

1 10 20 30 40

QUERY
UniRef90_Q82L72
UniRef90_M3DJZ2
UniRef90_D0BJP8
UniRef90_I1ZLL3
UniRef90_W9G9A8
UniRef90_F3B6H5
UniRef90_UPI000375CF1
UniRef90_D6K504
UniRef90_S2Z908
UniRef90_F3A0C3
UniRef90_C8NI98
UniRef90_UPI000362C952
UniRef90_E0PFJ4
UniRef90_UPI000379A357
UniRef90_UPI0002FA216F
UniRef90_E7SBJ2
UniRef90_I2N8L3
UniRef90_F3NPF9
UniRef90_UPI00036A1B12
UniRef90_F2RAX5
UniRef90_UPI000376D536
UniRef90_B4VF22
UniRef90_C2L014
UniRef90_UPI00046ECE05
UniRef90_H1HVZ0
UniRef90_E0I6K4
UniRef90_UPI00035D84E4
UniRef90_D6B9J1
UniRef90_H3NJF9
UniRef90_UPI00037F0D4F
UniRef90_G2GL85
UniRef90_V6KGM0
UniRef90_UPI0003A781F3
UniRef90_V6KYL7
UniRef90_A0A022MP83
UniRef90_H1LWP1
UniRef90_B5H6E8
UniRef90_K2P778
UniRef90_M2B4S9
UniRef90_D3FB12
UniRef90_UPI00035DCE94
UniRef90_UPI000382A132
UniRef90_R5TKK7
UniRef90_F9PVS6
UniRef90_UPI00041CE5F2
UniRef90_V9XE90
UniRef90_UPI00036D7068
UniRef90_M1MR70
UniRef90_A3XL82
UniRef90_W4DI51
UniRef90_G5IHA1
UniRef90_C9AD08
UniRef90_UPI0004799665
UniRef90_UPI0003F4F654
UniRef90_B5H1K2
UniRef90_UPI00036EBB84
UniRef90_UPI00037F6B09
UniRef90_UPI0004747500
UniRef90_UPI000382863C
UniRef90_N9X115
UniRef90_F4LJZ4
UniRef90_X5DXA3
UniRef90_R2QRT2
UniRef90_V9G5L9
UniRef90_R6ZEE4
UniRef90_E8VYV9
UniRef90_UPI0003756F79
UniRef90_UPI00046489B7
UniRef90_C5NYQ0
UniRef90_W4EK33
UniRef90_F3A0G3
UniRef90_UPI00035ED378
UniRef90_UPI00037B0590
UniRef90_J3J582
UniRef90_UPI00046FFF2D
UniRef90_E0DHA2
UniRef90_H5XW85
UniRef90_UPI00031ABFC2
UniRef90_UPI0003602531
UniRef90_UPI0004702F91
UniRef90_M2F7D8
UniRef90_UPI00037881F3
UniRef90_B6FV12
UniRef90_UPI000365A12A
UniRef90_X8K5J6
UniRef90_X4ZSN3
UniRef90_UPI00041E982D
UniRef90_W4EG14
UniRef90_D7CGP6
UniRef90_UPI000478DBE1
UniRef90_UPI000248DE07

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

QUERY F E A E L E N L P 90 A W W S R D L A R K Q D F L F Y T E G L D V D Q V I A T V E S L 120
UniRef90_Q82L72 L K A V R E A C P F P A A T E L E A K Q Q L H V T Y F S S A P V D A E R F A S I L D Q R P
UniRef90_M3DJZ2 L R S V L D D N C P F P A A G T E L E P K R Q L H V V Y F S S A Q V L D T S S I E R F A E I N D R A
UniRef90_D0BJP8 Y L K E K E N L P F P W W N E E L E A R R D V L F F S H A Q L D K P S I L E F L D N K V
UniRef90_I1ZLL3 Y A Q D L D A L P A W W Q E D L A R K Q D V L F Y T E S E L D Q D A S V W E L V S S F
UniRef90_W9G9A8 L R A L E K A G C P F P A A S G E F A K R Q L H V T Y F S P V A A S R F D D A I N D N A S
UniRef90_F3B6H5 Y L K E K A G L P D W W N G E F A R R D V I F L P R Q I D K S V I T D F I N D S A S
UniRef90_UPI000375CF1 L R A V V D A C P F P A A G E L Q P K Q L H V T Y C S A P V T A D R F A A I L D R D
UniRef90_D6K504 L R A V A E A C C P F P A A A D L Q A K Q L H V T Y F S S A P V D A A R F A G E I D D Q R S
UniRef90_S2Z908 L A A V V E A C P F P A A E L E A R R Q L H V T Y F S S A P V D A A R F A G E I D D R E S
UniRef90_F3A0C3 Y L E E K A E L P D W W K E D M A R K D V L F F S C K F N K S S I L D F I L D K S S
UniRef90_C8NI98 Y L E E I T A N L P F P W W N E E F A R K Q L H V T Y F S Q Q T N S D E R V V E F A K N S
UniRef90_UPI000362C952 L R A V R D D C P F P A A E L E G K Q L H V T Y F S S Q P V E A E R F A G I D L P
UniRef90_E0PFJ4 L E N I L Q N A P D W W G N E N K E I Y L L F M P P A T F S D V F N E I G G E P
UniRef90_UPI000379A357 L K A V A D A C C P F P A A A D L E A K Q L H A T Y F S T S G P A D E A E R Y A G I D D Q R
UniRef90_UPI0002FA216F L A A V A E A C P F P A A D L E A G K Q L H A V Y Y S G P A D E P E R F A A I D D Q R E
UniRef90_E7SBJ2 Y E A E C A S L P K W W S K E M A R K D V L F Y T E S G L G R E T V E E K L L A L
UniRef90_I2N8L3 L R A V D D C C P F P A A A D L E A K Q L H V T Y F S S A P V T A E E R F A A S V D D R G S
UniRef90_F3NPF9 L R A V R E A C C P F P A A D R L E A G K Q L H A T F F S S G P V D E E E R F A A S V D D R G S
UniRef90_UPI00036A1B12 L A A V A E A C C P F P A A D G L E P K Q L H V T Y F S S G P V D E E E R F A A S V D D R S E
UniRef90_F2RAX5 L A A V A E N C C P F P A A E L E G K Q L H A F Y F S S G P A D P G R F A A I D D Q E M
UniRef90_UPI000376D536 Y M Q D Y D K L P D W W Q D D L A R K Q D V L F Y T R S D Q K E L A Q A D M V G E M
UniRef90_B4VF22 L R A V A D A C P F P A A E L E G K Q L H A T F F S E Q P G A E R F S G I D G G P
UniRef90_C2L014 Y L E E Q A A L P A W W E E L A R R D V L F Y S C T M D P S K E D I L H F L E N A
UniRef90_UPI00046ECE05 L E A A I A G N P F P P A A E L E G Y K R R L Y V S F L A E A P S K E A L E K L R P Y
UniRef90_H1HVZ0 Y L J E E R D A L P Q W W H E E M A R R D V L F Y A C G M D T D R I R D F I E K A
UniRef90_E0I6K4 L N A V A E A C C P F T E E Q L E G R S L H V T Y M L Q E K P D S D K L K L Q Q A
UniRef90_UPI00035D84E4 L A A V A E A C C P Y P A A E L E G R Q L H V T Y F D R P V D A G R F A A I D D Q A E
UniRef90_D6B9J1 L Q A V V D A C C P F P A A D L E P K Q L H V L Y L S R T V T P A D L S G L D D P A
UniRef90_H3NJF9 Y L Q A R E D L P D W W G G E L A R R D V L F F S H N S D K S A I L E F F D D Q T
UniRef90_UPI00037F0D4F L S A V A D A C C P F P A T Q L A P K R Q L H I T Y F S G P V T A D R F A A I D D P A
UniRef90_G2GL85 L S A V A E Q C C P F P A A E L E G K Q L H V T Y F S S G P V G A E R F A A I D D E A
UniRef90_V6KGM0 L K A V A D A C C P F P A A S L E G K Q L H V T Y L S E A V D L D R F A A I D D E
UniRef90_UPI0003A781F3 W G R V L S A C C P Y G A A A E D P A K V L V T L L D G K P A E S Q L E K L S G V
UniRef90_V6KYL7 L R E V V A A C C P F P A G D L D P S K L L V L F V E E T P A P D H F A G V S A D
UniRef90_A0A022MP83 L R A V V E A C C P F P A A A L E P R Q L H V T Y F S A D S P G P A R Y D G I D R A
UniRef90_H1LWP1 Y L K E K E N L P K W W H Q E M A R R D V L F F S C D S D R S K I V D F I E K A
UniRef90_B5H6E8 L K A V A D A C P F P A A S L Q G K Q L H V T Y F S E R V T P E R F A P V D A A
UniRef90_K2P778 L Q A L I E N N P Y V K Q Q A P I E K L Y C T F L E N G T P D D P D L A S I L A G D L
UniRef90_M2B4S9 F R A V T N N P F P D A A A F P K T L H F F L S E S G T P D D P D L A S I L A G D L
UniRef90_D3FB12 W A A V V A A N P F P D A V S E P K T L H V V F L S E Q V A P S R L D D V D R A
UniRef90_UPI00035DCE94 L R A V A D A C C P F P A A E L E G R Q L H V T Y Y S A P V E P E R F A A I D D Q E
UniRef90_UPI000382A132 Y Q K D A D C L P A W W E D L A R K Q D V L F Y S D K V D R S F L E A D R I A H L
UniRef90_R5TKK7 L E D I L K N A P E W W G D S N K E I Y L I F M F P D I S Y D S F Y N E V G N P
UniRef90_F9PVS6 Y E E E L R N L P D W W N H E M A R K D V L F Y T E G L D V D Q V T E K V N S L
UniRef90_UPI00041CE5F2 L A A V A G A C P F P A A G L E M A R Q Q L H V T Y F D R P V D T A R F A P L D A
UniRef90_V9XE90 L A R V V E A Y P F D D A R A D R H S Y V V F V S D P A V L E S L A A L S D D L
UniRef90_UPI00036D7068 F E E V A N H N P Y D W G N D D R K L L V T F L D E P A A E N F E K L Q A V
UniRef90_M1MR70 L E D I L H N A P D W W G N E D K E I Y L I F I M L P A T F T D V F S E I G E P
UniRef90_A3XL82 L H A I K N N P F A T A S T P I E N L H L T F L S E T P E E S R V T A L E A M
UniRef90_W4DI51 M E N V I A N D P F L S E P E E F K R W Y V T F M P A E P S A E A L D K L R T Y
UniRef90_G5IHA1 L E D I L H N A P D W W G N D D K E I Y L I F M M P P V K F S D V Y H E I G E P
UniRef90_C9AD08 L Q E R L T H I P D W S G T E D K T I Y L I F L M P S L T Y E V L S E K L G A P
UniRef90_UPI0004799665 L E D V L Y H A P Q W W K E N D N K E I Y L I F L I P A T F I E V D E I G E P
UniRef90_UPI0003F4F654 Y Q A E I D Q L P A W W Q E M A R K D V L F F T E G L D K Q T M V D Y I Q S L
UniRef90_B5H1K2 L R A V A E A C P F D A D G L A P K Q L H I T Y F S A P V T P E R F A A V D P A
UniRef90_UPI00036EBB84 L E D I V N H A P D W W G D D S K E I Y L I F M P P L S Y E K F Y E E I G N P
UniRef90_UPI00037F6B09 L A S V V G D C C P F P A G R L D G R Q L H V T Y F S E R V E P E R F A R E I D R D
UniRef90_UPI0004747500 L R D V R D A C C P F P T D G V G G K E L H V V F C S R A V P A E R L A S L D A A
UniRef90_UPI000382863C L A E N I T G R N P Y A G E E Q G K E K I Y V T F L S A L P T S E S N I A Q L M T F
UniRef90_N9X115 L D N E I H N A P D W W G E Q D N E I Y L I F I M P P A T S A E V Y Q E I G E P
UniRef90_F4LJZ4 L K E L L S N A P D W W G D D S K E I Y L I F L L P P L S Y Q E L Y D E L G D P
UniRef90_X5DXA3 L A N T I K S N P F A D E N K E A K F L H V T F L K E T P A K E N N E K I G N S
UniRef90_R2QRT2 L A K T L K H A P D W W G E D K D I H Y I F L I P P I S M E E V F D A V G A I
UniRef90_V9G5L9 I E E T V S S C P F P E E A S E H E S L Y V V M L S E P A T D D R L J A L L Q S Y
UniRef90_R6ZEE4 L E D I L R H A P R W W G A E N K K I Y L I F L M P P A S F A D V Y H E I G E P
UniRef90_E8VYV9 L A G V A D A C C P F P A A R L E G R Q L H V T Y F D R A V D A S R F A S L D V E
UniRef90_UPI0003756F79 L K A I F D A C C P F P E D Q K T N S Y F M M L Y E V P D K I L V I E V S N L
UniRef90_UPI00046489B7 F D A V V S H C P F P A A G E Y A P R Q L H V T Y C S A Q P D S P A R L D Q I D A A
UniRef90_C5NYQ0 Y L E E L E N L P S W W F N D S Y R K D V L F Y T N E I D Y S I M R E R I E K M
UniRef90_W4EK33 L E R I T E E C P F S K E A S E G E S L Y V A L L L E V P S Q E K I E R L N S A F
UniRef90_F3A0G3 Y L E E L K N L P S W W K D D F Y R K D V L F Y S E D L D Y S I I K E R I N N
UniRef90_UPI00035ED378 Y Q D D Y D Q L P A W W H G E V A R R D V L F Y T S T D Q H K L A Q D L I C Q M
UniRef90_UPI00037B0590 M R A V V A A N P L A D I A D N G S K F A I A F L A T E P D P A L A A E H D P V
UniRef90_J3J582 Y L A Q L K E L P D W W H G E V A R R D A L F Y T R G L D R D H V R E R I E A M
UniRef90_UPI00046FFF2D L Q D T F N N A P D W W N T D N K E V Y H I F M V S P I T T V A E V V Q A V M G E
UniRef90_E0DHA2 L R K E A A Q V P D W W R D E T A Y R D V L F Y L P E A K K D E I V A A T A D W
UniRef90_H5XW85 L T D A L E H A P E W W N P N G A K H N I F V I S K P A T A E D V C A E A L G E S V
UniRef90_UPI00031ABFC2 L E E V I H N P F T E N E A S E G K L Y V S V I S K E P V A E D L A A L L S V
UniRef90_UPI0003602531 L E Q V I Q G N P Y P E A E S V P G T L Y V N F L A T V P P Q P N L E G L E K L
UniRef90_UPI0004702F91 L E Q A V A T A N P F Y S S R D A D T R L H L T F L K T A P A Q L D A I N Q S
UniRef90_M2F7D8 Y E K D Y R A L P D W W H G D T R K D V L F F T E K M D K E R A V E R V R S F
UniRef90_UPI00037881F3 F E R L V A E N P Y P E A A G D H T K L H A Y A L E R A P T P E E V A P L T E R
UniRef90_B6FV12 L E D I L Y H A P G W W G D E S K E I Y L I F I M P P A T F K D V Y N E I G E P
UniRef90_UPI000365A12A I A A V A G N P L P E G A E P A R F L A V F L S G P A P D D A W F R T V D P A
UniRef90_X8K5J6 Y L J E E R A S L P N W W Y E N L A R R D V L F F S C G L D T S N I I D F L N K E Y
UniRef90_X4ZSN3 V K S V I A N N P F E T E P E E F K R L Y V L L A G E L T E E A L A R L G P Y
UniRef90_UPI00041E982D V R A V I E A N P L A G L N D D F G S K M V A G F L S E M P G A E A A A F D P V
UniRef90_W4EG14 L E A A I A G N P F P Q S E P E A Y K L Y V S F L A A E P A E A L E K L R P Y
UniRef90_D7CGP6 L A A V V E A N P Y P E A A E P K T L H V V F L S A A P A D P A P L D A L D L A
UniRef90_UPI000478DBE1 L S D A L S H A P I W W D Q A A Q S K H N I F V I P A T A E V I D L V G L S
UniRef90_UPI000248DE07 L E R I A D C P Y A D I P A E G E S I H V S V L T E V T P Q K V V D L L S A S

QUERY UniRef90_Q82L72 UniRef90_M3DJZ2 UniRef90_D0BJP8 UniRef90_I1ZLL3 UniRef90_W9G9A8 UniRef90_F3B6H5 UniRef90_UPI000375CF1 UniRef90_D6K504 UniRef90_S2Z908 UniRef90_F3A0C3 UniRef90_C8NI98 UniRef90_UPI000362C952 UniRef90_E0PFJ4 UniRef90_UPI000379A357 UniRef90_UPI0002FA216F UniRef90_E7SBJ2 UniRef90_I2N8L3 UniRef90_F3NPF9 UniRef90_UPI00036A1B12 UniRef90_F2RAX5 UniRef90_UPI000376D536 UniRef90_B4VF22 UniRef90_C2L014 UniRef90_UPI00046ECE05 UniRef90_H1HVZ0 UniRef90_E0I6K4 UniRef90_UPI00035D84E4 UniRef90_D6B9J1 UniRef90_H3NJJF9 UniRef90_UPI00037F0D4F UniRef90_G2GL85 UniRef90_V6KGM0 UniRef90_UPI0003A781F3 UniRef90_V6KYL7 UniRef90_A0A022MP83 UniRef90_H1LWP1 UniRef90_B5H6E8 UniRef90_K2P778 UniRef90_M2B4S9 UniRef90_D3FB12 UniRef90_UPI00035DCE94 UniRef90_UPI000382A132 UniRef90_R5TKK7 UniRef90_F9PVS6 UniRef90_UPI00041CE5F2 UniRef90_V9XE90 UniRef90_UPI00036D7068 UniRef90_M1MR70 UniRef90_A3XL82 UniRef90_W4DI51 UniRef90_G5IHA1 UniRef90_C9AD08 UniRef90_UPI0004799665 UniRef90_UPI0003F4F654 UniRef90_B5H1K2 UniRef90_UPI00036EBB84 UniRef90_UPI00037F6B09 UniRef90_UPI0004747500 UniRef90_UPI000382863C UniRef90_N9X115 UniRef90_F4LJZ4 UniRef90_X5DXA3 UniRef90_R2QRT2 UniRef90_V9G5L9 UniRef90_R6ZEE4 UniRef90_E8VYV9 UniRef90_UPI0003756F79 UniRef90_UPI00046489B7 UniRef90_C5NYQ0 UniRef90_W4EK33 UniRef90_F3A0G3 UniRef90_UPI00035ED378 UniRef90_UPI00037B0590 UniRef90_J3J582 UniRef90_UPI00046FFF2D UniRef90_E0DHA2 UniRef90_H5XW85 UniRef90_UPI00031ABFC2 UniRef90_UPI0003602531 UniRef90_UPI0004702F91 UniRef90_UPI00037F7D8 UniRef90_M2F7D8 UniRef90_UPI00037881F3 UniRef90_B6FV12 UniRef90_UPI000365A12A UniRef90_X8K5J6 UniRef90_X4ZSN3 UniRef90_UPI00041E982D UniRef90_W4EG14 UniRef90_D7CGP6 UniRef90_UPI000478DBE1 UniRef90_UPI000248DE07

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

QUERY H I T I R N A K T F D K I G Q M L K K
 UniRef90_Q82L72 V A T S R N W N T V V K L E E L
 UniRef90_M3DJZ2 V A T S R N W N T V R K L V E M T E
 UniRef90_D0BJP8 M I T I R N G N T F E K I A Q I L E
 UniRef90_I1ZLL3 L L T I R N A N T F E K I G Q F L R K
 UniRef90_W9G9A8 I A T S R N W N T V V K L V E L T Q
 UniRef90_F3B6H5 S V T V R N G K T F E K I A E I L E K
 UniRef90_UPI000375CF1 V A T T R N W N T V L K L A E M A Q
 UniRef90_D6K504 I A T S R N W N T V L K L V E M
 UniRef90_S2Z908 I A T S R N W N T V T K L V E L
 UniRef90_F3A0C3 K I T I R N A N T F E K I A K I L E E
 UniRef90_C8NI98 T I T I R N G K T F D K I A E L L Q K
 UniRef90_UPI000362C952 I A T S R N W N T V V K L V E L
 UniRef90_E0PFJ4 K L T I R T A N T V R K L A K M
 UniRef90_UPI000379A357 I A T S R N W N T V V K L V E M T Q
 UniRef90_UPI0002FA216F V A T A R N W N T V L K L I E M T R E
 UniRef90_E7SBJ2 Q M T I R N A N T F D K I G T L L K K
 UniRef90_I2N8L3 V A T T R N W N T V V K L A E L
 UniRef90_F3NPF9 V A T S R N W N T V R K L E E L
 UniRef90_UPI00036A1B12 I A T T R N W N T V T K L V E L
 UniRef90_F2RAX5 V V T A R N W N T V V K L V E M T K
 UniRef90_UPI000376D536 Q V T I R N G R T Y E K L K S F L E K
 UniRef90_B4VF22 D V T S R N W N T V V K L I E L
 UniRef90_C2L014 Q I T I R N G N T F D K I A E L L R
 UniRef90_UPI00046ECE05 S I T A R N W N T V N K L A A M G K E
 UniRef90_H1HVZ0 E V T I R N G N T Y E K I A A T L E
 UniRef90_E0I6K4 P T T T R N W N T I N K L V Q L A K E
 UniRef90_UPI00035D84E4 T A T T R N W N T V A K L V E M T R
 UniRef90_D6B9J1 P A T S R N W N T V V R L A E M
 UniRef90_H3NJJF9 E I T I R N G K T F E K I A E I L E
 UniRef90_UPI00037F0D4F I A T S R N W N T V R K L V E L T A E
 UniRef90_G2GL85 I A T S R N W N T V V R L V E M T G E E
 UniRef90_V6KGM0 I A T S R N W N T V V K L V E L T H E
 UniRef90_UPI0003A781F3 P A T T R N W R T M L K L E E M A Q
 UniRef90_V6KYL7 T V T G R N W R T V T K L V E M T A E
 UniRef90_A0A022MP83 I A T S R N W N T A L K L V E L
 UniRef90_H1LWP1 Q V T I R N G N T F E K I A E I L E K
 UniRef90_B5H6E8 V A T S R N W N T V V K L V E M T R
 UniRef90_K2P778 Q G T S R N W K T M R K L L E L S K Q
 UniRef90_M2B4S9 A T T A R N H S T I E K I A S L L D
 UniRef90_D3FB12 T A T A R N W R T V A T L L E L L A
 UniRef90_UPI00035DCE94 V A T T R N W N T V A K L V E M
 UniRef90_UPI000382A132 N I T I R N G K T Y A K I G E L V
 UniRef90_R5TKK7 R I T I R T A N T V R K I V K M
 UniRef90_F9PVS6 N L T I R N A N T F D K I G H F L K Q
 UniRef90_UPI00041CE5F2 T G T S R N W N T V T R L V E M
 UniRef90_V9XE90 I T T V R N L N T L R R L A
 UniRef90_UPI00036D7068 I A T T R N W R T V N K L V E M G K
 UniRef90_M1MR70 K L T I R T A N T V R K I V E M
 UniRef90_A3XL82 S A T T R N W K T V L K L S E L L Q
 UniRef90_W4DI51 P I T A R N W N T V N K L V A L G K
 UniRef90_G5IHA1 K L T I R T A N T V R K I V R M
 UniRef90_C9AD08 Q I T I R T I N T V R K I A E L
 UniRef90_UPI0004799665 K L T I R T A N T V K K I V G M
 UniRef90_UPI0003F4F654 Q V T I R N S K T F S A I S N Y L E
 UniRef90_B5H1K2 V A T S R N W N T V R K L V E L T R
 UniRef90_UPI00036EBB84 D I T I R T A N T V R K I V G M
 UniRef90_UPI00037F6B09 V A T T R N W N T V V K L A E M
 UniRef90_UPI0004747500 D A T S R N W N T V T A L V E L T R
 UniRef90_UPI000382863C A A T T R N W A T V N K L L A L A K
 UniRef90_N9X115 K L T I R T A N T V R R I V G M
 UniRef90_F4LJZ4 K I T I R T A N T V R K I V R L
 UniRef90_X5DXA3 S A T T R N W K T T L T L L E M A K E
 UniRef90_R2QRT2 H V T I R N A N T V N K L V K L S Q
 UniRef90_V9G5L9 P Q T M R N W K T M N K L L Q L A N
 UniRef90_R6ZEE4 K L T I R T A N T V R K I V G M
 UniRef90_E8VYV9 V A T S R N W N T V L K L V E M T R
 UniRef90_UPI0003756F79 T A T A R N Y K T M A K L L S L
 UniRef90_UPI00046489B7 V A T V R N W N T V T K L A A M T D E
 UniRef90_C5NYQ0 S I T I R N F R T F E K I A D L L K K
 UniRef90_W4EK33 P V T I R N W K T M N K L T A L L A K E
 UniRef90_F3A0G3 A V T I R N G R T F M K I A E L L D
 UniRef90_UPI00035ED378 E V T I S N G R T Y E K L A D F L
 UniRef90_UPI00037B0590 A A T V R N W N T T T K L A A M A
 UniRef90_J3J582 Q V T I R S G S T V E K I A A M L S Q
 UniRef90_UPI00046FFF2D K V T V R N A N T V K K L V E L A K
 UniRef90_E0DHA2 Q L T I R N G K T F Q K L I E L A D E
 UniRef90_H5XW85 K L T V R N A N T A S K L A E L A
 UniRef90_UPI00031ABFC2 P A T T R N W Q T V N K L A N M
 UniRef90_UPI0003602531 P M T S R N W N T V R K L G E L A R
 UniRef90_UPI0004702F91 P A T T R N W K T V L K L I E L A
 UniRef90_M2F7D8 Q V T I R N S K T A E K I L K F L Q
 UniRef90_UPI00037881F3 P G T A R N W R T V L T L H E M A G K
 UniRef90_B6FV12 K L T I R T A N T V R K I V G M
 UniRef90_UPI000365A12A T A T A R N W N T V L K L L Q M A D
 UniRef90_X8K5J6 E I T I R N G K T F E K I A E
 UniRef90_X4ZSN3 S A T S R N W N T V S K L A V M A A E
 UniRef90_UPI00041E982D V L T G R N W N T V T K L A A M A
 UniRef90_W4EG14 A L T A R N W N T L N K V A A L A R K
 UniRef90_D7CGP6 T L T A R N W N T V T K L L A L A D
 UniRef90_UPI000478DBE1 S V T I R N A N T T K K L L Q L L E
 UniRef90_UPI000248DE07 T V T T R N W N T M N K L A A L A K

UniRef90_L8EL29 1 M P R Q I A L L L R R G I N V V G G N K F P M A R Q R E L L F A A L G H R D M T V L L 40
UniRef90_D5CLQ1 MT T L I A L L L R R G I N V V G G N K F L P M K E L L S A V L L F T E M G L L C V V Q T T Y I
UniRef90_A9KSA4 ME Q Y I A F L L R R G I N V V G G N K S I S K M P E E L L S K R D I L F E E E Q A G N G F F N D D V V Q T T Y I
UniRef90_UPI00037955B5 MK T Y I V L L L R R G V N V P G K N S I S K M A F L L K K S L L E E E H G Y F E N D V V R T T Y I
UniRef90_H8KRR1 MK T Y I A L L L R R G V N V G H N K I N M A K E L L K K S L L E E E H G Y F E N D V V R T T Y I
UniRef90_I4DZN5 R Y A L L L R R G V N V G G T T R L L M A D L L K K R D L A G D L G G F F P A V I S Y I
UniRef90_I0KX18 MT R Y V A L L L R R G V N V G G T T R L L M A D L L K K R D L A G D L G G F F H D D V V R T T Y I
UniRef90_V4N554 MT V F I A L L L R R G V N V G G N K L L P M K D W R R G T M E S D A Q N G F F G S R Q V V R T T Y I
UniRef90_UPI0003615520 MQ T Y I L L L R R G V N V P G K N K I V I P P M A E L L R K K S F E E D A Q N G F F G S R Q V V R T T Y I
UniRef90_R5BRL5 MR R Y I A F L L R R G I N V G K N K I V I P P M A E L L R K K S F E E D A Q N G F F G S R Q V V R T T Y I
UniRef90_I4A6N7 K Y I A L L L R R G I N V G G N R V V I P M N Q L K K Q C L E E K A G F F Q T N V V V T T Y I
UniRef90_UPI000287F5EB MK K R I A L L L R R G I N V G G R N N I A M A D L L K V L F E E D L G L G C E P V A T T Y I
UniRef90_A4FG47 MS T H I A L L L R R G I N V G G R N N I A M A D L L K V L F E E D L G L G C E P V A T T Y I
UniRef90_UPI000409C1B0 MT I F I A L L L R R G I N V G G H K V I K A M A D L L K Q L L G T E M G L L T N V V Q T T Y I
UniRef90_B1VWB3 T T Y A L L L R R G I N V S G S K K I P M P E L L R T V L T E E G M G L L H T A G I A T H I
UniRef90_D3EM48 MT I Y I A L L L R R G I N V G G N K I P K M A D L L R K M L E E G M G L L H T A G I A T H I
UniRef90_G2PLG0 N T Y I A L L L R R G I N V G G Q K K I K M A D L L K V V L E E D T L G L L K N V V K T T Y I
UniRef90_C3JIP6 MT R Y V A L L L R R G I N V G G G L N I K M A D L L A R Q V F G D L G L G F F Q D E V V K T T Y I
UniRef90_E9T6R8 MT R Y V A L L L R R G I N V G G G L N I K M A D L L A R Q V F G D L G L G F F Q D E V V K T T Y I
UniRef90_UPI000368CDFB K Y A V L L L R R G I N V G G N K V V I M S E L L R D L V R Q L G L G Y E Q V V E T T Y I
UniRef90_UPI00047A12C1 MT R Y A V L L L R R G I N V G G H R I P M A E L L R E L T A E E G H F A G N V A T L L A
UniRef90_C1AUE3 MT R Y A A L L L R R G I N V G G G L N I K M A D L L R S T F A E L L H A G N V A T L L A
UniRef90_UPI00041B69C9 MK T H I A L L L R R G L N V G G G H K I K M A D L L K L L F E E S L G L G F F A E V V T T Y I
UniRef90_N6V588 MA V F V A L L L R R A V N V G G G T T L I K M A E L L K A L C E E I G L G F F A D V V K T T Y I
UniRef90_UPI00041D28B5 MA L H A A L L L R R A V N V G G G N K I K M A E L L K A A F E A L G L G P T G R V V K T T Y I
UniRef90_UPI0001FFDCAC MR T H V A L L L R R G I N V G G G T K L V P M A D L L R A V L A G R L G L G F F T D V V A T T Y I
UniRef90_UPI000425F458 M P V Y V A L L L R R A V N V G G G T T L I P M A E L L K A L C E E I G L G F F A D V V A K S S Y I
UniRef90_E3CP54 MK R Y A L L V R R G I N V G G N K V V I M E K F R H D L D K L G L G F F A K N V S S Y I
UniRef90_A5G7B2 MK I Y I A L L F R R G I N V G G N N V I P M K E L L V I T L L E S L G L G L Q Q V V K T T Y I
UniRef90_W1Q465 K Y L L L L R R G I N V G G N N V I V M S E L L R A Q I E A L G L G F F S A V V T T Y I
UniRef90_G9A2Q5 P V Y V A L L R R A V N V G G G T M L V P M A E L L K A I C E E A D L G L G F F S D V V K T T Y I
UniRef90_G4HAM0 MT I Y I A L L L R R G I N V G G H K I K M A D L L K T L L E E G L G L G L S R V V Q T T Y I
UniRef90_U2QY78 R Y V L L L R R G I N V G G N K V I S M N D L K K M N I G E A L L G L G L S R V V Q T T Y I
UniRef90_R6YP71 MK R Y V A L L L R R G I N I G K N K V I P M A E L L K K C F E E A L L D F Q M D V V K T T Y I
UniRef90_UPI0003824B6B T R Y V A L L L R R G V N V G G R R V V I P M A D L L R R V L T E L L G V T D I L K T L L
UniRef90_UPI00036A9407 M M K W I V L L R R G I N V G G N K L V P M A E L L R S L L E E M G C H F H I P V S Y I
UniRef90_V71FV1 R Y V L L L R R G I N V G G N K V I V M A D L L K K S L A E M G L G F F A D V V K T T Y I
UniRef90_F5WU83 MK T Y I A L L L R R G I N V G G H K V I P M A D L L K Q I F E S L G L G Y T E S V K T T Y I
UniRef90_F8LPS2 MK R Y A F L V R R G I N V G G R K V I V M E E F C H E L K E G L G L G M S N V S S Y I
UniRef90_K2D7K7 M I P F I S L L R R G I N V G G H K I T N D A L R A L Y E E G L G L G F F E K N V S S Y I
UniRef90_J0MW71 Y V A L L L R R G I N V G G N K V I V M S E L L R E Q I A G E L G L G Y G N V Q T T Y I
UniRef90_E5V1F8 K Y V L L L R R G I N V G G N K V I A M S D L K K D M I S E N I G G F Y E N V Q T T Y I
UniRef90_UPI00047A00A4 MK T H L A L L L R R G I N V G G H N M I T M D A L K A T L E N I G G H G H V R S V L A
UniRef90_UPI000464BB1D MA R Y I A L L L R R G V N V G G G L N I T M A P L R A A V E A L L G H G H V R S V L A
UniRef90_E4TTR2 ME T K I A L L L R R G I N V G G R K I L M A D L L K T L M Q D N L G N Y E N I V Q T T Y I
UniRef90_G8TI41 MT T Y I S L L L R R G I N V G G H R M I K M E A L K K I C M T Q D L N G F T N V Q T T Y I
UniRef90_S3AX29 MT R Y A A L L L R R G I N V G G N K V I P M A E L L R K V M T G L G W G D V V R T T Y I
UniRef90_W6WEU7 MT V Y V A L L L R R A V N V G G T A L L Q M T E L K T I C E E G L G L G F F T D M K S T Y I
UniRef90_I3YTF6 MQ T Y I A L L L R R A I N V G G G H K I K M A N L K L L F E E E L G L G L T N V S T Y I
UniRef90_S0FXV5 MA A Y I A L L L R R G I N V G G N I I K M A E L L K R I F E E A L L G L L C N V S T Y I
UniRef90_S3HJR1 MT V Y V A L L L R R A I N V G G T K L P K M T E L K A N V C E E L G L G F F S A D V V K T T Y I
UniRef90_F5LEQ4 MT T Y L A L L L R R G I N V S G G Q K I K M A E L L K N M F E A M G F L A E V V K T T Y I
UniRef90_D3ALI3 MN R Y I A L L L R R G I N S G K N K I V I P M S E L L K K G F A E L G L G F F A E V V T T Y I
UniRef90_UPI0003762A5C MT R Y A A L L L R R A V N V G G R K V I P M A R L R A L L E D L G L G F F T E V A T T Y I
UniRef90_D9T199 MT R Y V A L L L R R A V N I G G S S M V M T E L L K E V F V S C G C F F D G D V V A T T Y I
UniRef90_K4QZV6 T T Y A A L L L R R G I N V G G K K V I P M A E L L R T L L T G L G L L A D V V R T T Y I
UniRef90_I4DBI8 MT T Y I A L L L R R G I N V G G N V I K M V D L K K V F E A M G L L F N V K T T Y I
UniRef90_W4BG44 MT I Y I A L L L R R G I N V G G H K I K M A D L L R K M L E E G M G L T H V V Q T T Y I
UniRef90_C9XQZ9 MK S Y I A L L L R R G I N I G K N K I I M S E L L K A S F V E L G Y S E V S T Y I
UniRef90_W0EIF4 K Y I A L L L R R G I N V G G N K V I S M H E L L K N C F E N A G F L N T R T Y I
UniRef90_A3ZRZ6 M P S Y L A F L R R G I N V G G H K L P M Q E L J A I L E S E L G C T N K T Y I
UniRef90_UPI0003B37CF5 M P V Y V A L L L R A V N V G G T A L L P M A E L L K A I C E R L G F A N V E T T Y I
UniRef90_V2XJZ2 I G K N K V I S M S E L L K E L L E A N A G F F E S D I S S Y I
UniRef90_J7IVB3 M I V Y I A L L L R G I N V G G N V I K M A E L L K K V F E A L G L L F N V K T T Y I
UniRef90_U2DA52 M L T Y I A L L L R R G I N V G G N I I K M A E L L K K T F E A A L G L L F N V K T T Y I
UniRef90_Q12RP5 MQ T Y I I L L L R R G I N V G G N N V I P M K A L T Q V L L D A G F F C Q V I K T T Y I
UniRef90_I4B717 R Y I S L L L R R G I N V G G Q K I K M T D L K A V F E K M K L Q Q D V E T T Y I
UniRef90_UPI0003FACB3A MT I Y I A L L L R R G I N V G G N K I K M A E L L R Q V L E E A G L L I R V E T T Y I
UniRef90_R3W718 M V M Y I A L L L R R G V N V G G N R V I P M A T L K E R F E E H G F F T N V S T Y I
UniRef90_UPI0004641C04 F V A L F S G I N V G G N R I K M A E L L R A F F E E L G F F T N V S Y I
UniRef90_UPI00031C2220 MT I Y I A L L L R R G I N V G G H R I K M A D L L R H L L E E K M G L L D K V Q T T Y I
UniRef90_UPI0004647A9F ME K Y I A L L L R R G V N V G G N K I S M P E L L K L A F E E E H G F F L D V T T Y I
UniRef90_A0A024FHR9 MK T Y I A L L L R R G I N V G G H K I P M A E L L S E L L T E K S G F F S V R T T Y I
UniRef90_UPI000478ACFC MT I Y I A L L L R R G I N V G K N R I K M A D L L K N L L E T I G L E K V K T T Y I
UniRef90_UPI0002378EC6 MS T Y V A L L L R R A V N L G R H R I A M S D L R A L V A A A G H G V A T T Y I
UniRef90_G2FZL9 MT I Y V A L L L R R G I N V G K N R I K M A D L L K L A F E E I G F S K V A T F I V
UniRef90_X6GJD2 K I F V A L F S G I N V G G N R I K M A D L L R S F F E E L G L G F F G S D V A S Y I
UniRef90_A4AU20 MT T Y I A L L L R R G I N V G G H K I K M A D L L R S L L E A D S G L S R V R T T Y I
UniRef90_V4NPS8 K I W I G L F R R G I N I G G N R M P M K D L V K R L E A E G L L S D R V K T T Y I
UniRef90_W819D7 M P V H V A L L L R A I N V G G A M L A M A D L R A I C E E G L G F F N D V V K T T Y I
UniRef90_C6ASN2 M P V Y I A L L L R A V N V G G T S L P M A E L L K A L C E E G L G F F S D V V K T T Y I
UniRef90_S7XM08 M A Q L R Q E L T E L G L L E K V E T T Y I
UniRef90_UPI00036FC22C MK T Y I A L L F R R G I N V G G N N I L P M K G L V A T L E N I G L I N V K A Y I
UniRef90_C8W0V8 MA G Y I A L L L R R G I N V G G N K I K M V D L K K L E V N M G F F E V Q T T Y I
UniRef90_UPI00047AFE95 Y I A L L L R R G I N V G G N K I K M A D L L K K L L D S M G L K K V K T T Y I
UniRef90_W9DIG3 T T R L V L I R A V N V G G A K L P M A E L L R E L A T E S L G A T D V A T T Y I
UniRef90_K7S8Q1 R Y A A L L L R R G V N V G G H R K L P M A E L L R T L L E G L G Y R D V A T T Y I
UniRef90_G0LAG8 MK V Y I A L L L R R G I N V G G G K L L P M A D L L R T M L E N D M G F L S V K T T Y I
UniRef90_UPI000365E983 MA K Y V A L L L R R G I N V G G N K M K M A D L L K V V V E K A G F S N G V Q T T Y I
UniRef90_C6CTE0 MS V K I A L L L R R G I N V G G N K I K M A D L L R E A L T A M G F H E V Q T T Y I
UniRef90_R6TJ83 MK K H I A L L L R R G V N I G G N K I S M V Q L K T I F E S M Q L Q E V K T T Y I
UniRef90_UPI000248CBC9 MN T Y V A M L R G I N V S G Q K I K M D R L K S I F E S M Q L Q E V T T Y I

UniRef90_L8EL29 T G N I V F A D P G T P A E T A R R I 60 E A R I A D E L G F P V P V V V R T R D E 80
UniRef90_D5CLQ1 S G N V V F F G C D K N K D E L A A K E I E S A A I A K A R Q H G F A P H I L L L L D A A E D
UniRef90_A9KSA4 S G N I I F S S S C L N D D K E K I L K E K E C S A L I T R D K N G Q L S E L P V V S I L L S T V T D D
UniRef90_UPI00037955B5 S G N V I F L K S S C L L L P K E K I L K E K V L H S A S V L L R D K N G Q L S E L P V V S I L L S T V T D D
UniRef90_H8KRR1 S G N I V F T T A K D V R Q I L E K N L E K L M T D K F Q L T L P V I V V R T A D D Q
UniRef90_I4DZN5 S G N L F F D S K E Q E E K L Q E A L L S A Y A F S D E S Y D F P L P V F V L V S S G R E A M
UniRef90_I0KX18 S G N V A F F G S T R D A E E K L A A G L L E R A L A D E L G K L T V P V L V L V S S G R E A M
UniRef90_V4N554 S G N A V F E S S D R P A S E D I A A S D M T Q A I G E V F G F R P S C V V V L T L G Q
UniRef90_UPI0003615520 S G N V I F L Q S S D E L A P K E L E T H G R V I H A L I K K H L G F P T L A I V V A R T A D E E S
UniRef90_I5BRL5 S G N V I F S S S D E L H D K E L T E S T I K K Q F G F D I P V F V I T S K E E S
UniRef90_I4A6N7 S G N V I F D Y A Q D P P V L T I E K C K E L L E E E F K F P I D L A L I D G E S
UniRef90_UPI000287F5EB S G N V I F N S A D T I K T A S K I E Q N R V I L K V Y G F E V P V V V I T A N D E
UniRef90_A4FG47 S G N V V F I A D D P G G V A A E V I E Q N R V I A A R L G V S T L V Q T R S A E E
UniRef90_UPI000409C1B0 S G N L V F F E S E A E S D E D A L L A A A L E R A L R E A F G F A V D C L V R D A G S E
UniRef90_B1VWB3 S G N A V F F R S S G S D D D E D A L L A A A L E R A L R E A F G F A V D C L V R D A G S E
UniRef90_D3EM48 S G N V L F F E S S G S D D K E T L Q V Q M E I Q E G I Q E A F G F Q I T V I L R T S Q E D
UniRef90_G2PLG0 S G N I V F F E S S E E D R E K L Q A V I T D A I H Q R F G F D V P T L V V K K E D
UniRef90_C3JIP6 S G N V L F F S S P S T D P T L K K Q I E E S S L A R E F G Y E A W F V L L E T P T
UniRef90_E9T6R8 S G N V L F F S D Q S D V A G L K A T I E T A L R K V F G Y E A W F V L L E T P T
UniRef90_UPI000368CDFB S G N L F F E T E A S Y Q Q I H D N I S Q L F V I Q H Y P F I R S F S L F N K A D E
UniRef90_UPI00047A12C1 S G N V V L D D S D R P V A E L A S G V I E S A L E R A D F H Y E A W F V L L D L D T E
UniRef90_C1AUE3 S G N V L F D A D P A E L A S E I E S A L E R A D F H Y E A W F V L L D L D T E
UniRef90_UPI00041B69C9 S G N V L F S S S E E P Q M K A E E I S E G I K E L Y G F E V P V V L V K E L S E
UniRef90_N6V588 S G N V L F F R S E D E T E A K T V Q R R I E E A L T R H M G T S P G V I L R S R G A E
UniRef90_UPI00041D28B5 S G N V L F F R S E D R T E A E L Q R E R I E E A L T R H M G T S P G V I L R S R G A E
UniRef90_UPI0001FFDCAC S G N V V L T S S E D P D P G T I A D E I A G I L Q D D F G L D R P V V A F G R D E E
UniRef90_UPI000425F458 S G N V L F F R S E L S E A E V L Q A G L E S A L A E R M S G K A P G V L L R S R R E E
UniRef90_E3CP54 S G N F F F D S S P M M K E L L L V I E E F L A E R K S Y S F I T V F S L F T L R E E
UniRef90_A5G7B2 S G N A V F F R S T A D N I R L A D T I R S E I K R R H G F E P C V L L M E I T E
UniRef90_W1Q465 S G N A F F F R S E E P L E R I K A K I G D M L A T Y P F T I Y H V V L S R R D A
UniRef90_G9A2Q5 S G N V L F F R S P A E P E I Q R K L E T V L A E R M G K A P G V L L R S R R E E
UniRef90_G4HAM0 S G N V L F F E S P K S K T E L K E L F E N G I R E A F G Y S I S V I F R T G E E
UniRef90_U2QY78 S G N V I F D D D N D V E L T K I V I E M I K N V F F P I Q Y V I T R E E
UniRef90_R6YP71 S G N V I F S T G D A T V E L T D R I E R M L Q S Q F N L H I P V F A I L R E D
UniRef90_UPI0003824B6B S G N A V F E A A E P R A D L V A A I E A G L A D E F G F A V D V M V R S G A E D
UniRef90_UPI00036A9407 S G N C I F T A P A P E S A A I E Q K I Q S A I D K V Y D F K P R I L A V I R E D
UniRef90_V7IFV1 S G N L F F N S P A P E Q K I R E L T N H F N G T Y D F P L F A L I R A D
UniRef90_F5WU83 S G N V I F K S E E T L K S M Q E A L E G T L K D F F Q F E I P L V I T L I E H
UniRef90_F8LPS2 S G N F F F D S S L M K V E L L L V L E R F L N K T Y P F I K V F S L F T L D D
UniRef90_K2D7K7 S G N V V F F Q S I E S D T L M E S Q V I E A E I Q R V F G F S V R V F L R T A Q E E
UniRef90_J0MW71 S G N L L F F E A D A P R D E V A Q S V S V L E G H Y S F P I R L A L L S G Q E E
UniRef90_E5V1F8 S G N I I F D A D N K E I V R V K I S H M L J E T F P F S I N K V I L T G Q E D
UniRef90_UPI00047A00A4 S G N V F V T S E E S P A A V G F K I R Q E I Y R A F G C E V P V V V I L G K E D
UniRef90_UPI000464BB1D S G N V L F T S D R T D G A L K A E F E A M L R A R F G Y D A W I V L T D A D A
UniRef90_E4TTR2 S G N L I F E A G E R T D D Q L A E N I E S A I L K Q F D F Q V P V I V L T S K N E T
UniRef90_G8TI41 S G N L I F A Q K M T D S K K I E T I T K N I A K V F D F D V P V I T L T Q T E E
UniRef90_S3AX29 S G N A V L T T D D P H P G P V I L E R A L A E H F G V R V P V V L V R T A E E E
UniRef90_W6WEU7 S G N V L F F R S D E P E A Q V A D R L D D D A L G R K F G K E P G V M V R S T S E E
UniRef90_I3YTF6 S G N V I F S A K A E M K V A E K I E S D K A I L L R F G E I P V V L V K T L P
UniRef90_S0FXV5 S G N V L F K S N E G E E A L R K K I E H E I G V V F G I S S P V I L R T A A E E
UniRef90_S3HJR1 S G N V L F R S D A A E A E V R R I E D D A L G K L L G R K P G S V I L R S R K E E
UniRef90_F5LEQ4 S G N V L F R S D A S K E A L V R E R I E D D E I A A V F G Q V S V I I R T A E E E
UniRef90_D3ALI3 S G N V I F S S T Q D K I L T N K I Q F M I T D I F D M A V P V F I I L Q D E
UniRef90_UPI0003762A5C S G N A V F A D P G A G T A R D A R I E A G I E K E F G F R V D T L V R D H A Y
UniRef90_D9T199 S G N V V F G C P E T D E A I L A E I E A G I E K Q R W G R D V P V L L R S L D E
UniRef90_K4QZV6 S G Q A V F A A G Q G D A R S T A R I T E A I E Q H F G F T V D V I V R D H A Y
UniRef90_I4DBI8 S G N V L F K S N E Q E E S L R N R K I E H I E A T F G F S V T V V L R T S A E E
UniRef90_W4BG44 S G N V L F Q S A N E S K A L R A K M E Q G I L E V F G F P V V L L R T S S E E
UniRef90_C9XQZ9 S G N V V F L S D V D D N K V I S N I R L M I K K Q F E L E I P V F I I S Q E E
UniRef90_W0EIF4 S G N V I F D S E E S I D L S S Y C N D L L K K K F D F P I G I A L I D V N T
UniRef90_A3ZRZ6 S G N A A F D C K Q N R G L L A A E I T A A I E A N K G F A P L V L L L E Q H
UniRef90_UPI0003B37CF5 S G N V L F R S D E T E A T V E R R I L D E A L A K N F G K K P G V M I R S R K E E
UniRef90_V2XJZ2 S G N L F F G S D N E R E I C S K I T N V L E S N Y D F P I P F A L V T K E E E
UniRef90_J7IVB3 S G N V L F K S N E G E E F L R G K I E H Q I E A V F G F P V T V I L R T S A E E
UniRef90_U2DA52 S G N V L F K S E E S E E F L R K K I E N E I E T T F G I S L S V I I R T A A E E
UniRef90_Q12RP5 T G N I L L Q S P H D G A Q L E Q A L A K L I H T H F G F T P D I M Q L S L S A E E
UniRef90_I4B717 S G N V V F S S S P E R N A K L S Q A D I E A G I K K A F G F D V S S V I I R N A S E E
UniRef90_UPI0003FACB3A S G N V I F S S S E E D D L Q L K T E V C E A I K S E F E L D I M V T I V R G T D
UniRef90_R3W718 S G N V I F S S S E E T D D L Q L K T E V C E A I K S E F E L D I M V T I V R G T D
UniRef90_UPI0004641C04 S G N V V F R A A K A D A A L L R K E I E A A F E K R W G F S R I M V R D A A W
UniRef90_UPI00031C2220 S G N V L F F E S E Q D S K A Q L S C R I Q H E I D T K F G F S V P V L L R T S I E
UniRef90_UPI0004647A9F S G N V I F S S Q Q D K S E L R K S E S I E D K F K L S I P V V T V S A K E E
UniRef90_A0A024FHR9 S G N V I F K S C R E I P S K L A N G I Q K S I K V H F G F S V S V L V R T R D Q
UniRef90_UPI000478ACFC S G N V L F E A S D D S A R L S Q R L E E E I S K T F G F P V P V V L R T A E E E
UniRef90_UPI0002378EC6 S G N V I F T S E D D P E A L A A A D L G K R L A D G L G V D T P V M V R T G T E
UniRef90_G2FZL9 S G N V L F E S N K N E P L R A K H L E Q K L E T V F G F S I P V V L R T K M E
UniRef90_X6GJD2 S G N V V F R S K G D A A T L A K Q M E A A F E K K W G F H S R I M V R D L G W
UniRef90_A4AU20 S G N V V F D S E E K N A Q N L E G M I S E T I K E H Y D F E V P V L I K T R N E
UniRef90_V4NPS8 S G N V L F R S D R S E A D L Q G M I E D L V E K K N F G F R S K L F L I D L K H
UniRef90_W819D7 S G N V L F R S D L P A P E A A A K L D A A L G E K L G K A P G V M I Q N A R Q
UniRef90_C6ASN2 S G N V L F R S D E A E K T V E E R L D E A L G K T M G K R P G V M V R S R K E
UniRef90_S7XM08 S G N I F F T S R V L K D Q L V E K I E A F F A V Y Y P F I Q S F S L S Q E D
UniRef90_UPI00036FC22C S G N V V F Q G K A E N T Q L A N K I S A E I N T S R G F S P Q V L L L E P Q E E
UniRef90_C8W0V8 S G N V L F K S N E D E E P L R K K I E E L G F E T A F G I E V S V L R T A E E
UniRef90_UPI00047AFE95 S G N V V F F E S D E A A E L T Q K I E E A I Q E E F G F V T V V I R T A L E
UniRef90_W9DIG3 S G N L L C S P P G D P A E F D R A L G H E I E K R Y G F F R E V V S R T P A E
UniRef90_K7S8Q1 S G Q A V L A T E E D E D A G A R I R D A L T K H L G A E I D V M V R G H D Y
UniRef90_G0LAG8 S G N V V F Q S H K D D T G G L E A I T E H I K S S F G E V P V V L V K T K K E
UniRef90_UPI000365E983 S G N I V F E A S E A P A D M A A R L E A L C E K A F G F H T E F I I R D E A T E
UniRef90_C6CTE0 S G N I L F K S D E D E G V L R S R I E Q Q I E T V F G L S I K V I M R T A E E
UniRef90_R6TJ83 S G N V I F S S D E D N E S L T K R I E M M I K E N K F N L D I P V L I S K E E
UniRef90_UPI000248CBC9 S G N V I F E T T E D K I V L R D R I E S T M K E A L G Y D V P V V I R S N D E

UniRef90_L8EL29
UniRef90_D5CLQ1
UniRef90_A9KSA4
UniRef90_UPI00037955B5
UniRef90_H8KRR1
UniRef90_I4DZN5
UniRef90_I0KX18
UniRef90_V4N554
UniRef90_UPI0003615520
UniRef90_R5BRL5
UniRef90_I4A6N7
UniRef90_UPI000287F5EB
UniRef90_A4FG47
UniRef90_UPI000409C1B0
UniRef90_B1VWB3
UniRef90_D3EM48
UniRef90_G2PLG0
UniRef90_C3JIP6
UniRef90_E9T6R8
UniRef90_UPI000368CDFB
UniRef90_UPI00047A12C1
UniRef90_C1AUE3
UniRef90_UPI00041B69C9
UniRef90_N6V588
UniRef90_UPI00041D28B5
UniRef90_UPI0001FFDCAC
UniRef90_UPI000425F458
UniRef90_E3CP54
UniRef90_A5G7B2
UniRef90_W1Q465
UniRef90_G9A2Q5
UniRef90_G4HAM0
UniRef90_U2QY78
UniRef90_R6YP71
UniRef90_UPI0003824B6B
UniRef90_UPI00036A9407
UniRef90_V71FV1
UniRef90_F5WU83
UniRef90_F8LPS2
UniRef90_K2D7K7
UniRef90_J0MW71
UniRef90_E5V1F8
UniRef90_UPI00047A00A4
UniRef90_UPI000464BB1D
UniRef90_E4TTR2
UniRef90_G8TI41
UniRef90_S3AX29
UniRef90_W6WEU7
UniRef90_I3YTF6
UniRef90_S0FXV5
UniRef90_S3HJR1
UniRef90_F5LEQ4
UniRef90_D3ALI3
UniRef90_UPI0003762A5C
UniRef90_D9T199
UniRef90_K4QZV6
UniRef90_I4DBI8
UniRef90_W4BG44
UniRef90_C9XQZ9
UniRef90_W0EIF4
UniRef90_A3ZRZ6
UniRef90_UPI0003B37CF5
UniRef90_V2XJZ2
UniRef90_J7IVB3
UniRef90_U2DA52
UniRef90_Q12RP5
UniRef90_I4B717
UniRef90_UPI0003FACB3A
UniRef90_R3W718
UniRef90_UPI0004641C04
UniRef90_UPI00031C2220
UniRef90_UPI0004647A9F
UniRef90_A0A024FHR9
UniRef90_UPI000478ACFC
UniRef90_UPI0002378EC6
UniRef90_G2FZL9
UniRef90_X6GJD2
UniRef90_A4AU20
UniRef90_V4NPS8
UniRef90_W8I9D7
UniRef90_C6ASN2
UniRef90_S7XM08
UniRef90_UPI00036FC22C
UniRef90_C8W0V8
UniRef90_UPI00047AFE95
UniRef90_W9DIG3
UniRef90_K7S8Q1
UniRef90_G0LAG8
UniRef90_UPI000365E983
UniRef90_C6CTE0
UniRef90_R6TJ83
UniRef90_UPI000248CBC9

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

UniRef90_L8EL29 UniRef90_D5CLQ1 UniRef90_A9KSA4 UniRef90_UPI00037955B5 UniRef90_H8KRR1 UniRef90_I4DZN5 UniRef90_I0KX18 UniRef90_V4N554 UniRef90_UPI0003615520 UniRef90_R5BRL5 UniRef90_I4A6N7 UniRef90_UPI000287F5EB UniRef90_A4FG47 UniRef90_UPI000409C1B0 UniRef90_B1VWB3 UniRef90_D3EM48 UniRef90_G2PLG0 UniRef90_C3JIP6 UniRef90_E9T6R8 UniRef90_UPI000368CDFB UniRef90_UPI00047A12C1 UniRef90_C1AUE3 UniRef90_UPI00041B69C9 UniRef90_N6V588 UniRef90_UPI00041D28B5 UniRef90_UPI0001FFDCAC UniRef90_UPI000425F458 UniRef90_E3CP54 UniRef90_A5G7B2 UniRef90_W1Q465 UniRef90_G9A2Q5 UniRef90_G4HAM0 UniRef90_U2QY78 UniRef90_R6YP71 UniRef90_UPI0003824B6B UniRef90_UPI00036A9407 UniRef90_V71FV1 UniRef90_F5WU83 UniRef90_F8LPS2 UniRef90_K2D7K7 UniRef90_J0MW71 UniRef90_E5V1F8 UniRef90_UPI00047A00A4 UniRef90_UPI000464BB1D UniRef90_E4TTR2 UniRef90_G8TI41 UniRef90_S3AX29 UniRef90_W6WEU7 UniRef90_I3YTF6 UniRef90_S0FXV5 UniRef90_S3HJR1 UniRef90_F5LEQ4 UniRef90_D3ALI3 UniRef90_UPI0003762A5C UniRef90_D9T199 UniRef90_K4QZV6 UniRef90_I4DBI8 UniRef90_W4BG44 UniRef90_C9XQZ9 UniRef90_W0EIF4 UniRef90_A3ZRZ6 UniRef90_UPI0003B37CF5 UniRef90_V2XJZ2 UniRef90_J7IVB3 UniRef90_U2DA52 UniRef90_Q12RP5 UniRef90_I4B717 UniRef90_UPI0003FACB3A UniRef90_R3W718 UniRef90_UPI0004641C04 UniRef90_UPI00031C2220 UniRef90_UPI0004647A9F UniRef90_A0A024FHR9 UniRef90_UPI000478ACFC UniRef90_UPI0002378EC6 UniRef90_G2FZL9 UniRef90_X6GJD2 UniRef90_A4AU20 UniRef90_V4NPS8 UniRef90_W819D7 UniRef90_C6ASN2 UniRef90_S7XM08 UniRef90_UPI00036FC22C UniRef90_C8W0V8 UniRef90_UPI00047AFE95 UniRef90_W9DIG3 UniRef90_K7S8Q1 UniRef90_G0LAG8 UniRef90_UPI000365E983 UniRef90_C6CTE0 UniRef90_R6TJ83 UniRef90_UPI000248CBC9

UniRef90_L8EL29 T A T A R N W N T V T K L L A L A D
UniRef90_D5CLQ1 A A S A R N W N T V C K L A E M A
UniRef90_A9KSA4 S I T I R N S N T V I K L L Q L A K
UniRef90_UPI00037955B5 T A T T R N F N T L T K L V E L A R
UniRef90_H8KRR1 N A T T R N L N T L N K L I E L A E K
UniRef90_I4DZN5 Q L T I R N G K T F Q K I V E L V
UniRef90_I0KX18 V A T T R N W K S V R A L A E L V
UniRef90_V4N554 D M T A R N L R T V E T L I G M A R E E
UniRef90_UPI0003615520 S A T T R N Y N T L S K L I E L A E E
UniRef90_R5BRL5 K L T I R T A N T V R K V S K M
UniRef90_I4A6N7 S V T I R N A N T T R K V L E I A
UniRef90_UPI000287F5EB S A T T R N W K T V V K L V E L
UniRef90_A4FG47 S A T A R N W K T V L T L A E M A
UniRef90_UPI000409C1B0 S A T I R N W K T T M K L A T M V K
UniRef90_B1VWB3 I A T S R N W N T V A K L V E L T R
UniRef90_D3EM48 P M T M R N W K T M N K L V E L S R
UniRef90_G2PLG0 E A T T R N Q K T M E K L L E M
UniRef90_C3JIP6 F T T T R N L N T L Y K L L K
UniRef90_E9T6R8 V T T T R N L R T L V K L L K
UniRef90_UPI000368CDFB L V T I R N G K T F A K L G D Y L
UniRef90_UPI00047A12C1 V G T A R N W S T V L K L R D L L Q R
UniRef90_C1AUE3 S T T T R N L R T L V K L L K
UniRef90_UPI00041B69C9 A A T T R N H R T M A K L V E L A K
UniRef90_N6V588 A G T S R N L N T V R K L A E M A R E
UniRef90_UPI00041D28B5 P A T V R N W N T M G K L A E M A
UniRef90_UPI0001FFDCAC G G T A R N W A T V R K L R E L L
UniRef90_UPI000425F458 P G T A R N L N T V R K L A E M A
UniRef90_E3CP54 Y I T I R N A R T F S N I G H Y L K K
UniRef90_A5G7B2 L M T G R N W R T V S K I L A L A K E
UniRef90_W1Q465 Q I T I R N G K T F D K L R D L L
UniRef90_G9A2Q5 P G T A R N L N T V R K L A E L A
UniRef90_G4HAM0 P V T M R N W K T T N K L A Q L A
UniRef90_U2QY78 M L T I R N E R T F K K L A E I L
UniRef90_R6YP71 K L T I R T A N T V R K I V R L V
UniRef90_UPI0003824B6B T V T V R N W N T V T K L L A M V E
UniRef90_UPI00036A9407 A A T A R N I K T V K K L A Q L A
UniRef90_V71FV1 S L T I R N G R T F Q K I I E L A N Q
UniRef90_F5WU83 C V T L R T A N T V Y K L L E L S Q K
UniRef90_F8LPS2 S L T L R N A R T F S K I G Q F L R
UniRef90_K2D7K7 A A T T R N W K T I Q K L A E M A T Q
UniRef90_J0MW71 Q V T I R S G A T V E R L A S M L
UniRef90_E5V1F8 S L T L R N A R T F R K
UniRef90_UPI00047A00A4 T A T M R N W N T V T K L L E M Y E E
UniRef90_UPI000464BB1D S T T T R N L R T L H K L L A
UniRef90_E4TTR2 K A T T R N W K T V L K L W E L S R E
UniRef90_G8TI41 T A T T R N W K T T N E L F K M T T K
UniRef90_S3AX29 T M T G R N W R T V Q R L I E L
UniRef90_W6WEU7 P G T S R N L N T V R K L A E M A R
UniRef90_I3YTF6 V A T T R N Y R T L Q K L L K L A
UniRef90_S0FXV5 S A T V R N W K T L N K L V G L A K
UniRef90_S3HJR1 P G T A R N F N T V R K L A E M A
UniRef90_F5LEQ4 A T T R N W N T M N K L L S L T R
UniRef90_D3ALI3 R I T I R T A N T V R K I V E L
UniRef90_UPI0003762A5C V A T A R N W N T V T K L V E M T R
UniRef90_D9T199 V G T T R N W R S V L K L R D M A
UniRef90_K4QZV6 T A T S R N W N T V V K L M E M
UniRef90_I4DBI8 P A T M R N W K T L S K I A A L A K
UniRef90_W4BG44 P V T M R N W K T M N K L A Q L A M E
UniRef90_C9XQZ9 K I T I R T A N T V R K I V G M
UniRef90_W0EIF4 S L T I R N A N T T K K L L E M A Q
UniRef90_A3ZRZ6 A T T A R N W R T V S K M L E L A G K
UniRef90_UPI0003B37CF5 A G T S R N L N T V R K L A E M A
UniRef90_V2XJZ2 K I T I R N G N T F E K I A E I L E
UniRef90_J7IVB3 S A T V R N W K T L N K L T T L A K
UniRef90_U2DA52 P S T V R N L K T I N K L A D L A K
UniRef90_Q12RP5 P A T A R N L N T V N K L L D M V N
UniRef90_I4B717 T G T A R N W N T M L A L A E M L Q K
UniRef90_UPI0003FACB3A P V T V R N W K T M E K L H A M V
UniRef90_R3W718 R I T I R N A N T V N K L A E L V Q K
UniRef90_UPI0004641C04 P G T T R N W R S V L A L A E M V
UniRef90_UPI00031C2220 P S T V R N W K T L N K L A T M A K
UniRef90_UPI0004647A9F N V T I R N A N T T K K L L E L T E K
UniRef90_A0A024FHR9 A A T S R N Y K T M V K L L A L S E
UniRef90_UPI000478ACFC P A T V R N W K T V I K L S T M I E
UniRef90_UPI0002378EC6 A I T A R N W K T V T A L A D L V Q Q
UniRef90_G2FZL9 L A T T R N W K T I N K L A T L A K
UniRef90_X6GJD2 P A T A R N W R T V L M L L A M A
UniRef90_A4AU20 S A T S R N Y R T L Q K L I E L
UniRef90_V4NP58 D M T A R N L N T V E T L R D M A E
UniRef90_W819D7 P G T A R N L N T V R K L A E M A Q
UniRef90_C6ASN2 S G T S R N L N T V R K L A E M A
UniRef90_S7XM08 Q I T I R N A K T F E K I G Q M L K
UniRef90_UPI00036FC22C S A T S R N W R T V C T L M A M A
UniRef90_C8W0V8 P A T V R N W K T I N K L G M L A K
UniRef90_UPI00047AFE95 P A T V R N W K T V L L L D S M V K E
UniRef90_W9DIG3 Q G T G R N L R T V R K L L D L T E
UniRef90_K7S8Q1 W V T V R N W N T A V K L A D L T S E
UniRef90_G0LAG8 E A T A R N Y G T M V K L L E M A
UniRef90_UPI000365E983 T P T S R N W N T V L K L L S M L D
UniRef90_C6CTE0 H S T V R N W N T I N K L V S L A D
UniRef90_R6TJ83 K L T I R T A T T I K K I V E M
UniRef90_UPI000248CBC9 T A T T R N W E T V N K L A D L S R R

UniRef90_E4RUJ1 1 MK T Y I A L L R R G I V N V G G K V M K 20 MA E L R A A L E N L G W M V E T Y I Q Q Q Q
UniRef90_K6UBQ8 MT I F I A L L R R G I N V V G G N K I K M N D L K R S V L E E S Q K G G F F S T E V Q T T Y I Q Q Q Q
UniRef90_S0SB29 M V K Y I A L L R R G I N V V G G R N K I A M P Q L R K S A F E E D Q K G G Y F F K E I V M S T Y I Q Q Q Q
UniRef90_G0J6M7 MD K K I A I L L R R G I N V V G G R K I L M V D L R K S L F E E D L G G Y F F T K E V Q M S T Y I Q Q Q Q
UniRef90_UPI00039E77FC MK T Y I V L L R R G I V M P G G K N K I P M A F L K E L L G K G G Y F V L N V K T Y I Q Q Q Q
UniRef90_UPI00035E3895 MK T R Y A A L L R R G V N V G G K N K I S M A F E L R K A C L T G K G G Y L L S D V V A T Y H I Q Q Q Q
UniRef90_R2R629 MK K Y I A F L L R R G I N V V G G K N K I S A M P L R K A F E E T E A L G G L L S Q S V V A T Y I Q Q Q Q
UniRef90_F8FG98 MA V Y I A L L R R G I N V V S G K K K I K M E D L R S L L E E S M G L L S Q S V V A R T Y I Q Q Q Q
UniRef90_UPI0004712853 MK T Y I A L L R R G I N V V G G Q K K I K M V D L K A M F E T F L G C Y F T K P V Q K T Y I Q Q Q Q
UniRef90_F0T609 MT T Y I S M V L R R G I N V V G G K K R I K M A D L R D Y T F T L G F T K P V Q K T Y I Q Q Q Q
UniRef90_T0VGT2 M D R Y V A L L R R G I N V V G G N K L L S M S E L K E E L K K D E F F T D V V T Y L N Q Q Q Q
UniRef90_J1S0W5 MS R Q I A L L R R G I N V V G G H N F P K A R Q L J A L A E S L G L K Q E V R S V L L Q Q Q Q
UniRef90_J1FMS9 MK T Y I V L L R R G I V M P G G K N R V P M A Q L R Q V L A D A L G G F F T K E V R T W I Q Q Q Q
UniRef90_UPI00047E3DC8 MK K Y V A L L R R G I N I G K N K I S M A E L K K G F E N L E G F F Q E V V K T Y I Q Q Q Q
UniRef90_K1HP73 MT T Y I A L L R R A I N V V G G N K I T M D V L K K Q L F H T K R E A L G A G F F A Q V V R T Y I Q Q Q Q
UniRef90_M2XG52 MT T Y I A L L R R A I N V V G G I N V T M A D V K R E A L G A G F F A N V R T V L A Q Q Q Q
UniRef90_UPI0003670922 M P K Y I A L L R R G I N V V G G H K I K M T E L K I L L F Q K L S F F S E V V S Y I Q Q Q Q
UniRef90_W7IUD0 MS G Y A A L L R R G V N V G G H R T S L A M A D L R D A I T G L G F F A D V V R T L L Y Q Q Q Q
UniRef90_F2A6X8 M P I Y I A L L R R A V N V G G G T S L K M A D L K K A I C E G L G F F A D V V R T L L Y Q Q Q Q
UniRef90_J8EVB5 MT I Y I A L L R R A I N V V G G H K I K M A D L K K V F E S I G L G A T D V V R T Y I Q Q Q Q
UniRef90_K6X8W8 I V L L R R A I N V V G G A K L P M A E L R E I A T E L G A T D V V R T Y I Q Q Q Q
UniRef90_A8LUY8 MA T H I V L L R R A I N V V G G K N R V A M S E L K A L L T D L G H T D V V R T Y I Q Q Q Q
UniRef90_S7WUL8 ME K K V A L L R R G I N V V G G R K I V M A D L K S L L F E D L L G Y K Q E V V L T Y I Q Q Q Q
UniRef90_UPI00047D0255 MT T Y V A F L R R G I N V V G G H K I V M T Q L K K D L C E D G S K G L L S Q S V V R T Y I Q Q Q Q
UniRef90_V6IUH5 MT T Y I A L L R R G I N V V G G N K I K M A E L K R D V L T E D G S K G L L S H V R T Y I Q Q Q Q
UniRef90_I3C3P0 MQ A F V A L L R R G I N V V G G R K V L K M A E L K V V L Q E A L D G F F Q N I A R T Y I Q Q Q Q
UniRef90_J5DV77 MT K Y A A F L R R G V N V G G V N L K M A E V A A A L S E A G G A T A V V R T Y I Q Q Q Q
UniRef90_E8X403 MT T Y I A L L R R G I N V V G G V K I P M K E L A A I F T A C Y G F F A D V V R T Y I Q Q Q Q
UniRef90_C7PXQ0 MT K Y V A M L R R G I N V V A G N R V I K M D D L R R M F T D M G G A T A D V V Q T Y I Q Q Q Q
UniRef90_UPI0003A22FEE MT R Y A A L L R R G I N V V G G N K I A M A D L R R S L L A A A L G G Y F T N V P A T Y I Q Q Q Q
UniRef90_N1WBX2 MK T Y I A M L R R G I N V V G G K K I L M K D L R S S L F I S L G G F T N V K T Y I Q Q Q Q
UniRef90_D1CIT7 MR T Y I A L L R R G L G G K Y T L P M Q G L A E I M L E L G L R D V V R T Y I Q Q Q Q
UniRef90_UPI00047ADA4F MT L Y M A F L R R G I N V V G G N H I K M A E L K R T L E E D G M F H N V V Q S Y I Q Q Q Q
UniRef90_E4T153 MT T Y I S M L R R G I N V V G G H K I K M D A L R L M F T E M G M F N V V Q S Y I Q Q Q Q
UniRef90_H8XSM8 MY T H L A L L R R G I N V V G H N M I K M D V L K S L L E N M G F F Q N N V R T Y I Q Q Q Q
UniRef90_UPI000479F82A MT K H L A L L R R G I N V V G H N M I K M D A L K S M L E K V F F Q N N V R T Y I Q Q Q Q
UniRef90_V6SMQ6 MK T H L A L L R R G I N V V G H N M I K M D A L K T M L E D V L G F F Q N N V R T Y I Q Q Q Q
UniRef90_B8GEP5 MT V F I A L L R R G I N V V G G H K V R M G D L V E L C R S L G F F G A D V V R T H I Q Q Q Q
UniRef90_U1HET6 M P R Y V A L L R R A V N V G G T K L P M T E L K A M C C V D A G G F A D V V R T Y I Q Q Q Q
UniRef90_A0A059MNZ8 MA R Y V A L L R R A V N V G G I T K L P M A D L K D V F A G L G G F G N V R T V L A A A Q Q Q Q
UniRef90_L7LNA8 I V L L R R A V N V V G G A K V L P M A R L R E I A T A L L G A D D V V S T Y I A Q Q Q Q
UniRef90_T2KQE9 MT T Y I A L L R R G I N V V G G K K V L K M A D L R T L M S D E A G F F E N V R T Y I Q Q Q Q
UniRef90_L0J0R6 MT R Y A A F L R R G V N V G G V N L K M A D V A A A L E T D A G F F A N V R T V L A N A Q Q Q Q
UniRef90_W4HY14 MT R Y A A F L R R G V N V G G V N L K M A D V A A A L E T D A G F F A N V R T V L A N A Q Q Q Q
UniRef90_UPI00047E6210 MK K Y I A L L R R G I N V V G G N K I S M S E L K A N F E L E L G G F F I S E V S T V L A N A Q Q Q Q
UniRef90_UPI000368A35D MT R Y V G L L R R G I N V V G G V R I K M A D L R D S M T A L L G Y F K N V K T V L A Q Q Q Q
UniRef90_UPI00028834A5 K Y I A L L R R G I N V V G K N R I V R M N E L V D S F Q A L Q Q F K N V K T Y I Q Q Q Q
UniRef90_C5C6E3 MT R Y V A L L R R G I N V V G G I T V P R S A R L A E M A R G L M G L D D D I K T Y V L A N Q Q Q Q
UniRef90_UPI0004032843 MA R T V A L L R R G I N V V G G T K L P M A Q L R E V F G E K L G G H E D D I K T Y I Q Q Q Q
UniRef90_UPI0003770A40 M P V Y I A L L R R A I N V V G G T K L A M T E L K A L C E K L G G F T D V V K T Y I Q Q Q Q
UniRef90_R2PRM4 M E R Y I A L L R R A I N V V G G N K I S M P E L R Q G F E E S I L G G Y S D V V S H I N Q Q Q Q
UniRef90_M1MMU2 MT V Y I A L L R R G I N V V G G N K I K M A D L R Q R T F E S I L G G V S D V V K T Y I Q Q Q Q
UniRef90_R4K095 MT I Y I A L L R R G I N V V G G N I I K M A N L R Q A L E S I L G L C G V K T Y I Q Q Q Q
UniRef90_H3SA50 MA I Y I A L L R R G I N V S G H K I K M A E L R T I F A K M G L L Q G A V R T Y I Q Q Q Q
UniRef90_J2L1T8 MT R R V A L L R R G V N V N G I A R S A D L K A L F E E L G G F A V R T V L A Q Q Q Q
UniRef90_UPI0002D6FC2E T Y V V L F R G V G G A T Q L P T K P L R E A L A K A G Y A N V A T Y I A N Q Q Q Q
UniRef90_W7SCE3 M L N Y I A L L R R G I N V G G N K I K M A D L R E A L T P L G L G N I A R T Y I Q Q Q Q
UniRef90_H0HVU1 M S T Y I I L F R G V G G A T Q L P T K P L R E A L T E A G F F Q N I A T Y I Q Q Q Q
UniRef90_S9USW2 MQ M Y V G L L R R G V N V G G N K I K M A D L K L L L E N M G L T H V R T L L Q Q Q Q
UniRef90_M3V5U8 R R I V L V R A V N V V G G V K L P M A D L R E M A T E L G A S D V V A T Y I A A Q Q Q Q
UniRef90_E2S8I6 MS P R I I L L R R A V N V V G G S T L P M A D L R A L A S E L G A T D V A R T Y I A A Q Q Q Q
UniRef90_W7BH11 MK R Y V A L L R R G I N V V G G N K I A M T E L K A G F S E I G L L E I V T T Y I A N Q Q Q Q
UniRef90_Q3Z6Q2 K Y I A L L R R G I N V V G G N K I S M P E L K A A F E N A G F F E V S T Y I A N Q Q Q Q
UniRef90_UPI00035D8959 MT V Y I G F L R R G I N V V G G N K I K M L V T M G F V G A E T Y L R N Q Q Q Q
UniRef90_E3J6X6 MT T Y A A L L R R G I N V A G H A V A M A D L H A V F A G L G F A G I S T Y L R N Q Q Q Q
UniRef90_G5JRT3 R Y A A L L F R G I N V V G G N K I A M A D L V K R V E E L G G Y R V E T Y I Q Q Q Q
UniRef90_A0A010ZN13 T A Y V A L L R R G I N V V S R N R I A M A D L R A L L T D L L D D Q V T Y I Q Q Q Q
UniRef90_W0AIY5 MT R W V A L L R R G I N V V G G H R V P M A A L R A L C G E L G G F F E D P R T Y I A Q Q Q Q
UniRef90_UPI00047B8703 MQ T Y I A F L R R G I N V V G G N K M S M L A L R Q A L E A S F F G Y K N V R T Y I Q Q Q Q
UniRef90_E3H033 Y I L L L R R S V N L G K N K V S M P E L K K R L E A A L G G Y E N V T S Y I Q Q Q Q
UniRef90_X0P263 M P R Q I A L L R R G I N V V G G N A F P K A R Q L E L A R S L L G G F E E V S V L L Q Q Q Q
UniRef90_UPI0003B473EE M T E W I A L L R R G V N V G G A K L T P R S A E L R T V F E G L G F F D H V R T V L A Q Q Q Q
UniRef90_M0QHW0 M S T R I V L I R A V N V V G G A K L P M A D L R S I A T E L G A T D D V S T Y I A A Q Q Q Q
UniRef90_Q1IUC9 M P V Y I C L L R R G I N V V G Y N K I K M E L R A L C T K L K G F E G A Q T F I Q Q Q Q
UniRef90_UPI000365AD48 MT G Y V A L L R R G I N V V G P T R L P M Q D L R R L L E E I G I G A T S V S T Y I Q Q Q Q
UniRef90_UPI000248E7F7 MK K S I A L L R R G I N V V G G R K V L M Q D L K L L F E N I G G Y A N V K T Y I Q Q Q Q
UniRef90_U2N6Q6 Y I A L L R R G I N V V G G N L I K M T Q L K A I F E D L G F Q E N V K T Y I Q Q Q Q
UniRef90_A0A011U5J8 MA S Y V A L L R R A V N V G G T K L P M A E L K A M C C V A E G F F E K V K T Y I A Q Q Q Q
UniRef90_B1KJL4 M N R Y T I L L R R G V N V G G N L L P M K E L K A L L E N N G F N N V T T Y I A Q Q Q Q
UniRef90_I0X8W8 M T R H I A L L R R G I N I G K N K I S M P E L K A A L I E K G F S E V S T Y I A N Q Q Q Q
UniRef90_K6WQ41 M P R R Y V L I R A I N V V G G A K L P M A D L R E M A A E L G A T D I S T Y I A A Q Q Q Q
UniRef90_UPI00036EDA5F M T R Y S V F L R R G V N V G G V N L K M A E V A A A F R E A G F D D V K T L L A Q Q Q Q
UniRef90_W7YIN5 MT I Y I A L L R R G I N V V G G N M I K M V E L K R I L G E M G L N R V Q T Y I Q Q Q Q
UniRef90_G0A8J3 MT V Y V A L L R R A V N V V G T G L P M K E L A A L C S G L G F F S Q S V R T Y I Q Q Q Q
UniRef90_R2RFF2 MR K Y I A F L R R G I N I G R N K I A M P L K E A F E K K G F S E V S T Y I Q Q Q Q
UniRef90_G2Z3N2 R H L A L L R R G I N V V G H N L I K M E Q L K N I L E T A G F F Q N V E T Y I Q Q Q Q
UniRef90_Q38Z16 Y I A L L R R G I N V V G G R K V L Q M N L R I A F E A T A G F F T N V R T Y I Q Q Q Q
UniRef90_Q26EY9 MA R Y V A L L R R G V N V G G N K L P M A L L R E A I E A T P L Y D V T T Y I Q Q Q Q
UniRef90_R3V660 MK R Y V A L L R R G I N V V G G N K L V M T E L K K E M T I L L G F T E V V T Y I Q Q Q Q
UniRef90_A0A017HB98 MT A Y V L L F R G V G G A T Q L P T G P L R A A L S E A G F F A R D V A T Y I Q Q Q Q
UniRef90_K0K2S6 M T R F V A L L R R A V N I G G S S M A M V E L R Q V L A S E A G F A R D V Q T Y I Q Q Q Q
UniRef90_UPI000478C01A MT T Y I A L L R R G I N V G H N M M K M D A L Q K M L E N M G F T N V K T Y I Q Q Q Q

UniRef90_E4RUJ1 S G N V I F Q S M E G M G L E E K M I D Q E I Q N T F G Y S V D L Q I F L L E D
UniRef90_K6UBQ8 S G N V L F K S S S E D K E G M L T I E K I D E Q E I E K E A F G F D L N I V A V L R T S K E D
UniRef90_S0SB29 S G N V L F K S S S A D E Q A K E D E K R L T I E K I D E Q E I E K E A F G F D L N I V A V L R T S K E D
UniRef90_G0J6M7 S G N V I F K S S S A E K A E K E D E K R L T I E K I D E Q E I E K E A F G F D L N I V A V L R T S K E D
UniRef90_UPI00039E77FC S G N V L V L Q J T E L S P A E R E V I S R K A V H E E V I K E E N I G G A R R V P V V I V R K T A D E E
UniRef90_UPI00035E3895 S G N V L F T S A A E E D P R E K L A A A Q E E G Q L E D D A L G D R R V A V V T V R T A E E E
UniRef90_R2R629 S G N V L F S A A A E E D R E K L I R Q Q C E A V I T D D Q L D L T I T D A V V T V M A V E E E
UniRef90_F8FG98 S G N V L C S A A A E G A Q E A L S E R I I S A A I K L K Y G F E V G V I V K T P D E E
UniRef90_UPI0004712853 S G N I V F F E A E E N N D L L G Q R I K E A I L F E H F G F E V E I V L V L T P K K E
UniRef90_F0T609 S G N V I F F S S N E D P Q Q T L A N K M R A T R I K L G F E L D I P I H V I L Q A E E
UniRef90_T0VGT2 S G N V I F F S S N E D P Q Q T L A N K M R A T R I K L G F E L D I P I H V I L Q A E E
UniRef90_J1S0W5 T G N I V F A D D P G T S A E E T L A R M L H D R I K A E E L G L T L P A I V V R T S R D E
UniRef90_J1FMS9 S G N V V L Q S A K E L E V K V H Q L I K A E Y L G P E L A I V V R T S R S E E
UniRef90_UPI00047E3DC8 S G N V V F S S D E E D L K N I T Q I E K M I K T Q F T L N I S V F V I S K D V
UniRef90_K1HP73 S G N V L F Q S S E D E N T I T N S I E E Q A L T D Q L G L V S V I L T L P A L T S T
UniRef90_M2XG52 S G N V L F D S D E R D A A A L K S D I E A V L R E R F G Y D A W I V L V D A P T
UniRef90_UPI0003670922 S G N V L F M C N E T N I K L E H Q I E E Q S I E K A F G F Q V P V M V L T N S K
UniRef90_W7IUD0 S G N A T F S S A D D S A A A L E E G L E A T L L E R L D L T T R V V L V R T S G D D E
UniRef90_F2A6X8 S G N V L F R S S E E E S F L K E R I L E E C E I K N V F D F D V P V M L R T K D E E
UniRef90_J8EVB5 S G N V L F S S P P G D P A E F D R A L E R E I E K R Y G F F R E I I S R S R P G A E
UniRef90_K6X8W8 S G N V L C S T P D A D S A A V A R R I E R K G I S D S F G L S I P T I V R S R A Q E
UniRef90_A8LUI8 S G N V I F T S E N T E T E M A D L I E Q S I K S E F G F D V P V I V R T A Q E
UniRef90_S7WUL8 S G N V I F T S E N T E T E M A D L I E Q S I K S E F G F D V P V I V R T A Q E
UniRef90_UPI00047D0255 S G N I V F F S S T D L Y T E L E E L S K A I L N E Q A I K N Q F G F A V S V I L R T K D E
UniRef90_V6IUH5 S G N I L F E S T E T N S K L K H T A E E A I K V H F G F A V S C F I I P K E T T
UniRef90_I3C3P0 S G N V L F E S T E A G V A S V R K K A T E E A I R D R F G Y D A W V L A Y D S V D T
UniRef90_J5DV77 S G N V L L E A S H E A A E A C V J A K V T E E A I A K Q Y G Y P G R I V L R S T E E
UniRef90_E8X403 S G N V I F S S S E Q A G A K L E T A I T E E A I A A E L D L Q I A V L R T H P D
UniRef90_C7PXQ0 S G N V I F S S S E Q A G A K L E T A I T E E A I A A E L D L Q I A V L R T H P D
UniRef90_UPI0003A22FEE S G N V L F F Q S E E N K N K E L I S S I E E K K I V E V L G F E A A V F I R T K E E
UniRef90_N1WBX2 S G N V L F F R S D R S T G E L I A E E I S S A I N E R Y G F A P R V I I L T P E E
UniRef90_D1CIT7 S G N I L F F S S D E A S E L L E S N R F E R K L L E A A F G F P M P T M I R S A D E
UniRef90_UPI00047ADA4F S G N I L F F R A N K A T D S R L S G K I S K Q L S T F G F D V P Q V V I T V K E
UniRef90_E4T153 S G N V F I D S E E E H A S V G F A I K Q E I F K Q L G L D V P I V V V S K Q D D
UniRef90_H8XSM8 S G N V F L E T E D E S N A Q S V G T I K Q E I V K Q L G F D V P T I V I I N K S D
UniRef90_UPI000479F82A S G N V F L E T E D E S N A Q S V G T I K Q E I V K Q L G F D V P T I V I I N K S D
UniRef90_V6SMQ6 S G N V I F E S S D E N P A H L S L L I E E E I F E K L G F P V Q V V L R S S G E
UniRef90_B8GEP5 S G N V V F S D A R L G A A K V K A A I L E E Q R L H A Y A G K E P V G V A V R S A Q A
UniRef90_U1HET6 S G N V V F F D A D T A E A K A R I L E E A A L R D R F G Y E A F V F V H H R S A Q A
UniRef90_A0A059MNZ8 S G N L L C T P P G D P D D F D R A L E E A I S D E F G Y F R E V I G R T P D E
UniRef90_L7LNA8 S G N V L F Q S S E E H V L E N K I S E S I L N V F G F E V P V I V L K S Q L E Q
UniRef90_T2KQE9 S G N V L F Q S S R S G V D A V R K K A S E K A L R N D A F G Y D A W V L A Y D V E T
UniRef90_L0J0R6 S G N V L L E A S S G A A R V R K T A E E S A L R E R F G Y D A W V L A Y D I D T E
UniRef90_W4HY14 S G N V L F L S D D D A T T N T I E S M I K N R F K L D I P V L I F L T Q K E
UniRef90_UPI00047E6210 S G N I V F E S R K K A A T V T T E L E S A L G E R F G Y G A R V L I V T T E Q
UniRef90_UPI000368A35D S G N V V F D Y D V D T K E L A C S I K K K I N E D F G F T V K V L I R T K D E
UniRef90_UPI00028834A5 S G N L V F F S S D E P V E R L K T R I E S E L S A D T F G Y D A W I V L T T S A H
UniRef90_C5C6E3 S G N V V F S S D E G R K A S S R K I E D A C E A A F G W R I P I V L R T R T R E E
UniRef90_UPI0004032843 S G N V L F R A D A N E A D V A R A I D D A L G E R L G R K P G V M V R S R K E E
UniRef90_UPI0003770A40 S G N V L F K S T T E S P P E L T Q Q I E T M I E T R N R F F L K I P V L L L P Q S N E
UniRef90_R2PRM4 S G N V L F K S T T E S E E E L C N K I E Q E I E T V F G L S L E V I L R T S N E D
UniRef90_M1MMU2 S G N V L F K S N E E E E V L R K K I E N Q I E D V F G F S V K V V L R R A S Q D
UniRef90_R4K095 S G N V L F V T E E E A P L R R K R I E Q Q I L A A L D M P V T V I L R T A S E
UniRef90_H3SA50 S G N V L F V T E E E A P L R R K R I E Q Q I L A A L D M P V T V I L R T A S E
UniRef90_J2L1T8 S G N V L F D T D E E D A T A L R K R I E Q Q L R K R F G Y E A W I V L T Q K Q
UniRef90_UPI0002D6FC2E S G N A V L T S D R P E A E T A A D I A G I V K R E F G F E K D I M L A T L N A
UniRef90_W7SCE3 S G N L L F E S T E S E E K L Q K I H E T I Q I N F D I T S T V I I R T A E E
UniRef90_H0HVU1 S G N A V L K S S S R E K T I A S V A D I C K R E F G F S K D I H A V I T L D E
UniRef90_S9USW2 S G N V V F A S S E A R E W L E A R I Q E E I G N A F G F K P N V M L R T A Q E E
UniRef90_M3V5U8 S G N V L C S T P P G D P D H F D R A L E T A I T A R Y G Y F R E V I S R S A E E
UniRef90_E2S816 S G N L I C S T P P G D P D E F D R A L E A A V E Q R Y G F F R E A I S R S R D E E
UniRef90_W7BH11 S G N V I F S S E T D D A Q L S N T I T L M I S D K F S L N I P V H V V L Q D E
UniRef90_UPI00035D8959 S G N V L F H S C E E K E T D L Q Q Q C R Q V L D T F S L E I P I A V L S V N A
UniRef90_E3J6X6 S G N V L F G T E A P P A A L A A D I E A R L N R E I G V R T T V L L R T R D E
UniRef90_G5JRT3 S G N L F F N S E K P E A D I E G F K A F F A A S Y P F V R T F A L T A S K D D
UniRef90_A0A010ZN13 S G N A L F R S D R D P D D T I A D E I E A A I T R E L G L T V R V L V R D E D D
UniRef90_W0AIY5 S G N A M F G S T E D S A E T I A I A L E A A L P G R F G F C D V I V R S A A Q
UniRef90_UPI00047B8703 S G N V L F F E A G L S S T N I T L I E K T I A Q D T F G C S V P V L V M T A A K
UniRef90_E3H033 S G N L L F V S S R D K T T V A Q E I T D L A K H Y D F E I P F S L T A D E
UniRef90_X0P263 T G N L V F A D P G T P A E T A R R I E E R I T A E L G L S V P V V V R T R D E
UniRef90_UPI0003B473EE S G N V L F E T A D A A A S A K T Q I E R A L G E R F G Y E A W I V L V T R E Q D
UniRef90_M0QHWO S G N L L C T P P E A P D S F D R E L E K A I G E S R F G Y F R E V I S R S R D E
UniRef90_Q1IUC9 S G N V I F R C P E T E A A L A K K I G D A I E K K F G F R P E I M L R T A D E
UniRef90_UPI000365AD48 S G N A L F F E H E R D P A E L A D A L E A A V A A A F G R R V P C V V R E A A G A
UniRef90_UPI000248E7F7 S G N V I F N A T K S E P K V A N K I E A A I S K T Y G F D V P V V V I S A K A
UniRef90_U2N6Q6 S G N V L F S S D K S E S L T N K I E E K I H T D V G F K V S V I L R S E E E
UniRef90_A0A011U5J8 S G N V L F S D D R S E P E V K A L E N R L K D Y A G K P V G E V I V R T A K E
UniRef90_B1KJL4 S G N L L T S G H H E P E K K I C E L I Q T H F G F T P E T L V L T K D E
UniRef90_I0X8W8 S G N I I F S D D E A D T V S E K I K T L I Q E K F T L D I P V F V I A Q S E E
UniRef90_K6WQ41 S G N L L C T T P G A T D T F D R G L E E A I T A R F G F E R E V I S R S P E E E
UniRef90_UPI00036EDA5F S G N V V L S A K A A T V R T K A E A L R E S F G Y D A W I V L V P I E E
UniRef90_W7YIN5 S G N V L F E S S A N E D E E Q L R I R I E R E I E V N F G F P V P V I L R T A D E
UniRef90_G0A8J3 S G N V I F D S A L G K D A V G Q E L A Q A L A K K M G K P V D V L L R T A A E
UniRef90_R2RFF2 S G N V I F S S D N E K I E L K L C A A L I D G F D L T I P V L T I V A V D E
UniRef90_G2Z3N2 S G N V F L S S P E T H P G I G F A I N Q L I F K Q L G L D V P V V M L S K T D
UniRef90_Q38Z16 S G N V L F E T P E T E A E L V A V C Q D L M V T T F G F S V R I A I V T A D S A
UniRef90_Q26EY9 S G N I V F N A D L E J A T E S Q M I A D L L K A E F D L N V P V I V R E Q A A
UniRef90_R3W660 S G N L I F S S D E D K K T I S T M I S N G I K H S F Q L D I P V Y I A L Q E D
UniRef90_A0A017HB98 S G N A L T D R P P E E V S A R V A A G C E A R F G F R K D I H V R T R E D E
UniRef90_K0K2S6 S G N V V L D A D D E A E V V A R I R A G I S D K W G K D V I V L V R S H D E
UniRef90_UPI000478C01A T G N V F V T T E E N P A A V G F K I K Q E I F K T F G H D V P I V V I N K D D

UniRef90_E4RUJ1 YVR I I HQR P 90 E HGD DK F W HVT F L K GE L KRE E GWE E V C S V
UniRef90_K6UBQ8 I EQ I I I KN C P F S E K E S K A E T S L Y I G L L S D A M P L E E N T K K L D V Y
UniRef90_S0SB29 L A E L L T H A N P F E S W D Q T E E D I A P H Y I F M I L A P Q E M T L E E N T K K L D V Y
UniRef90_G0J6M7 L Q K T L I S N N P F E S K G D E D I A P H Y I F M I L A P Q E M T L E E N T K K L D V Y
UniRef90_UPI00039E77FC I A Q V L S E N N P F T E N H D S K R V F F T L F N D E L P Q A L A N E L K K Q
UniRef90_UPI00035E3895 L R T V V E G N P F L A V S D E P A R F L V V F L S E P M T V S G W L G S A V G D E P A
UniRef90_R2R629 L A D T I R H A P F D W N N Q E K E T V H Y I F M I A P M T V S V S A V G S A V G E I
UniRef90_F8FG98 L E A A L R G N P F A A G E E T G E K R Y Y S F L A K A P E P S A V I E T L Q A Y
UniRef90_UPI0004712853 L J E I E E N N P F S K R G N F E D K K L Y F T L L T N A I P D P V A V S A L E A A E
UniRef90_F0T609 L K T V V Q S C P F F G N K E V E Y L H V T F L S A I P P G G D R V S R I D M E
UniRef90_T0VGT2 L K E L L A N A P F E W W G D E N K E I Y V I F M M K P L S P F E V L L T E I G E P
UniRef90_J1S0W5 L A A A V A A N P F P Q A V P E P K S L H V T F L S A V P P A D S R L D A L D L A Q
UniRef90_J1FMS9 L R K M L D N N P F K G D E Y L M T R V F F V S F Q E S P P E E K K V Q A L L A Q
UniRef90_UPI00047E3DC8 I J D I L H N A P E W W D D D N K E I Y L I F I M P P V K F S D V Y N E I G E P
UniRef90_K1HP73 L Q T I L D H C P F T Q A V P E P K S L H V T F L S A V P P A D S R L D A L D L A Q
UniRef90_M2XG52 L E R I V D G F P F D A E R E G W H P Y V L L A S D P P A A L T E M M S A A A D K L
UniRef90_UPI0003670922 L Q K I V S E N P F F D E D D I N K I Y Y V F L K D L P Q K A A V I E L F N K T R
UniRef90_W7IUD0 L R S V M A A A H P F A A K A D N G S K M V A L F L S A N P P A P E V A A E H D P R
UniRef90_F2A6X8 L E A I A A N A P F P D A K P N F L L V Y F L P E K P P A D A L E E K M T
UniRef90_J8EVB5 F I N L I K T C P Y E A D L L E G E S I H V A F L A N A L S E E D S N Q L L T I
UniRef90_K6X8W8 V Q A A L D A H N P F E V A D D R Y S Y V V Y T D P E D A D K A A A F E E K T
UniRef90_A8LUY8 V E A V I E R N P M P E A E R E P S Y H V G F C D P A P S Q E R L D A I D E G T
UniRef90_S7WUL8 L N N T F K N N P Y Y G Q A D T D I K L H I T F L N K E P E K E N L E K I Q A L
UniRef90_UPI00047D0255 L Q G L L N N N P F I T D D D E L L R K Q I Y F V L K N K P N K D E L N S F E E L
UniRef90_V6IUH5 W G K M I Q N C P F T D E D I K K E S L Y V T M L E Q V P D L A K V Q Q L E A T F
UniRef90_I3C3P0 F L T I T I E N N P F I E T E E I T K L Y I T F L N E T P N P E K L E T L K T F
UniRef90_J5DV77 V R A V V D A Y P F F E R E V D G Y H S Y V T F V A D K A V L D E L D E R L V D
UniRef90_E8X403 L R E T F T H N P F L K A G A V E S T L H V Y F L N D L P A A G A V A L D P L
UniRef90_C7PXQ0 L A K I L T A N P Y L D R E T D L E T K L P V T F L A D K P D A D K V A A L E V P
UniRef90_UPI0003A22FEE L H R V I D A N P M P D A A E N G S R Y L V T F L S A P E P P E R F A D I D R S A
UniRef90_N1WBX2 L K S V L G S N P F P K K D E P S R I Y V V F L L N E S P K K N P D L T E I D S A
UniRef90_D1CIT7 L R E A V A S N P Y P E A E S A P T T L H L S F L S S V P E H P D L V K L E R L
UniRef90_UPI00047ADA4F L K N I M Q R C P Y F A E V T E G Q S L H L S L L K R K P S E E E I A A I P D L
UniRef90_E4T153 L E E I L T N R N E F A P E K N P E N S Y Y I F L Q A K P D Q S L L K N I P A D
UniRef90_H8XSM8 I E Q C F S A N P Y L K E K E D E K K L Y V A F L S K E F Q P S A I N E L K I S
UniRef90_UPI000479F82A L E A C C L T N N P F F K E N D V D I K K Y V A F I S K E L A N N A L N D L K I S Q
UniRef90_V6SMQ6 L E A C F K N N P Y L K E N D T K K L Y V A F I S K E L A N N A L N D L K I S Q
UniRef90_B8GEP5 L J R T V V D N P L V R E G M S V D R L H V T F L S D L P P E A V R E S M S G E Q
UniRef90_U1HET6 I A A V L K A N P F P K A P P N F T V A I F V A D E P P P K D A L K D V R G G Q
UniRef90_UPI000368A35D V A A L V D A Y P F F E R D G R H A Y A V F V A D E P P P K D A L K D V R G G Q
UniRef90_L7LNA8 L S R A L A D Y P F G D P P H G H I Y F L T G V P D P D A A V E F A R D
UniRef90_T2KQE9 F Q E I F D S N P F F S E V E Q K S N S Y F T L L A E L P K S D A V E S V S K E D
UniRef90_L0J0R6 L R T V S E N F P F E R E V E G Q H S Y V T F V T D K D V L D E L A A L G N D
UniRef90_W4HY14 V R A I N E R Y P F E R E L D G Y Q S Y V T F V S D P A V L D E L A A L G N D
UniRef90_UPI00047E6210 I K N I L D N A P D W W G N K N K E I Y L I F M F P S L S Y N E L L N E I G N P
UniRef90_UPI000368A35D L Q S V V D A Y P F A A R D G W H S Y V F C S E D A L V G Q L L D K G D D L
UniRef90_UPI00028834A5 M E N I I N S N P F I K E N V E I D K L H I T F L E S I P D K N A L R G I Y L K
UniRef90_C5C6E3 V A Q V V A A Y P F E P D R E G H H A Y V V F G S H P G V L A E L T A E A T S T
UniRef90_UPI0004032843 L G A V L E A N P L G E Q A T N L S R Y L V S F S G S T S D L D A S K L E D D I T
UniRef90_UPI0003770A40 L D A L V A K A P F P D A K P S F L L V S F L S E N A P K D A L D R M V
UniRef90_R2PRM4 L V J A A L K E A P F D W W G S D K E I Y L I F L Y P G L S G E V F S Q E M G V P
UniRef90_M1MMU2 L E Q L L S D C P F S N E E S E V E S L Y V A L L K H N P L K E K I E Y I G S Y
UniRef90_R4K095 L E M I I E N C P F S K E A I S E E S L Y V S L L T H A P S E E K I E C L N D Y
UniRef90_H3SA50 L E R L I A D C P Y P E D T P G K V S L Y A A F M T E A P A E E Q L R R L P G G
UniRef90_J2L1T8 V A D V A K A Y P F E R I D D E R P Y I V F G S D T A M L D E I V E K A G T V
UniRef90_UPI0002D6FC2E W S K L V A E N P F P E A V D A P T T L H A F M L S D V P A Q E A V E A L A A R
UniRef90_W7SCE3 L Q H I V N N C P F S Q Q D M A D E C L H V A L L P A A P T E E N S N K Y L S Y
UniRef90_H0HVU1 W S A L I D A N P F P E A V A V P K F L H A A V L A A Q P E E G K V A L Q A Y
UniRef90_S9USW2 M K A L V A E C P Y D A A K E G E G I Q I T M C K D E P S P D T A S I L S K G M
UniRef90_M3V5U8 V A A A L D A H P F E V V D D R F S S L H F L V A E P D P A L V A K A F E R Q
UniRef90_E2S816 V A A A L T A H P F E V L E P K F S Y V T F L L T E P S P A G I E K A R T F A
UniRef90_W7BH11 L H E L L N H A P V W W G S D D K A V Y L I F L M P P L S Y E E F Y E E I G A P
UniRef90_Q3Z6Q2 L A D A L N H A P E W W D R D A D S K H N I V V I A P A K A D A V L K T V G E A
UniRef90_UPI00035D8959 M E K I L A D C P Y A A E S T E G Q T I Q V S V L T E K P D Q Q L A E I L S R G
UniRef90_E3J6X6 L A A L A A A N P F L D R Q D D P T K L H V T F L A E E P G R A R A A S L A A L
UniRef90_G5JRT3 F A A E E L P D W W T D D L V R K D V L F Y T V I E L D S K M V R K T I E K L
UniRef90_UPI00036EDA5F F R R V L N A N P L A E V A T D P P S R L L V T F L S A P T A E A R L D A V D P A
UniRef90_W0AIY5 W R A C L Q A N P F A E G D A D A P K M L H L A L P R R I L K P G A G K A I A E R
UniRef90_UPI00047B8703 L E S V L S Q S P Y N H E T Q S N S K S Y F V L L F E T D P R Q E L K I E K A L
UniRef90_E3H033 Y R K D A H N L P E W W N E D M P R L D A M F F T I E D A R D A L A E L E T L
UniRef90_X0P263 W A A T V A G N P F P A V P E P K T L H V T F L S Q V P T D T A R L D A V D Q D
UniRef90_UPI0003B473EE L R R V V E A F P F D A S D A S R Q P Y V V F A S E P A V L D E L E A S A G Q T
UniRef90_M0QHW0 Y A D A L D A H P F E V T E P K F S Y V A L T G A P D E T K A A E F E A R
UniRef90_Q1IUC9 L R A V V A A N P F K K R K D P P D R M L V H F L L S E P L I E E V R T K L N G T
UniRef90_UPI000365AD48 L A G V V E R N P F D M T G V D P A R F L V T F L S G P V E A D R L A G L D P A
UniRef90_UPI000248E7F7 L K N A V Q E N P F L T D D T E Q L H L T F L K E T P D L E L L K M S E A V
UniRef90_U2N6Q6 L N N L I K N C P F S E G N A S S E V L Y V A F L K Q E P L A E N I D K F S V Y
UniRef90_A0A011U5J8 M A D V L N A N P F P D A P N W T V A I F L D A P P A D T L D A V L K D R
UniRef90_B1KJL4 F K L A I S N C P F Q K G E N K F I H F Y F C K D S P K A D T T K I L J A L
UniRef90_I0X8W8 L K T L L T K A P G W W G T D N K D I Y L I F V I P P H R I E T V A E K I G E P
UniRef90_K6WQ41 L A A A L D A H P F P V L E P R F S Y V Y C L T G R P D P D K V A A F E E R
UniRef90_UPI00036EDA5F L R T I S A D Y P F E R E V D G H H S Y I T F V S D P A V L D E L A A L E
UniRef90_W7YIN5 L R S I A A S C P F A E A S E T E S L Y V S I M L I E E P T L D K I E R L A V Y
UniRef90_G0A8J3 L G A L L K A N P F P D A E P S K V A V V F C N G S L P K D W L E L L R
UniRef90_R2RFF2 L A E T L T H A P E W W G H E K E T I H Y I F M I P M T T A E V F A A V G E I
UniRef90_G2Z3N2 L E K A I S Q N P F L K D P D T K K C Y V A F L S K N L G V N A I N D L K I S Q
UniRef90_Q38Z16 L I A A V E Q A P F W W G A A G T S H L T V A I A P K T A A E L S E Q L G P V
UniRef90_Q26EY9 I K D I L K V N P F E T R T I E S S K F M S F F D K I P V T E K I Q E V M S F
UniRef90_R3V660 L R E L L E H T P D W W D N G N K D I Y L I F I L P P L F S K K L Y E E L G E P
UniRef90_A0A017HB98 W V J D L V A R N P F P E A T A A P T T K L H A A V L A G D P A P E R V A R L Q A L
UniRef90_K0K2S6 M K A I V A A N P Y L D V E D D L T K L H V T F L D A V P A A D K A A L Q V P
UniRef90_UPI000478C01A L T T C Q Q N N P F L K E K D T K K L Y V A F V S M K L H K D R I H D L K M S A

UniRef90_E4RUJ1 K G P N E E V Y L K E G A I F L L Y C P D G Y G L T Q L H T N F L E K K L G V I
UniRef90_K6UBQ8 K N Q N N K Y K I L I G Q E V F L L F H N S I R N S K L A N N L H K V L D V
UniRef90_S0SB29 K P E Y E K I A H H E G D V F W S A Y P I R K T F N K K A R W S K L A S T A V L N H
UniRef90_G0J6M7 D F S P D K F K I E G K D V F I E G K Y H C E G K Y H K A R K L T N N F F E S K L V
UniRef90_UPI00039E77FC D F G E E K F D F S E K A L Y M Y L P K D A S R S K L S N N F L K K K L K I
UniRef90_UPI00035E3895 A F A P E R M R A T A G R E V L D L P D G L H R A K L P K L V S R R A P G
UniRef90_R2R629 N P D Y E K I A H H G E V I F W S A P R Q T F N K K A R W S K L A S V S V N K
UniRef90_F8FG98 A S E A D D Y R I G G D V A Y L L C R D S Y G K S Q F S N N F L E A K L K V
UniRef90_UPI0004712853 D Y G T E E F V I T N E S V V Y F Y A A N G Y G K T K L D N N F F E R K L K S
UniRef90_F0T609 N I N G E E F K L L S K E I Y L Y L P A N G Y G R T K L N N N F F E K K L G L
UniRef90_T0VGT2 K A D F E R V Y P Y K D I V F W S F I R K E H Q K T N W W A K T A K P K V K D
UniRef90_J1S0W5 A F A P D Q Y R L I G R E L Y L W C P G G I G R S K L A E T V S R A R L K V
UniRef90_J1FMS9 D F A P E K L L S N S T A G Y M Y I P Q A Y S D S K L S N N F L E R A K L V
UniRef90_UPI00047E3DC8 K K E L I E K I E N Y K E V I F W S F N R K D Y Q K T N W W S K T A N A N I S N
UniRef90_K1HP73 A P E E H L V L T D T A A Y F V A T N G Y G K T K L T N A L L E Q K L H V
UniRef90_M2XG52 D L G D E R L R L G D G D L Y W H V E R G Q T L N S P I F G K L T G A K Y K S
UniRef90_UPI0003670922 K Y K N E R F F I Q R D Y I Y L K C L A G M G K A K L T T N I F E K R L G V
UniRef90_W7IUD0 V L D P E N I A V G D R V Y Y Q W C P D G I S N A P V L G P W L E R P A L K
UniRef90_F2A6X8 A P D G E Q A K L A T R E I Y L Y H Y P N G S G R S K L L M N Q F Q K L H T
UniRef90_J8EVB5 K S E I E G C H I E G R V Y L F F K K S I R N S K L M N Q F Q K L H T
UniRef90_K6X8W8 D F G D D V R R V I G S D L H I R Y A D G A G R S K L T A P A I A R G L G V
UniRef90_A8LUY8 T L G A D R I M V R A G T C Y I L W F A D G P R N S P L L G R V L S A D K L G V
UniRef90_S7WUL8 D F G N P D K F A V E G K D T F I Y C D G K Y H Q S K L T N N F F E G K L Q T
UniRef90_UPI00047D0255 S F D N E E F V I A D T C I Y L K H C K A G Y G K A K L N N N L E R K L K V
UniRef90_V6IUH5 D I G E D Q Y K I V G R D V Y L L F H H S I R N S K L A Y Q V E K L L S S
UniRef90_I3C3P0 E S S D E L F I L K N N T L Y F C Y E N G Y G K A K I A N P F I E K K L N L
UniRef90_J5DV77 T G P D E K V R R G D G V I Y W Q V A K G G T L D S K I G K T M G K P R Y K S
UniRef90_E8X403 R S E P D A F A V H K R A V Y L H L P N G M A R T S K L T N A Y F D S R K K T
UniRef90_C7PXQ0 S G E S A V C T V V G R E V Y L H C P N G Y G R T K L N N A F L E R K L G V
UniRef90_UPI0003A22FEE E Y L P N T F A F G T R E I Y S W Y P E G L S A T K S E L V G Q K K R Y A P G V
UniRef90_N1WBX2 K A K G E E L I V R D R E I Y F F S P K G Y G A T K L S N N F L E K K L G V
UniRef90_D1CIT7 R Q A G E R F T L R G R T F Y F H A P N G V G R S K L F A S I E R A L G V
UniRef90_UPI00047ADA4F Y T G R D E Y R I L V G R E I Y W F F N Q S M L D S K L P R K L Q K L G
UniRef90_E4T153 D T P D E F S F G D K V I Y V Y C A S G Y G N T K L T N L F F E K K L K I
UniRef90_H8XSM8 Q F K P D E A S I D K N R L F I K Y A T G A G K T R L D Q K Y I E K K L N V
UniRef90_UPI000479F82A F K P D E A F I D G N R I Y M K L E T G A G N T R L D Q K Y I E K K L N V
UniRef90_V6SMQ6 V K P D E A S I D A S R I Y I K Y D V L E T G A G K T R L D Q K Y I E K K L N V
UniRef90_B8GEP5 A G P D R Y V I V G R E V Y L F C P D G Y G R T T F T T F F E K T L G I
UniRef90_U1HET6 D E Q V R L G K R E I Y V A Y G S G M G R S K L K P R A A
UniRef90_A0A059MNZ8 D P A V E R V A R G N G V L Y W D V E R G Q T V K S A F G R N T G K P R Y K A
UniRef90_L7LNA8 F G N G E R L R V I G R D L H I D Y A P T G V G R S K L T P A G I A K G L G V
UniRef90_T2KQE9 T V V N E T F V I T D S C V Y F Y S E H G Y G K A K C N N N F F E R K L K V
UniRef90_L0J0R6 A G P D E K V K R G K G V I Y W Q C P K G T L G A T I G K T M G N K R Y K S
UniRef90_W4HY14 A G P E E K I S R G D G V V Y W Q V P K G S T L D S A I G Q T M G K K R Y K S
UniRef90_UPI00047E6210 K E E Y E R V Y N Y K N S I F W S F S R K N Y Q K T N W W S K T A T S N I S D
UniRef90_UPI000368A35D D P T Q E Q I A G G D S V Y W Q V E R G Q T L D S G F G K A T G K V I P K R
UniRef90_UPI00028834A5 K E E N E K Y L I T S K E I Y L Y C P N G Y G R T K L T N A I F E K K L K T
UniRef90_C5C6E3 S G A D E Q V A P G D G V L W E C P K G S T L D T A V S K V L A R K A Y R Q
UniRef90_UPI0004032843 P G R N E Q Y A I L G R E A Y L W L P D G V H S P L A K A V T D R R F G V
UniRef90_UPI0003770A40 A P D G E E A V A D G R E T Y V H Y P I G S G K S K L K L A K A V T D R R F G V
UniRef90_R2PRM4 H P E Y E Q V Q F Y E R V V F W S F L R K D H Q K T N W W G K T T K A S I R Q
UniRef90_M1MMU2 K S E S D K Y Y I V G R N V Y L L F K H S I R N S K L A N N L Y H R L D V P Y
UniRef90_R4K095 R N E N D D Y I I G R E V F L L F R N S I R N S K L A N N L H R L D V P Y
UniRef90_H3SA50 E N E P D K F S P H G R D M Y L L F D Q S I R N S K L A N Q V T K L G V
UniRef90_J2L1T8 D A D V E Q M E P G K G V L Y W Q C P R G E S L D T P V A K L L A K T R Y K S
UniRef90_UPI0002D6FC2E T V I G R E R I V V A G K V L Y F H A P D G F G R S K L P V V V D R T L K V
UniRef90_W7SCE3 V N E Q E R C V I T G R E V Y L L F Y N S I R N A K L S Q Q L P K L E V
UniRef90_H0HVV1 A A K G E R I A V V G K V A Y L H T P E G F G T S K L A E R F D K G I G V
UniRef90_S9USW2 Q E V D E F Q I Q G R E I Y C L Y R Q S V L D S K L A N N F Q K L G S
UniRef90_M3V5U8 D F G D D L F Q V V G R D L H I R Y E S G A G R S K L T A A S I A R G L G V
UniRef90_E2S8I6 T G D D R W Q V V G R E I Y V R Y S A T G A G R P Q M K D A S I A G R L G V
UniRef90_W7BH11 Q I A L I E K I E P Y K N A I F W S F S R K E Y Q K T N W W S K T A N S R V S S
UniRef90_Q3Z6Q2 K P E Y E K V A Y H G Q V I F W S A P I K T F S R T R W L K V V S T S A Y G
UniRef90_UPI00035D8959 K S E I D E F Q L G G Y E I Y F L F R Q S V L D S K L A T N L T S L G D
UniRef90_E3J6X6 A G A G E E V T V V G R D V Y L H C P N G Y G R T K L N N T N I E K K L A V
UniRef90_G5JRT3 K L T D E T V H F G H L R G I Y W G K Y Q E K N F K T A Y H K A L L K Q S F Y K
UniRef90_A0A010ZN13 T H A P E V M A I G P R E V Y W V Y P D G V R K A K L S P F F E K R Y N A
UniRef90_W0AIY5 A Q A G E R I S E A G G A L W I D Y G S G G V A N T K L S P A F I D T C A G S
UniRef90_UPI00047B8703 T Y P N E Q F Q V S D A C V Y L G N Y C L N G Y G K A K L N N N V I E T K L V
UniRef90_E3H033 D V P D E V L H I G D C A V Y F G N Y S T P D Y K K A Q Y G K F M S K A F A N
UniRef90_X0P263 A Y A P D R F R L M G R D L Y L W C P Q G I G R S K L A E A V G R A R L G V
UniRef90_UPI0003B473EE D S G A D P I A P G D G V Y W N P V K G T T L E S P F A K V L G K P R Y K P
UniRef90_M0QHW0 S F G G E Q L K V I G R D L H I R Y D R G V G E S K L S A P I I A K G L G V
UniRef90_Q1IUC9 E K I E E V H F K G R E I Y I Y F P D G I G R S D L R S V L D R T L K K
UniRef90_UPI000365AD48 G F A P D E F R P G E R E I Y V H C C P N G Y G K T R L S H A L W E K R L G L
UniRef90_UPI000248E7F7 S T E D K F K V L G N V Y L Y C Q G K Y H K S K L S N Q F F E S K L K I
UniRef90_U2N6Q6 T E G E D K Y K I T C R D V Y L L F H D S I R N S K L G N N L G K L D N
UniRef90_A0A011U5J8 K D E E V R V G K R E I Y V A F G P G M G R S K L K P V A A
UniRef90_B1KJL4 A S Q T E R F E L D K L F Y L H A P D G I G R S K L V A N I E S C L G V
UniRef90_I0X8W8 T A E L I E K V G I C G N A A F W S F D R K L Y A K A N W W K K T A A A G I G E
UniRef90_K6WQ41 F G G D D V E T V I G S D L H I R Y A E G A G T S K L T A P V I A K G L G V
UniRef90_UPI00036EDA5F P V I G N E L I S R G H G V L Y W Q V A R G D T L S A I S K T M G K K R Y K S
UniRef90_W7YIN5 R N E N E N Y R N N G R E I Y F L F R N S V R N S K L A T H M H K L D V
UniRef90_G0A8J3 I P G A E E V R P G K E I Y H Y P E G M G K S K L K L P S T G
UniRef90_R2RFF2 K P E Y E Q I A S H K E V I F W S A P R K T F N K A R W A K I A S S S V N N
UniRef90_G2Z3N2 F K P D E A I V H D N M I Y I K Y H I G A G K T K L D Q K Y I E K K L N V
UniRef90_Q38Z16 K A D Y E Q V A V T Q G V F W S A Y V K T H G R T R W A T V K N K A L Y Q
UniRef90_Q26EY9 S T E M E T F K I V D D V M Y F Y G V G F G K T K L T N A W F K K L G V
UniRef90_R3W660 N A A Y E K V F S Y K E T I F W S F I R K E H Q K T N W W S R T A R S N V K D
UniRef90_A0A017HB98 D Q G W D R I A V V G R V A Y L H T P S G F G G A S L L A T R F D K G L G V
UniRef90_K0K2S6 P G E T G V L T V L G R E I F L H V P G Y G R T K L Q N V F R E R K T G T
UniRef90_UPI000478C01A V K P D E V H I D Q N R I F I K Y A V S A G K T R L D Q K Y I E K K L N L

UniRef90_E4RUJ1 K G T T R N W K T S T K L K E L A
UniRef90_K6UBQ8 L V T V R N W K T I N K L Y T L A K
UniRef90_S0SB29 H V T L R N A N T V R K K L L A M S Q
UniRef90_G0J6M7 K A T T R N L K T V R K L C E L S Q
UniRef90_UPI00039E77FC I A T T R N F N T L S K L V A M A E E
UniRef90_UPI00035E3895 T C A R N W N T V T R L A E L A
UniRef90_R2R629 Q V T I R N A N T I N K L L L M S Q
UniRef90_F8FG98 M A T T R N E A T V R K L L L D M G R
UniRef90_UPI0004712853 P A T T R N L R T M T K L L I E L L
UniRef90_F0T609 N A T T R N W K T V N K L L E I A E
UniRef90_T0VGT2 Q L T I R T A N T V R K I V D M
UniRef90_J1S0W5 T A T A R N W N T V T K L L A L A D
UniRef90_J1FMS9 A A T T R N F N T I S K M I E W A E E
UniRef90_UPI00047E3DC8 K L T I R T A N T I K K I V S M
UniRef90_K1HP73 V A T T R N Y K T C L K L L E L A
UniRef90_M2XG52 T T T N R N L R T L R K L L L
UniRef90_UPI0003670922 N A T A R N H K T T L K L L E L A
UniRef90_W7IUD0 A V T G R N W N T V G K L A A L L
UniRef90_F2A6X8 P G T S R N L N T V R K L L
UniRef90_J8EVB5 P A T V R N W R T V N K L K A I A E E
UniRef90_K6X8W8 Q G T G R N L R T V R K L L D L T K
UniRef90_A8LUY8 S M T M R N W N T V R K L L C L A
UniRef90_S7WUL8 R A T T R N L K T V A K L C E L S Q
UniRef90_UPI00047D0255 L A T T R N Y R T L T K L I E L L
UniRef90_V6IUH5 P S T T R N W K T I D K L Y A L A
UniRef90_I3C3P0 Q A T T R N W K T M M K L L E M L N
UniRef90_J5DV77 S T T T R N L R T L D K V L L
UniRef90_E8X403 V S T A R N W N T I G K L L E M M E
UniRef90_C7PXQ0 K A T T R N W K S V T T L H D M
UniRef90_UPI0003A22FEE V A T A R N W N T V T K L L A L L E
UniRef90_N1WBX2 A A T T R N W K T I V A L C A L S D E
UniRef90_D1CIT7 P G T A R N W R T V C R L L E M V D Q
UniRef90_UPI00047ADA4F P A T M R N W K T L V K M D E L A R
UniRef90_E4T153 F A T A R N H S T T T K L L T L A K E
UniRef90_H8XSM8 I A T I R N W N T V S K L L E M Y N E
UniRef90_UPI000479F82A T A T S R N W N T V N K L I L G M
UniRef90_V6SMQ6 T A T I R N W N T V S N L H A L F S K
UniRef90_B8GEP5 A A T T R N W K T V I A L A D M A G E
UniRef90_U1HET6 N G T A R N I N T I A K L A E L A
UniRef90_A0A059MNZ8 V T T T R N L R T L R K
UniRef90_L7LNA8 T G T G R N L R T T A K L I A L A R E
UniRef90_T2KQE9 S A T T R N F K T M Q K L L S L C
UniRef90_L0J0R6 S T T T R N L R T V E K V L
UniRef90_W4HY14 S T T T R N L R T L D K V L K
UniRef90_UPI00047E6210 K I T I R T A N T V K K L V N M
UniRef90_UPI000368A35D P V T N R N L N T L H K L L
UniRef90_UPI00028834A5 I A T T R N W K T V N R L F G I A N K
UniRef90_C5C6E3 S T T N R N L R T L R K L
UniRef90_UPI0004032843 V L T A R N W R T V E K L Y A M
UniRef90_UPI0003770A40 V G T S R N I N T V R K L A E M A A E
UniRef90_R2PRM4 N I T I R T A N T L R K I A T M
UniRef90_M1MMU2 A T T V R N W K T L S K L N S L A K
UniRef90_R4K095 T V R N W K T I N K L M L L A K
UniRef90_H3SA50 P S T T R N W N T V K K L S A M A Q
UniRef90_J2L1T8 S T T T R N L R T V E K L L
UniRef90_UPI0002D6FC2E V S T A R N W N T V R A L E S L A R Q
UniRef90_W7SCE3 P A T V R N W K T I M K L T T M
UniRef90_H0HVU1 P N T A R N W N T V L K L K E L A E K
UniRef90_S9USW2 N V T T R N W N T M T K L A A L A G E
UniRef90_M3V5U8 Q G T A R N L R T V R A L L E L A R
UniRef90_E2S8I6 P G T A R N L N T V T K L I E L A
UniRef90_W7BH11 L T T T R T A N T V K K I A
UniRef90_Q3Z6Q2 N I T I R N A N T L K K L L Q
UniRef90_UPI00035D8959 R V T T R N W N T M T K L S E M A K E
UniRef90_E3J6X6 T G T T R N W R T V V A L R D L
UniRef90_G5JRT3 E I T I R N H K T Y A K L A D Y L
UniRef90_A0A010ZN13 A G T A R N W N T L S K L L T M L D
UniRef90_W0AIY5 I V T A R N L K S V E A I D A L L
UniRef90_UPI00047B8703 V A T A R N Y R T M Q K V L A L V D
UniRef90_E3H033 Q L T L R N A K T Y N K I L D L L D
UniRef90_X0P263 T A T A R N W N T V T K L L A L A D
UniRef90_UPI0003B473EE T T T N R N L R T L V K L L A
UniRef90_M0QHW0 T G T G R N L L T V R K L I D L A D Q
UniRef90_Q1IUC9 T A T A R N F N S V M K I L E I A E
UniRef90_UPI000365AD48 T A T A R N W N T V T R L A A M A
UniRef90_UPI000248E7F7 S A T T R N W K T S Q K L A E L L
UniRef90_U2N6Q6 S A T T R N W K T I N K I R D L V N R
UniRef90_A0A011U5J8 G G T A R N I N T I A K L A E L M
UniRef90_B1KJL4 R A T G R N L N T I N K L N E M M D K
UniRef90_I0X8W8 M I T I R T A N T L R K I A E M
UniRef90_K6WQ41 Q G T G R N L K T I R K L T E L A
UniRef90_UPI00036EDA5F S T T T R N L R T V E K V L A
UniRef90_W7YIN5 P A T V R N W K T I R K L V T L V D
UniRef90_G0A8J3 I A T V R N I N T V T K L L A L A
UniRef90_R2RFF2 Q V T I R N S N T V K K L L Q M S Q
UniRef90_G2Z3N2 T A T I R N W N T V S K L L E L
UniRef90_Q38ZI6 W I T L R N A N T A R K L A A L A Q
UniRef90_Q26EY9 R S T M R N Y N T I L K L T E L
UniRef90_R3W660 S I T I R T A N T V K K I A T L
UniRef90_A0A017HB98 P N T A R N W N T V R R L L E L L D
UniRef90_K0K2S6 V S T T R N W K S V L K L T E L V
UniRef90_UPI000478C01A T A T I R N W N T V T H L L K M Y E E

UniRef90_I0H3K6
UniRef90_A0A024K3Q2
UniRef90_UPI00047D92B9
UniRef90_D7UX93
UniRef90_R7M782
UniRef90_UPI00026CD664
UniRef90_J3C5D1
UniRef90_H5TTW3
UniRef90_UPI00016C4B68
UniRef90_W0Z9U2
UniRef90_Q2NC07
UniRef90_H7FVE9
UniRef90_V4Q5U6
UniRef90_W2EL03
UniRef90_F0RCY5
UniRef90_F5IU02
UniRef90_D3PVV8
UniRef90_K6YXP3
UniRef90_UPI000401A246
UniRef90_W9GJH5
UniRef90_D7WST7
UniRef90_Z5X3A1
UniRef90_UPI0003FBB622
UniRef90_H6MU60
UniRef90_W7B917
UniRef90_V4P6Y7
UniRef90_K2MJT7
UniRef90_R5MVR8
UniRef90_UPI0003616BA6
UniRef90_S9TB95
UniRef90_Q023J6
UniRef90_R6XN01
UniRef90_UPI000375AD63
UniRef90_Z4WUS9
UniRef90_UPI000255A808
UniRef90_R8KM35
UniRef90_V8CU70
UniRef90_UPI00040299B0
UniRef90_F6BWB5
UniRef90_UPI00036D4B8E
UniRef90_UPI00037EE689
UniRef90_R7HGY0
UniRef90_UPI00036B4290
UniRef90_UPI00046FEAF1
UniRef90_Q11IF7
UniRef90_W2ULC2
UniRef90_UPI00047EF079
UniRef90_A0A059FK04
UniRef90_Q0AM52
UniRef90_D5BAQ1
UniRef90_R6ZQ84
UniRef90_UPI000361109B
UniRef90_UPI00035CEB31
UniRef90_UPI0003C7F4E1
UniRef90_UPI00047E1F2F
UniRef90_F4BMB8
UniRef90_UPI00034A8553
UniRef90_M8E5W1
UniRef90_K1HMM3
UniRef90_UPI0003781B54
UniRef90_UPI00034A36D0
UniRef90_UPI00047B22DA
UniRef90_M1HSR5
UniRef90_UPI00036D6D73
UniRef90_D0LVR3
UniRef90_UPI000363253D
UniRef90_B7IJG7
UniRef90_UPI00047A23AF
UniRef90_L8TVW8
UniRef90_G8X635
UniRef90_A3VDS9
UniRef90_V5XBW8
UniRef90_F0M5S4
UniRef90_UPI000476240F
UniRef90_F5YV86
UniRef90_UPI00046F4BBE
UniRef90_UPI00037ECFB7
UniRef90_UPI000380BB64
UniRef90_X6D686
UniRef90_F6EKT6
UniRef90_A2TV60
UniRef90_K9DWU3
UniRef90_D1BU02
UniRef90_UPI000376D237
UniRef90_W7VYA5
UniRef90_M7A372
UniRef90_D6ZFE3
UniRef90_X5L161
UniRef90_W4NV46
UniRef90_G5KEZ5
UniRef90_E7REK5
UniRef90_K0UIT9

UniRef90_I0H3K6
UniRef90_A0A024K3Q2
UniRef90_UPI00047D92B9
UniRef90_D7UX93
UniRef90_R7M782
UniRef90_UPI00026CD664
UniRef90_J3C5D1
UniRef90_H5TTW3
UniRef90_UPI00016C4B68
UniRef90_W0Z9U2
UniRef90_Q2NC07
UniRef90_H7FVE9
UniRef90_V4Q5U6
UniRef90_W2EL03
UniRef90_F0RCY5
UniRef90_F5IU02
UniRef90_D3PVV8
UniRef90_K6YXP3
UniRef90_UPI000401A246
UniRef90_W9GJH5
UniRef90_D7WST7
UniRef90_Z5X3A1
UniRef90_UPI0003FBB622
UniRef90_H6MU60
UniRef90_W7B917
UniRef90_V4P6Y7
UniRef90_K2MJT7
UniRef90_R5MVR8
UniRef90_UPI0003616BA6
UniRef90_S9TB95
UniRef90_Q023J6
UniRef90_R6XN01
UniRef90_UPI000375AD63
UniRef90_Z4WUS9
UniRef90_UPI000255A808
UniRef90_R8KM35
UniRef90_V8CU70
UniRef90_UPI00040299B0
UniRef90_F6BWB5
UniRef90_UPI00036D4B8E
UniRef90_UPI00037EE689
UniRef90_R7HGY0
UniRef90_UPI00036B4290
UniRef90_UPI00046FEAF1
UniRef90_Q11IF7
UniRef90_W2ULC2
UniRef90_UPI00047EF079
UniRef90_A0A059FK04
UniRef90_Q0AM52
UniRef90_D5BAQ1
UniRef90_R6ZQ84
UniRef90_UPI000361109B
UniRef90_UPI00035CEB31
UniRef90_UPI0003C7F4E1
UniRef90_UPI00047E1F2F
UniRef90_F4BMB8
UniRef90_UPI00034A8553
UniRef90_M8E5W1
UniRef90_K1HMM3
UniRef90_UPI0003781B54
UniRef90_UPI00034A36D0
UniRef90_UPI00047B22DA
UniRef90_M1HSR5
UniRef90_UPI00036D6D73
UniRef90_D0LVR3
UniRef90_UPI000363253D
UniRef90_B7IJG7
UniRef90_UPI00047A23AF
UniRef90_L8TVW8
UniRef90_G8X635
UniRef90_A3VDS9
UniRef90_V5XBW8
UniRef90_F0M5S4
UniRef90_UPI000476240F
UniRef90_F5YV86
UniRef90_UPI00046F4BBE
UniRef90_UPI00037ECFB7
UniRef90_UPI000380BB64
UniRef90_X6D686
UniRef90_F6EKT6
UniRef90_A2TV60
UniRef90_K9DWU3
UniRef90_D1BU02
UniRef90_UPI000376D237
UniRef90_W7VYA5
UniRef90_M7A372
UniRef90_D6ZFE3
UniRef90_X5L161
UniRef90_W4NV46
UniRef90_G5KEZ5
UniRef90_E7REK5
UniRef90_K0UIT9

S G N A V L D T D Q S A A E L G P A L E R L I E E R F G F P V G V I L R S Q D E
T G N V L L E D S S A K E A E P A V R K K A L E E A T L R E E K F G Y D A W V L L A Y D V D A
S G N V V L L D S S D T L S P E A E S L L A A S D L E S G A I L E Q T F G F D V V P V V V R T E A N A
S G N V L L D F D T E T V P E A E S L L A A S D L E S G A I L E Q T F G F D V V P V V V R T E A N A
S G N A I F Q S E T D K E V I K E N I Q E R M L K E D A Y N L E I P V V V V T T A P A E
UniRef90_UPI00026CD664 S G N V V F A S C D E T D S G A K V E A A T A A L D D A Y G L E N T D V V V V R S A A D E
UniRef90_J3C5D1 S G N I I F A S L L E T N D S E A K V E N L I T N A I E K H F G F Q V P V V L L R T L Q D E
UniRef90_H5TTW3 S G N L I C T P P A S S H H F D R A L E A A I E E Q R Y G F F R E V I S R S R A E E
UniRef90_UPI00016C4B68 S G N A V L R S R H L A R K Q V T A T A A K L C G E E R F G F D T K A I Y A P T L E E
UniRef90_W0Z9U2 S G N A A F R S S A R S H E D L K P A I E A A L G E E R F G F D A W I V L V I G R S D E
UniRef90_Q2NC07 S G N V I F A D E R D P A M L E I R I E S V V Q Q S F G F T S C A M V R S A E E D
UniRef90_H7FVE9 S G N V F V D T E E E N A A K V G I I K Q E I F T K A F G H D V P T V L V I G I E D
UniRef90_V4Q5U6 S G N V V F R S D L G D A V L E A L I G D L V E T N F G F R P S V F L I T L S H
UniRef90_W2EL03 S G N V L F T A D G D A P G P A A A I E R G L A D D L G L R I A V I V R T A E E
UniRef90_F0RCY5 S G N I V F S S K E D G E E V L S E K I H K Q I L N T F K L D V P V V L R T A S S T E
UniRef90_F5IU02 S G N V L F L S D K G E E Q L R S E I E A I E D T F G F P V V V L R T L E E
UniRef90_D3PVV8 S G N V V F D A E A E A S D L E R D I E A G I A D R S F G Y T V A V M V R S R E Q
UniRef90_K6YXP3 T G N F L J E H Q E N S A K L S A N I A D E V E E A S A G F R G F K P Q V V L V L S A D E
UniRef90_UPI000401A246 S G N V V F R S S A R S H E D L K P A I E A A L G E E R F G F D A W I V L V I G R S D E
UniRef90_W9GJH5 S G N A V F T A T G R P T A L A R E I L E D A I E S A A G F R P P T V V V L T G A E E
UniRef90_D7WST7 S G N I L F E S S A E A T A V L Q Q Q I Q E A L Q T T F T T I T S T V I I R T A E E
UniRef90_Z5X3A1 S G N V L L D S S K A A T A V L R T K A E A A L E A Y A G K P V G V V L V R S A A E
UniRef90_UPI0003FBB622 S G N V V C R S D R T E A E I K A A V E A S L E A Y A G K P V G V V L V R S A A E
UniRef90_H6MU60 S G N L I C T S P P D S A D D F A R A L E T A I E E G R Y G F S R E V I A R S A T Q E
UniRef90_W7B917 S G N V I F S S R L S E D T D L L A K I K S M I K N K F N L E L P V H V L L Q E E
UniRef90_V4P6Y7 S G N V L F R S A L S E E Q E L E T L I D G V V E K T F G Y H A N L H V L V T L S H
UniRef90_K2MJT7 S G N A V L T A S L D E A G V V E A V G E A V R R E M G F D K A V I A R G A D D E
UniRef90_R5MVR8 S G N I F I F T S N E N K L K L M K Q A L K Q H I R D T F A L D I P V F I J E I D E
UniRef90_UPI0003616BA6 S G N V L L D S R S S A K A V R T A A E R T L R D T F G Y E A W V L V Y D L D T E
UniRef90_S9TB95 S G N V V F Q S R L S E A S V K A K I L E E R D A I E E G E F A G K P V G V V L R T G A E E
UniRef90_Q023J6 S G N V V F R A A E T S R A S I K A D R I L E E D A I E E G E F A G K P V G V V L R T T A E E
UniRef90_R6XN01 S G N V I F F E S N N K E D I M K D I Y K I K N K F N L E I P I F V M T S L E E
UniRef90_UPI000375AD63 S G N V L F R S P Q T G P A L E Q E I E A S L E E R F G V P V V V V S L R Q E
UniRef90_Z4WUS9 S G N I V L R S P L K E E T S V R I A E I R A Y C G A E L Q V V I T T D A S E E
UniRef90_UPI000255A808 S G N I L F T S N Q K N S D L E I L I E D A I L K T F H F K V P V V I R S I A E E
UniRef90_R8KM35 S G N I V F F E S E E D N F L K E R I Q S E L K N V F S F D V P V M L R V T N E E
UniRef90_V8CU70 S G N V L F F E S P S T D E G L T A A L E K A M S D R F G Y A A R V L V P V D R
UniRef90_UPI00040299B0 S G N V V F Q S D E S K P L J A S I E S L I L K T V E F E V P V V L L F E A K E
UniRef90_F6BWB5 S G N V V F R S D L P E A V Q A K L E R Q A L A A K M G K A P G V V L L R S R R Q E
UniRef90_UPI00036D4B8E S G N V V F D S K L E A S V K S R L E E R C L E E Y A G K P V G V V L R T R E E
UniRef90_UPI00037EE689 S G N L F F T S D Q S A A D C N R L V A Q I L T R N F E F P I D F R L L T Q L E E
UniRef90_R7HGY0 S G N I L I E S N E S N K E N D L V K I H S L I K E R N F D L E I P V F V I S Y L E E
UniRef90_UPI00036B4290 S G N L I C V P S G N P S D F D R A L E E Q A V Q E R F G F F R E V I S R T P G E
UniRef90_UPI00046FEAF1 S G N L C F S A A R Q N P D L Q R N L S E I Y R Q F G L L V P V I V L T A A D
UniRef90_Q11IF7 S G N A V L F S S P R E T E A Q V A R K V A A A V K E D Q M G F E K R V V L V R S L A E R
UniRef90_W2ULC2 S G N V V F K S R E T A D T L K G K I E N K I E D H F G F E V K I Y L T D F E R
UniRef90_UPI00047EF079 S G N V V F F E T E D T N R D R V I G K L E T L M Y K E Y G Y D V V I F M M D I N D
UniRef90_A0A059FK04 S G N V V F V S E L P S E A R V R A T L N E R L E E T Y A G K P V G V V R T A A E
UniRef90_Q0AM52 S G N V V F F E S E L P S G A E A G A K L E A A L A E Y A G K P V G V I M R T P E A E
UniRef90_D5BAQ1 S G N I V F A S E E N T D V L E N L I Q Q K I A D H Y G F E V S T I V L S K E N
UniRef90_R6ZQ84 S G N V I F S T S E T N S D I T S S I L E S M I K K I F D L N I P V F L V I S Q K S E
UniRef90_UPI000361109B T G N L F F S S N C L Y D D L T S I L A T A L S S Y Y D F A L P F T L I N M E E
UniRef90_UPI00035CEB31 T G N L L F S R K T P D A S F I Q E F E D A L E S A R F A F R P R V L I R S E G E E
UniRef90_UPI0003C7F4E1 S G N L V C T S P G D W A A F D R A L E E Q A V E E Q F G F F R E V I S R T R S D E
UniRef90_UPI00047E1F2F S G N V V F T S G A G R A E L E A G I L E E D R L E A E L D R R I T V L V R S R R E
UniRef90_F4BMB8 S G N L I V I E S E K D S E Q V V E K C K I L S D H F S F P I E V V I S A D K
UniRef90_UPI00034A8553 S G N V F V D T E E S P S K V G F M I K Q E I F K V F G H E V S V V I A K E E
UniRef90_M8E5W1 S G N V L F F E S E E E E P L R E R I A A A Q G L S V V V L R T A E E
UniRef90_K1HMM3 S G N I I V Q S V E D S S L S K K I Q D K I L S T L N L T V P I L T L D I D Q
UniRef90_UPI0003781B54 S G N L L C T P A D D P A T F D R A L E K A I L T D R Y G Y V R E V I S R S V D D Q
UniRef90_UPI00034A36D0 S G N A V L T S A E P P G V V A V R A A L T E R F G L D V A V V T R T L D Q
UniRef90_UPI00047B22DA S G N V L F Q V E D D M P N L D R L I E D S I R Q H F G F D V P V I L K T K F E
UniRef90_M1HSR5 S G N V L L E S T C G A A E V R E K T E A T L R E R F G Y D A W A L I Y D V I D
UniRef90_UPI00036D6D73 S G Q M V F R A A G E D A L A G D L R T A L K D R A G V D T P V M V L P K V D
UniRef90_D0LVR3 S G N A V L R T A S M S Q A E L S Q A A S E A V S G Y M G R S I D V T T R T R A Q
UniRef90_UPI000363253D S G N L L C T S D E P A H R V E A A F E R A L E A R F G F A V D V V A R S A A Q
UniRef90_B7IJG7 S G N I V F F E S E E G I N F L K D R I E S E M K N E F D F D V P V M L R T R E E
UniRef90_UPI00047A23AF S G N V L F E S S K L S E A K A R R L I E H A L E G T M G R K I Q V M L R T R E E
UniRef90_L8TVW8 S G N V V L T S S R D A R A V K R E C E D C L I R A A F G Y E A W V V L D A S R D
UniRef90_G8X635 S G N V F F E C E A E N P S V G F K I K Q E I F K A E W G E V P V M V L D G K E D
UniRef90_A3VDS9 S G N A V F F E G D D P D A F A T A L T E R V E A L H D H A P R T L V L P G Q D
UniRef90_V5XBW8 S G N V L F D T D D D P A N L E S A I E G A L E K A F G Y A L V V V V R S H R Q
UniRef90_F0M5S4 S G N V V L T S A D D A A A V K R E C K C A L R Q A F G Y D A W V V V L E A A R
UniRef90_UPI000476240F S G N A V F T A R G G A E A L R A E L E G A L A D R F G F P V E A L L R D E A E A
UniRef90_F5YV86 S G N V L L E S P N D A A T V R T A E A A L Q E R F G Y P A R V L V Y E V H A
UniRef90_UPI00046F4BBE S G N V L F R S A G D A A T L E A S I E E A W L S Q R F G Y T S R V V V T H A C
UniRef90_UPI00037ECFB7 S G N V V F R G D G S P D R D A I E Q A L R S Q D F G F P V D V M L R S A E E
UniRef90_UPI000380BB64 S G N V V F D T E D N A T Q A M Q K I Q K G F S T A F G F E C A I V M L R T A R E
UniRef90_X6D686 S G N A V F K A K K G N A T L A K Q L E A A F E K K W G F S A R I M V R D L S W
UniRef90_F6EKT6 S G N L L C E P P G D P D A F D R A L E E A I Q A Q F G F F R E V I S R S P D E
UniRef90_A2TV60 S G N I I F K S H E S D E I T A V I K K A I V G A F G F E V P V F V L T R K M
UniRef90_K9DWU3 S G N V I F D A D V A S S Q A A E A I E E A M V L R L G V A A R V F V L E R Q E
UniRef90_D1BU02 S G N L V L E S D D D A D A V A R T L E R A L A A Y A G K P V G V L V R T P A E
UniRef90_UPI000376D237 S G N V V F F S P Q T R D K I L A K D I E L M Y K E Y G H N V V I F I L J E G A D E
UniRef90_W7VYA5 S G N V V F T S P P A R P E T L A E I A N R L G D E L G L R V P V L V R D E A D E
UniRef90_M7A372 S G N L L A A P P D T P E Q F A R A I E S A I Q E R Y G F Y R E V I G R T A E Q
UniRef90_D6ZFE3 S G N I L F D H R G S A A A A R E L E A Q L R A S F G Y E A W A L M C E L A E T
UniRef90_X5L161 S G N V L L D S T H G S A A K V R S V A E K A L R D A F G Y E A W V L Y D L K T
UniRef90_W4NV46 S G N V V F D S T L A K R A A Q Q A L E R S L E A Y A G K P V G V L I R T G N E
UniRef90_G5KEZ5 S G N I I F S T V V E S K K I V E A Q L K T Y F N Q H Y P F S I P F I L L E K N E
UniRef90_E7REK5 S G N V V F T S T H S K E T V A K L G K A I L S H F D L Q L H V L I Y S S A E
UniRef90_K0UIT9 S G N V L L S T R A G A A A V R Q R A E R A L R D E F G Y D A W V L V Y D L D T

UniRef90_I0H3K6
UniRef90_A0A024K3Q2
UniRef90_UPI00047D92B9
UniRef90_D7UX93
UniRef90_R7M782
UniRef90_UPI00026CD664
UniRef90_J3C5D1
UniRef90_H5TTW3
UniRef90_UPI00016C4B68
UniRef90_W0Z9U2
UniRef90_Q2NC07
UniRef90_H7FVE9
UniRef90_V4Q5U6
UniRef90_W2EL03
UniRef90_F0RCY5
UniRef90_F5IU02
UniRef90_D3PVV8
UniRef90_K6YXP3
UniRef90_UPI000401A246
UniRef90_W9GJH5
UniRef90_D7WST7
UniRef90_Z5X3A1
UniRef90_UPI0003FBB622
UniRef90_H6MU60
UniRef90_W7B917
UniRef90_V4P6Y7
UniRef90_K2MJT7
UniRef90_R5MVR8
UniRef90_UPI0003616BA6
UniRef90_S9TB95
UniRef90_Q023J6
UniRef90_R6XN01
UniRef90_UPI000375AD63
UniRef90_Z4WUS9
UniRef90_UPI000255A808
UniRef90_R8KM35
UniRef90_V8CU70
UniRef90_UPI00040299B0
UniRef90_F6BWB5
UniRef90_UPI00036D4B8E
UniRef90_UPI00037EE689
UniRef90_R7HGY0
UniRef90_UPI00036B4290
UniRef90_UPI00046FEAF1
UniRef90_Q11IF7
UniRef90_W2ULC2
UniRef90_UPI00047EF079
UniRef90_A0A059FK04
UniRef90_Q0AM52
UniRef90_D5BAQ1
UniRef90_R6ZQ84
UniRef90_UPI000361109B
UniRef90_UPI00035CEB31
UniRef90_UPI0003C7F4E1
UniRef90_UPI00047E1F2F
UniRef90_F4BMB8
UniRef90_UPI00034A8553
UniRef90_M8E5W1
UniRef90_K1HMM3
UniRef90_UPI0003781B54
UniRef90_UPI00034A36D0
UniRef90_UPI00047B22DA
UniRef90_M1HSR5
UniRef90_UPI00036D6D73
UniRef90_D0LVR3
UniRef90_UPI000363253D
UniRef90_B7JG7
UniRef90_UPI00047A23AF
UniRef90_L8TVW8
UniRef90_G8X635
UniRef90_A3VDS9
UniRef90_V5XBW8
UniRef90_F0M5SA
UniRef90_UPI000476240F
UniRef90_F5YV86
UniRef90_UPI00046F4BBE
UniRef90_UPI00037ECFB7
UniRef90_UPI000380BB64
UniRef90_X6D686
UniRef90_F6EKT6
UniRef90_A2TV60
UniRef90_K9DWU3
UniRef90_D1BU02
UniRef90_UPI000376D237
UniRef90_W7VYA5
UniRef90_M7A372
UniRef90_D6ZFE3
UniRef90_X5L161
UniRef90_W4NV46
UniRef90_G5KEZ5
UniRef90_E7REK5
UniRef90_K0UIT9

90 100 110 120
L A R I V A L N P L Q K S V A T D G S R Y F V S F A G V E G S G A L P E V
V R A V I E A Y P Y Q P E V D G Y H S Y V T F V A S P D G G S A V L D E L A G L
V A A V A G D P F A T V A T D P P A R K N L V T F L P P P F T A A A V L D E L A P P E A
F V A Q V A M K L A P D W W G N D P E S K H N I F V I P P P T A T A Q I A E N T A L V G E A
L E D I L K H T P E W W G T N N K E I Y M I F I I P P P T K Y E Q V I Y N T A L G E T
L Q A L L A A N P F P E A A L A R Q P N H V V V L F H R D S P E N T S L D A L P K A I
L Q K S S L Q N P F Q K L E D P T Q V V T F L S D I P P S P E N T S L D A L P K A I
L T E A L D R H P F D I L V D D K F S Y V V F L V D S P P D D R L K A F S D K T
W E A L I A N S P F D D F K E G K H V H A V V L G D E V P T K A E S L E A L R T H
I E A A I A N S P F P D A D D G T R Q P W V I F C V D D A T R K E L T D A A A S L
V R Y A I E E N P F P E H G S D K M V H S I F L S Q Q P D T T E A V D A L T E E H
L Q K C F S N N P F L K E K D L D I K Y V A F V S K E L R S S E N I N D L K L S Q
L E K V L A E N P F R D H E H K G K A Q H V F F K A P P S K I D R D L D L S L
L R G V V E R N P M E V R D P A R F A V V F L S G P P D R E R L E A V D P A
L Q T I E N N P F Y T E E D S K Q I Y F V L L K S T P P S A A L V E A E L N K G Y
L E A I I A D C P F T G E E S K S E V L Y V S M F T R N P S S K D I E R L A K G Y
L D A V L A A H P F G G R D L D P A K V A V V F L S A T V D A V L T V P
F T Q A A R Q N P F P K A E L P K S L H L F F L S Q A A Q S V D L N D L F L L
M A E V A A R N P F P K A K E P N F T V A I F L D R A P P A D T L T D A A S L
L A A V S A D N P F P H V T E A K Q L H A G F F P G P A A Q A R D A Q Q L A H D
F R S I V N N C P F S E Q D A T G E S L H V A L L S T V P T E E N G A K L L Q Y
L R A I F D G Y P F D R E D A T G Y H S Y V T F V S D E I L D E L A D L A G D
M A E V L A A N P F P G A A P N R T V A I F L D A P P P A D A L J E K A T D
L R D A L E A Y P F E A S E E K F A H I Y F L T G E P D T D T K A E A F V A K D
L K E I I E N A P D W W G N A D K A I Y L I F L T F P L V Y E T F Y D E M A G S P
L E T V L K D N P Y R N H K H T G K A Q H V F F F K A P P S H V D R E L M D S L
W D L M I A R N P F A Q A A D D P T R Q H V V Y A L E A A P P Q P E D V I E A L E A K
L E E L L N N E P D W W K E T N K Q K Y I J F V I E P H M Y E E I Y N V L G E P
V A A I A T N Y P F E R E V E G H H S Y V T F V S D T E L L N L A A L
L G A V L E G N P F K G Q A A N R T V A I F L D A P P P A D T L A T L S G Q Q
L R D L M A R N P F A R A G I E P G K L V V T F L A G E L P D E A R V K L E S L
L E D I L N N N P K W W G T E N K E I Y L I F I I P P T K Y E D V Y N T I G E P
L R T V V E K A P F G S R A D V F H S D V L F L R S P L I D T A Q A M T V V R T R D
L K K H L R G N P F G D E Y Q D R V F Y T T M M E P L I D P K R I V A L C Q E D
L Q K S V H N N P F Y N N Q T D V S N L H L T F L K E T P S S E N L A T L L S Y
F I N A I K R C P Y G A D S E G E S I Q V A F L A N E L S E A E K D Q L L I Q
L T A I I D A Y P F P E R D D W H A Y V V F Y S D P A Q V D V V A A I A G E L
F K L I L E N S P Y L A A E T V A A N H S Y F I L F K T P A E D S L K K L Q S E
L D D I A A K A E R F L D A K P N L L L I T F L P P P P A D A L D K L V
L A Q V L A T A N P R K S A A P N R T V A I F L D T P P P A D A L T H A S G Q R
F L J A D L A Q A P A W W G A D E T L R H N L F K L N T Y D Q A H D S W L T D H I
L E D L L N N A P S W W G T G N K Q L Y L I E I L S P V I Q S T E V K N V L G N L
L A D A L A A F P S W G R T T P R F S Y L H V L V A T P T P E A A K A F N E A
L L R V Q Q Q N P F L K E A D V N I K L Y L T F L T K I P T D L E R E S L E E H P
W V K A I E Q N P Y P D N V A E P T K L H H F A L E R E P E A Q S K A K A L E A Q K
F A K I Y T K N P F I N K V N E E T N K L Y C T L L F E S P E D E A Q S I Q A L E A V
V R K A I D S N P Y E P E G Q G A K K F F V A F L N G V P T T S G I D Q I N K Y
V A A V R D A N P F A G E P G N R V V A I F L D G T L G P D V L D G L K H L
M T A V C Q A M 5 2 P P E A P G N R C V V L F L D G A P P A D L Q D T L K H Q
L S S I I D S N P Y A E E E I K R L H C C F F K T D P L E N R Q K L E T F
L Q N A L Q K E P S W W D S K N K D I Y L L I F L P P V I T F K D V Y D N L G R T
L L E E G Q N L P D W W Q D E T A Y R D A L F Y L P P I T K E V A N L I S T W
L A K V I A D N P F A D Q P E I D P K L L V F F L E T E P T R E G L I E A L K S A
V E Q A L A T H P F E V T J E P K F S Y V T F L T A E P T P E A V E S A R E V P
L A E A V E A N P F P D A V P N R L L L A F L R T A P A E D Q L A A A A V
Y Q K E L A S I P S W W G E N E L Y K H N L F L L P S V D K K G I S K L S S M I
L E L C F S N N P F L K E K D I D E S K L Y I V F V S I A L K K E S H D L K I S
L R R I A A S C P F A E E S A G E S L Y V G F L R E P S R E S G M R L A P Y
F E E L A A S H P F T K E E E L A Q L Y L T F I D G T P Q S E G I N S L E E K
L A A A L A A H P F D V V E P S A S Y V Y C L T A V P A S T A V T A F H K R D
L R A A V A A N P F L A V E N P S A F M V L F C S E P V D T A A L T A I D P A
F E S T F K A C P F S E E K K E K C L F V V C S K E P D A E K V K H F M E A Q
V R T L V A A Y P F E C E L E G Y Q S V V T F V A D A A I L D E L S A L A D T
L D A A L A D C P F E P E E G S H V V F F L W D A P E V D I D A Y H R W
L E R V V E R N P F A E A A E Q P K Y V V V F L S A A P G R A G L Q P L R E G
W A D Y L D S N P F T A E G E Q T P N L V M L C I G K Q P A S E S A A T L Q A R
F I N I I K Q C P Y E V H S E G E S V H V A F L A N V L S E E S S Q L L T F
L E Q I L S R N P F A G N E P A K V G I A F L Q A G P P P D L L Q N V I
V A A A L V D A C P W P A D D K S T H T Y T L S S D T K V L D H L D A A G A S
L E G A L S N N P Y L K E K D P S K I Y F A F L N K E L N E S A I H D L K I S Q
I T D A R D A Y P F A E G F D H P K F A N T W F C T D A P D A P D L A R L E D H
L R N V V S K A P F G A D D T F H S D A L F L K A P L T A A R V L D I V T L
V A E L V S A C P Y P D D D T T H T Y I T L A S D T A M L D E L E A T G A A
L S A A V D A N P L E E V G D P S R F L V L F L D G P I A P A D L A G I D A G
V R A T V A A Y P F E P E V P G A S Y V T F V A D P A V L V A E L S A L A G
L A Q I V A A Q P P D F G S D P S Q S Y V V F L A D L T V A Q G L R A V E T
W A T L A P R N P Y P Q A A D G T K V H V A F L H H E P D P A R L N A L R A R
M A D M V E V L P F S E G N P A V E H L Y V Y L L D G A D T R Q Q F D G L T C
F E R L V N E N P Y P D V A A D H T R L H A Y V L E R E P T A Q D E V A R L A E K
V Q A A L D A H P F A T V N P K F S Y V T F L L R E P A T A V E K A R T Y
L T Q V Y E N Y A L L P P E C I A S S Y F T L L H T L P S T E E A L V N N L
L A D I I D D N P L L D A D H A R L F A F L L T G E P Q R E M A A C L C G Q
V R R V L A D N P F P G E P G N R V A V T F L P G P T P S D A L D T V S R
L A K I V A N N P Y A K R E D P E G K F E V A F L S G T P G G A G I D Q L K K Y
L A A V A A S P Y A G R Q D D H T R L V V F L S A P A P A A R V R E L A V P
L R D A V D A Y P F V V D E E K F A H I Y F L T G T P T A D A S H A L V D K D
L A R I E A A F P F K E V D G M H S Y V V L C S D P A V L D E L A A L E L S
L A A I S A A Y P F E R E V E G H H S Y V T F V S D A E L L D E L A A L K
M A A V L D A N P F R D E A P N R T V A I F L D A P P A D T L K H I A G Q
L E S D F R S L P V W W Q N Q Y R K N V L F Y L Q D V T K A K L G L I E Q S
F L E I A Q S V P P K N W S N D Q Y H M K D V L F L W Q D V D D E S V V N Q L T I K
V A A V S A G F P F E R E V P G H H S Y V T F V T D D D V F G E L S E L A R Q

UniRef90_I0H3K6 D S A D Q C V V I D G A E T Y L W 130 140 150 160
UniRef90_A0A024K3Q2 A E G D E K I S R G D G V I Y W Q V P K G G T L D S T L G K T M G K P R Y K S
UniRef90_UPI00047D92B9 D S G E K Y L V R G R E L Y L W L P D G L A N T P L A A W K W D R R L S L G V
UniRef90_D7UX93 L P D Y E K V A I A E P I V F W S A A V A T F S K T R W S K L V K R S A Y A
UniRef90_R7M782 K E N L E K I Q E Y N N I V F W S Y K L K E Y R K T N W W P K T A S T S I S D
UniRef90_UPI00026CD664 Y Q G R E T L T A R G R E L Y I D Y I D G L G A S K L P Q A M A K L K F P R
UniRef90_J3C5D1 F D K E D R F L T A N K T M Y I I L Y A N P G G S K L T N A I E R K L K V
UniRef90_H5TTW3 F G D D V C Q V I G S D L H I R Y A E G A G T S K L T A P V I A R G L K G V
UniRef90_UPI00016C4B68 A V E G E A I E L V G G V V Y L H T P F G L G T S K L G E K F D K G L G V
UniRef90_W0Z9U2 K S H A D P I V A P G P G V V Y W C P A K G S T D T P F A K V I A R T T Y K A
UniRef90_Q2NC07 A K G S E R L A L G D R V L F L G Y V H G V G V S D L S N K T L E R R L K V
UniRef90_H7FVE9 F K P D E A Q L D G N R V F I K Y A V G A G S K T R L D Q E K I E K L N L
UniRef90_V4Q5U6 K K D D S E A Y E I S D E L M Y L Y A P E G I G R S K M V E K I G R A V K A
UniRef90_W2EL03 A Y A P E E M A I G E R E L Y V H F P D G L R R P K L P P L L E K L S S T
UniRef90_F0RCY5 T Y A T E K F V V T N N C V Y L L C L N G F G K A K C N N N F F E R K L G V
UniRef90_F5IU02 N T Q Q D K Y K I A G R N V L L F Y N S I R S K L A G S L Q K T D P
UniRef90_D3PVV8 E G Y P E E A V S V G R E L F I H Y P D G M G K S K S G F W K Q L G D T K
UniRef90_K6YPX3 K K P S E S F E L V G Q V F Y L H A P E G I G R S K L A V K V E K H L G V
UniRef90_UPI000401A246 L D E E I R L G R E I Y V H A P S G I G R S K L A I A A K L
UniRef90_W9GJH5 Q G S R D E V A I D G S V Y L H T P D G L G R S R L A L G R T K G D D G G K V
UniRef90_D7WST7 V S E K E R C I K G R D V Y L L F H D S I R N A K L S Q Q L P K L E
UniRef90_Z5X3A1 A G P D E K I D R G V G V L Y W Q V P K S S T D S A V G K T M G K K R Y K S
UniRef90_UPI0003FBB622 G R Q G E G M R L G R E L Y V H Y S D G M A R S K L S I P A A K
UniRef90_H6MU60 F G A D E L A V I G S D L H I H Y A A G V A G S T L S A P K L A R N G L K V
UniRef90_W7B917 K V E F E K I H H K N V V F W S F S R K D Y Q K T N W W S K T A N S V N
UniRef90_V4P6Y7 K A D S E A Y E I T D E L M Y L Y A P D G I G R S K L V E K I G K A I K A
UniRef90_K2MJT7 A G G T E R F H L N G R T L Y L H T P D G M G T S R F A P K L E P T L K V
UniRef90_R5MVR8 K K E Y E I L K E Y K N T I F W S F D L R Y Y Q K T N W W S K T A S T S I S K
UniRef90_UPI0003616BA6 E P G P E E K V Q R G D G V L Y W Q V A R N A T L D S T V G K T M G K R R Y K S
UniRef90_S9TB95 A E E V A L G A R E I Y V Y G D G M A H S K L K I P A A K
UniRef90_Q023J6 P K T P E E M H L H V R E L Y Y F P N G M G Q S K L S L A A V D R A L K I
UniRef90_R6XN01 K E D I E K I K K Y N D S I F W S Y D L K N Y R K S N W W N K T A S T N I S D
UniRef90_UPI000375AD63 D G V D E A W A A N G V L Y F Q R L S A E R T K S R M G Q I T I G T P E Y K
UniRef90_Z4WUS9 F G E E E L R M V E G R L Y M Y L P K D A S R S K L S N F L E K K L K F
UniRef90_UPI000255A808 N D E T D V R K I S N K D V F I C C K G K Y H Q S K F S N L F F E K K L K M
UniRef90_R8KM35 K N E T E D C Y L H E K S V V Y L F F K N S I R N S K L M N Q F Q K L H T
UniRef90_V8CU70 D P Q Q E Q I A A G E S V L Y W Q V R K G D T L D S V I G K R T G S K K S N
UniRef90_UPI00040299B0 T F L N E E F S I A S A C I Y L K C N V G Y G K A K C N N F F E R K L K I
UniRef90_F6BWB5 A P D G E E V R I D G R E I Y V H Y P N G S G R S K L K L P A L R
UniRef90_UPI00036D4B8E E E E M A L G T R E I Y V H Y N N G M A D T K L K I P A A R
UniRef90_UPI00037EE689 T T D Y D R V L I T P N V I F W T S T L R A H F S R S F Y S K I M G T P F Y K
UniRef90_R7HGY0 N E N V E Q I R E Y K N C F F W S Y E L K N Y R K S N W W V K T S S T Y I K D
UniRef90_UPI00036B4290 D F G A D Q A R V I G D V A H L A Y A E G A G R K S K L T T A V L A R R L G V
UniRef90_UPI00046FEAF1 G N V P D T Y Y I I N N L V F L K M S Q G Y G K T K F N N T F F E K K L N T
UniRef90_Q11IF7 A T G A E R F V L N G R S L Y L H T Y P D G M G R S I F V P K F I E P T L K V
UniRef90_W2ULC2 E S K D D V F L V Q D E V L Y F C Y H N G Y G K A K I T N P K F I E Q K L K V
UniRef90_UPI00047EF079 N R S D D A F K V V I G N V L Y L K L A Q S A A D S K L T N V F L E N K L G L
UniRef90_A0A059FK04 D T E V L K A P G N R E I Y V H Y P D G Q G R S K L V I P A A G
UniRef90_Q0AM52 A S E Q V A A G Q R E I Y T H Y V D G M G R S K L I I P A A R
UniRef90_D5BAQ1 D A S P D A F T V G N S C M Y I C C A T E R Y S K S N I N S V A E K I L K I
UniRef90_R6ZQ84 N D Q Y E R I E N V E N F I F W S F D R K N Y Q K T Y W A K T A S S T I S T
UniRef90_UPI000361109B P T E G E N Y H L G D K A L Y W L A P T K E Y R K T A H A K K I M A K P F N Q
UniRef90_UPI00035CEB31 I K D G E E I R L T G K T L Y V S Y H P H G I G K S K L T N A V I E R K L G L
UniRef90_UPI0003C7F4E1 T G D D R W E V I G R E L H V R Y A D G A G R P Q M K D A T V S G R R L G V
UniRef90_UPI00047E1F2F E S G A D E F R L L G S T L Y L H C P D G M G R S K L A A A L S K P V S
UniRef90_F4BMB8 N E N Y E K I Y I G E L A I F W S S F K E N Y S K T Y Y S K L I G N P L Y K
UniRef90_UPI00034A8553 Q F K P D E A S I D E N R I Y T K Y D I G A G K T R L E L K Y L E K K L N V
UniRef90_M8E5W1 K N E D E Q Y Y I L A G R E I F L L F S R S V R N S K L S A N L Q K L D V
UniRef90_K1HMM3 K D T L E L L H T T E S A V Y L V T N I G Y G K T K I T N A L I E N K L K V
UniRef90_UPI0003781B54 F G G D E F K V I G D N L H I R Y E A G A G V S K L T A P V I A R N G L G V
UniRef90_UPI00034A36D0 T H P R E R I A V T P T E V F T H H E L G V R A A R L P A V V A R N C P G
UniRef90_UPI00047B22DA S N A T E E L A I V R D C L Y L Y A E K G I G K M K F N M N E M E K K L G V
UniRef90_M1HSR5 A G P D E N I S R G P D G V L Y W Q V P K G S T L D S T I G Q T M G K K R Y K S
UniRef90_UPI00036D6D73 K A D D E E L K V D G R R A W L H A P S G I G R S K L A E R L D K V L K G T
UniRef90_D0LVR3 D W G D E G W K A D G A H T Y S W H P K G G G R S K L A K T L S T L K L A G
UniRef90_UPI000363253D A G D N E R V V I D G D A L W L Y F G D G S G R S K M G V G P S S G
UniRef90_B7JG7 K S E L E D C Y I D E K V A Y L F F K N S I R N S K L M N Q F Q K L H T
UniRef90_UPI00047A23AF A P D G E Q I Q L G E R E T Y I Y F P I G Q G R S K L K M S L D V
UniRef90_L8TVW8 L E G T Q Q R L G P E A L A W L A P A G G T L D S P F S K L S A K A K F K S
UniRef90_G8X635 V K P D E A T V D K N R L Y L K Y I N G A G K T R M D N K Y I E K K L N V
UniRef90_A3VDS9 A T A T E R F A L K G R W F F L D A P D G I G R S K L A E R V I E K A L G V
UniRef90_V5XBW8 R D G V D Q A W P G T G V V Y F A R L G A E R T K S R L S K I T T T E Y K
UniRef90_F0M5S4 L A G V E T R L G P E A L A W L A P A G G T L D S P F S K A S A K P R F K A
UniRef90_UPI000476240F A H A P E T M A A G E R E V Y L A L A P D G L R N A R L P G L V E R A L G R
UniRef90_F5YV86 L G S D G K I T P G D G V I Y W Q I P K G D T L G S T L G K T M G A K R Y A S
UniRef90_UPI00046F4BBE R P G V D A A Y S G A H A L Y F R R L J A R A T Q S R F P K L A S K P E Y Q
UniRef90_UPI00037ECFB7 S F G E D T W A C S G R E L Y L H T P N G L G Q S R L D L A L A T S L G K
UniRef90_UPI000380BB64 Y T G R D R M V L G A N E I Y L L H C H E S T R D S K L V A T S L G K
UniRef90_X6D686 C T G P E R F E V K G D V L Y L H A P D G L G K S L A F A G L I P R T L K V
UniRef90_F6EKT6 E T G K D C W D V I G R E M H I R Y V D G A G R P E M K D A S I G R A L G V
UniRef90_A2TV60 E L P N E H F I A T E N C V Y I Y P E K G Y G K A K A T N T F E K R L N V
UniRef90_K9DWU3 D W Q P E A L A I G R N A Y V W C P E G V L D S A A A A L G K G L G D
UniRef90_D1BU02 A D D G E E V R V G D R V L Y V H Y P H G M G R S K L R M P A A A
UniRef90_UPI000376D237 N R G D T V E Y K V I D N V L Y L K L A T S A A D S K L T N V F I E N K M N I
UniRef90_W7VYA5 P G E T M E Y E V I G R E A H L F P A G Y G R T K F T A Y L E K K L G V
UniRef90_M7A372 F G D D E L V V I G A D L H I R Y A N G V A G T K L T A P V I A R T L G V
UniRef90_D6ZFE3 P G E R R A K G D G V L Y W Q T P K G T T L D G A M G K A M G K R Y K S
UniRef90_X5L161 P G A Q E K M R R G D G V L Y W Q V A R S A T L G S T I G K T M G K R Y K S
UniRef90_W4NV46 Q N E Q V A L G K H E I Y V H Y G D G M A K T K L K I P A A K
UniRef90_G5KEZ5 N N G N E K I H F G K N A L E W A V L N E E D Y Q K S F Y H K T L L T L P I Y K
UniRef90_E7REK25 P D I D R V K E Y V P G A I L W S V D K D L V T K S G L S K I V G T A Y I R
UniRef90_K0UIT9 P A P D E S I I Q P G D G V V Y W Q V P R A A S V T S A M G K T M G A K R Y R S

UniRef90_I0H3K6	P	S	T	L	R	N	W	N	T	V	E	K	L	L	T	L	M			
UniRef90_A0A024K3Q2	S	T	T	T	R	N	M	R	T	L	A	K	L	L	L	L	L			
UniRef90_UPI00047D92B9	A	G	T	G	R	N	W	N	T	V	R	K	L	A	E	L				
UniRef90_D7UX93	N	V	T	I	R	N	A	N	T	A	K	K	L	L	Q	L	L	K	E	
UniRef90_R7M782	K	I	T	I	R	T	A	N	T	M	R	K	V	L	E	L	L	N	K	
UniRef90_UPI00026CD664	I	A	T	A	R	N	W	N	T	V	V	K	L	A	T	L	L	E		
UniRef90_J3C5D1	R	A	T	T	R	N	W	K	T	V	N	K	L	I	E	L	M			
UniRef90_H5TTW3	Q	G	T	G	R	N	L	R	T	V	R	K	L	I	E	M				
UniRef90_UPI00016C4B68	P	N	T	A	R	N	W	N	T	V	L	K	L	R	E	L	A	K	K	
UniRef90_W0Z9U2	R	T	T	N	R	N	L	R	T	L	Q	K	I	V	A					
UniRef90_Q2NC07	K	G	T	A	R	N	M	T	S	L	K	R	I	L	G	K	M			
UniRef90_H7FVE9	T	A	S	L	R	N	W	N	T	V	T	Q	L	L	K	M	Y	E	E	
UniRef90_V4Q5U6	D	M	T	A	R	N	L	N	T	V	E	T	L	R	D	M	A			
UniRef90_W2EL03	P	A	T	M	R	N	W	N	T	V	T	R	L	L	A	L	A	E	E	
UniRef90_F0RCY5	Q	A	T	T	R	N	Y	K	T	M	A	K	L	V	E	I	S	K		
UniRef90_F5IU02	S	T	S	R	N	F	K	T	I	S	K	L	A	E	L	G	K			
UniRef90_D3PJV8	T	T	V	R	N	W	R	T	V	T	K	L	R	E	M	M	D			
UniRef90_K6YXP3	A	T	T	A	R	N	W	N	T	V	Q	K	L	L	G	L	A			
UniRef90_UPI000401A246	G	T	A	R	N	M	N	T	V	A	T	L	A	E	M	A				
UniRef90_W9GJH5	L	G	T	F	R	N	W	A	T	V	G	K	L	L	D	L	L	D	E	
UniRef90_D7WST7	P	A	T	A	R	N	W	K	T	M	M	K	L	A	T	M	I	G	E	
UniRef90_Z5X3A1	S	T	T	T	R	N	V	R	T	L	A	K	V	L						
UniRef90_UPI0003FBB622	A	G	T	A	R	N	M	N	T	V	A	K	L	A	E	M	A	R		
UniRef90_H6MU60	T	G	T	G	R	N	L	R	T	V	R	T	L	V	E	L	A	E		
UniRef90_W7B917	K	I	T	I	R	T	A	N	T	V	R	R	I	A	G	M				
UniRef90_V4P6Y7	D	M	T	A	R	N	L	N	T	V	E	T	L	R	D	M	A	A	E	
UniRef90_K2MJT7	A	M	T	A	R	N	W	R	S	M	L	A	L	Q	E	L	A	R		
UniRef90_R5MVR8	Y	I	T	I	R	T	K	N	T	I	K	K	I	L	E	L	A	N	K	
UniRef90_UPI0003616BA6	S	T	T	T	R	N	L	R	T	V	D	K	V	L						
UniRef90_S9TB95	T	G	T	A	R	N	M	N	T	V	A	T	L	V	A					
UniRef90_Q023J6	P	G	T	A	R	N	W	N	T	V	S	K	L	L	A	L	A	E		
UniRef90_R6XN01	K	I	T	I	R	T	A	N	T	M	K	K	V	L	E	I	K	R		
UniRef90_UPI000375AD63	L	M	T	L	R	S	W	K	T	T	T	K	L	L	E	L	L	Q		
UniRef90_Z4WUS9	T	A	T	T	R	N	R	N	T	L	V	R	L	I	E	L	A	E	K	
UniRef90_UPI000255A808	N	T	T	T	R	N	W	K	T	V	L	K	L	L	E					
UniRef90_R8KM35	P	A	T	L	R	N	W	R	T	V	N	K	L	K	A	L	V	E		
UniRef90_V8CU70	S	G	T	N	R	N	L	N	T	L	R	K	L							
UniRef90_UPI00040299B0	Q	A	T	T	R	N	Y	K	T	M	S	K	L	V	A	L	S	E		
UniRef90_F6BWB5	P	G	T	A	R	N	L	N	T	I	R	K	L	A	E	M	A			
UniRef90_UPI00036D4B8E	T	G	T	A	R	N	M	N	T	V	A	K	L	V	D	M	A	N	E	
UniRef90_UPI00037EE689	Q	T	S	A	R	N	Y	N	T	T	N	K	L	K	Q	T	L	E	E	
UniRef90_R7HGY0	S	I	T	I	R	T	A	N	T	V	K	K	L	L	E	I	K	K		
UniRef90_UPI00036B4290	Q	G	T	A	R	N	L	D	T	V	A	K	L	V	E	L	A			
UniRef90_UPI00046FEAF1	S	A	T	T	R	N	W	K	T	V	L	K	L	L	E	M	V			
UniRef90_Q11IF7	A	M	T	A	R	N	W	R	T	V	L	A	L	R	D	M	A			
UniRef90_W2ULC2	N	A	T	T	R	N	W	K	T	M	G	K	L	L	M	E	M	A	S	E
UniRef90_UPI00047EF079	K	A	T	T	R	N	W	N	T	T	L	K	V	L	E	M	L	E		
UniRef90_A0A059FK04	A	G	T	A	R	N	M	N	T	V	A	K	L	A	D	M	A			
UniRef90_Q0AM52	A	G	T	A	R	N	M	N	T	V	A	K	L	V	E	M	A			
UniRef90_D5BAQ1	E	C	T	T	R	N	W	K	T	C	T	K	L	L	E	M	L	E		
UniRef90_R6ZQ84	Q	L	T	I	R	T	A	N	T	V	K	K	I	I	N	L				
UniRef90_UPI000361109B	M	V	T	L	R	N	A	N	T	T	M	T	L	I	D	L	M	R	E	
UniRef90_UPI00035CEB31	E	G	S	G	R	N	W	N	S	V	T	R	L	L	E	L	A			
UniRef90_UPI0003C7F4E1	A	G	T	A	R	N	L	N	T	V	R	K	L	I	E	L				
UniRef90_UPI00047E1F2F	D	G	T	S	R	N	L	A	T	V	R	K	L	V	Q	L	A			
UniRef90_F4BMB8	Q	V	T	I	R	N	R	N	T	T	L	K	L	S	T	F	L			
UniRef90_UPI00034A8553	I	G	T	M	R	N	L	N	T	V	T	N	L	L	D	M				
UniRef90_UPI00034A36D0	P	V	T	V	R	N	W	N	T	L	N	K	L	V	A	L	A	N	E	
UniRef90_UPI00047B22DA	T	A	T	T	R	N	Y	K	T	C	L	K	I	K	A	L	A	T	K	
UniRef90_UPI00034A36D0	E	V	T	A	R	N	W	R	T	V	L	R	L	V	E	M	A	E		
UniRef90_UPI00047B22DA	K	A	T	S	R	N	Y	K	T	M	R	K	L	V	S	L	V			
UniRef90_M1HSR5	S	T	T	T	R	N	L	R	T	L	A	K	V	L						
UniRef90_UPI00036D6D73	D	M	T	A	R	N	L	N	T	V	R	R	L	A	E	M	L	D		
UniRef90_D0LVR3	T	I	T	A	R	N	W	N	T	V	L	K	L	R	D	M	L	D		
UniRef90_UPI000363253D	V	W	T	T	R	N	L	R	T	V	R	N	L	A	A	M	L			
UniRef90_B7JG7	P	A	T	V	R	N	W	R	T	V	N	K	L	K	A	I	V	E		
UniRef90_UPI00047A23AF	P	T	T	V	R	N	L	N	T	V	A	K	L	V	A	L				
UniRef90_L8TVW8	A	T	T	T	R	N	L	R	T	L	T	K	V	R	D	A	A			
UniRef90_G8X635	L	S	T	I	R	N	F	N	T	V	T	K	L	L	E	M				
UniRef90_A3VDS9	P	A	T	A	R	N	L	N	T	V	T	K	L	A	R	M	V	E		
UniRef90_V5XBW8	Q	I	T	I	R	N	W	K	T	Q	T	L	L	A	L	L	D	E		
UniRef90_F0M5S4	S	T	T	T	R	N	L	R	T	L	V	K	V	R	D	A	A			
UniRef90_UPI000476240F	T	A	T	G	R	N	W	R	T	V	V	R	L	L	D	M	V	R		
UniRef90_F5YV86	S	T	T	T	R	N	L	R	T	L	S	K	V	L						
UniRef90_UPI00046F4BBE	Y	M	T	I	R	N	W	N	T	T	R	L	L	A	L	M	D			
UniRef90_UPI00037EFCB7	L	A	T	V	R	N	W	R	T	V	R	A	I	G	D	L	L			
UniRef90_UPI000380BB64	S	L	T	A	R	N	W	K	T	I	S	K	L	Y	E	L	T	R	E	
UniRef90_X6D686	P	G	T	A	R	N	W	R	S	V										
UniRef90_F6EKT6	P	G	T	A	R	N	I	N	T	V	R	K	L	L	E	L	S	R		
UniRef90_A2TV60	L	A	T	T	R	N	Y	K	T	I	V	K	L	L	A	L	S	N		
UniRef90_K9DWU3	G	T	T	S	R	N	W	R	T	I	T	K	L	H	G	L	C			
UniRef90_D1BU02	A	G	T	A	R	N	L	N	T	V	A	K	L	A	E	L	S	A	E	
UniRef90_UPI000376D237	K	A	T	T	R	N	W	N	T	T	L	K	M	L	E	M	L	E		
UniRef90_UPI000376D237	V	A	T	A	R	N	W	R	S	V	L	A	L	R	D	L				
UniRef90_M7A372	Q	G	T	G	R	N	L	R	T	V	R	T	L	I	T	L	V	E		
UniRef90_D6ZFE3	S	T	T	T	R	N	V	R	T	I	Q	K	A	L	A					
UniRef90_X5L161	S	T	T	T	R	N	L	R	T	L	D	K	V	L						
UniRef90_W4NV46	T	G	T	A	R	N	L	N	T	L	A	K	L	A	E	W	A	S	Q	
UniRef90_G5KEZ5	N	V	T	V	R	N	E	K	T	Y	Q	K	L	I	S	M	L			
UniRef90_E7REK5	R	L	T	V	R	N	V	N	T	V	R	K	L	A	A	L	L			
UniRef90_K0UIT9	S	T	T	T	R	N	L	R	T	I	D	K	V	L						

UniRef90_UPI0002F50C2D S G N L I C V R Q G D P A E F A K T L 60 A A I E S E F G V L S P V V H R T F E 80
UniRef90_UPI00036B06CC S G N V V L S T T D A A L V K Q E C S E K C L R S A A F G Y E A W V V V L D A G R E
UniRef90_F5XTW2 S G N A V V F T P D S K A P S S N A A T L T S A D I S G A A A G Y G V P V V L R T R A E
UniRef90_E8RS77 S G N A V V F T P D S K A E S L P D L T S A D I S G A R F G F T P V C H V L S L D Q
UniRef90_C6WPF8 S G N A I F T T A T A N E T L T V E A E Q S V K D R L G L D I G C L V L T H D D
UniRef90_U5S7G8 S G N L I V D S T A E T E S Q D L V K C Q N T L A S Q Y F A F P V D I V I V S G K K
UniRef90_D0L7C1 S G N L L C T P P G V A S E D F D R A L E K A I E Q K A I E A Q R Y G Y F R E V I S R T P Q Q
UniRef90_F4CVK3 S G N A V L A S A T T P A A K A E A I E E Q A L E A E F G M R I G T V V V R T G P E
UniRef90_W0PJ02 S G N V V F S E L P K A K V K A A I E E K Q L H A Y A G K A V T V I V R T A Q Q
UniRef90_UPI0003B43150 S G N V V F F E T A A Q E T K E T K R K A A I E E T G L R E R F G Y D A W I V L V I E R A D D
UniRef90_UPI000362C742 S G N I V L T S N L D N P R P M L E E K L I A E S F C L Q V P V V V I L M D D
UniRef90_UPI000255CB16 S G N V V F T S G G T S A E L E D A V E Q Q M L E S W L G V P I T V V V L S A E
UniRef90_UPI0004115A02 S G N V F V D T E E S A E V G F I I K Q E I E K Q M L E S F A F G Y D V P T V I V I G I A D
UniRef90_A5KT25 T G N V I F D S S K T A G E L I K P L I E K A L S D R F G Y T A F V L I F P A T I
UniRef90_A3U763 S G N L F F K A P L E N S A G L Q E L I K Q A L K N K Y G W D I P V V I L T P N T
UniRef90_C8X144 S G N A V F F S A P G S N A A L T A I E E Q A M T E Q K K V T A R V V L V R T P T Q
UniRef90_B4UKU7 S G N V L V S S T E R G E P S L L V P R I E A M L S D A F D Y A A S V V V L S R A Q E
UniRef90_R2VEK4 S G N V L F S S D R G T Q E R V L A R R A C E A L I V E A F D L V I P T V V V V E V E
UniRef90_D7B1H6 S G N A V F F S A E G R T P D A V I R R A V R E A V D A E L G L D V P T V V R T A G Q
UniRef90_UPI0003743C8B S G N A I F G T G R E E T D L S P A I A A A L H A E F G F P I A M T L R T A E E
UniRef90_G4R7Z3 S G N V V F V S A P L G S E A A V R K A L E D R L A A Y A G K P V G V L V R T A E E
UniRef90_A0JXY0 S G N V A L A S A L G A A A L K K D V E T C L R L R E S F G Y D A W V V V L T D A R
UniRef90_UPI000414AB9B S G N L I F D S D K S A E E I S S D I H E T I K N D L G P E L P V V V K T V D Q
UniRef90_K2NXD2 S G N A V L T S G D A E A K V D T E K V A Q A V R T H M G F E K A V M V R S L S E H
UniRef90_B8KLY8 S G N V A L G A D H D P S D E I E I A S A F G F E P D V L T L S E E R
UniRef90_UPI0002897BA0 S G N V V F A S D A S G S E L E V E I E R M L R E R L G A D I L A V V R S R D E
UniRef90_UPI000467DD9F S G N V T C T D L G A A D E L K E S V E R L R V T F G Y D A W V V I T E A G R Q
UniRef90_S9R8A8 S G N L V V T A P L G A D E A A M L E A A L Q Q R F G F A V D V I A R T A R Q
UniRef90_X1PZC3 T G N V V L V S D R T P K Q I L A R V A A T A L E K F A F S K S I M I V S K T A
UniRef90_W3AG33 S G N I I F S S H P S S K E L A A I E G I L E N F N L E I R V L V Y S L E Q
UniRef90_H0R3G1 S G N L L Y T P P G D F D F D R K I L E K A I E T N F G Y F R E V I S R T P T Q
UniRef90_I0W236 S G N I F F T S I D S K A Q L V E K L E T F F A V H Y P F I Q S F S L L S L E D
UniRef90_I4X5J1 S G N L V F D Y T H S K E Q L A P D L I H D K I V E S L T F E V P V V L I L T I E K
UniRef90_UPI00035E5F05 S G N A V F F S S G L T D K E I L H D K I V E S L T F E V P V V L I L T I E K
UniRef90_UPI00037D97E9 S G N A V F F S S D D D A L D I A E R I E A T L P A K F A L D S S L I R L T A D Q
UniRef90_K5BGZ0 S G N V L D S P D D A A V V R E R A Q Q A L R A A F S Y D A W V V V D L D T
UniRef90_C1F107 S G N V V F T T K K T G A Q V K A G L E A E L A K A F A G K P V G V I V R T A E
UniRef90_UPI0001FFF4F9 S G N L V F G E P R P P E E H A A A L A A A L A G E F G F A V P V V L V L D A V R
UniRef90_UPI000255B0D9 S G N L V V Q A N M D S E E L S R K I A Q L K T T Y D F D V P V K A Y A P E L
UniRef90_UPI0003B56387 S G N V L F S A P E P A S A L E S S K V E A M L E Q R L G I P L V V I R S R D E
UniRef90_UPI000479FF19 S G N L T C T T A R S A A E L K E A V E S L R S T F G Y D A W V V I L D A N R Q
UniRef90_UPI000361324D S G N I C C C S K L S D T E L S Q K I H D T I K D K I G A D L S V I V R K N P E Q
UniRef90_I4AIA3 S G N V I F D S S D E D I E S I K R A S E E I K K E F N L D I T V L I T E I D N
UniRef90_UPI0004131984 S G N V L J E A P D G D A T T V R Q S A E S T L R N K F G Y E N A W V V V D I E T
UniRef90_A0PMN8 S G N V L J E A P D G D A T T V R Q S A E S T L R N K F G Y E N A W V V V D I E T
UniRef90_UPI0004009802 T G N I V C D S P D D A M A E V K T L V E G C L R M H F G Y E A W V V V L T L I E R
UniRef90_G6CDZ9 S G N V L F E A P E T G T T L A A T C D Q I M V E T F G F S V N I A V V T A D Q
UniRef90_A0A059IIL1 S G N V L F R T T A L P A D A R A A L E S A L R A S Y A G K P F E I V V V R D A R Q
UniRef90_B7WUT8 S G N V V L K A D C S A Q Q L K S A L E S A R R L A S Y A G K P I E V F V R T L Q Q
UniRef90_UPI00040AC1FA T G N I I F S N H Q S K A E L S R L E E A I Y N D F G L Q I K V V R S I E D
UniRef90_UPI00021938EC S G N L L V D S P L A L A E V Q A A V T T L L A T Q Y D F P V A A L V T E K A
UniRef90_A9E137 S G N V V F D S S A K K N E L G D L I A K A I K K Q Y D Y D V P V L V K T I D Q
UniRef90_G7H6G6 S G N L L Y T P P G E P A E F D A L A R E I E A E F G Y Y R E I S R T P D E
UniRef90_J3HP88 T G N V V L K S S G T S E K I T K R I A P I V L J E Q F D F A K E I L A S A A E
UniRef90_W7DG17 S G N V I A E K E Q M N H E F V Q Q V E A L I K K H F D F E V P V V A F K P S E
UniRef90_UPI000370E331 S G N V L F E S G E E K S V L H K R I E A I E S A F G I S V S V I L R M A S E
UniRef90_I4BN45 S G N V L L D S R A G T A A V R K K A E K A L R D E F G Y D A W V L A Y P L D T
UniRef90_A0A023D3V5 S G N V V F Q S H G T E A Q V R S A L E E R L R A Y A G K E I G V V V R T A R E
UniRef90_T1B9T1 S G N A V F A A S G S P E T H G A A I A A I L S E L G V E A P V V V K S A T E
UniRef90_UPI0004189877 S G N V V L A S E L S P A G V K K E F E A C L R E A F G Y D A W V V V L T A E R
UniRef90_A3JMZ4 S G N V V F D T E M D V A S A Q A E M S D M L E V Y A G K A G L F F L T A S Q
UniRef90_UPI000378ECD2 S G N I V F V N D S L P Q E L S G V L S E A A I E A D F G L R I R V L V R S L I E E
UniRef90_R4UJ04 S G N V L L D A D G S P A A T V K E R L Q Q V L G E R F G Y E A W V L V Y D L D T
UniRef90_J2PAH8 S G N V L W G R D G S D A D I E Q R L E D G L E K R M G L R T E F F V R T P A E
UniRef90_F4H446 S G N V V L V P G G S A A D V A T G L S R A L H E E L G F D V P V V T R T A A E
UniRef90_R2P6Q8 S G N L L F S S D Q A S E F S E T V T A A F T E R F G F S V P I I Y R T K D E
UniRef90_V6M843 S G N I I F T T H S K N D I A Q L I T K A I L N T F G L D I K V L V L S L E D
UniRef90_D8D8F9 S G N V V L D A D C T E Q Q L K S A L E R R L A S Y A G K P V D V I V R T A R E
UniRef90_I2ERB0 T G N V V F E S D K N T S E I K I L L E K V L S E T F H Y Q V F V L L Y A Y D T
UniRef90_UPI00047C856D S G N V V C T S G L T A D E L K S H S E Q L R E R F G Y D A W V V V L F R T
UniRef90_W4BE85 S G N I I F A D H Q E R A N A N A E I E Q A I A A D F G L Q I R V M V R N M D E
UniRef90_UPI0003B30F2A S G N L V F E S E K N A D E A C C E L I E Q K L E S Y G G K P V G V I M R S A A D
UniRef90_R5FW68 S G N V I F E S H T D N D K L C E D I K Q I I F N K F G L N I P V F I L N Y L E
UniRef90_J4VLR7 S G N L L L R S D L S K Q A L S Q R I H D L I F E K Y G A D L A A L V F F P E E
UniRef90_I5C7E8 S G N A V L T A T S G E E D V R R R I A D L A K T R M G F Q K A I M V R S L D E
UniRef90_R4PK76 S G N V I F E S L K K L N V S A I Q N T L L S A F G F E L P L L I L D A N N
UniRef90_V7GLV0 S G N V V F R T K G D A A T L A K Q I E M A F E K K W G F H S R I M V R D L S W
UniRef90_J7Q3M0 S G N V V F E A K S S R R V K S E L E A R L L A Y A G K P V A V E V R T A D A E
UniRef90_UPI000361D506 T G N L V F E A D R V I P L E R D L E T S F A R K F G K H V D I I V R D A A S E
UniRef90_UPI00046547B4 S G N V V F E T R K S E A A I K A A L E K R L E T Y A G K P V G V L V R S G A E
UniRef90_UPI00036D0D2B S G N V V L T S D R K T E E I A A Q I E A A L P K A F D L D S E L V L T R D Q
UniRef90_UPI000475CB1D S G N V V F N S G R S A E V K A A I E A A M L A Y A G A P V R V L V R T A A E
UniRef90_UPI00037C95EA S G N V V F D A D A T D P V Q A A H I E E A L V L R L G V A A R V F V L A H D E
UniRef90_E6TN18 S G N V A F E S G R R R A S L E S D I E T L L A D R L Q S P P V V V R S H A E
UniRef90_A5PB89 S G N V I L A S E E T E D A L C K G I A A L I E E D F G L A G F V V V R T L Q Q
UniRef90_UPI0002F01BB2 S G N A V F G A P R D R A A L A R E L A A A L E S R F G F P V D T L V L A A E
UniRef90_UPI000422E537 S G N V F V D T E E S A K S V G F M I K Q E I F K V F G H V E P T I V I T K E D
UniRef90_E0RJ57 S G N I I F S T E Q S N Q E L S L I E Q Q A I L E D F S L P I R V I V R N M K E
UniRef90_L7LCP0 S G N L L C R P P G P G F D R A L E E A I G A E F G F S R E V I S R T A D E
UniRef90_M5PIH1 S G N L F F S S L E S Q D A F L Q V M L E S Y F K N N Y S F D I P F L L S Q T A
UniRef90_UPI00041E1E59 S G N L L C T P P G D P D R F Q R S L E R A I A D E F G F R E A V S R T P A E
UniRef90_A0A011USK5 S G N A V L A S E T G K A Q T Q E L V A E V V R N D L G F E K D I M L V S R S E

UniRef90_UPI0002F50C2D L S A V L A A D P L R D I A T D D K L Y Q V H F C D R P V P E L D L J A A L P I H
UniRef90_UPI00036B06CC V A Q L V D G C P Y P D D D R S T H T Y I T L S S D T A V L D E L E A A G S A L
UniRef90_F5XTW2 L A A V V D A N P Y P P E G T D G G A H K H Q V F F A D E G P A G P F A A L A D L A P
UniRef90_E8RS77 L V R A A R Q A C T F V P V E G T D G G A H K H Q V F F A D E G P A G P F A A L A D L A P
UniRef90_C6WPF8 L T A L I A A N P L P E A E S E D P S R F L V T F L S G S P V D P T L F A A I A D A P T
UniRef90_U5S7G8 Y Q M E L A G S P T F W W G E D A D Y K H N L F L L P S G T A N K K E I V G L L A S A I
UniRef90_D0L7C1 L A K A L E A S H P F E V V V E D A D F S Y V H F L T G T P T S D R S Q A L A A T
UniRef90_F4CVK3 L D A V I A A H P L A D V A D N G S R M M A L F L S A D P D P A A L J A A F D P V
UniRef90_W0PJ02 M S D L L N A N P F T Q H P E R N R T L V I F L D E A P P A D A I S N A R
UniRef90_UPI0003B43150 L A S V V D G F P Y E E V E E R Q R P Y V V F S S D P I A A T A E I A E F L D P S
UniRef90_UPI000362C742 L K S I L S N A P E W W D S G D K D K Y L I F T L S G D S P Q E I C D L V G Q P
UniRef90_UPI000255CB16 L D A V V E A A P E D H G A E H L R S D V L F L K R P L T P D S E N A L D E F P L
UniRef90_UPI0004115A02 L Q N C F K N N P Y L K E K A D A D K K L Y V A F V S K E L R S E N I N D L K I S
UniRef90_A5KT25 L K K V I N H Y P F A P T E H E H R Y V I F C V R K S V I D E L I S Y Q Y K L
UniRef90_A3U763 L D K L V K S S P F P R A T N D Q L E K S Y F C F Y Q S K T P S A E N V T S L N K Q
UniRef90_C8X144 L A A A I E A D P F G P R N D D G S K H F L G F L D D D T P S A A V P E L A D D A
UniRef90_B4UKU7 L R R V V E H A P D G F G T R E P E R F R Y I F L K A P L S P A Q A L E R V P V N
UniRef90_R2VEK4 L R R L L E E A P E W W D Q E E T H Y V I F M I P P M T V S Q V F E A V G E I
UniRef90_D7B1H6 L R A V A E A N P L P V P D P A K F L V L F C S G A V D A G L A A L D P S
UniRef90_UPI0003743C8B W Q A L S S P Y P A P G K Q T H I A F L S S L P E P E R V L A L Q A Q D
UniRef90_G4R7Z3 M T A V L K D N P P A A K P N F T V A I F L D E R P E K A A L D S V R N R
UniRef90_A0JXY0 L A A L V E A C P Y P A E D K T T H T Y V T L S S D T A V L D E L F E A G S R
UniRef90_UPI000414AB9B L Q M I A D H N P Y K E E K Y R N S V V Y I A T S M S Q I D T E K Q G E I Q A L
UniRef90_K2NXD2 W Q A M I D G N P F D D A E A A P T T V H V F T M E H A V N A E A Q Q V L A A K
UniRef90_B8KLY8 F S V A L A A N N P F D A G N M V H I Y F C T T S P K V D A K K S L L A A S
UniRef90_UPI0002897BA0 F A A T V A A A P F S N H G S A E L L S D V L F L K R P L T A A E A L I L V P E L
UniRef90_UPI000467DD9F L R E L V A A C P F P A D D P A N H I Y L T L C S D P P A L A D L V E A S A
UniRef90_S9R8A8 W A Y A A G S P F P D A A E K Q N L H L H L A L S K Q K P R P G A V A A L R E R K
UniRef90_X1PZC3 W K K L I A G N P F P D G E G N K L H A Y V L E K H P D R E A V E A L R E R K
UniRef90_W3AG33 Y E K L A Q A P P H W T N D E M K S D V L F L W E E I D R E S L V E E V G T K R
UniRef90_HOR3G1 L S Q A L T A H P F K V I E A K F S Y L Y A L A G T P E A K A V K E F E A R
UniRef90_I0W236 F E A E L K N L P A W W N R D L A R K D F L F Y T E G L D V D Q V I A T V E S L
UniRef90_I4X5J1 F G E T A E A L P E K W S N G A R M K D V L F L W Q N V D G A D V L D G L V I K
UniRef90_UPI00035E5F05 L R S I I E N N P F L K E L H D K E F L Y Y T F L S N K P T G V N F E K I D A Y
UniRef90_UPI00037D97E9 V R A V V D Q A P T F G F G K D E K Y R F D V V Y L L D I S S E E A L L E K T P T
UniRef90_K5BGZ0 V R A V S A A Y P F F E R E V A G H S Y V T F V A D E Q V L D E L A A L A A E
UniRef90_C1F107 M A G V L A A N P F H E R G K P G N W S V A I F L D E P P T D A A L D T V T
UniRef90_UPI0001FFF4F9 L R A A L T A N P Y P D G T F Q G S R L Q F V F L S G P A D P A R F A D L D P A
UniRef90_UPI000255B0D9 L Q K L I E N N P F K G E Q E V S K L Y Y V L P F A N I D I E R K K I F E K E
UniRef90_UPI0003B56387 L A Q T I E D A P A D H G S P K L R S D V I F L K H P L T T E Q A F A E L P E L
UniRef90_UPI000479FF19 L R V L V D A C P F P T D D S T T H T Y I T L F S D P A A L A D L V D A V E K A
UniRef90_UPI000361324D L A K A V H E N P F L D D S Y D F S R I L H L V F T N D A I S S K I A E L L N R
UniRef90_I4AIA3 L H I Q S L N P F I Q S E K E E N N L H L T F L E S I P M A E N I E K K E I E
UniRef90_UPI0004131984 L I D V I D N I P L E L Q E I D K D Y I I F V I P P T S T E E I F E A L K S K
UniRef90_A0PMN8 V R T I N E A Y P F E R E V D G L Q S Y V T F V S D D S V L D E L A A L A T
UniRef90_UPI0004009802 V N E F I A A S P Y P A D S K E F H S Y V T L S S D P A V L D E L Y R L A G G E
UniRef90_G6CDZ9 L T Q A V A D A P T W W G N M P D V K H L I V A I A P K T G A E L S V H V G A I
UniRef90_A0A059IIL1 L R D A I R A N P F K A A S P S K V A V L F L D E A P P A D V I A T A K G R
UniRef90_B7WUT8 M K Q V L E A N P F P Q S P G N R A V A I F L E E A P P A D A L S Q V T G R
UniRef90_UPI00040AC1FA I T R I C N A I P D T W K N D K D M K D V M F L W E E I D E E S V L E K L V I K
UniRef90_UPI00021938EC Y L T D L A Q V P E W W G A V G D L R H N A L F F L P T F T A M L E S L R Q K
UniRef90_A9E137 W K T A I A N N P F T E T D I L S K Q G I T F L A T T P E E T T I E I
UniRef90_G7H6G6 L A A A L A A H P F E V V E P K F S Y V Y P L T G V P T P D D A D A L A E R
UniRef90_J3HP88 W N R L V A E N P F P D A V T T P T K L H A Y L M K Q R P D D K A I E A L R A K
UniRef90_W7DG17 Y E E V L R Q N P F G E E K V M V H F L D K L P K E S A V M D K L E L N A S
UniRef90_UPI000370E331 L R S I A E R C P F T E E E L A K E S L Y V S I L Q E E L P V E Q V E K L Q A T
UniRef90_I4BN45 I A E I S A A Y P F E R E V E G H S Y V T F V S D G D V L R E L A A L A G Q
UniRef90_A0A023D3V5 I A D V A A R N P F V D A P G N R V M A L F V D A P L P D D P L D G V T G I
UniRef90_T1B9T1 L A A I I S E N P L A K G A P D H S R L L V A F V Q D S K A L S S L I A I E A L
UniRef90_UPI0004189877 V G D L V A A C P F P A D D K S T H T Y I T L L G S D T E V L A E L Y E A G R A L
UniRef90_A3JMZ4 L E Q I L A E N P F A D K A G N T S T L F L G R A I A D D I Q D L R G Q
UniRef90_UPI000378ECD2 M E T I A G M L P D E W S N D G Q M K S D V F L W D E V E E A A V P S A L P L
UniRef90_R4UJ04 I A R I A A A F P W P E T E G V H S Y V M F C S D P V V L A E L A A L E S E
UniRef90_J2PAH8 L K A I I D A N P Y P D E V E K S H P N H L L V H F M K G P L D D E A T L R A A
UniRef90_F4H446 W D R L V G V L P F A A Q A R E D P T H V V V C W D G V P D V A S V R S F D A S
UniRef90_R2P6Q8 L F S L I E N L P F T A E E T N V E H L Y V Y F S S S E M V P Q E L S E I G
UniRef90_V6M843 M K K V M S S L P E S W T N D K M S D V L F L W E D I N D E S I L D S E L T F
UniRef90_D8D8F9 M T E V L A N N P F P E S P G N R T V A I F L D E A P P A D T L T Q I K G R K
UniRef90_I2ERB0 L A E I V A N Y P F E Q N E A S H A Y V I E V E G E A V S N E L L S I A E N V
UniRef90_UPI00047C856D L E G I V A Q C S F P P D P A T H Y I T L F S D P A A L D E M L S E F A R
UniRef90_W4BE85 I H S V I Q A L P E E W V N D D A K S D V M F L W D E I N D S V L D Q L P I K
UniRef90_UPI0003B30F2A V K A I C E N N P F P D A P G N K V I A L L L P N A A T P A D T A N A K H Q S
UniRef90_R5FW68 L T D L D N K P N W L D L T D K N I L I L F L I R P T I T K D V Y D S L S G K P
UniRef90_J4VLR7 I Q A W I D A L P F S P E L D P S R V F F T M T M A C P T A D R L Q E L S E K T
UniRef90_I5C7E8 W E A M I A G N P F P Q A E N A P T Q K V H V Y A M E R E P E L E R V I Q A L K A L
UniRef90_R4PK76 I C R I A E A I P E G W Q N D T Q K S D V A Y L F P A V D E A T I T M K L S C
UniRef90_V7GLV0 F E R L V K E N P Y P E V A G D P T K L H A Y T L E R Q P T A D E I A R L A E K
UniRef90_J7Q3M0 M Q A V L D R N P F P E K P V N F T V A I F L D D P P P D A L D R A K
UniRef90_UPI000361D506 W T K L V A A N P F P E D A E R E P D Q V V R V M R K P V T P D I I D R L R S Y
UniRef90_UPI00046547B4 M A R V A A D N P F P K A K P N Y T V A I F L D H A P P A D A L A S V R G R Q
UniRef90_UPI00036D0D2B L Q A V V D S R P K G F G D P D K Y H N D A L F L M G I E A E A E M P V F N P
UniRef90_UPI000475CB1D M D E V V A S N P F P D A A P N R T V A I F L D A A P A S A A L T A V T
UniRef90_UPI00037C95EA L A D I V A D N P L L P L A N D H A R L F A F T L H G E A P R Q L V E S L C A K
UniRef90_E6TN18 M R A L V E A N P F V A R T V D H R D V V L L K Q P L T A D R A L L E V I Q V R
UniRef90_A5PB89 V R S A I E D N P F H G E G S D K M V H T V L L A H A P V E G F D A L L E E H
UniRef90_UPI0002F01BB2 L R A V A A R C P Y D T A A L D P A K L L V F F L D G A P D R A A L A R L D A D
UniRef90_UPI000422E537 L E L C F K N S P Y L K E K D L D T K Y V A F V A T E L K K E N I N D L K T S Q
UniRef90_E0RJ57 I Q S I I E A L P N E W S N D T L M K D V M F L W D E I N G I S V L D K L P L K
UniRef90_L7LCP0 L A Q A L S A Y P F P D F T D T P H G H I C F L T A P D P D N I A A F T G R D
UniRef90_M5PIH1 Y Q K E F E A L P E W W Q E D Y F R K N A L F L P N T K N E D I A D N F L E I A
UniRef90_UPI00041E1E59 L R D A L A A Y P F G E A P R H G H I C F L T G E P D P D A E E F A T D
UniRef90_A0A011USK5 W Q R T I D D N P F P E A A G R P T T L H V F V L R D T P G Q E S V I A I L K S R

UniRef90_UPI0002F50C2D D D E R L V V D G S E I Y W Y G S D K G H A S K L P V A L G K Q L P G M
UniRef90_UPI00036B06CC E S Q D D Q Q R L G P E A L Y A W L A P A G G T L D S P F S K I S A K T K F K A
UniRef90_F5XTW2 A F L Q E A C T L A G R D L Y L Y L P K G M G R L P T A L E K A G R R T F G A P V
UniRef90_E8RS77 A T Q F G E A F T H M A G K G V F Y L Y T P Q G F G K S V V A E K L P R F L K A
UniRef90_C6WPF8 T H L P D R F A A G E R A I Y Q W S P E G V R N S K L T H T Y L A K K L N V
UniRef90_U5S7G8 D T T Y E K V Y I G K H A I F W S S A F K N N Y S K T Y Y S K L A H Q S F Y K
UniRef90_D0L7C1 T F D D A Q L K V I G K D D L H I R Y A Q G A G Q S K L T A T I A K A L G V
UniRef90_F4CVK3 E L D P D R V R I G D R V V Y Q W C P D G V L K A P D I A T P M A R K W G V
UniRef90_W0PJ02 D L K D E Q I S L G K R E I Y V A Y G D D M G R S K L K L P A A A
UniRef90_UPI0003B43150 A D P A E R A E S V G G D A I V Y W E V P K G H S L D T A L A K F L A K P R F K A
UniRef90_UPI000362C742 S Q N L E K I E V F E N V I F W T F D R K A Y R K H W W K K T A S P G I A E
UniRef90_UPI000255CB16 R E G V D G A A P G P G V V Y F S R V A A Q A S K S R L T R L V I G T P L Y Q
UniRef90_UPI0004115A02 Q F K P D V A A L D Q N R I F I K Y A V G A G K T R L D Q K Y I E K K L N L
UniRef90_A5KT25 D H T L I E A I A P G D A V I Y W K V P K D R S T D T P F S K V L A K P K Y K E
UniRef90_A3U763 Q F I D E H F V A T S T C H V Y I L V Y E K G A G R A K L T T N K M E S T L N V
UniRef90_C8X144 D T A P D E A R F A A G P N G I S K S T L W K V N W D K A L G T
UniRef90_B4UKU7 P E V D E V T A G P G V L Y Y S R L I P K A S Q S R M S R V V I G M P I Y K
UniRef90_R2VEK4 K P E Y E K I A H S G N V I F W S A P R K T F N K A R W S K I A S S S V N P
UniRef90_D7B1H6 A H P R E R M A V V G D Q V Y T H H E L G L R H A R L P D L V A S R H V D G
UniRef90_UPI0003743C8B F A P D L W T L S G R D L H L Y Y P G G T Q A A R L T H A L L E R R L G I
UniRef90_G4R7Z3 A E D E E I A L G K R E L Y V S Y G S G M G R S K L V I P A A K
UniRef90_A0JXY0 L D G T Q Q R L G P E A M A W L A P A G G T L D S P F S R L S S K A R Y K S
UniRef90_UPI000414AB9B S K E G E Y I T F T E E A T Y Y L S N G M H N A K I N N N F L E K K L G I
UniRef90_K2NXD2 A T G T E R F W V E G R T L Y L H T P D G M G R S L F A P K I E P T L K T
UniRef90_B8KLY8 E N Y A L K G D V F Y L H A P D G I G R S K L V I A R I E S C L G V
UniRef90_UPI0002897BA0 N E Q V D S V S V G P D A L Y F S R T V V D S A K S R I L D R L R A N R L S K
UniRef90_UPI000467DD9F G L J E P G L T V L G P E A A A W W A P R G G T L E S P L S K L T A K P R F K N
UniRef90_S9R8A8 A S A G E L I E A A G D A L W V L Y S N G V A G T K L G P A V L D K A V G S
UniRef90_X1PZC3 N T G P E Q F A I D G I V L Y Y P P Q G A P E S K L F S K I E T T L K V
UniRef90_W3AG33 H D I D Q Q L E Y V P G A L L W A V A D R Q L V T R S G M M K L A G S A L Y K
UniRef90_HOR3G1 E F P T E V R V I G D N L H I R Y A D G A G Q S K L T A S V I A R G L G V
UniRef90_I0W236 E L K D E V L Y F G K L G I F W G N F L K K P T L K L P I T R
UniRef90_I4X5J1 S E I L D R V N Y P A G A I L W S V D K D Q V T K S G M V K I V G S N L Y K
UniRef90_UPI00035E5F05 K A E D E Q Y F M T A D V V Y L Y C P S G Y G K T K L T N N F L E N K L N V
UniRef90_UPI00037D9E9 N P E V D T A W A G P G A L Y R R L S A L A T K S R L G R V V G T P I Y A
UniRef90_K5BGZ0 A G N P D E K I A R G D G V I Y W Q V P R Q A T L D S V I G R T M G R K R Y K A
UniRef90_C1F107 H R N R E E L A L G R R E I Y V F Y A D G I G D A K L K I P A G K
UniRef90_UPI0001FFF4F9 A H A P D D Y R I G D R V L Y L H T P D G L S R S A L A T E L L R S A R L P G L
UniRef90_UPI000255B0D9 T F A N E D F I T D S C H Y L K C N A G Y G K A K L N N L V M E K K L K L
UniRef90_UPI0003B56387 R D G V D A V A R G P G A L Y F S R V A A Q A T K T R I Q N K L M A M P L I F Q
UniRef90_UPI000479FF19 N T P D D F L V L G P E A A A W L A P A R G G T L E S P L S K L T A K P R F K N
UniRef90_UPI000361324D D F G D E F L H Q G S Q C L Y M Y L P G E A K K K K L N T N F L E K K L G T
UniRef90_I4AIA3 S K T T D K E I I E N N I F I F C N D K Y H T S K L T N N F F E K K L K T
UniRef90_UPI0004131984 V T E H E S M Y V Y K N V F Y W R A K L S A F Q K T V L S K F A S S K V N N
UniRef90_A0PMN8 T G A N E K I H R G D G V I Y W Q V P K G A T L D S T I G R T M G K K R Y K A
UniRef90_UPI0004009802 Q N Q N Q T R L G P E A I A W Q V R V G E T L D S P I N K L S N K P K F K K
UniRef90_G6CDZ9 K P A Y E K V A V N G P F I F W S A P V K T F G R T R W S T V A K G D L Y Q
UniRef90_A0A059IIL1 R N D E E I G L G P R E V F I H Y P S G M G R S R L W L A G M E
UniRef90_B7WUT8 N D E Q L Q L G R R E I Y V A Y G S G M G N S R L K P A A A
UniRef90_UPI00040AC1FA P N I D T V K Y V P G A I L W S V A K K N V T K S G M A K I V G T K I Y K
UniRef90_UPI00021938EC I T T Y D Q I H Y G Q H A L F W T A P A K Q N Y S R S L Y A K L L P M A L Y S
UniRef90_A9E137 D S K D D R F K I I N S E I Y L D C P G G F G R T K L T N N F F E R K L Y T
UniRef90_G7H6G6 A A A T E H V A V I G A D L H I R Y D D G A A G T K L T P A V I K R T L G H
UniRef90_J3HP88 A D G P D E F E I R G R V L Y Y H T P Q G I S N A R L L F P K I E R T L G V
UniRef90_W7DG17 S P D Q A A I V G R F L Y V S L K A G V S D S V Y S N K F V E K V L Q V
UniRef90_UPI000370E331 D F G E D K Y V I L G K E I Y L L Y S N S R N S K L S S R K L G V
UniRef90_I4BN45 P G P D E K I S P G S G V L Y W Q V P R S A T L A S A V G K T M G K K R Y K S
UniRef90_A0A023D3V5 G N E Q L R L G T R E F F V F Y P D G M A D T R L R I P G G R
UniRef90_T1B9T1 V K P P E R F S V G K H A A Y L L C A S G L L E S K A G E A L I G K A G K
UniRef90_UPI0004189877 D G A Q V T L G P E A L V A W L A P A G G T L D S P F S K L S S K P K Y K A
UniRef90_A3JMZ4 T D E V T R L G S Q A I Y C H Y P S G M G R S K L K I K A S D
UniRef90_UPI000378ECD2 T P G I G T L L F A P H A V L F A V D R A D A G R S G M N K L I G S K L Y A
UniRef90_R4UJ04 L D E S E Q I A A G D G V L Y W Q V P K S Q T L G S P V G K T T G K K R Y K S
UniRef90_J2PAH8 I T G P E T F A G T R E L Y V D Y P D D V G H S M L R D W K T K R A P L G
UniRef90_F4H446 R Y G E E V V V W H G T E A Y V H Y P T G Q G R S R L T L D V L S R A A G R
UniRef90_R2P6Q8 E R A L V K S K D I Y L T D R S I R F S K L T P K L N K L T D
UniRef90_V6M843 K P E I E T V K Y A P G A I L W A I D K I N V T K G S M T K L I G T K L Y K
UniRef90_D8D8F9 D E Q L Q L G R R E I Y V A Y G A G M G S S K L R P A A A
UniRef90_I2ERB0 T E E I S G G N T V I Y W K V P K G E S L T T P F A K I T A K A K Y K S
UniRef90_UPI00047C856D S A G E P V Q A L D S T A L V W Q A P K G G T L D S P L N A F S N R A R I R S
UniRef90_W4BE85 P E I G T L I Y V P G A I L Y S V S R E D A S K S G M N K L V I G S K V Y A
UniRef90_UPI0003B0F2A D E Q I I A S D R E I Y V H Y A S G Q G R S R L K L E A Q D
UniRef90_R5FW68 S D A I E K I M E Y N N F I Y W S F D L K N Y R K A N W W V K T A S T S I K D
UniRef90_J4VLR7 W G E E A A L H L T E R C A Y I Y S P K G Y K N T R L T N N A L E R Y L R V
UniRef90_I5C7E8 A T G T E E F R I N G R T L Y L Y T P D G M G Q S R F A P R M E R T L K L
UniRef90_R4PK76 N A D I E T A V Y I N G E G A L L Y S V D E R K N Q H R S S L L R A V I G T P L Y Q
UniRef90_V7GLV0 C T G P E S F E V R D D V L Y L K A P D G L G K S V F A N L I P R V L K V
UniRef90_J7Q3M0 G K A D E E M R L G S R E I Y V H Y G S A G M G R S K L K L P A A M
UniRef90_UPI000361D506 V A P D E K L A A V N G D I W L H Y F S R S A G T S R L L G A L T P K R A G G E
UniRef90_UPI00046547B4 D E E I R L G L R E I Y V H Y P Q G M G R S K L A I A A A E
UniRef90_UPI00036D0D2B R E G V D R V W P G D G V Y S E R L S A Q R T K S R L S S M M T S P L Y K
UniRef90_UPI000475CB1D G K K N E V L A L G K R E I Y V H Y G D G M A D S K L K I P A A A
UniRef90_UPI00037C95EA E W G R E A L A L G R R A A Y V W C P E G V L D S A A A A A L G K Q L G D
UniRef90_E6TN18 D G V G D E V W P G P G V V Y F T R V S A E R T R S M M N R I V G K P E Y R
UniRef90_A5PB89 R G G G E R L A L G D R A L Y V D Y V H G V G V S D L T G R F I E K R L G C
UniRef90_UPI0002F01BB2 R Y A P G T F K A G E R E V A Y F P D G M G R S R L A D A L T G A L R G H
UniRef90_UPI000422E537 F K P D E A S I D G N R I F I K Y A V G A G K T R L E G K Y I E K K L N V
UniRef90_E0RJ57 P G I G H V I Y T D G A V L Y S V S K E Q V T K S G L T K L V T G T K L Y Q
UniRef90_L7LCP0 F G A G E R L A V I G R Q L H L D Y P S G V I G T S K L T A P V I A T G L G V
UniRef90_M5PIH1 N F Q G D E L I H I G E F A I Y W L T K K E G A Y P Q S F Y H T K F I K T K L Y K
UniRef90_UPI00041E1E59 F G G G E R L R V I G R D H I D Y P D G A A P T R V T P A R I S R G L G V
UniRef90_A0A011USK5 A V G E G V H V S G N I L Y L H V P D G F S A S R L P P M I D R T L K T

UniRef90_UPI0002F50C2D T I T A R N M R T V R K V A E L L D
UniRef90_UPI00036B06CC A T T T R N N L R T L I K V R D A A
UniRef90_F5XTW2 V G T A R N N W N T A L K L L D L L A
UniRef90_E8RS77 E M T A R N N L R T V D S L I E L A
UniRef90_C6WPF8 R A T A R N N W N T V L A L R D
UniRef90_U5S7G8 K V T I R N R N T T H K L L N Y L E
UniRef90_D0L7C1 Q G T G R N L R T V S K L I E L A
UniRef90_F4CVK3 T V T G R N W N T V T K L A V M L
UniRef90_W0PJ02 N G T A R N N M N T V V K L A S M L
UniRef90_UPI0003B43150 A T T T R N N L R T L R K L L L
UniRef90_UPI000362C742 K L T I R T A N T V K R V L
UniRef90_UPI000255CB16 R M T V R N W R T T T R L Q E L V R
UniRef90_UPI0004115A02 T A T I R N W N S V T N L L K M Y E E
UniRef90_A5KT25 T T T N R N L N T L E K M V
UniRef90_A3U763 S I T A R N Y K T V S K L L T L S K
UniRef90_C8X144 A V T L R N W N T A T K L A E L A
UniRef90_B4UKU7 Q M T I R N W N T T T R L H E L M G E
UniRef90_R2VEK4 H V T I R N A N T V N K L L H L
UniRef90_D7B1H6 T V T G R N W R T V L R L L E M A E
UniRef90_UPI0003743C8B N A T V R N W Q T V E A L R Q R L E E
UniRef90_G4R7Z3 A G T A R N N M N T L A K L A E M A
UniRef90_A0JXY0 T T T T R N N L R T M I K V R D A T K
UniRef90_UPI000414AB9B T L T T R N Q N T I E K I I
UniRef90_K2NXD2 A M T A R N W R S M L A L A K L A R
UniRef90_B8KLY8 S A T G R N L N T V S K I Q L M L D
UniRef90_UPI0002897BA0 R M T V R N W R T T L K L R D L L E Q
UniRef90_UPI000467DD9F S T T T R N N L R T L Q K V L A
UniRef90_S9R8A8 P V T A R N W R T V L K L H E L V K
UniRef90_X1PZC3 A A T A R N W N T V L K L G Q L A E Q
UniRef90_W3AG33 R M T V R N V N T A R K I Y E L M K E
UniRef90_H0R3G1 Q G T G R N L N T V A K L I E L A E
UniRef90_I0W236
UniRef90_I4X5J1 R V T V R N I N T V R K I W A L L Q K
UniRef90_UPI00035E5F05 S A T T R N N H N T S I A L L Q L A
UniRef90_UPI00037D97E9 N M T I R N W N T A T K L V E L V D
UniRef90_K5BGZ0 S T T T R N N L R T L E K V L
UniRef90_C1F107 N G T M R N M N T I A K L A E M G R
UniRef90_UPI0001FFF4F9 F T T T R T W N T V R K L L A L A E Q
UniRef90_UPI000255B0D9 V A T T R N D K T M H K M L E L A N
UniRef90_UPI0003B56387 Q M T M R N W R T C T T L L T K L D E
UniRef90_UPI000479FF19 S T T T R N P R T L H K F L A A L D
UniRef90_UPI000361324D V A T M R K L S V V D K L S E L G K
UniRef90_I4AIA3 K A T T R N W K T I K K L G E L I S K
UniRef90_UPI0004131984 L V T I R T I N T A K K I L E V H K K
UniRef90_A0PMN8 S T T T R N N L R T L D K V L
UniRef90_UPI0004009802 A T T T R N N L R T L H K V A D
UniRef90_G6CDZ9 W L T I R N A N T A R K L V I A L A Q
UniRef90_A0A059IIL1 T G T A R N L N S V T R L A E M A K E
UniRef90_B7WUT8 S G T A R N L N T I A K L V E M
UniRef90_UPI00040AC1FA Q M T V R N V N T T R K I Y E L M Q
UniRef90_UPI00021938EC A V T I R N R N T A L K L A M L L Q K
UniRef90_A9E137 Q A T T R N W K T I Y K L L D L A E
UniRef90_G7H6G6 T G T G R N L N T V A K L I E L A R
UniRef90_J3HP88 A A T A R N W N S V L K L Q A L A
UniRef90_W7DG17 R A T A R N W N T V L K M S E K L N
UniRef90_UPI000370E331 P A T V R N F K T L H K L T D L A D
UniRef90_I4BN45 S T T T R N N L R T L D K V L
UniRef90_A0A023D3V5 H G T A R N M N T V G K L A E M A
UniRef90_T1B9T1 A A T T R N W A T V L K L Q A L A
UniRef90_UPI0004189877 S T T T R N N L R T M I K V R D A A
UniRef90_A3JMZ4 Y G T V R N M N T V A K L V S M A H Q
UniRef90_UPI000378ECD2 Q M T V R N V N T T R K L L K L M R E
UniRef90_R4UJ04
UniRef90_J2PAH8 T A R N W N T V L K L A A M V
UniRef90_F4H446 V G T A R N W R T V L A L Q E M A R E
UniRef90_R2P6Q8 E L T A R N W K T V I K L A A L L K E
UniRef90_V6M843 Q M T I R N V N T T R K I Y E L M
UniRef90_D8D8F9 Q G T A R N I N T I A Q L V E M A
UniRef90_I2ERB0 T T T V R N I N T L E K M L K
UniRef90_UPI00047C856D T T T T R N L R T V L K V L A A L R E
UniRef90_W4BE85 Y M T V R N V N T T R K I Y A L M Q
UniRef90_UPI0003B30F2A R G T A R N M N T L S K V Y S L A
UniRef90_R5FW68 K I T I R M V N T I S K L L E L C K K
UniRef90_J4VLR7 T C T T R N L N T I R R L L S L S R
UniRef90_I5C7E8 E M T G R N W R S M L A L R R L A R
UniRef90_R4PK76 Q M T I R N V N T A R K L A E L V Q
UniRef90_V7GLV0
UniRef90_J7Q3M0 P G T A R N
UniRef90_UPI000361D506 H G T A R N M R T I A T L V D M M R E
UniRef90_UPI00046547B4 V G T S R N W N T V R R L G D M V
UniRef90_UPI00036D0D2B T G T A R N M N T V A T L A R M A
UniRef90_UPI000475CB1D S M T I R S W N T T V K L L E M L N
UniRef90_UPI00037C95EA E G T A R N I N T I T K L A M A A E
UniRef90_E6TN18 G T T S R N W N T L L K L H G L C
UniRef90_A5PB89 L M T I R N W A T T S Q M L S I L D
UniRef90_UPI0002F01BB2 R G T A R N M T S L K R I L G K M E
UniRef90_UPI000422E537 L A T A R N W R T V T K L R E L A G E
UniRef90_E0RJ57 I V T M R N W N T L T N L L T M
UniRef90_L7LCP0 Q M T V R N V N T T R K L M Q M A E Q
UniRef90_M5PIH1 P G T A R N L R T V T T L I A L A R
UniRef90_UPI00041E1E59 L V S I R N F K T A Y Y L A
UniRef90_A0A011USK5 T G T S R N L R T V A T L I D R A
A S T A R N W R T V L A L G K M A S E

UniRef90_UPI0003788551
UniRef90_UPI00047266F7
UniRef90_K2GY29
UniRef90_C1ACH4
UniRef90_N1WIQ5
UniRef90_UPI000360C386
UniRef90_W7GCZ7
UniRef90_C8S0V8
UniRef90_UPI00037FC2BD
UniRef90_G7CGE1
UniRef90_UPI00037C4E09
UniRef90_J8SGK3
UniRef90_UPI0003B35198
UniRef90_W0LEN1
UniRef90_T5KRL5
UniRef90_UPI00040F6E31
UniRef90_A7I4B2
UniRef90_W7CPL0
UniRef90_M3UJH4
UniRef90_R5SZ12
UniRef90_U2IWC3
UniRef90_UPI00035D5858
UniRef90_UPI000465F67B
UniRef90_S1NL92
UniRef90_A3JYQ7
UniRef90_UPI000463F66C
UniRef90_L8K542
UniRef90_E6WPR0
UniRef90_UPI00038FD3AD
UniRef90_UPI00045E6207
UniRef90_UPI00034DF942
UniRef90_J4XCN1
UniRef90_UPI0003449AA4
UniRef90_S6GQY3
UniRef90_B4RH10
UniRef90_U2RTE5
UniRef90_UPI000370254C
UniRef90_A1TH95
UniRef90_E1R8C0
UniRef90_F0SUJ4
UniRef90_A8MKF2
UniRef90_J0NBK8
UniRef90_UPI00035D220C
UniRef90_UPI00046A3519
UniRef90_A9B7E2
UniRef90_K2EC26
UniRef90_E6U5R5
UniRef90_Q2G5E8
UniRef90_UPI0003B516B0
UniRef90_E4NAB1
UniRef90_UPI0003625EC4
UniRef90_UPI0002192E03
UniRef90_A0A017HV12
UniRef90_J2SPL7
UniRef90_Q92AM7
UniRef90_UPI0003710F4A
UniRef90_H1GTV1
UniRef90_Q98MF1
UniRef90_B3E605
UniRef90_H6LHM1
UniRef90_A6TN65
UniRef90_Q605F7
UniRef90_UPI00037677AF
UniRef90_K5CE19
UniRef90_C5NY65
UniRef90_UPI00036914CA
UniRef90_U4KLLK7
UniRef90_UPI0004638D45
UniRef90_UPI0002558D29
UniRef90_UPI0004754F9C
UniRef90_F8A0S7
UniRef90_UPI00036A07C1
UniRef90_F9ESV7
UniRef90_L0KQN9
UniRef90_R4VPE8
UniRef90_B2UHF2
UniRef90_I0RPP9
UniRef90_X6D531
UniRef90_B0T4W6
UniRef90_UPI00036E8589
UniRef90_A0A010NPV3
UniRef90_UPI000424993E
UniRef90_W6JZW5
UniRef90_M7EGR7
UniRef90_I9CBE9
UniRef90_G8S100
UniRef90_UPI0004660C4E
UniRef90_C9Z9V9
UniRef90_F6GG93
UniRef90_W7BD34
UniRef90_S3WWP7
UniRef90_UPI0002F0AC18

