UV13	
UniRef90_F7FHQ0	
UniRef90_F1KTZ2	
UniRef90_B9L4S8	
UniRef90_S9XBP7	<input type="checkbox"/>
UniRef90_UPI0003BB9012	
UniRef90_D6RD07	
UniRef90_X7EEH7	
UniRef90_UPI00036A6F16	
UniRef90_H2TAV8	
UniRef90_R9X8Z9	<input type="checkbox"/>
UniRef90_G3SHE9	<input type="checkbox"/>
UniRef90_W0JY37	
UniRef90_A2CCL8	
UniRef90_E7NDE6	
UniRef90_Q7U9L7	
UniRef90_B6AU63	
UniRef90_B9KZIO	
UniRef90_U2V9R3	
UniRef90_S9RXW1	
UniRef90_UPI00047AA13C	
UniRef90_UPI0004274C59	
UniRef90_H2TAV9	
UniRef90_A0A024H318	
UniRef90_UPI000331578A	
UniRef90_UPI000255DF2D	
UniRef90_K0S903	
UniRef90_UPI0003EBF4B1	
UniRef90_C5DJQ6	
UniRef90_U2S960	
UniRef90_W0EI58	
UniRef90_UPI000288E5B1	
UniRef90_L8MEC0	

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm