

1 10 20 30 40
QUERY A A P K A P A D G L K M D K T K Q P V V I F N H S T H K A V K C G D C H H P V N G
UniRef90_Q30WH0 D G L K M E N T K M T V V I F N H S S H S S Y Q C A D C C H H P V N G
UniRef90_G1UXA9 P P V P D K P L E F K G S K K T V M F S P H A Q H Q K V E C C V T C C H H K V Q D G
UniRef90_E1JRN1 K R P A G V L K T S F A P V S F S H G Q H A N I P C C V T C C H H M W D G
UniRef90_B8IY72 A I K E P I E I E A S G S K R M N V M F P H T A H K G I S C C F H C C H H E E G S G
UniRef90_T2G718 P L T L R Y L K K E V V F P H A A H G A L E C C R T C C H H P V D G
UniRef90_G1UX31 I K K P I E L N G T S K R M F V T F N H S S H K G V K C C R T C C H H E G L P
UniRef90_B6WXU8 P V P A D G L V L Q G P K K P V T F N H S T H K T V E C C V I C C H H P V D G
UniRef90_L0RDM8 K V R F A Q V V K F S H F D H Q D V N C C V K C C H H T W D G
UniRef90_UPI0003B6545D D K P L E F K G S K K T V M F P H A V H A K V E C C V T C C H H Q V D G
UniRef90_E5Y4X2 A Q I E K P M T M N N T G N E K K Q V I F T H S A H A K T D C A F C C H H K A V E
UniRef90_C8X5K5 S A M E A P G D P E G V K A R F S P V E F S H D A H S A L D C C E S C C H H M L A E
UniRef90_C8X085 G P S H F S H D S H Y A H D C C M T C C H H M W D G
UniRef90_UPI00035C6857 A A P S A F A S D L P A E A R R P A V P F S H T L H D R L D C A T C C H H E W D G
UniRef90_UPI00035FDC4F D A P S C P V K M E A T K K P V V I F N H A S H A D S K C D A C C H H P I D G
UniRef90_C6BUH4 A P D D D L V I N F I K P D V V I F N H S S H E N Y E I D C C H H N I K K
UniRef90_E6VZT9 A P P P S M Q A T K A P V D F S H D R H A A I D C A T C C H H T W D G
UniRef90_F0JDK5 P K T M E A V K S P V D F P H G A H R A A D C T T C C H H T W D G
UniRef90_P38554 P K Q F E G Y T K K G D V T F N H A S H M D I A C Q Q C C H H T V P D
UniRef90_L0R8D6 A V D A P G D P A G A K M T K S P V D F S H K G H A A V D C T K C C H H N W D G
UniRef90_S7USW4 P E G A T K T Q S I I K F S H T A H G A L E C C T A C C H H T W D G
UniRef90_A8FWU2 E V P Q A V L P M H E T S K P V E F D H L R H T Q V E C T Q C C H H K N E E
UniRef90_UPI00036DD270 A A N E A P A D I E P F K M R K A P V Q F P H A A H E K L E C T T C C H H E W D G
UniRef90_P00133 A D G A K I D F I A G G E K N L T V V I F N H S T H K D V K C D D C C H H P D G
UniRef90_E5Y2S7 A T G G K Q K M D V V I F N H S S H R R V R C Q T C C H H P S D I
UniRef90_S0G6U2 A P P E E V D A R R A A V E F P H G A H F D Y S C Q L C C H H D W Y G
UniRef90_S0G6U2 A P P E E V D A R R A A V E F P H G A H F D Y S C Q L C C H H D W Y G
UniRef90_I5B3B3 P E G V E A T R G S V G F P H G L H F Q F A C K S C C H H D W D G
UniRef90_I5B3B3 P E G V E A T R G S V G F P H G L H F Q F A C K S C C H H D W D G
UniRef90_C6BRK0 Q D N V A V K A T M A G V A F N H K A H E D Y S C S S C C H H E T M N
UniRef90_Q728S8 I K R P A K N K P A S W V G V K F P H G F H A I H N C K A C C H H E S D
UniRef90_UPI0003B627A8 P P G Y S P K K S W V I F P H S F H F K F S C K R C C H H E W E P
UniRef90_UPI0003B627A8 P P G Y S P K K S W V I F P H S F H F K F S C K R C C H H E W E P
UniRef90_A1VBG7 T K P A V L F P H D T H G S M D C G T C C H H K G Y Q
UniRef90_B8FKY6 P E D V E A K F A D V R F P H A D H F S Y S C M E C C H H M W D G
UniRef90_B8DM32 I K R P E K N Q P M A A W V K P V T F P H G K H A V L N C D S C C H H E E S D
UniRef90_B8DQZ3 P Q G A K L A K P R V P F P H E A H T A V D C G S C C H H K G Y V
UniRef90_L0RBZ6 E A P D D G L E I N H I E G S V M F N H S S H E S Y D C G S C C H H N S P A
UniRef90_L0RBZ6 E A P D D G L E I N H I E G S V M F N H S S H E S Y D C G S C C H H N S P A
UniRef90_C0QHA6 E A P D D G L E I N H I E G S V M F N H S S H E S Y D C S E C C H H K M K E
UniRef90_Q9RN68 A P D K P I E L K S S E H K K M W V K F D H A T H E S V E D V C C H H R S P L
UniRef90_Q9RN68 V D A P A D P A G A K V T K A P V A F S H K G H A S M D C K T C C H H K W D G
UniRef90_B6WSI9 P A G A K A T K T P V V I F P H K K H G G I D C L V C C H H K A T S
UniRef90_P00134 P A G A K A T K T P V V I F P H K K H G G I D C L V C C H H K A T S
UniRef90_F0JIY2 A V D A P A D P E G M P A T Q S P V K F S H K G H A K I D C K A C C H H K
UniRef90_G1UVJ3 A V D A P A D P E G M P A T Q S P V K F S H K G H A K I D C K A C C H H K
UniRef90_G1UVJ3 A V D A P A D P E G M P A T Q S P V K F S H K G H A K I D C A V C C H H N S P L
UniRef90_C4XGG7 A V D A P A D P E G M P A T Q S P V K F S H K G H A K I D C A V C C H H N S P L
UniRef90_UPI00039ECBD1 A V C C H H N S P L
UniRef90_UPI00039ECBD1 A V C C H H N S P L
UniRef90_B6WTN7 A T C C H H R S P L
UniRef90_B6WTN7 A T C C H H R S P L
UniRef90_E5YBQ5 P S G A R Q T M P P A R F S H Q A H T P I N T I C C H H T G Y V
UniRef90_S7U5Y8 K A P A D P A G A T L T Q G Q V M F S H K T H A S Y D C K T C C H H T W D G
UniRef90_D6SNJ7 P V P F S H T V H G D Y D C G E C C H H P L D E
UniRef90_C8X171 S S C C H H N S P A
UniRef90_C8X171 S S C C H H N S P A
UniRef90_UPI00037DF27F S V T F N H S S H E G Y S N T C C H H K W K D
UniRef90_G7QD77 A D P V V G A D G K P V K Y G M P P V P F D H K Y H E S K N V S C C H H
UniRef90_UPI0003B392E9 N C G A C C H H V Y D K
UniRef90_UPI0003B392E9 N C G A C C H H V Y D K
UniRef90_E5Y9L6 A A C C H H N S P I
UniRef90_E5Y9L6 A A C C H H N S P I
UniRef90_S0G8A7 K A V Y R M S P V V I F D H K Q H E A A S C R V C C H H E S L E
UniRef90_D6SRB8 A P E E Y G E M R E A P S P F S H T V H G D F D C G E C C H H P W D G
UniRef90_UPI0003761587 E A P K D P V I I G A K K P K V A F P H A T H A A L Q C E T C C H H M L K K
UniRef90_C7LX19 S A V P F N H K L H E E K N C S V C C H H N A S S
UniRef90_C0QF53 R S A V F F P H G L H M D L E C L D C C H H V Y E G
UniRef90_P00135 P A G A K M T K A P V D F S H K G H A A L D C T K C C H H K W D G
UniRef90_A1VAR1 I E L K H G T S K R M H V M F N H T T H K D I A C E Q C C H H D P S P
UniRef90_P24092 Q G C C H H N S P A
UniRef90_P24092 Q G C C H H N S P A
UniRef90_UPI000463133B K P A T P Y A G M Q P V P F D H K T H E A K N C V S C C H H
UniRef90_B8DR59 A G C C H H N S P A
UniRef90_B8DR59 A G C C H H N S P A
UniRef90_S7VAY6 I K R P K N L E A Q S S W V G S V Q F P H G L H A V M N C R A C C H H M E T D
UniRef90_UPI0003B4E8C8 E A P K D P V E M K Y K Y A P I M F M H D K H L G V A C A T C C H H K W D G
UniRef90_UPI0003775F83 E R P K G N E P L A T S V V K F A H G F H A R V P C Q K C C H H K E S D
UniRef90_B8DK10 P K K A I E L K H G T S K R M H V K F N H T S H K D V A C E Q C C H H T P D P
UniRef90_E6VQP6 P E G S P M T K P A V V I F P H K K H A D I D C L V C C H H K S E S
UniRef90_T2G9Q2 C C S G C C H H N A K P
UniRef90_T2G9Q2 C C S G C C H H N A K P
UniRef90_M1WM43 P N G Q K M S K T P V E F P H K M H V D I D C L V C C H H K A T S
UniRef90_F0JK49 T Y E R K Y E P V R F M H A K H A A A D C A S C C H H R P E D
UniRef90_Q30UU9 I E R P A N Y E K L N S W V T K V N F T H G A H A R V S C N Q C C H H K E S D
UniRef90_M5PSE9 T R L P V G M D R S L H A R H K C E S C C H H R F D E
UniRef90_M5PSE9 T R L P V G M D R S L H A R H K C E S C C H H R F D E
UniRef90_M5PSE9 T R L P V G M D R S L H A R H K C E S C C H H R F D E
UniRef90_C8X3T7 P A T M E R T M P R V V I F S H D Q H R E M E C S L C C H H A G
UniRef90_P94691 P Q V P A D V V I D H L S N P K V K F S H K A H A S L A C Q K C C H H K W D G
UniRef90_S7TTP9 Q G C C H H N S P V
UniRef90_S7TTP9 Q G C C H H N S P V

QUERY UniRef90_Q30WH0 UniRef90_G1UXA9 UniRef90_E1JRN1 UniRef90_B8IY72 UniRef90_T2G718 UniRef90_G1UX31 UniRef90_B6WXU8 UniRef90_L0RDM8 UniRef90_UPI0003B6545D UniRef90_E5Y4X2 UniRef90_C8X5K5 UniRef90_C8X085 UniRef90_UPI00035C6857 UniRef90_UPI00035FDC4F UniRef90_C6BUH4 UniRef90_E6VZT9 UniRef90_F0JDK5 UniRef90_P38554 UniRef90_L0R8D6 UniRef90_S7USW4 UniRef90_A8FWU2 UniRef90_UPI00036DD270 UniRef90_P00133 UniRef90_E5Y2S7 UniRef90_S0G6U2 UniRef90_S0G6U2 UniRef90_I5B3B3 UniRef90_I5B3B3 UniRef90_C6BRK0 UniRef90_Q728S8 UniRef90_UPI0003B627A8 UniRef90_UPI0003B627A8 UniRef90_A1VBG7 UniRef90_B8FKY6 UniRef90_B8DM32 UniRef90_B8DQZ3 UniRef90_L0RBZ6 UniRef90_L0RBZ6 UniRef90_C0QHA6 UniRef90_Q9RN68 UniRef90_Q9RN68 UniRef90_B6WSI9 UniRef90_P00134 UniRef90_F0JIY2 UniRef90_G1UVJ3 UniRef90_G1UVJ3 UniRef90_C4XGG7 UniRef90_UPI00039ECBD1 UniRef90_UPI00039ECBD1 UniRef90_B6WNT7 UniRef90_B6WNT7 UniRef90_E5YBQ5 UniRef90_S7U5Y8 UniRef90_D6SNJ7 UniRef90_C8X171 UniRef90_C8X171 UniRef90_UPI00037DF27F UniRef90_G7QD77 UniRef90_UPI0003B392E9 UniRef90_UPI0003B392E9 UniRef90_E5Y9L6 UniRef90_E5Y9L6 UniRef90_S0G8A7 UniRef90_D6SRB8 UniRef90_UPI0003761587 UniRef90_C7LX19 UniRef90_C0QF53 UniRef90_P00135 UniRef90_A1VAR1 UniRef90_P24092 UniRef90_P24092 UniRef90_UPI000463133B UniRef90_B8DR59 UniRef90_B8DR59 UniRef90_S7VAY6 UniRef90_UPI0003B4E8C8 UniRef90_UPI0003775F83 UniRef90_B8DK10 UniRef90_E6VQP6 UniRef90_T2G9Q2 UniRef90_T2G9Q2 UniRef90_M1WM43 UniRef90_F0JK49 UniRef90_Q30UU9 UniRef90_M5PSE9 UniRef90_M5PSE9 UniRef90_M5PSE9 UniRef90_C8X3T7 UniRef90_P94691 UniRef90_S7TTP9 UniRef90_S7TTP9 UniRef90_S7TTP9

50 60 70 80

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

90 100
QUERY V G C H L E T A G A D A A K K K E L T G C K G S K C H S
UniRef90_Q30WH0 M S C H L E A A G S D K D L K K E L T G C C K K S K C H S
UniRef90_G1UXA9 L E C G H T K V V A E K P E L K K D L T G C C A K S N G C C H
UniRef90_E1JRN1 L G C H M K T N I A R K E K G Q K P S P C S N N G C C H
UniRef90_B8IY72 L G C H K K L A A E N P G K F P Q F K G C C R P C C H
UniRef90_T2G718 L A C H K K D T A A K N P E R K K V L T G C C A G S A C C H
UniRef90_G1UX31 Y G C H R K L A G K Y P N F K G C C R P C C H
UniRef90_B6WXU8 L S C H V K V V A E K P D L K K D L T G C C A K S K C C H
UniRef90_L0RDM8 R G C H V K M N K E G K T D I A T A P C C A N N A C C H
UniRef90_UPI0003B6545D I G C H S K V V E G K P E L K K D L T A C C A K S K C C H
UniRef90_E5Y4X2 M G C H Q K A V A E N P D L K E K F K G C C N P C H A
UniRef90_C8X5K5 L G C H M A K K K A G E T T G P A C T Q C C H
UniRef90_C8X085 L G C H M M Q L K K A G E P T G P G C T T C C H E K
UniRef90_UPI00035C6857 V G C H S T A R R A G S T D V P S C G D C C H
UniRef90_UPI00035FDC4F M S C H K E A A G K D K A M K K A L T G C C K K S K C H S
UniRef90_C6BUH4 L G C H V K E F G N D K E M T G C C I N S A C H
UniRef90_E6VZT9 L G C H K D M V K Q G R K A P V A C K D C C H A N
UniRef90_F0JDK5 L G C H K T A K K D G K P A P A S C K Q C C H
UniRef90_P38554 V G C H R E L K R Q G P S D A P L A C N S C H
UniRef90_L0R8D6 V G C H K A L K K A K E K T G P K C G D C C H P K K
UniRef90_S7USW4 M G C H R V E R Q A G K T N V P A C T A C C H
UniRef90_A8FWU2 L S C H V N E Q K T R S K D K P S L T G C C T N S S C H
UniRef90_UPI00036DD270 I K C H R Q E R K G P K G C N D C C H
UniRef90_P00133 L S C H K D K A G D D K E L K K K L T G C C K G S A C H
UniRef90_E5Y2S7 Y G C H M K K R K Q Y T G F Q K G C L P C H E K A
UniRef90_S0G6U2 L P C H R E L Q Q E R
UniRef90_S0G6U2 L P C H R E L Q Q E R
UniRef90_I5B3B3 V S C H R D T D K K D K A D L P K A A P V N C K G C H
UniRef90_I5B3B3 V S C H R D T D K K D K A D L P K A A P V N C K G C H
UniRef90_C6BRK0 V G C H A V L K Q K D P N C A G C H E
UniRef90_Q728S8 M G C H R Q K R L K Q G E P P I S C T G C H
UniRef90_UPI0003B627A8 R D C H R E E L K K D K K Q A A G F T G I A C D G C H
UniRef90_UPI0003B627A8 R D C H R E E L K K D K K Q A A G F T G I A C D G C H
UniRef90_A1VBG7 M T C H L A L R E K G A A G P V G C R D C H T
UniRef90_B8FKY6 R D C H A E I G R K N T D I K K E N K G
UniRef90_B8DM32 L G C H R K M R E A G K M P P L S C T G C H K K
UniRef90_B8DQZ3 N A C H A R L L A A G K A A G P E C R D C C H K V K
UniRef90_L0RBZ6 M T C H D A M N L E K P A S T D C T A C C H A K K
UniRef90_L0RBZ6 M T C H D A M N L E K P A S T D C T A C C H A K K
UniRef90_C0QHA6 I A C H T R E F G D D P D M T G C C A T S A C H
UniRef90_Q9RN68 M G C H K G M D V A R P R D T D C T T C C H K A A
UniRef90_Q9RN68 M G C H K G M D V A R P R D T D C T T C C H K A A
UniRef90_B6WSI9 Y G C H T A M V G P G C R P C H
UniRef90_P00134 V G C H K S M K K G P T K C T E C C H
UniRef90_F0JIY2 L A C H K K E K K A G K N V P V S C K E C C H
UniRef90_G1UVJ3 M G C H K A M K V G R P K N T D C T T C C H K
UniRef90_G1UVJ3 M G C H K A M K V G R P K N T D C T T C C H K
UniRef90_C4XGG7 M G C H K K E A K G P T K C C P E C H P K K
UniRef90_UPI00039ECBD1 M G C H K K A M K V G R P K N T D C T T C C H K
UniRef90_UPI00039ECBD1 M G C H K K A M K V G R P K N T D C T T C C H K
UniRef90_B6WTN7 M G C H D G M D V A R P L D T S C A S C C H K
UniRef90_B6WTN7 M G C H D G M D V A R P L D T S C A S C C H K
UniRef90_E5YBQ5 V A C H T E S L A A G K P A G P D C K A C C H Q A P
UniRef90_S7U5Y8 L G C H R E A K K A G K A K A P S C T Q C H P K K
UniRef90_D6SNJ7 M D C H R D M T R E G E E T G P V A C N D C H T
UniRef90_C8X171 M G C H T R M E L E K P A A T D C A S C C H P K K
UniRef90_C8X171 M G C H T R M E L E K P A A T D C A S C C H P K K
UniRef90_UPI00037DF27F L S C H I E E F G N D K E M T G C C Y E S A C H
UniRef90_G7QD77 A G C H A T V Q K K P E C A G C C H
UniRef90_UPI0003B392E9 V S C H R E L A E A K K E T G P T C A G C C H S A
UniRef90_UPI0003B392E9 V S C H R E L A E A K K E T G P T C A G C C H S A
UniRef90_E5Y9L6 M A C H D R M K I E K P A A T D C A G C C H T
UniRef90_E5Y9L6 M A C H D R M K I E K P A A T D C A G C C H T
UniRef90_S0G8A7 V G C H T Q E T R K T D C A G C C H D
UniRef90_D6SRB8 M G C H R D L A R A G E E S G P A C C P E C C H
UniRef90_UPI0003761587 N G C H K S R K K E G K S A G P A C K G C C H T V K
UniRef90_C7LX19 V G C H A Q A Q A K P E C A G C C H T
UniRef90_C0QF53 M G C H I K S T K E Q A K I K P E M C G C C H T N K
UniRef90_P00135 V G C H K A L K K A T G P T K C G D C C H P K K
UniRef90_A1VAR1 Y G C H K K M A A Q H P E F T G C R P C H
UniRef90_P24092 M G C H D R M K I E K P A N T A C V D C C H K
UniRef90_P24092 M G C H D R M K I E K P A N T A C V D C C H K
UniRef90_UPI000463133B A G C H A A I Q K K P E C A G C C H D S
UniRef90_B8DR59 M G C H N R M K L E K P A D T A C A E C C H K
UniRef90_B8DR59 M G C H N R M K L E K P A D T A C A E C C H K
UniRef90_S7VAY6 L G C H K R K R L K R E A M P S C T G C C H K L K
UniRef90_UPI0003B4E8C8 V G C H T A N L K D N P D F K K K C N D C C H S K K
UniRef90_UPI0003775F83 L G C H T Q R R A A G G D N P V G C T A C C H K
UniRef90_B8DK10 Y G C H K K Q M A K D H P E F S G C R P C H M S A
UniRef90_E6VQP6 M S C H K K E K K A G K A A P V A C K D C C H K
UniRef90_T2G9Q2 I G C H Q E M Q V N P K A T D C C Q G C C H P K
UniRef90_T2G9Q2 I G C H Q E M Q V N P K A T D C C Q G C C H P K
UniRef90_M1WM43 L G C H K K A K K A G K S A P V S C K D C C H P K K
UniRef90_F0JK49 M N C H E K M K K G P V S C E G C C H T K
UniRef90_Q30UU9 L G C H T L M R S K G G K N P V G C T S A C H
UniRef90_M5PSE9 V S C H L Q K R A A A K D T G P N C A G C C H S A
UniRef90_M5PSE9 V S C H L Q K R A A A K D T G P N C A G C C H S A
UniRef90_M5PSE9 V S C H L Q K R A A A K D T G P N C A G C C H S A
UniRef90_C8X3T7 L N C H T E E K T H G H N Q D V P L H C A S C H
UniRef90_P94691 Q G C H K E M K T A K K T T G P A C A Q C C H N Q K
UniRef90_S7TTP9 M T C H A E M K L E K P A G C T G C C H K E K
UniRef90_S7TTP9 M T C H A E M K L E K P A G C T G C C H K E K

	1		10		20		30		40																	
UniRef90_K0NPE1					P	V	R	F	A	H	K	R	H	A	A	L	D	S	K	C	H	H	R	P	K	D
UniRef90_S7T120										H	A	A	E	F	A	V	C	A	S	C	C	H	H	N	S	P
UniRef90_S7T120										H	A	A	E	F	A	V	C	A	S	C	C	H	H	N	S	P
UniRef90_S7UJB9					A	D	P	A	F	A	P	R	Q	R	P	G	V	F	F	M	H	E	K	H	M	D
UniRef90_P00136					M	K	A	K	P	K	G	D	K	P	G	A	L	Q	K	T	V	P	F	P	H	T
UniRef90_UPI0003B43F13					P	Q	V	P	L	S	P	L	Y	P	Q	G	P	K	W	P	V	P	F	D	H	G
UniRef90_Q315E2																										
UniRef90_Q315E2																										
UniRef90_Q315E2																										
UniRef90_C8X1Y2					K	A	Q	G	L	Y	S	P	V	D	F	D	H	E	L	H	L	T	T	A	C	C
UniRef90_E1YDGO																										
UniRef90_E1YDGO																										
UniRef90_A8ZUW4					K	D	P	K	Y	T	P	G	Q	A	P	M	G	F	D	H	S	L	H	Y	D	N
UniRef90_A8ZUW4					K	D	P	K	Y	T	P	G	Q	A	P	M	G	F	D	H	S	L	H	Y	D	N
UniRef90_E6VQS7					T	Y	D	K	Q	Y	G	P	V	R	F	M	H	A	K	H	A	A	S	D	C	C
UniRef90_B5YFP9																										
UniRef90_D6SSM7					E	D	V	Y	T	S	K	K	K	P	S	V	L	F	D	H	D	L	H	M	A	
UniRef90_Q9R638					E	G	E	D	P	H	P	R	F	G	K	V	E	M	S	H	A	K	H	R	N	V
UniRef90_B8FFW2																										
UniRef90_UPI0003B5F9D4					P	K	A	S	K	M	K	A	V	V	F	N	H	R	L	H	Q	A	Q	K	C	C
UniRef90_I4CEC9																										
UniRef90_K0NK05					A	D	D	Q	T	K	K	N	Y	M	D	A	V	A	F	D	H	K	F	H	E	A
UniRef90_K0NT15																										
UniRef90_E1JZ85					L	K	A	P	E	G	Y	S	K	V	T	K	T	E	V	A	F	S	H	K	G	H
UniRef90_C6BRK7																										
UniRef90_D6SST1					P	P	V	E	Y	E	E	K	Y	G	E	K	R	L	A	P	V	P	F	S	H	D
UniRef90_F8C3E3					E	F	V	K	L	K	Y	P	L	V	E	F	D	P	K	F	H	Y	D	H	D	C
UniRef90_F8C3E3					E	F	V	K	L	K	Y	P	L	V	E	F	D	P	K	F	H	Y	D	H	D	C
UniRef90_A8ZTK8																										
UniRef90_K1YNL0					A	A	D	P	G	P	A	E	T	L	G	E	G	K	K	P	A	V	F	P	H	K
UniRef90_D2QYM7																										
UniRef90_F3YUC0					P	E	G	V	K	P	R	S	T	W	L	K	K	V	Q	F	D	H	E	T	H	S
UniRef90_K0NAD9					P	L	Y	E	K	H	T	K	G	L	V	Q	F	T	H	K	Q	H	V	E	I	A
UniRef90_UPI00046CD62A																										
UniRef90_UPI0003B6AB80					P	A	T	L	E	F	P	G	G	K	G	K	V	V	F	N	H	E	K	H	Q	K
UniRef90_I5B4L2					D	A	E	K	P	C	K	L	V	E	F	T	H	K	K	H	Y	K	I	S	C	G
UniRef90_UPI0003734801																										
UniRef90_B9M517																										
UniRef90_I4C8C5					K	D	V	F	K	E	K	K	A	P	V	T	F	S	H	T	K	K	A	L	K	C
UniRef90_D8FAC3																										
UniRef90_A8ZS59																										
UniRef90_S0G649																										
UniRef90_B6WV78																										
UniRef90_X7A162																										
UniRef90_A0A023D6X9																										
UniRef90_Q2LQK1																										
UniRef90_F2NGH7																										
UniRef90_UPI0003B685BE																										
UniRef90_B5YKW8					D	L	K	L	E	G	A	K	F	P	V	L	K	F	S	H	A	K	H	Y	K	
UniRef90_S2KEL1																										
UniRef90_V4IF16																										
UniRef90_UPI000255704B																										
UniRef90_R9VG68																										
UniRef90_S7V061																										
UniRef90_UPI000373CB39					K	R	G	P	V	K	F	N	H	D	A	H	V	S	L	D	C	T	A	C	H	R
UniRef90_S6BH20																										
UniRef90_UPI00036F8DE5																										
UniRef90_C6BTM3																										
UniRef90_F8C666					A	T	P	P	T	E	V	E	I	I	V	E	G	A	K	M	A	G	V	K	F	
UniRef90_E1SSH5																										
UniRef90_A0A031MI05																										
UniRef90_Q30UZ3																										
UniRef90_F3KYS8																										
UniRef90_S7TCB0					K	A	P	D	E	P	L	V	F	T	G	A	G	G	S	V	V	F	D	H	A	
UniRef90_C8X1Z2																										
UniRef90_S0FXQ5																										
UniRef90_Q2I3J4					A	L	P	P	P	P	S	K	V	R	T	T	K	T	Y	G	T	V	T	L	D	
UniRef90_UPI00022605F7																										
UniRef90_UPI000378AC92																										
UniRef90_T2H0P3																										
UniRef90_UPI00035DC7E3																										
UniRef90_UPI0003B72AFB																										
UniRef90_T2GBI9																										
UniRef90_S6AQ13																										
UniRef90_B4UBF4					A	L	P	P	P	P	S	K	V	V	R	T	T	K	T	Y	G	T	V	T	L	
UniRef90_C0QC90																										
UniRef90_UPI0004672969																										
UniRef90_UPI000477254C		</																								

UniRef90_K0NPE1 E T A L E T T R C S A 50 C H D S F N S D H P E R L G L K A A Y H Q Q 80
UniRef90_S7T120 S K N P P K C A S C H A K T G G D A T G R P G L M A A Y H G Q Q
UniRef90_S7T120 S K N P P K C A S C H A K T G G D A T G R P G L M A A Y H G Q Q
UniRef90_S7UJB9 G T N V M E T S C S A C H H A D A A D G G R L G L M R R A M H G Q Q
UniRef90_P00136 G G A V K K C T T S G C H D S L E F R D K D I K L V E N A F H T Q
UniRef90_UPI0003B43F13 K M S L K F Q R T A D C H T P S G D P K G K N I P L A Q A M H S V T S K N S
UniRef90_Q315E2 K M S L K F Q R T A D E S A E Q L K K V Y H H D N
UniRef90_Q315E2 K M S L K F Q R T A D E S A E Q L K K V Y H H D N
UniRef90_Q315E2 K M S L K F Q R T A D E S A E Q L K K V Y H H D N
UniRef90_C8X1Y2 T G T Y Q P C S N C H E P K V D A A S P K M S L F N A Y H N R K N I A S
UniRef90_E1YDG0 S K K P P N C G N C C H K V F D Q K N P L R P G L K G A Y H L Q
UniRef90_E1YDG0 S K K P P N C G N C C H K V F D Q K N P L R P G L K G A Y H L Q
UniRef90_A8ZUW4 E T E G K E G S C R Y C H H G D V K V E N R I P M Q A A A H Q A
UniRef90_A8ZUW4 E T E G K E G S C R Y C H H G D V K V E N R I P M Q A A A H Q A
UniRef90_E6VQS7 P E A A E T V A C C R S C H H A E F S V G D Q E R L G L K A A Y H
UniRef90_B5YFP9 G E N V E G V M C R D C H H A E P R D R D P T E K D L E Q A Y H A Q
UniRef90_D6SSM7 C G D F Q K C A D C H H I D R D D R S Y E R G F Y K A W H S E S E I S
UniRef90_Q9R638 P G A P E T A K C S A C H H E A F N P E F P E R P G L K A A Y H
UniRef90_B8FFW2 E R L K G C R N C H H T L E G S P K G N F V N A V T A F H S V F S D R S
UniRef90_UPI0003B5F9D4 K C V N C H H T Q T G S D K K G G V I S Y E R A F H M V T S N Q A
UniRef90_K0NKO5 K C N D C H H T G A E G G E K G G F V S L G Q A M H K Q D S T R S
UniRef90_K0NTI5 G E N V L D E S C A S C H H Q E Q S K V E R K E A F H H Q
UniRef90_E1JZ85 G E A T Q K C S A A G C H H D S K D S K D K S E H S F Y K A F H D M K S F H S
UniRef90_C6BRK7 K E E I Q A C R T C H H D T S E Q A I N D P E G Y Y Q A W H S K T S K Q S
UniRef90_D6SST1 T H M G C E S S G C H H D M Y E N E Q G D I F Y F E D A Y H D E E N A P T S
UniRef90_F8C3E3 K E N G T E E S C Y Y C H H D L S K K R G S E V T T E K R L S Y Q K T A H E R
UniRef90_F8C3E3 K E N G T E E S C Y Y C H H D L S K K R G S E V T T E K R L S Y Q K T A H E R
UniRef90_A8ZTK8 D G N N I L D D Y A L E E G N P D I L C G A C H T G K T T L E P R E A F H L Q
UniRef90_K1YNL0 G K Q V I P F A E C E T C H H Q H P S V L A C G K T K G S L A L D T L K G A G H G N
UniRef90_D2QYM7 K L K F E G N K C T S C H H Q H P S V L A C G K T K G S L A L D T L K G A G H G N
UniRef90_F3YUC0 S T N Q E S V P C R E C H H P A E T K G N D P S G F Y M A W H G F E T D A S
UniRef90_K0NAD9 N P L D L K A T C C I D C H H P G T K K I K G E K K K E I A R Y H F E A L H A N
UniRef90_UPI00046CD62A E G A H R C G A C H H R A E A E G E K P S L E D A A H G E G S P Q G R
UniRef90_UPI0003B6AB80 G M K I Q K C E T C H H N K K D M A N K K L N S V R K A M H L E S A I H E N
UniRef90_I5B4L2 K D N V Q K C E E C H H T N V K P G D K T F Q G K Y K A M H L E S A I H E N
UniRef90_UPI0003734801 K Q E M A T V A C V D C H H E T F S S E A I H R Q S Q M D L F H L K G A Y H Q N
UniRef90_B9M517 I A S K R S E C S Q C H H D D T A G E Y A S S K H A A K A S
UniRef90_I4C8C5 G Q E V K K C G A C H H K L E A E Y G K V V K L E K A F H D Q
UniRef90_D8FAC3 G D E V Q K C C S E C H H D I N E N T E K D G M K V M K L Q N A Y H R N
UniRef90_A8ZS59 K D S V Q G C M E C H H D S P G K T P R K P A G L W D A M Y Y G A I H I N
UniRef90_S0G649 G E N V L D E A C A S C H H D S Q S E I D T T Q A F H Y Q
UniRef90_B6WV78 K T P D K A M A C A S C H H G V A L D D A F K A G H A K S Y P A E S
UniRef90_X7A162 K V R I E G N G C V Q C H H L A Q P P A R K D Y E R P E H H H A A S S A G A Q
UniRef90_A0A023D6X9 P Q S G P S K E C V A C H H N A T P A T S A D T Q R L F H E F
UniRef90_Q2LQK1 Q D K P V P V S C A S C H H Q Q I A G E Y R A N F H Y L Q E D F R
UniRef90_F2NGH7 G M P V Q S C E A C H H T L E T V G R R L D L K N A F H H Q
UniRef90_UPI0003B685BE N P D M K C T T C H H K D N S D K K A P T S F D S A F H A K K S P N S
UniRef90_B5YKW8 K V K V Q K C T D C H H D P A E A K N G A S K A M D A Y H K N
UniRef90_S2KEL1 K V R I E G N G C L Q C H H N T A G L Q A K D Y D S P E H H H A A G S P G A Q
UniRef90_V4IF16 D G N M V A Y T C E T C H Y K G S G M P K K I E T Y A G S P G A H E N
UniRef90_UPI000255704B K V K I E G N G C L Q C H H T E T P P E R K N Y D T P E H H H H P V G S E G A Q
UniRef90_R9VG68 E L P A Q G N Q C A S C H H N P Q G N K K D Y D S H S H H F H E P G S P G A Q
UniRef90_S7V061 G K N V T P G T C D S C H H G D K P A G G L G L Q A F H H K E
UniRef90_UPI000373CB39 G T N T L D E D E L Y E G N P E I Q C A S C H H N G E K S F S L L R A F H R Q
UniRef90_S6BH20 K V R I E G N G C L Q C H H N A N P P K S K D Y D S K A H H H H E P G T P G A Q
UniRef90_UPI00036F8DE5 E D D A E T P C S D C H H S K A S D D P D V P S L M D A Y H Q S
UniRef90_C6BTM3 E K E P Q K C G N C H H T N S G T S E I P S V R D A A H D R
UniRef90_F8C666 P T K G A L K C S V C H H G L T P G G T E K A P N A P K N M L A Y H K N
UniRef90_E1SSH5 A L R F E G N A C T Q C H H Q A A P P E R F S T L K A A H H P Q G S S G A Q
UniRef90_A0A031MI05 A L R A E G N A C S S C H H L P T E F D R P T H H Y H A A D S S G A Q
UniRef90_Q30UZ3 K Q S L E G V P C A D C H H A V K A Q G K R T P L R R A Y H R Q
UniRef90_F3KY58 K I Y T Q T N A C A S C H H Q P E V F D T A K H H H H Q P S S A G A Q
UniRef90_S7TCB0 P G E G A A M A C K A C H H V I P D D G S E D E V G V E S V P K Q T D A F H A Q
UniRef90_C8X1Z2 G E K V E G M P S D C H H P A D P G S D E L G L M E A Y H T Q
UniRef90_S0FXQ5 K M G D E V H P C Y E C H H N I F E K D K D N R N D I M V H E N A M H G N
UniRef90_Q2IJ34 R K I S C K S C H H G N G A V T K I E F T P R Q A H D T
UniRef90_UPI00022605F7 P K P F Q H C I E C H H N P A P P A R K R Y D S P E L A L I T E R Q F H Q Q
UniRef90_UPI000378AC92 K L R A S G N A C T A C H H N P P V A R K D Y D T P A H H H H T E G G A G S Q
UniRef90_T2H0P3 K V K V I E G N G C L Q C H H N N P P V A R K D Y D T P A H H H H V A G S P G A Q
UniRef90_UPI00035DC7E3 Q L R V Q G N A C T Q C H H A Q S H Y D S P R H H H H D E A S P G S Q
UniRef90_UPI0003B72AFB T K E V K K C V I E C H H D I A Q A K D K V L K A M D A Y H K T
UniRef90_T2GBI9 E P E P T A C S S C H H G N A A D G K T P S L R V A V H T R C E T H S
UniRef90_S6AQ13 K L R L Q G N A C T Q C H H Q A A T F D T P A H H F H P P G S S G G Q
UniRef90_B4UBF4 N G A V T K I A C H H V F T P R Q A H E T
UniRef90_C0QC90 K A G D D A V G C A E C H H T A P K S K D K K L S D S E K L E Y H A E A L H E N
UniRef90_UPI0004672969 Q S P S V S G T C C L C H H K Q S P A L A V R I E A D F H Q L
UniRef90_UPI000477254C G K L V I E D T S C S E C H H G L I A G P H N P M T L T N A F H I O
UniRef90_J3BRZ4 G L K A A G N A C T Q C H H T E T R P E K Q D P S G L F H T H H P V G S A G A R
UniRef90_Q1DEC2 R A C A G C H S A P L A F E L E G P I F V R T H F H S R D A P L Q Q
UniRef90_UPI00025587DB K A D G D Q V C A Q C H S P A K F A Q K S H H M H E P E S E G A S
UniRef90_F0JEL9 V N A K L A P S F E A L H D V A D P A S C V G C H V I Q E Q Q K P E
UniRef90_F0JEL9 V N A K L A P S F E A L H D V A D P A S C V G C H V I Q E Q Q K P E
UniRef90_E1QF18 G D P V K K C S T C H H G L K K Q G K V E K L E K A F H D
UniRef90_K1YPP7 K Q V P Y T E A C E T C H H N A T V L A G K M K D K L A L D T L K G A G H G N
UniRef90_B5JHX4 E L K L P A A T C I Q C H S T G K L D A T I I D L S H S R H P L G S T G D S
UniRef90_C0QH26 G K L M E D M A C S E C H H G A K D D P R Q S F K L I A T Y H N R
UniRef90_S9PCZ0 G G E L V K V G C N A C H H A P L G F E L E G P I A V R T H F H S R D S P L Q Q
UniRef90_M1PTB4 E D E N D V V S C S E C H H E A N R F N E K Y L K T L E K L Y H L K G A Y H L N
UniRef90_UPI00037412DB K L T Y T N Q L C T R C H H V P N E D N P T G F D N P H H F H Q A Q G A Q
UniRef90_H8MFZ2 L G E V N R A A C A S C H H A P L G F E L E G P I F V R T H F H S R D A P L E K

		90	100
UniRef90_K0NPE1	ME	C H K T E A K G	P V D C K G C H
UniRef90_S7T120	MG	C H T M M G I E G K D A K P V P A A T D C T G C H	
UniRef90_S7T120	MG	C H T M M G I E G S K D A K P V P A A T D C T G C H	
UniRef90_S7UJB9	MG	C H E A K G V A S P A A P V M C G E C H	
UniRef90_P00136	I	D C H K A L K K D K K P T G P T A C G K C H T	
UniRef90_UPI0003B43F13	V	N C H T S L T T S A S E C A G C H T	
UniRef90_Q315E2	I	G C H T E M V D N G Q K S G P E C R S C H	
UniRef90_Q315E2	I	G C H T E M V D N G Q K S G P E C R S C H	
UniRef90_Q315E2	I	G C H T E M V D N G Q K S G P E C R S C H	
UniRef90_Q315E2	I	G C H T E M V D N G Q K S G P E C R S C H	
UniRef90_C8X1Y2	V	G C H T E M Q V G P T G C R D C H T	
UniRef90_E1YDG0	L	G C H K E M G I K K P A G C T D C C H K K	
UniRef90_E1YDG0	L	G C H K E M G L K K P A G C T D C C H K K	
UniRef90_A8ZUW4	I	T C H Q A E K T K K N S G P D C C G G C H D	
UniRef90_A8ZUW4	I	T C H Q A E K T K K N S G P D C C G G C H D	
UniRef90_E6VQS7	M	G C H A D M K K G P V S C E G C H	
UniRef90_B5YFP9	Q	G C H K Q M T S K K E C S G C H	
UniRef90_D6SSM7	I	T C H R D M A G E D A T G P R T C M G C H	
UniRef90_Q9R638	R	G C H K A M K A K N E Q T G P I L Q G C H E A A	
UniRef90_B8FFW2	M	T C H H E E Q E K G P L G C T D C H G K	
UniRef90_UPI0003B5F9D4	Q	G C H Q K E I N A K K E C L A C H	
UniRef90_I4CEC9	I	G C H H A Q K K Q D Q K C A G C H	
UniRef90_K0NK05	I	G C H K D F T K S A D C A G C H	
UniRef90_K0NT15	V	K C H D Q Y S F A P E E K G P T L C G C H T Q K	
UniRef90_E1JZ85	I	G C H K K E A K G P T K	
UniRef90_C6BRK7	V	G C H Q T V K D D I A P K T C K S C H	
UniRef90_D6SST1	I	G C H Q	
UniRef90_F8C3E3	L	S C H I K I N K E M E V S K K E A P P L E C G K C H T	
UniRef90_F8C3E3	L	S C H I K I N K E M E V S K K E A P P L E C G K C H T	
UniRef90_A8ZTK8	M	G C H E E Q F T F K K R P T G P V L C G C H	
UniRef90_K1YNL0	L	E C H K E K A G S D P A L K E K C D T C H P K K	
UniRef90_D2QYM7	V	N C H M P E T	
UniRef90_F3YUC0	V	S C H R	
UniRef90_K0NAD9	I	G C H R D Y N K E K G D P K K E P A P V S C T K C H	
UniRef90_UPI00046CD62A	R	S C H F G P K A R K P L E C E D C H	
UniRef90_UPI0003B6AB80	K	G C H K K M V K E H P N A P T K C K Q C C H K K K	
UniRef90_I5B4L2	I	G C H H K G Q G L T V G T K C G D C C H T K	
UniRef90_UPI0003734801	R	G C H H Q E K D G P T G C C Q T C H	
UniRef90_B9M517	R	D C H A P K E I S G Q E M N R M C A G C H N	
UniRef90_I4C8C5	V	N C H K K F K K D K K P T G P A C A K C H	
UniRef90_D8FAC3	K	N C H K E E K K G P Y K K C N D C H A K K	
UniRef90_A8ZS59	I	D C H H K A G G A G P V K C T D C C H I K P	
UniRef90_S0G649	M	G C H N N Y S L T S E P T G P T L C G C H	
UniRef90_B6WV78	V	T C H H Y T L A A K E E F G V D C T S C H	
UniRef90_X7A162	V	N C H M P S K T E K T G S P D A C T G C H D D K	
UniRef90_A0A023D6X9	E	G C H L R M A R N R G K S G P D C T A C H	
UniRef90_Q2LQK1	V	D C H R D I H N R Q R A G R E Q C T A C H S N	
UniRef90_F2NGH7	K	G C H K L K L R Q H S R A A G P I C Q D C H	
UniRef90_UPI0003B685BE	V	G C H K E M K K G P T K C N D C H T K K	
UniRef90_B5YKW8	I	D C H K K A V E E G K A A P T K C N E C H K K G	
UniRef90_S2KEL1	V	N C H H M P S K A A Q G I G P D A C T A C H K	
UniRef90_V4IF16	K	G C H E Q V A A E N A E L A K W T K C M P C H	
UniRef90_UPI000255704B	V	N C H H M P S K T E V T G S P D A C T A C H T	
UniRef90_R9VG68	T	N C H A P E Q	
UniRef90_S7V061	I	G C H A G H G P D P K I K G R A C A G C H E	
UniRef90_UPI000373CB39	I	Q C H D T E G Q G P V V C G E C H T K S	
UniRef90_S6BH20	V	N C H H M P T K A D K T G S P D A C T S C H Q D K	
UniRef90_UPI00036F8DE5	M	G C H H E E N G S G P Y S K G Q C N Q C H	
UniRef90_C6BTM3	I	D C H D E M F E A G L K G C T P C H K	
UniRef90_F8C666	I	D C H Q K V N A E Q K A S P T K C N E C H K K	
UniRef90_E1SSH5	V	N C H H M P A T T A Q T G A P D A C T G C H D	
UniRef90_A0A031MI05	V	S C H H M P E R A R Q L G T P D A C T G C H T	
UniRef90_Q30UZ3	M	G C H Q S A G K G P A N C G G C H K	
UniRef90_F3KYS8	V	D C H H M D A R R D H S M Q I P R P T P N A C N K C H E	
UniRef90_S7TCB0	I	D C H K E M G A G P V E C A A C H G	
UniRef90_C8X1Z2	I	D C H E Q E G Q G P L A C G E C H	
UniRef90_S0FXQ5	R	E C H K Q V N A G D P K G R K G P A P T S C T Q C H E	
UniRef90_Q2IJ34	R	S C H H V Q L A K G P T D C R G C H	
UniRef90_UPI00022605F7	E	G C H L K L K R E K R A S G P V R A C H V C H A	
UniRef90_UPI000378AC92	V	D C H H M P A R N R R I G T P N A C A G C H	
UniRef90_T2H0P3	V	S C H H M P T K A S K V D S P D A C T A C H	
UniRef90_UPI00035DC7E3	V	S C H H M P E T	
UniRef90_UPI0003B72AFB	V	E C H K K V A E E G K Q A P V K C N D C H K	
UniRef90_T2GBI9	K	T C H E Q L P G A A G P A Q P S C A S C H	
UniRef90_S6AQ13	V	S C H H M P E T T E R L G T P D A C T Q C H	
UniRef90_B4UBF4	R	S C H H V Q I A K G P T D C R G C H	
UniRef90_C0QC90	I	T C H K A Y N K E N K D A P A S C A K C H P K K	
UniRef90_UPI0004672969	Q	S C H L E R L Q A F H A S G P S C Q A C H R N	
UniRef90_UPI000477254C	R	S C H H V K K G K G P L L C A E C H Q K K	
UniRef90_J3BRZ4	A	N C H H M P E R T A T S G T P N A C T T C H A G K	
UniRef90_Q1DEC2	S	S C H L T K E S I Q R T S K A A C L S C H K S	
UniRef90_UPI00025587DB	V	S C H H M P E K	
UniRef90_F0JEL9	A	G C H A A R P A A K A L S Q D A C A T C H N V K	
UniRef90_F0JEL9	A	G C H A A R P A A K A L S Q D A C A T C H N V K	
UniRef90_E1QF18	K	T C H K D Y N K A Q K G A P T A C K D C H A K K	
UniRef90_K1YPP7	L	E C H K T K A N E D A A L K E K C E T C H P K K	
UniRef90_B5JHX4	V	N C H H M P E R	
UniRef90_C0QH26	R	S C H L E R K E G P I T C G G C H E	
UniRef90_S9PCZ0	D	K C H L K A E G I Q R T S K A A C L S C H K S	
UniRef90_M1PTB4	V	G C H T I T S G P T G C V D C H	
UniRef90_UPI00037412DB	V	E C H H M	
UniRef90_H8MFZ2	S	S C H L K Q E T T Q R T S K A A C L S C H K S	

1 10 20 30 40

UniRef90_Q6ALR1 S P T T L M E S V H A K F A C V D C H Y K G H E
UniRef90_UPI000477A247 V F E H G A R A G V T C C L D C C H R P H D A
UniRef90_A0A024HAW0 K G V K C T D C C H N P H S G
UniRef90_UPI000472D2F7 F P Q S A H G N N A C T S C H H M T G
UniRef90_T2KR17 H E G V T C S D C C H D P H T L
UniRef90_C6C0Z5 D P A F P K H Q R P A A V F A H D A H N E M D C A V C C H H V W E D
UniRef90_UPI000237A00C E G V G C M D C C H H R A E V
UniRef90_I4JLC6 A G V T C C S D C C H E P H R Q
UniRef90_UPI0000E11070 A G V N C V D C C H H P H T M
UniRef90_E1JSW6 H T R L P A V F N H D A H N E K D C T T C C H H K R D P
UniRef90_B1J6W1 A G V T C C T D C C H H S T R V
UniRef90_UPI000367000F A G V T C C S D C C H E P H G L
UniRef90_M5H5D4 A G V N C V D C C H H T M K V
UniRef90_F9U5M6 H Q G V V G D C C H H S L D L
UniRef90_UPI00036F7DF9 A P V A F D H K F H E A K D C S T C C H I N G
UniRef90_UPI00036F7DF9 A P V A F D H K F H E A K D C S T C H I N G
UniRef90_K6ZRX9 H A G V T C S N C H N A H T G
UniRef90_W4LMJ7 H A G V R C T D C C H N P H T L
UniRef90_T0DHB4 H K G V K C I N C H N P H S G
UniRef90_S7TBW8 P E A P S D A R A A A Y F P H D R H M E V G N R C C H H E E D G
UniRef90_E6VRF1 Q Q G C C H H N S P A
UniRef90_E6VRF1 D G L W P T P T K A A V E L T H K K H A K I A A E C C H H V Y K D
UniRef90_A0LQL1 K M H E K V T C S N C H N P H S G
UniRef90_UPI000360520F A Q K A P E S P I R F K N T G G N V L F D H K T H Y G L S C S D C C H D I E E
UniRef90_D8FCE1 A D P A F A P A K R A A V P F N H D A H N A A N A A C C H H D A Y E N
UniRef90_S7U237 A G V T C C L D C C H H Q E A T L
UniRef90_UPI00046FB5B0 H S G V D C V D C C H Q P H S V
UniRef90_W2UDV7 K G V R C C S T C C H D P H R G
UniRef90_L8MQB9 E G V T C C V D C C H D P H T Q
UniRef90_K0CDT5 A G V T C C L D C C H R P H D A
UniRef90_W6S3A9 V K E Y K V K M G K A T F P H A K H A G N S C G T C C H H K V N G
UniRef90_UPI0003B47789 V K F D H A K H I N L D C A V C C H H H T T G
UniRef90_A5G7N7 A G V T C C L D C C H R P H E A
UniRef90_C6B781 A G V T C C T N C C H N P H S N
UniRef90_UPI00037CE7B1 R A P V S F T H T A H M D L E C L P C C H H S G V E
UniRef90_UPI0003B75C08 P A Y A K H T K G I V Q F T H K K H Y K I G O G E C C H H D E K E
UniRef90_S7UXM1 K G V K C T D C C H N P H S G
UniRef90_W5IM53 A G V G C T D C C H D P H T T
UniRef90_B0KGF0 K G V T C C S D C C H D P H T G
UniRef90_UPI0002D4E981 H S R P A A S F V H D T H N E K D C G V C C H H G T T E
UniRef90_UPI0003B52407 A G V A C T D C C H D P H R G
UniRef90_G2HB29 K M H A A V R C M D C C H D P H T S
UniRef90_UPI00030ACB44 K H A G V S C S N C C H N P H S G
UniRef90_B4CWD3 A G V N C I D C C H H Y K V
UniRef90_U3HH47 Q D P A F T K R M R P E A V F N H D E H N E N D C S T C C H H F Y K D
UniRef90_R9PMG6 S V E F N H A Q H I R L D C A G C C H H H T T G
UniRef90_UPI00036FAE80 K G V Q C T D C C H N P H S G
UniRef90_E1YFN0 V L F T H Q T H T E L D C L D C C H H N I D D
UniRef90_B9M5X1 A F D H D E H N D K D C S V C C H H V Y E D
UniRef90_M4WQ73 H N G V V C S N C C H N P H S T
UniRef90_S0G5P4 K G L R C S T C C H N P H S T
UniRef90_C7LX18 I G I Q E G Y A P K Q P I A F S H K L H A G I D C N Y C C H T T Y K G
UniRef90_B8CMA0 F Q N K A G K V L F T H S V H S D Q D L D C C H H N I E D
UniRef90_S6APU0 H K G I R C C T D C C H D P H S L
UniRef90_UPI0003764B9A K H T K G I I M F T H K K H Y K L D C G E C C H H D D K G
UniRef90_W5ILM5 E Y A D H S K G L V E F T H K K H Y K L K G E C C H H D A E G
UniRef90_K0NH48 A G V T C C S N C C H N P H S G
UniRef90_M2AYB1 V K E Y Q V K I G K A S F P H A K H A G Y S C G T C C H H K V E I
UniRef90_A9A054 F D H E V H K D Y D C G D C C H H G K D V I
UniRef90_C0QD60 Q G V N C M D C C H N P H T L
UniRef90_UPI0003685F1A K G M R C V T C C H D P H D N
UniRef90_F8ABA3 A G V T C C T N C C H N P H S G
UniRef90_F0JJH8 H N D V T C T D C C H H S L K L
UniRef90_A7BWE2 D P A F E H P E R P A A M F E H D A H N E K D C A S C C H H V W E D
UniRef90_C8PH43 G G K K G T V T F H H L K H Q K I K C G E C C H H P Y K E
UniRef90_U1M916 A G V T C C S N C C H N P H S G
UniRef90_M7MLA6 K M H A G V T C L N C C H H S L D L
UniRef90_L0RDE2 H V S I K C T N C C H H P H S G
UniRef90_F8A8M9 H A G V T C S D C C H N P H S L
UniRef90_Z5XS85 S D C C H H T A Q L
UniRef90_B6B812 P G T G E I V D L S I A P M A L S H S A H G K L A C S D C C H H P K R L
UniRef90_UPI00036AB4F4 A G V T C C S N C C H N P H T G
UniRef90_N6X170 P E L A P F K Y A P A S F D H D P H N E K D C T A C C H H G S Q D
UniRef90_Q4ZT2 G V T C C T N C C H N P H T G
UniRef90_W9VF27 A G V T C C L D C C H H A A T L
UniRef90_M4S001 F A A S P H G K N G C T S C C H H M T G
UniRef90_UPI000366CD6F A G V T C C A D C C H N P H S G
UniRef90_U1K788 H R E I R C S D C C H Q V H S N
UniRef90_UPI0003B37F4E R S A V T F N H D E H A I E D C T E C C H H S F D E
UniRef90_B3E3G0 P M N F E H S N H G S I N C V V C C C H H D F N D
UniRef90_UPI000367EF74 K K G A P K F K L V E F T H K K H Y K L N C G E C C H H D K D G
UniRef90_E8X6V4 T K P A V Q F E H K D H E K L A C A T C C H E D P E A
UniRef90_S7V7A1 P L N F D H G L H G K V N C I T C C H H D Y A D
UniRef90_A0A024HHW4 K K Q P P K S K F L E F S H K M H Y K I S C G D C C H H D K D N
UniRef90_UPI0003B779BB G V S C K D C C H H S L K L
UniRef90_D4H31 A P K Q P I A Y S H K L H A K I L D C N Y C C H N K G K S
UniRef90_S6AF05 A F D H E A H K E Y D C Q A C C H H G T D I
UniRef90_KON3M5
UniRef90_UPI0003821C8A
UniRef90_I0K4M5
UniRef90_UPI0003B53BF2

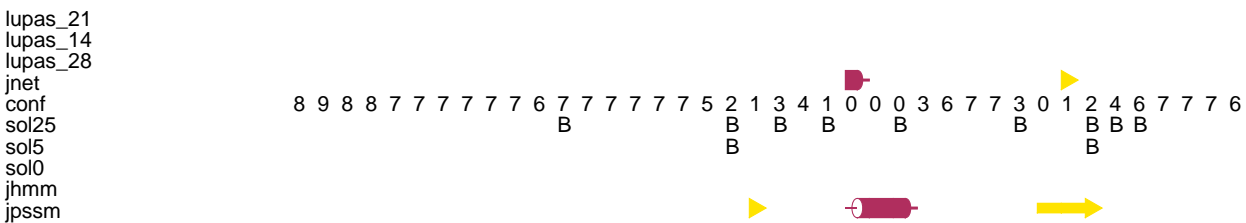
UniRef90_Q6ALR1 D Y P H Q K I S 50 G E C H K E A L A Q Y Q N S S H Y L A L R A G N V E A P D 80
UniRef90_UPI000477A247 G L K A E G N A C C L T Q C H H T E T K P E R Q D P S S G L F H T R H Q A G S T G A Q C C C
UniRef90_AOA024HAW0 E V K L A A G N G S C C L L Q C H H N V A G K Q A K N Y D S P E R H H H H K P G T P G A Q C C C
UniRef90_UPI000472D2F7 R E K P A A V G S C C G D C H H A E I A R E P N Y N E P S Q H H F H E A E T D G A Q C C C C
UniRef90_T2KR17 K T K Y T D N R S C C L Q C C H T P N Y N E P S Q H H F H E A E T D G A Q C C C C
UniRef90_C6C0Z5 G K I V E D E S C C S D C H S A V K A E A G K T D L R N A Y H H K L E S Q L C C C C
UniRef90_UPI000237A00C K A E G N G L C C T Q C C H S P A G N S E A S F D T P A H H F H P P G S A G A Q C C C C
UniRef90_I4JLC6 K L R A E G N A C C S Q C C H A P A A A F D T P A H H F H P P G S A G A Q C C C C
UniRef90_UPI0000E11070 K V L T Q T N G C C L Q C C H Q P A Q A Y E P N S Q H L M H K S G T E P A Q C C C C
UniRef90_E1JSW6 S Q D T S G I P C C S D C H T A A G K P G R T P L M R A F H H K S G T E P A Q C C C C
UniRef90_B1J6W1 K R E G N S L C C C L Q C C H N P K P T E K N Y D S P V H H H H T P S S A G S Q C C C C
UniRef90_UPI000367000F K L R A T G N G C C C L Q C C H S K N K Y D T E K H H F H H K E Q S T D G A N C C C C
UniRef90_M5H5D4 K T K T N G L C C C L Q C C H S P A S E Y N K P E H H R H H K E Q S T D G A N C C C C
UniRef90_F9U5M6 H A E G N A V C C A R C H H T P A R Y D S P E H H H H Q T G S T G A A C C C C
UniRef90_UPI00036F7DF9 I G N D K D G F K P L Y S D M H D A K S S A S C C C C C
UniRef90_UPI00036F7DF9 I G N D K D G F K P L Y S D M H D A K S S A S C C C C C
UniRef90_K6ZR X9 K V K I P G N G C C L Q C C H Q A Q T F N R P E H H H H T P D T D G A M C C C C
UniRef90_W4LMJ7 K L R A E G T A C C L V Q C C H D S Q P D A A K A Y D T P D H H F H P I G S T S G A S C C C C
UniRef90_T0DHB4 K L K K D G N S C C L Q C C H D S Q P D A A K A Y D T P D H H F H P I G S T S G A S C C C C
UniRef90_S7TBW8 L D G G E A M R C C R T C C H T D A S Y E K Y D H H K K E S S A S C C C C
UniRef90_E6VRF1 S K T P P K C A S C C H A P F D P A T P D R P G L K A A Y H G Q C C C C C
UniRef90_E6VRF1 S K T P P K C A S C C H A P F D P A T P D R P G L K A A Y H G Q C C C C C
UniRef90_A0LQL1 G K N V W K E G C C S K C H H N E P T I Q E L K L P P E Q Q K L N L K I A F H K N C C C C
UniRef90_UPI000360520F K L K F T G Q T T Q C C H S S Q P E Y D T D K H H K H A K M S A G N Q C C C C
UniRef90_D8FCE1 E G D T P A A C C S E C H S P D G E E A P K R V I D V L H H E Q C C C C C
UniRef90_S7U237 G Q D S V G V P C C S D C C H L K A G M A A G G Q D V T A E T T L M N A Y H H R Q C C C C
UniRef90_UPI00046FB5B0 K A A G N A L C C T Q C C H T E T A P E R G E F D T P V H T H P V Q S T G A Q C C C C
UniRef90_W2UDV7 K L K V E G N Q C C V G C C H S S E Q F D T P K H H D L S Q A T N I Q Q T S G T O C C C C
UniRef90_L8MQB9 N L K V T G N G C C L Q C C H N P E G K K A K D Y D S P T H H H R P G Q A G A Q C C C C
UniRef90_K0CDDT5 R T H E E G N A C C A R C C H T A A E T E F D Q P T H H F H P P G S D G A Q C C C C
UniRef90_W6S3A9 S L K A D G N A C C T Q C C H T E T K P E K Q D P S G L F H T H H P V G S A G A Q C C C C
UniRef90_UPI0003B47789 K M Q P V P M T C C K T C C H G D L N R K Q Y K K L F H K N C C C C
UniRef90_A5G7N7 S S E T K L V A C C K G C C H T L R E K R Q G T K L Y H Q D K P G L K G A Y H L N C C C C
UniRef90_C6B781 G L K A E G N A C C T Q C C H T E T K P D R G R F D T P A H T H H Q A G S T G A Q C C C C
UniRef90_UPI00037CE7B1 K K A P P D Q L C C A Q C C H N P Q T F D T P K H T F H K A G S V G S A C C C C
UniRef90_UPI0003B75C08 D G K F V P A P C C K D A E K D G E V N L A A A Y H T Q C C C C C
UniRef90_S7UXM1 G D A V Q G C I E C C H P K A S K K K G E P K S E K M E Y H A E A L H A N C C C C
UniRef90_W5IM53 Q V K I A G N G C C L Q C C H N P A G K P A K N Y D S P E H H H H Q S G T P G A Q C C C C
UniRef90_B0KGF0 Q V R L E G N G C C L Q C C H N A A A G L Q A K D Y D S P A H H H H A A G S P G A Q C C C C
UniRef90_UPI0002D4E981 K T R A E G N A C C S C C H T P A V I Y D T A Q H T M H K D G S A G S Q C C C C
UniRef90_UPI0003B52407 E A E P Q N C A D C C H H D S K K A E E G T P P N L A D A V H A R C C C C C
UniRef90_G2HB29 D G S S E G T P C C A D C C H A A D N G S R G K G T P L E R A Y H R Q C C C C C
UniRef90_C4K963 R L R A E G N A C C T A C C H A N P A P D R G R F P G L Y D A F H R G G G A G S Q C C C C
UniRef90_UPI00030ACB44 K L E T A E E A C C S Q C C H T Q F A P E N H T F H D K D S E A S K C C C C C
UniRef90_B4CWD3 K N P V E G N A C C M R C C H S P A P V I Q G I V D P D H S F H K A G T A G S R C C C C
UniRef90_U3HH47 G V R V E G N G C C T Q C C H N P S G K K A R D Y E A P E H H H A A G A G S P G S Q C C C C
UniRef90_R9PMG6 Q L K M A E P A C C A Q C C H V A A E Y T P E K H S F H P A D S E A A M C C C C
UniRef90_UPI00036FAE80 K T E T N G L C C C C C C H E A K T F D T K D H H H H L R P A S E G A Q C C C C C
UniRef90_E1YFN0 K V K V E N E T C C S E C C H K I D K D P I P L V N K Y H L R C C C C C
UniRef90_B9M5X1 N L V E D A N C C A R C C H H Q N S S G T K K E K R A N L K L Y H Q K G A Y H L N C C C C
UniRef90_M4WQ73 E K A P G N G V C C L Q C C H E E T A G K Q A K N Y D S P E H H H H K P G S P G A Q C C C C
UniRef90_S0G5P4 D E T Y N C C S D C C H E E T G D D Y M P S R T D A L H E T C C C C C
UniRef90_C7LX18 G K L V E G E A C C A D C C H T L K A Q G S Q P G L M M A Y H Q Q C C C C C
UniRef90_B8CMA0 K L V L P N N A C C S Q C C H S P A K F D N S E H H H H Q T N S S G A Q C C C C
UniRef90_S6APU0 A L R V T G N A C C T Q C C H N S P S G K R A K N Y D S P E H H H H A Q G Q A G S H C C C C
UniRef90_UPI0003764B9A K S A P S A N I C C M N C C H S Q I K A E S P E I Q K I Y K A T K E S P Q L A V T I E H D F H Q F C C C C
UniRef90_W5ILM5 R S T S A S P T C C V L C C H H E E T G D E D L P S R A D A F H A Q C C C C C
UniRef90_K0NH48 D E T Y N C C S E C C H E E T G D E D L P S R A D A F H A Q C C C C C
UniRef90_M2AYB1 E L K H P G E T C C T S C C H Q H A A G K Y D V P S H H H H A V G S E G A K C C C C C
UniRef90_A9A054 G D D V Q P C C L E C C H T K T G M P D R D K K A E L E Y H Y G A L H E N C C C C C
UniRef90_C0QD60 K P L D L P K S G C V E C C H K E T E K V K G E K K K D K I Y Q E A M H A N C C C C C
UniRef90_UPI0003685F1A K K L P A N Q T C C T Q C C H T S E V F D T P D H H G H K V D T T G S Q C C C C C
UniRef90_F8ABA3 N G K M Q S V P K S C C H G D L S R K Q Y K K L F H K N C C C C C
UniRef90_F0JJH8 E P E P Q K C T N C C H C C H G E K S T N N L L S M R E A G H K S C C C C C
UniRef90_A7BWE2 K L Q R A G N Q C T F C C H Q S T P P K E K Q Y D A P S H H F H K M D S P G A N C C C C
UniRef90_C8PH43 T G P V V G D K T C C V K G V N Y N S E Q G Y L S A F Y T K P K I T K E C C C C C
UniRef90_U1M916 K L K L Q D L T C T Q C C H A S T T F D T P K H H G H T T N E I G S Q C C C C C
UniRef90_M7MLA6 K E V G N N L C C M Q C C H T E P N Y N E P S H H F H P Q N S E G A Q C C C C C
UniRef90_L0RDE2 G K L V E D E S C C S D C C H T V K P E S G K T G L R N A Y H K L C C C C C
UniRef90_F8A8M9 G M K I Q K C C S E C C H N K D M A N K L N S V K K A M H K N C C C C C
UniRef90_Z5XS85 K L K L P G Q T C C T Q C C H S Q V D F D T P E H H G H K L E S E G S Q C C C C C
UniRef90_B6B812 K A E G N G L C C T Q C C H S P A G N P D A D Y D S P A H H F H P E G S A G A T C C C C
UniRef90_UPI00036AB4F4 K L R M Q G N Q C C L Q C C H T P N Y A T S A H T F H K E N T E A S D C C C C C
UniRef90_N6X170 E L K A K G N A C C G Q C C H Q A S K Y D V E A H H G H S P D S A G A R C C C C C
UniRef90_Q47ZT2 K L P I E T L C C L Q C C H Q S D N Y A S T Q H H K H P E S T G A Q C C C C C
UniRef90_W9VF27 K E E T L S C V I G C C H E D Q D D A D Q R D E E F E R S V H A T S D H P G A Q C C C C
UniRef90_M4S001 K L K F S G Q T C C T Q C C H N A T T Y D L P E H H Q H K M D T P G A Q C C C C C
UniRef90_UPI000366CD6F G M K V I E L P C A D C C H T V K K K G V T P L R R A F H L Q C C C C C
UniRef90_U1K788 K L K L K A Q T C C T Q C C H T G A E S F D T P K H H G H K I G S T G S Q C C C C C
UniRef90_UPI0003B37F4E K A D G N A L C C T Q C C H T E T A P E K N D P S G V F H T H H P V G S S G A Q C C C C
UniRef90_B3E3G0 N T K L D K V N C C S R C C H G N E T K E F E K S V H A K S G L T C C C C C
UniRef90_UPI000367EF74 K L R L A G S A C C G Q C C H A A N V F D A P A H H H H Q K D S A G A Q C C C C C
UniRef90_E8X6V4 T V S P S N A L C C L G C C H T K E N P A G L K G T V S E H T H H A E G S K G S Q C C C C
UniRef90_S7V7A1 G E S T E S L E E S D C C H M A E G Q T K M D L M R A Y H L N C C C C C
UniRef90_AOA024HHW4 H S A P A P T G T R T C C L L C C H K K E T P K L A V T L E H D F H Q L C C C C C
UniRef90_UPI0003B779BB K D E V K K C G E C C H N K F K K D K K N K K D I M V H E N A M H G N C C C C C
UniRef90_D4H31 G L L K F E P G E V K G T K N A F H E E K K T P H L A L R M E R D F H E L C C C C
UniRef90_S6AF05 R S P A A P S T C C L F C C H K K T P H L A L R M E R D F H E L C C C C
UniRef90_KON3M5 K P L D L K I I G C C A E C C H T K M A K D K K D I M V L E N A M H G N C C C C C
UniRef90_UPI0003821C8A K K E G N D C C L T C C H V P D T Y N S P E H H Y H K M N T E A A L C C C C
UniRef90_UPI0003821C8A A T I P S A N I C C M N C C H G V I K K E S P E I Q K I Y T A I H A Q N V G N V Q C C C C
UniRef90_UPI0003B53BF2 E A E P G H C C N Q C C H D L A G S E T M P S L R D A A K R C C C C C

		90	100
UniRef90_Q6ALR1	T S C	H S Q E A F H G Q N G I K A	C R Q C H N D P
UniRef90_UPI000477A247	A N C	H M P E R	
UniRef90_A0A024HAW0	T S C	H M P E H A Q K I G A P D A	C L G C H
UniRef90_UPI000472D2F7	S D C	H R D L K N K K R A V I E K	C T E C H G N D
UniRef90_T2KR17	V N C	H M	
UniRef90_C6C0Z5	S N C	H V K E D K G P I	S C A G C H
UniRef90_UPI000237A00C	K N C	H M	
UniRef90_I4JLC6	V S C	H M P E T	
UniRef90_UPI0000E11070	V S C	H M P T T T S F K I P R P E L T P N A	C N S C H
UniRef90_E1JSW6	M G C	H M A K K K G P V T	C G D C H
UniRef90_B1J6W1	V N C	H M P E A	
UniRef90_UPI000367000F	V D C	H M P A K T A R L G T P N A	C A N C H A N K
UniRef90_M5H5D4	V S C	H M P T N R	
UniRef90_F9U5M6	V A C	H M D E R A D H S L R V P R P T P N A	C N A C H
UniRef90_UPI00036F7DF9	V G C	H A M R I A Q N P S	C E G C H T
UniRef90_UPI00036F7DF9	V G C	H A M R I A Q N P S	C E G C H T
UniRef90_K6ZR9	V S C	H M P E K	
UniRef90_W4LMJ7	V N C	H M P A K	
UniRef90_T0DHB4	V D C	H M P K K A	
UniRef90_S7TBW8	I Q C	H R A L E K E G N V S G P R T	C G C H
UniRef90_E6VRF1	M S C	H T A M K L E	K P S N T G C G D A G C H
UniRef90_E6VRF1	M S C	H T A M K L E	K P S N T G C G D A G C H
UniRef90_A0LQL1	Q E C	H K K H K Q E K P D T K A T	C A G C H P A P
UniRef90_UPI000360520F	V D C	H M P S T T S F K V P R P D L T P N A	C N A C H
UniRef90_D8FCE1	K G C	H D E G G S G P V E	C G Q C H T
UniRef90_S7U237	Q T C	H E Q R G K G P V M	C G E C H
UniRef90_UPI00046FB5B0	A N C	H M P E R	
UniRef90_W2UDV7	I D C	H M D Y R R D H S F R I P R P T P N A	C N D C H T
UniRef90_L8MQB9	I D C	H M	
UniRef90_K0CDT5	V N C	H M P E T T Y M K V D P R A	C N G C H E D K
UniRef90_W6S3A9	A N C	H M	
UniRef90_UPI0003B47789	L T C	H K E V K K S G K K V P T K	C R E C H I K P
UniRef90_A5G7N7	M G C	H T K M G G	P T G C L D C H K
UniRef90_C6B781	A N C	H M P E R	
UniRef90_UPI00037CE7B1	V S C	H M P E K T E K L D T P N A	C N Q C H D N
UniRef90_UPI0003B75C08	I G C	H N E A K K G P L T	C G E C H
UniRef90_S7UXM1	I D C	H K E H N K K N K A A P T S C T T	C H
UniRef90_W5IM53	T S C	H M P G K A Q K I G A P D A	C M G C H
UniRef90_B0KGF0	V N C	H M	
UniRef90_UPI0002D4E981	V A C	H M	
UniRef90_UPI0003B52407	V T C	H E E M F A A K A K G	C A Q C H
UniRef90_G2HB29	M G C	H K Q Q A K G P T A	C G G C H A K A
UniRef90_C4K963	V D C	H M P S R G A R T G A P D A	C T G C H
UniRef90_UPI00030ACB44	T T C	H M P E T	
UniRef90_B4CWD3	V D C	H M P E T	
UniRef90_U3HH47	V D C	H M	
UniRef90_R9PMG6	S S C	H M	
UniRef90_UPI00036FAE80	V N C	H M P E T	
UniRef90_E1YFN0	I G C	H E Q E K A G P L M	C S E C H
UniRef90_B9M5X1	M G C	H E K M G G	P T G C R D C H
UniRef90_M4WQ73	T S C	H M	
UniRef90_S0G5P4	I G C	H A D Y G A G P V D	C N A C H
UniRef90_C7LX18	K S C	H I E S K N G P V A	C G E C H V K K
UniRef90_B8CMA0	V N C	H M	
UniRef90_S6APU0	V D C	H M	
UniRef90_UPI0003764B9A	E S C	H L K R L Q S F Q Q A G P S	C K G C H T P P
UniRef90_W5ILM5	K G C	H E D L G A G P V E	C N S C H
UniRef90_K0NH48	V N C	H M	
UniRef90_M2AYB1	Q G C	H E T Y N K E K V D A R K G P A P V S	C T Q C H
UniRef90_C0QD60	I E C	H K E H N I S L K D P K K G P A P A S	C S K C H
UniRef90_UPI0003685F1A	V D C	H M	
UniRef90_F8ABA3	L S C	H K T L K K E G K N V P T K	C K E C H I K P
UniRef90_F0JJH8	G Q C	H E D M F D K G L S	S C K S C H S Q K
UniRef90_A7BWE2	V N C	H	
UniRef90_C8PH43	K D C	H Q E Q A A A R A D T H K D	C A S C H
UniRef90_U1M916	V D C	H M	
UniRef90_M7MLA6	I N C	H M	
UniRef90_L0RDE2	S D C	H I Q K D L G P V T	C A G C H
UniRef90_F8A8M9	K G C	H K Q V K D K H P N A P T K	C K E C H I K K
UniRef90_Z5XS85	V D C	H M	
UniRef90_B6B812	Q S C	H M P E R	
UniRef90_UPI00036AB4F4	K S C	H M	
UniRef90_N6X170	V N C	H M P E K	
UniRef90_Q47ZT2	V N C	H M P E T A Q K L G T P D T	C L S C H E N K
UniRef90_W9VF27	H S C	H D P H A F R N S R V G E E	C L S C H K K
UniRef90_M4S001	V N C	H M	
UniRef90_UPI000366CD6F	I T C	H E K Q N K G P V Q	C K S C H
UniRef90_U1K788	V D C	H M	
UniRef90_UPI0003B37F4E	A N C	H M P E R	
UniRef90_B3E3G0	V S C	H S D I A F S S K K S D K K A A T L A	C L K C H
UniRef90_UPI000367EF74	A N C	H M P T T T A S L A T P N A	C N A C H D G K
UniRef90_E8X6V4	V A C	H M P K I E A	
UniRef90_S7V7A1	K G C	H E D Q K L G P V M	C G E C H Q K K
UniRef90_A0A024HHW4	E G C	H L K N L Q A F R Q T G P S	C K A C H T
UniRef90_UPI0003B779BB	V E C	H K E A K A G D P K G R K G P A P T S	C G K C H E
UniRef90_D4H311	I K C	H K E M K V K K S	C S T C H K K
UniRef90_S6AF05	R G C	H L Q K L Q A L H S A G P S	C R Q C H T P P
UniRef90_K0N3M5	I V C	H K D V N K K A G D P K K G P A P A S	C A K C H
UniRef90_UPI0003821C8A	I N C	H M D G K L D Q S A Q Y N T P N A	C N K C H S
UniRef90_I0K4M5	Q S C	H G E K M E V V E Q R S S L T M G W C	I D C H
UniRef90_UPI0003B53BF2	A T C	H E D M F D K G L K G	C A P C H K M K

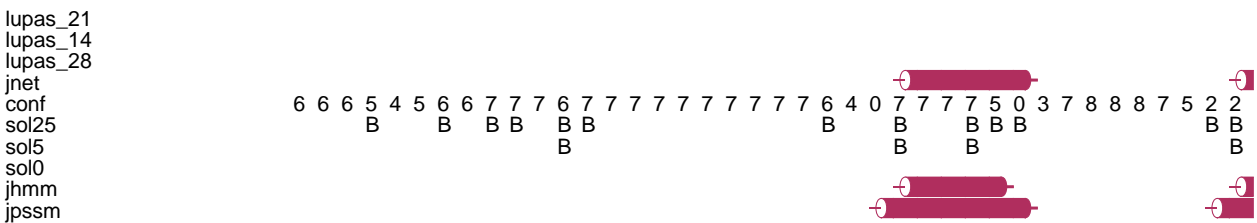
```

UniRef90_S0FWJ2      1          10          20          30          40
UniRef90_Q74GH2      R R P G A V F S H D D H A D D D C S V C H H V Y E N
UniRef90_UPI000382191F  N K L S A A A F S A S V H G K N A C C T S C H H M K G
UniRef90_A6ULE6      P A F T E N K R P A A V F N H D E H E I Y D C C T P C H H E G V E
UniRef90_S5YH10      A G V T C C F D C H R A H E G
UniRef90_M1WLR7      P M T F A H K D H G S V T C C A T C H H E F A K
UniRef90_B8FMZ9      C C Q G C H H N S P A
UniRef90_UPI00047702A9  H K K G L V Q F T H G K H Y A I A C G E C H H D A Q G
UniRef90_Q026X7      Q G V K C S S C H N P H T G
UniRef90_L0F8M3      A L S C L T C H N D S
UniRef90_UPI00039EEF69  H A S L S C T S C H S E V T A
UniRef90_UPI000255BBF3  K G V N C L D C H H T M K L
UniRef90_UPI000255BBF3  K M H A G V T C S N C H H S L E L

```



UniRef90_S0FWJ2 G E L V P D E S C S D C H S L K P G P D N P M P L E A A Y H N L C
 UniRef90_Q74GH2 E V K V E K V R C E R C H K K E N A E H Y S S V H A Q K D V R C C
 UniRef90_UPI000382191F E G E F P E M G C A D C H Y E D A G E G E T P L R E A Y H Q M C C
 UniRef90_A6ULE6 T V K T E G N A C T Q C H A E T A P E R G A F D T P A H T H H P Q G S S G A F C C
 UniRef90_S5YH10 R L P G P S C V T C H L T D A K V A P L F E E Q F H N L C C
 UniRef90_M1WLR7 S K T P P K C S S C H A P F N P E R P D M P G L K A A Y H G Q C C
 UniRef90_B8FMZ9 K D A V Q G C I E C H K I A G E M P R E V K Q E I K E Y H A E A L H M N C C
 UniRef90_UPI00047702A9 K L L I A G N G C L Q C H D K K Y D A P T H T F H A V N T A G A E C C
 UniRef90_Q026X7 H Q P L Q T A A C S G C H Q K A A H T T A V A G R S C C
 UniRef90_L0F8M3 Y P H P E G V M C N T C H T G R V A E T Y Q Q S F H G K G V F A A S C C
 UniRef90_UPI00039EEF69 K A E G N G L C L Q C H G G E V Y N R K S H H Q H Q E T S T G A Q C C
 UniRef90_UPI000255BBF3 R A S G N D V C A Q C H L P T K F D T V D H H F H P V G S D G A Q C



UniRef90_S0FWJ2 R D C H F D R S Q G P V L C G E C H
UniRef90_Q74GH2 A D C H T D I N K D K R K V V A K C I Q C H D K
UniRef90_UPI000382191F I D C H T E K K V G P V A C G Q C H V N
UniRef90_A6ULE6 A N C H M P E R
UniRef90_S5YH10 R S C H V E D H A A G K A A G P T C L S C H
UniRef90_M1WLR7 M G C H A A M K L E K P T T C D D A Q G C H K K K
UniRef90_B8FMZ9 R D C H K A Y N K E K G F K G K D G A P T S C T A C H
UniRef90_UPI00047702A9 K N C H M
UniRef90_Q026X7 V A C H M P Q V A A R A
UniRef90_L0F8M3 V D C H S N S L V A K K N I P Q T C A K C H D N P
UniRef90_UPI00039EEF69 V N C H M P T N R A Q F N T P N A C T Q C H D D K
UniRef90_UPI000255BBF3 V N C H M

lupas_21
lupas_14
lupas_28
jnet
conf 5 5 9 9 9 9 8 7 5 1 5 7 7 7 7 7 7 7 7 7 7 7 7 8 8 9
sol25 B B B B B B B B B B B B B B
sol5 B B B B B B B B B B B B B B
sol0
jhmm
jpssm