1 10 20 30 40

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

UniRef90_UPI0003788551 S G N I F I H D G S K S E E L A H I L 60 E K A I Y E D F G M H I K V M V R S H D 80
UniRef90_UPI00047266F7 S G N I I F S S S D E Q S N E A T A A L S L Q L E E Q A I L E D F S L P I K R V T V R R N I T D E
UniRef90_K2GY29 S G N V L V F K S Q R E D P A D A A A L S L I E E A W L S E K F N Y S A R R A L V R R T R P A Q
UniRef90_C1ACH4 S G N L V L V F R T R E K D P A D A A A L S L I H D G I L D V L G V D S S A R V V F V R T P B P A Q
UniRef90_N1WIQ5 S G N V I V F E S N Q Q D P K A D A V A F L S A I T T G L E K N F D F E I P T L V V K R T E K E E
UniRef90_UPI000360C386 S G N V V F F H A S Q A S A D A G I K A A S L A A K S L H A Y A G K P V G V V V R R T A A A E
UniRef90_W7GCZ7 S G N A V V F F A S P L D E A G V R K G S L A A K S L H A Y A G K P V G V V V R R T A A A E
UniRef90_C8S0V8 S G N A V F R A A E A P E V L A A R I L S H G L A R Y F G I A T P V V L L R R T S L A Q
UniRef90_UPI00037FC2BD S G N V V F E S A R L A E A D T V K A R T A E S G L Q R D Y A G K P V G V V L R R T G P D
UniRef90_G7CGE1 T G N V I L D S A R A R P E A T D V K A R A T A E S R A L Q D R F A G Y D A W V L V P F D D
UniRef90_UPI00037C4E09 S G N V I L E S K K R P A K V Q A E I L E A A L L K S F T L D S E L I A L S R E Q
UniRef90_J8SGK3 S G N V L F D F D D E R P T S D I L E E D L A H M M L D D R F D M N T F A A V R R N A
UniRef90_UPI0003B35198 S G N L L F T H D R P S D I L A E K M A F I L H D R F G I R S F A A I R N N R A E
UniRef90_W0LEN1 S G N V V L Q S N N D D P T I L Q K Q V H D L I T Q E I G A D I S V I A R T H E Q
UniRef90_T5KRL5 S G N I V C E T A P E S H A A T C A M V R S M A I H D E R F G V D T P V I H R H A Q
UniRef90_UPI00040F6E31 S G N I V C T A D E S A P E L L K A M M E S L L R E R F G Y D A W V V V F S L G Q
UniRef90_A7I4B2 S G N I L F T S N R E S E E E L L K A A L E K V L A G T T G K E I R V V V I R S A E E
UniRef90_W7CPL0 T G N I L A E H E P E E N D H E T L Q R K V E E R F I K H H F D L D V P V V V A F H V T
UniRef90_M3UJH4 S G N L L C D S P E E P D S F D R A L E E Q A I S D E F G Y F R E V I S R T P D E
UniRef90_R5SZ12 S G N V I L D S D D S K E N V A S N I N T L I K R H F N L D I P V V V I T Y H E E
UniRef90_U2IWC3 S G N I L L R S E L S A E A L S I R L H S L L A E Q H Y G A D I A A L V F R P A Q
UniRef90_UPI00035D5858 S G N V I F R T D Q A D L Q R L C H S L I A Q H F A L D V A C A V Y F P A Q
UniRef90_UPI000465F67B S G N V V F K A D L G E T V V Q A K L E A Q L R G Y A G R P V G V A V R T G P E
UniRef90_S1NL92 S G N I L F T A N E D P A L L T Q A Q I S E A M I H E R F G L E I V I G L V L R S L Q P
UniRef90_A3JYQ7 S G N V A F T H D A E P A D V Q A A L E S K A L E D H V G A P V I G L V L R S L P Q
UniRef90_UPI000463F66C S G N L V V A P A S S P D D V A R L V R R G V A E E R F D V D T A V A V L I T A E R E
UniRef90_L8K542 S G N I V F S D D S A E N V L K T K L E K K L S E Y F D Y E A F L F I R N S P A E
UniRef90_E6WPR0 S G N V V F D S D A S P A K N V K A A L E E G A F K E R F G F H S E A M L R T V I E Q
UniRef90_UPI00038FD3AD S G N L I A G R G G T E D E V K A L I E E G A F K E R F G F H S E A M L R T V I E Q
UniRef90_UPI00045E6207 S G N V V C T F A G S S A D L K E M V E E A L R D G F G Y D A W V V V L T A A R G
UniRef90_UPI00034DF942 S G N V A F T G S G G E E E L R T E L E A A L A E R F G F A V D T V L R D A A G
UniRef90_J4XCN1 S G N L V F L S D K V R N E I A P K V S Q L I K E H I G P D L S T V V A T R A K E
UniRef90_UPI0003449AA4 S G N A A F T S G G D S L G A L K A E L E E A L R E R F G F A V A V L R S D E A Q
UniRef90_S6GYQ3 T G N V L F S S R E T P S L I L Q A Q L E E Q A L S E R F G F A L A V T I R D E A Q
UniRef90_B4RH10 S G N A V V I S A E P A A A V E D K V A A A L Q R E L G L A E A F V R S D L G Q
UniRef90_U2RTE5 S G N V L F A A P S T P G R L E E A L E T R L A E R F G F A I P T L V R S H D S E
UniRef90_UPI000370254C S G N V L C E T D P S D E Q L S Q L I H Q T V K E K I G A E L A V I T N Q S E
UniRef90_A1TH95 S G N V A F E S D G A R A S E L S D I E A L L V R L L E S P P V V V V R S H R Q
UniRef90_E1R8C0 S G N L L F F H N A E K E T A L K K E L Q D M I E Q A F G L T I E V V V K T K E E
UniRef90_F0SUJ4 S G N A V L F S D N A E T A L Q D K I H D G F I G R F G F E S G V I I R N I T N Q
UniRef90_A8MKF2 S G N V V F T D A R T K A E I V M L L Q K A I L E D F Q L D I K V L I R S L E D
UniRef90_J0NBK8 S G N V V F E A A L E E V P L R D R I R T A F S R E R T G F E S D V I L R S M D R
UniRef90_UPI00035D220C S G N V V L S A D E D P T H V A E R I R D A I H R E T G M D V P T V V R T A D R
UniRef90_UPI00046A3519 S G N I L C A T P R E P A A A C A S V R A L I A A E F G V D T P V I H R T H T E
UniRef90_A9B7E2 S G N V V F D D P Q S Y A E A E H L I A T Q L E D C F G F A V A T F L R S A A E
UniRef90_K2EC26 S G N I I F E T T D K K N D V L E K I E K C L K E F A F E I P I I K T E K
UniRef90_E6U5R5 T G N V V F A S D Q P A Q E L K L L I S E N G L K S A L G Y D A P I Y L R G V L E
UniRef90_Q2G5E8 S G N L L F D Y D D P L D G L E D L S H V M L D R F D I K S F V V A V R D R A A
UniRef90_UPI0003B516B0 S G N V V F A S D D D G A A E A K S R V E R A L S D R F G Y E A W V V I V T R A E
UniRef90_E4NAB1 S G N V L F F R T A E D R E A L V A R I E A G L E A G L G Y P V P V V V L R T V I G E
UniRef90_UPI0003625EC4 T G N V L L S S P A E L K P A I E K T L A D A T F G F E A W V V I V L D P A T
UniRef90_UPI0002192E03 S G N V I F T A N E A A A V S V D K I T V T L A K T F G F D I P V F V M S R T A E E
UniRef90_A0A017HV12 S G N V L F D S D A P E S E V K A T L A A R L R A H T G R D V G V L L R T A E E
UniRef90_J2SPL7 S G N I V F S S D K K A E E D L K K L E K A M S D H F S Y E A F L F V F K T S Q E
UniRef90_Q92AM7 S G N L V L S S N Q T E T E V A A K I T E V I L A S F N L S I D V F V F S Q Q N
UniRef90_UPI0003710F4A S G N I V F A S D L P T T E L A V Q L E Q A I A A D F G L S I P V L I R S L S E
UniRef90_H1GTV1 S G N I V Y Q A E Q D C T L L S K N I H N T I L N T L D L D V P T I T T E L Q
UniRef90_Q98MF1 T G N L V F E A R A T D G K L E Q R L E T A F E K T F G R H V D I I V R T A E E
UniRef90_B3E605 S G N V I F E S N K P P E L L V T E I E S G L R E K T G A N I S V L V K T V I D Q
UniRef90_H6LHM1 S G N V I F F D E Q S K E V L E N K I R Q E I C K E Y D L D I P V L I R S L V D
UniRef90_A6TN65 S G N V I F T D L E H K E E I V A I L E K A I F E N F Q F H I K V L I R S I D D
UniRef90_Q605F7 S G N V I F S D P R P A S K L V P L I E A E I F E K E F S L P V I R V L R D F A N
UniRef90_UPI00037677AF S G N L F F G S D D N R E S C L S N I R K L S E S A Y D F S I P F S L T K E E
UniRef90_K5CE19 S G N I I F E S E D D T K T V R F K I E K S F E K V F K F E I P T I V K T E K E
UniRef90_C5NY65 S G N V I L E T E L S K G E T A K L I H D T I V K E I G A D L S V I I K E K N Q
UniRef90_UPI00036914CA S G N L V L L P A G A D E V L P G L S A A L E Q R Y G F A V P V V T R A S R
UniRef90_U44LK7 S G N V I F S S E Q T D N Q L I S H C S E S I L K E Q F S L D I K V L I V E I N K
UniRef90_UPI0004638D45 S G N I I F D S T K G D A K S L E K I S D H L A K T F G F P I P T I I R K S E M
UniRef90_UPI0002558D29 S G N L V L D L D R E D P Q A V A D W C E V I A A H V G R P E A V A L S L A E
UniRef90_UPI0004754F9C S G N I V F E T N L S D E T V R G L V H Y T I L E N I G A D L S V I I K M P E
UniRef90_F8A0S7 S G N V V L R A V H G A P Q V A A D I G A A L T T A A G F E V R V V T R T S R Q
UniRef90_UPI00036A07C1 S G N V V V D K A K A A R I E K L I K D V E G L D V R V M T R T H A
UniRef90_F9ESV7 S G N I A L E S G L A A D E A A V R I H D L L H T H L N V D L A V I V K T P A Q
UniRef90_L0KQN9 T G N L V F E S E K S I T T L G T R L E S A F E S Q A F G R H V D I I V R A P A E D
UniRef90_R4VPE8 S G N L Y F E S Y H D K D D L Y G L L K A L F N S H Y D F P I P F V I I E K Q
UniRef90_B2UHF2 S G N V V F F Q S R L A E T T V Y K A K L E R C L E D Y A G K P V G V L V R T G A E
UniRef90_I0RPP9 S G N V L L D S R A G A A S V R E K A Q K A L R D A F G Y D A W V L A Y D L D T
UniRef90_X6D531 T G N L V F E A P A T N A D L E R R L E D A F E K T F G R H V D I I V R S C A E
UniRef90_B0T4W6 S G N V L W G K G S D A D I E R R L E D G L E K R M G L R T E F M V R S P A E
UniRef90_UPI00036E8589 S G N I V F D Q S R T H G E L A A L L E D V I Y T T F H L R I R V L I R S L D D
UniRef90_A0A010NPV3 S G N L L C T E P P G M G D F D R T L Q D A V Q A R F G F F R E V I S R S G E
UniRef90_UPI000424993E T G N L V F E P P S M E G D L E Q R L E A F A F E K T F G R H V D I I V R G A D
UniRef90_W6JZW5 S G N A H F E T T G S R A S I E Q A M G E A L E K E L G F E C T T F V R T L I E
UniRef90_M7EGR7 S G N I L N T D L S D E A I K R L V H D T I L K Q L G A D L S V I I K L P E Q
UniRef90_I9CBE9 S G N V L F D H E A S D A A L E A E I A R V K D A F G I D T F A A V R T G E E
UniRef90_G8S100 S G N V I L T S D R D A G Q V A A R I E A E L P E A F P L D S E L V T L T G D Q
UniRef90_UPI0004660C4E S G N L V F D A P E T P A E L S A R L E A A F P K T F G R H V D I I V R D A T G E
UniRef90_C9Z9V9 S G N V V L L D D P E T P G V L A A R V G E L L Q K R F D R D I H V I V R S L D G E
UniRef90_F6GG93 S G N I I F E A P K D S I E N E E K M A N H L E R A F G F A I P T I I R T A K S
UniRef90_W7BD34 T G N I L A E H E E S Y E A I Q R N I E S H I K V H L K F D V P T V A F Q L E E
UniRef90_S3WWP7 S G N I A A D R E A S E Q Q V C F S V Q S M M H D T F G V D V V V R C A D E
UniRef90_UPI0002F0AC18 T G N V I F S S E T L P D L S F L P V Q S F I K T E Q Q

UniRef90_UPI0003788551 F K I M D S L P E T W K N D Q L M K D V M F L W D D V D G E S V L G K L V I K
UniRef90_UPI00047266F7 I Q N I M K A L P K E W S N D T Q M K D V L F L W D E I N D I S V L E K L P L
UniRef90_K2GY29 M E S I V L F E N P K I F E E N D E W R H N V I F L Y K N A D S E E L T R F K L
UniRef90_C1ACH4 M R Q L L Q E N P K M F E E A N D N S R F V V V T V W S A D V T P A D L R C E A E A
UniRef90_N1WIQ5 M K K I A D A I P S D W Q N D P Q R T D I A Y L F P D V D S K D T I E E I S G R
UniRef90_UPI000360C386 M A A V L D A N P F F A R E A P N R T V A I F L D K A P P E D L I E S I S G R
UniRef90_W7GCZ7 M A E V V A R N P F F K D A A G N R V V A L F I D A A L P K D P L H G V T
UniRef90_C8S0V8 I E A A L A A N P F F E A A P T A L H F F F L G N G L S D D L Q V S L Q A R Q
UniRef90_UPI00037FC2BD L M A V L A G N P F F K A A P N R T V A I F L D A P P A A D A L S R V T G Q D
UniRef90_G7CGE1 V A A I S A A F P F E R V I P D H H S Y V T F V S D P Q V L D E L A A L
UniRef90_UPI00037C4E09 L Q A V I D N K P K F G E Q G K Y H S D A I F L M G I S A A E T M D I F D P
UniRef90_J8SGK3 V R S A V E D N P F T G I G Q D H Y V H T L F L E R D A D Q S A F D K L V A D H
UniRef90_UPI0003B35198 L A A A I A E N P F F G D D G D P K K V H T L F A S E R Y D P E Q F A A F A A D
UniRef90_W0LEN1 I K N I L A G N P F F L E D A A R T Y F S M L E S S P T K S L V I E E L K G I
UniRef90_T5KRL5 L V S S E S A Q P P E G D V K S V H A M F L E G A P S G D G I E A L Q Q R
UniRef90_UPI00040F6E31 L E S I L D G F P P P A D S P E L H S Y V T L S S E T G A L D E L E S L G R A
UniRef90_A74B2 L D G I V R S N P F P D A I P S Q V G V M L V T V P V G K D I L A E F V
UniRef90_W7CPL0 Y E G G I E Q N P F K G E K L M H F L D I L P E Q V N V D K L K D L S Q
UniRef90_M3UJH4 V A A A L A A S P F T G G K H A H I Y F L T G V P D A D A E A F C A T D
UniRef90_R5SJ12 L G D I L K N S P S F L K E N K K E I Y I I F I F P D L N F L E I K E C I G E F
UniRef90_U2IWC3 I Q G W I D A C P P S D L D P S R V F F S M T M E R P D V Q R L Q V L A E K
UniRef90_UPI00035D5858 V L D M S A Q Q P D W F N R A D Y D K H N I F D L Q P W T A E M V V K R M P A V
UniRef90_UPI000465F67B M A A V L A A N P F F R E A A P N R V V A I F L K E P P P A D L L D K V T G L
UniRef90_S1NL92 L T A V L A H A P N W W G T D D K K I Y L I F L M P P L G L A E F Y Q A M G N V
UniRef90_A3JYQ7 L D A L T G N P P P D A P G N K V I L L T D A P I P A A P D D E A T
UniRef90_UPI000463F66C L R K I V R G N P L P D D A E E R P A A L Q V L V G E H P V D P D A A A A L E G
UniRef90_L8K542 I K A I L A N S P F D S L G E P D G Y H N V I F I T T E G T E D V L M Q L F D D A
UniRef90_E6WPR0 M A A V L A A N P P P G E P G N R T V A I F L D G P P P A G A L D A V R H A Q
UniRef90_UPI00038FD3AD W S S V L E S L P F A E S K E Q G E S L Y V C F L H D A P A E A V G M L R G L
UniRef90_UPI00045E6207 L G E L L D G C P P P A D S P D T H T Y V T V T N D P L A D G L A A V S A V
UniRef90_UPI00034DF942 M R A V Q A N P L P V G D P S R F L V L F L R G E P D A A A L A A V D A A
UniRef90_J4XCN1 V Q E M L D M N P F I G E N Y D I A R V F F T L T N S V L A P D I V E K L K E
UniRef90_UPI0003449AA4 L A A A V D A N P L L E V G D P A R S F L V L F L D G P L D A A D L A A L A E V
UniRef90_S6GQY3 L E A V Q A N L S D I L D Q L Q D S R S K L M V S F L S E I A P D N A L L Q P Y
UniRef90_B4RH10 L E A T I A A N P F A D F A Q E S P S K L M A V F L K G E A P Q D L S P L E R Y
UniRef90_U2RTE5 L A A T V A A N P R D H G S A E S R R S E V F F L K R P L T A E E V L A Q L P E L
UniRef90_UPI000370254C L T Q A V L E A N P F F D E N Y D S L R I H L V F T N D E A D T G K L A E L K Q
UniRef90_A1TH95 L R G V V E D A P F A E R H T E H H R D V I F V K A P L T V I E R A M E V V Q L R
UniRef90_E1R8C0 I N D T L Q S D P F D T T T E E P A K K M V M M L T S K V D P E R F A S I E A D
UniRef90_F0SUJ4 M R A L I G Q L P F T R D E I A A A H L Y V Y F L D S P P E Q I R I D L C E G
UniRef90_A8MKF2 F E H L M K A L P D G W K N D E Y M K D V L F L W E E I N R E T L L D E L K T K
UniRef90_J0NBK8 M D T L I H R L P F E A A D P Q V E H L Y V Y F L E N P P E P S K L D A I C R K
UniRef90_UPI00035D220C L R A V V A A N P L D V P D P A R F L V L F C S G S L D V A G L R A L D L S
UniRef90_UPI00046A3519 L A E S E A A Q P F P E G E L K L V H A M F L E G A P A A G A L E A L H E R
UniRef90_A9B7E2 I V K E L E A Q C P F T P S E D T P Q A A L Y V T F V Q H E P D A E A Q A R L A Q Y
UniRef90_K2EC26 I K K I A Q T I P F E N W Q N D T Q A K D V A Y L F P E A D N K I I D E L P I K
UniRef90_E6U5R5 L E E L Q N A T R A L A V P E G C H L Y L L L C D D A M L P V E L G A L F A A P
UniRef90_Q2G5E8 I A E A V E G N P F T G I G A D N Q V H T L F L E R Q P D Q A A F D K L V D Q A
UniRef90_UPI0003B516B0 L E R A V E A F P F D A G D E S R Q V W I F G S R G E V L D E L J A S A R E L
UniRef90_E4NAB1 V E A V L A A E P F A G V E G E D K L F V L F L S E P L A E V R A E L P V V
UniRef90_UPI0003625EC4 L S A L V D D Y P F D A E R D G W H P Y V I E G N N D E H L A E L A R T A E T L
UniRef90_UPI0002192E03 V I S A V D D A P T W A G D G G R H D T I V A V S A A E A N R I F V T F S K F
UniRef90_A0A017HV12 M T T V L A A N P F P Q A N P K H T V A V I L D A P P P P D A L A S M T
UniRef90_J2SPL7 T E A F W S N P F E K N D D F H T Y A F V G S M E V E N V L M K E F D A A
UniRef90_Q92AM7 Y K T I I K N N P F P E G E E E R W M I A F Y N E N I D I P K Q
UniRef90_UPI0003710F4A M E R I I T T L P D E W S N D I M K S D V L F L W E E I D D S S V V E Q L P L K
UniRef90_H1GTV1 L D R I I K D N P F T T E E N L N R L Y I T F L E S V P H L D G T N M L I G K
UniRef90_Q98MF1 W L K L A A G N P F P A D S A E A G D Q V V R V M R K P A P V E D V A A L Q A Y
UniRef90_B3E605 L A Q I A A Q I P D N W K N D E Q R T D I A Y L F D K A D T E E S I N E L P I R
UniRef90_H6LHM1 F E D L M Q I L P E D W K N D E M M K C D V L F L E T G L K A G L V M T K L T V
UniRef90_A6TN65 F H Y M M R I L P E W K N D E M M K C D V L F L W E E I D N E V L N K L V I K
UniRef90_Q605F7 I S L L N K E I P A D W V N D T T Q K D V M F L W E E L D N E D V M Q K L Q I K
UniRef90_UPI00037677AF Y L K E R E E L P D W W E G M A R R D V L F F S S N S D K S G I L D F I D K T
UniRef90_K5CE19 M K K I A A N I P T E W Q N D T Q R T D V A Y L F P E A D S K I I E E L P L K
UniRef90_C5NY65 L Q I A I E E N P F N E N Y D F S R I H L V F T N D S M G E D E L K K L E N K
UniRef90_UPI00036914CA W D R V V A A L P F F E A A R E D P A H Y V V V T W D R T P D A A S V R A F D P T
UniRef90_U4KLLK F I K V I A Q I P F K E S D K D Y A D V V V F M M P G V T A E S V L N T I E N K
UniRef90_UPI0004638D45 M Y D L L D R D P F K D I L V T K D I R L Y V S F L K E D V I E T D L Q L P W T
UniRef90_UPI0002558D29 L R A A R E A L P F A G T D P K M T H L G F F R G T P A Q E A P D R L V P F
UniRef90_UPI0004754F9C L R A E A V Q E N P F G N S Y D A S R M V H L V F T N D K L D T G L K N L A Q T
UniRef90_F8A0S7 W D R A V A A L P F A D A A D D P A R L A L V A W D G P V D T T R V D A F D P A
UniRef90_UPI00036A07C1 L K A V I A N N P F T Q H A S E G S K L N V A F L D A P L S K L D L D A P T
UniRef90_F9ESV7 L R E I L D G N P F A D E A Y D P K R V F F L D N T P L A D T A G L E A Q
UniRef90_L0KQN9 W R K L A S G N P F P T E S V E A G D Q V V R V M R K P V A E D A I S G L Q A C
UniRef90_R4VPE8 L T E E Y S G P K W W A K D H F R K N V L F L L P S Q S S H E V A Q K W L E T V
UniRef90_B2UHF2 L A A V L E S G N P K T A A P S R T V A I F L D T P P A D A L A A A T G R R T
UniRef90_I0RPP9 V R A I S Q A Y P F F E R E V I E G H H S Y V T F V A D D E V L D E L A A R A A D
UniRef90_X6D531 W L K L A A G N P F P D E K A G D Q V A V R V M R K P A P K G A E A A L Q A Y A
UniRef90_B0T4W6 L K A I I A A N P W P D T T E R P S H L V V N F L K R P I P A G D V E V L R A A
UniRef90_UPI00036E8589 F E A L M R E L P A S W T N D Q E M K S V L F L W E E I N Q A S I L E Q L V W K
UniRef90_A0A010NPV3 V S A A L A G H P P F E E I D P R F S H I S F L H S A P E A E A V A A A A R L
UniRef90_UPI000424993E W L R L A A G N P F P A E S I A A A D Q V V R V M R R P V P D E A V T A L G A Y
UniRef90_W6JZW5 L K K A L S A K P F D V A D G D T Y F I T F L K D P P T A A Q K S A L E G L
UniRef90_M7EGR7 L T I A A Q E D P F D A T Y D A S R I H L V F T N D D P W S K E T L A D L T E T
UniRef90_I9CBE9 I R S A I E D N P F V G G S E E K F V H T L F L E G E P T Q A Q F D A L V A D H
UniRef90_G8S100 L R A V R D R P F G D R P D T Y H S D A I F L I G L E A A E V M P I F H P
UniRef90_UPI0004660C4E W L J A L A A G N P F P N E S L E A A D Q V V R V M R R P A P A A E I G S L K A Y
UniRef90_C9Z9V9 L S E A V A R N P P D A A A D A E H Y N V A F L E T L D Q A E V Q L A A V L
UniRef90_F6GG93 I T E I V E A N P F K N E T L T K D L R F Y I S F L K T K T N A P F Q L P W
UniRef90_W7BD34 Y E R G V R A K A F Q G D R L M L H F L D R I P S E D A V L R L I E L S
UniRef90_S3WWP7 I R E A L C A N P L K T I A T D G S R Y L V I F L S A S P E K A R A A A L A A E
UniRef90_UPI0002F0AC18 V R E T V K N N P F Q A D E N Y H L Y V F V A E K A F A Q I A Q S E F N S V

UniRef90_UPI0003788551 P E I D T V K Y V T G A I L W S V D K K N V T K S G M T K M I G T N L Y K 130 140 150 160
UniRef90_UPI00047266F7 K R G T I G N V M Y T P G A I L F S V S K E N V T K S G M T K L V G S S L Y K
UniRef90_K2GY29 K E D I E Q V H Y Y K W A Y L W S A K K D E S L N K T A R F K L A S Q K E Y K
UniRef90_C1ACH4 P T V R E R F L V G A H A A Y L W F P D G M S A S T V Y E K A T R G L G D
UniRef90_N1WIQ5 K K D F V D V R Y V K G A T F W N I K K E D V N K S Q L A K A T I S H K L Y K
UniRef90_UPI000360C386 N G D E K V A P G K R E I F V H Y G Q G M A N S K L K I P A A R
UniRef90_W7GCZ7 G I G E E Q L T L G Q R E L I F H Y Y G D G M A G S R L R I P F A A
UniRef90_C8S0V8 A V D G E T L V V A N D L A W L H A P V G I G R S R L A E A L G R L K L
UniRef90_UPI00037FC2BD G Q D E E I A L G T R E I F V H Y G S G M A R S K L K I P A A S
UniRef90_G7CGE1 P G P G E Q I A P G D R V V Y W Q V R R T Q T L T S A M G K T M G K K R Y K S
UniRef90_UPI00037C4E09 R E G V D A V W P G D G V I Y S Q R L S A E R T K S R L G K I V G T P Y K
UniRef90_J8SGK3 A G G P E K I A M G P R C L Y I D Y V D G A G H S K L T N A F I E R R L G C
UniRef90_UPI0003B35198 Y P G P E R V A A G T R A Y H V D F V D G V S R L A T L V D Q R F D F
UniRef90_W0LEN1 I F A P D M V T I T N D T I Y T L Y A T K H S D S K F N N N F F E R R L K V
UniRef90_T5KRL5 L R D T E R I A L L G D D L A W L D Y G A G G V H S T K L T K T V L D R A L G V
UniRef90_UPI00040F6E31 L D G T E L A R V A P L A L A W Q A P V G G T L D S P F S K L T A K A K Y K S
UniRef90_A7I4B2 I P G R E L A A A G K R E V I V Y Y P D G M G R S K L K W P P L K
UniRef90_W7CPL0 A G Q D D C E V V G R F L Y I S L K A G V S D S L Y S N N L V E K T L Q V
UniRef90_M3UHJ4 F G G G E R F A V I G A D L H I D Y P E G A G A T K L T P A K I A K L L G V
UniRef90_R5SZ12 D D N I D R I E N Y N N V I F W S F D L N N Y R K S V W W K G T A K Y Y I K D
UniRef90_U2IWC3 S W G E A E L H L S E G M L F V H A P V T Y K N S R L T N N A L E R H L K V
UniRef90_UPI00035D5858 R E G Y E L L A T A S G M L F W T C Q R Q H S K T S Y S K I S K D K L V Y G
UniRef90_UPI000465F67B A C E E I A I G V R E V Y V H Y P G G Q A D T R L K I P A A S
UniRef90_S1NL92 N A Q I E Q E S S D H N L I F W S F V R E D Y Q K S S W W S K T A K K K I K D
UniRef90_A3JYQ7 H K T S E D I R P G P G A L Y I H Y P E G Q G R S R L R L P A M A
UniRef90_UPI000463F66C R D G T E R A V V A N G V L Y V A Y P D G I G R S K L T T P V L S K A A G T
UniRef90_L8K542 V Y K E N E Q A E L V D A N F Y A W Q T P K G N T L N S D F G K V L G K K S L K D
UniRef90_E6WPR0 R V D E R L A L G L R E I Y V A Y S G M A D S K L V V P A A S
UniRef90_UPI00038FD3AD E S A E E R F A V R G R E I Y L L F H G S I R D S K L A V K L G R L A P
UniRef90_UPI00045E6207 D P E A E E T R A L G P E A V A W L A P V G A T L R S S V R S T V A S R S R H R S
UniRef90_UPI00034DF942 A Y A P E A M A A G A R E V Y F D L G R A K L P D A A A R A L G G A
UniRef90_J4XCN1 T F D G E E L A I V G D K I Y L Y L P K D A S R S K L N N N Y V E K R L K I
UniRef90_UPI0003449AA4 A G T D E A M A P G E R E V Y L S L Y P D G L R D A R L P G L V E R A L G R
UniRef90_S6GQY3 L H S E R L Q L S G T E Y L Y C P N G Y G K T K L T N N L L E K K L V L
UniRef90_B4RHIO A T M G E R F A P G P G L Y I A Y P E G A G R S K L A N A K P P G G
UniRef90_U2RTE5 R E G V D A V A P G P G A L Y F S R V A A L A T K T R I T R L M A M P V F Q
UniRef90_UPI000370254C D F G D E L H L G S Q C L Y M Y L P R D A R K K I L N T N Y L E K Q M G
UniRef90_A1TH95 D G V D D A W P G P G V V Y F T R V I A E K A R S R M S R I V G T P E Y R
UniRef90_E1R8C0 D K I I E K T Y E R G D L L Y I Y R N G A G R S K L T I D Y V E K V L G T
UniRef90_F0SUJ4 D D G P D R L S A G K R E L L Y L C H R N G V R K S K L A V R M S K T F D
UniRef90_A8MKF2 P E I D T V L Y V Q G A I L W T V D R E N I T K S G M Q K L V G T T L Y K
UniRef90_J0NBK8 Y T G P D L F Q A G E R E Y L L C H S E S I R K S K L A I G I S K A F D
UniRef90_UPI00035D220C D L P E E R L A V T A T E A Y T D H R R G V R H A K V P D I V A R H A D G
UniRef90_UPI00046A3519 L V P G E R L A L V G H D L W I D Y A P G G V H T T K L T K A V L D R A L G V
UniRef90_A9B7E2 Q N E L D T F R I T G R H V W W L R H K Q R G E S K E S G A K L E R A L I K Q
UniRef90_K2EC26 K E F L D R I Y V K G A I F W N V K R D D Y N K S Q L N K I J N H A K S Y K
UniRef90_E6U5R5 H G K Q E Q F Y P A E G N A F W I V P K G E T L S S A F G G K V L G A K Q Y K A
UniRef90_Q2G5E8 A R G L D K F A I G N R C T Y I D F V E G V G D S K L S S A F L E R R L G C
UniRef90_UPI0003B516B0 D L D D D P I A R G E G V Y W N P V K G T T V D T P F A K L L A K A Q Y R P
UniRef90_E4NAB1 S P K G D W E M I G P G E A F V V M H L R N G R L N G N P A T A F P K S Y R G
UniRef90_UPI0003625EC4 D P Q L E R V S L G R G V V Y W E V V K G N T D S L V G K F T A K A K Y K
UniRef90_UPI0002192E03 A G P G D Y I A V K G R V I Y I S V I P E L R N K S A I L L K I S R T P E F G
UniRef90_A0A017HV12 G R A E E D A A L G L R E I Y V S Y G P T M G R S R L R I P A A E
UniRef90_J2SPL7 S K V D H E K G E I T N N I F Y W V P K G N T L D S S F G K I L G K K S L K D
UniRef90_Q92AM7 K N T Q A E V I A I G R A L Y I H V F S Q I H Q L K L P V F L G E Y K K T
UniRef90_UPI0003710F4A V I D T A T I L Y T P G A V L V S I P R E L V I T R S G M N K L V G T R L Y A
UniRef90_H1GTV1 K A D T E L L Q V T E S A V Y L V A N I G Y G K T K I T N T L N E N K L K V
UniRef90_Q98MF1 A A E D E K V L P C A G D I W V V F S R E R P T S R L L A T M N H K R L G I
UniRef90_B3E605 R E F L D V R Y T A G A L I W N V K R E N Y N K S Q L N K I I G H R L Y Q
UniRef90_H6LHM1 K P D L D N A L Q G D D V I W S V Q R K N V T R S S L T K I V G T E L Y K
UniRef90_A6TN65 P K I D T V M Y I P G A V L W S V D K R N V T K S G L M K L V S T A L Y K
UniRef90_Q605F7 P D L D R V R Y L P G A V V W N V D R D K V T R S G M L R L V G T P V Y K
UniRef90_UPI00037677AF T F C N E I V Y V G K Q G V F W G K Y D E A E Y L K S T Y Y K E L M K Q D F Y K
UniRef90_UPI00036A07C1 K E F L E I R Y Q K G A L I W N I K R E N L N K S Q L A K L I S H K L Y K
UniRef90_K5CE19 D F G D E K F I I G S E C L Y M Y L P R D A S P K R L N T N Y L E K Q L S I
UniRef90_C5NY65 A L G D E L V V W H R D E T Y V L Y P H G Q G R S R L T L A V L E K A A G G R
UniRef90_UPI00036914CA L T D Y D V I H A K T D V I Y W R A Y L P S F S K S G L G K L A A T K V N N Q
UniRef90_UPI0004638D45 S D N N A F K I I D K I D K T I V S V L D L S I T K T P K G M E V L E R Y F G K
UniRef90_UPI0002558D29 C T Q G E E L A L Y G P L C L W M Y T P K G L R S K L A G K I I D G A L G L
UniRef90_UPI0004754F9C D F G D E A L Y I G S Q C L Y L Y L P R E A K K R R L N T N F L E K K L G L
UniRef90_F8A0S7 R Y G H E Q L A W H G S E L Y A Y P D G M G R S R L T L P V L E R A A G R
UniRef90_UPI00036A07C1 V Y A P D E F V L N G K E A Y L W Y P N G M G R S K L L A D A P A R K I G A
UniRef90_F9ESV7 D F G S E K L H I R P C A Y L Y I P Q D A S R S K L G N A F L E K Q L G L
UniRef90_L0KQN9 A A A D E K V L L A G G D T W I V F S R E R P S S R L L A A N H K R M G V
UniRef90_R4VPE8 P L A P E Q L V L K D L R A I Y V A V G S E E A Y S S F Y H K G L T K T S L Y Q
UniRef90_B2UHF2 K E F L E E M A L G T R A I Y H Y G D G M A D S K L K I P A A K
UniRef90_I0RPP9 A G P Q E R I A R G D G V L Y W Q V P R Q A T L D S A I G K T M G K K R Y K
UniRef90_X6D531 A K D E K V F S V G G D I W V L F S R E R P S S R L L A A T S H K R L G V
UniRef90_B0T4W6 I T G R E R M H A H G K E L Y V D F I D G I G E S M L R D W K T R K A P V G
UniRef90_UPI00036E8589 P E L E D V R Y V A G A I L Y A I D R Q H A A R G S L N K L V G T K M Y K
UniRef90_A0A01ONPV3 E T G Q D R W Q V T G R E M H L R Y A N G A G S A Q M K E A A T T R S L G V
UniRef90_UPI000424993E V G K D E K M Q A V G D I W I V F S R A T S S R L L A A T S H K R L G I
UniRef90_W6JZW5 S G D I D T L V V L G R D V H W R M H G T S M E S A L T K R H W E K I L G L
UniRef90_M7EGR7 D F G D E A F V V G S E C L Y L Y L P R E A K K R R L N T N F L E K K L G L
UniRef90_I9CBE9 R G G A E K L A L G P R C L Y L D F A D G V A D S K L T N A F L E K R L G R
UniRef90_G8S100 R E G V D R V W P G N G V Y A Q R L S A Q R T R S R L S S M M A S P L Y R
UniRef90_UPI0004660C4E A A A D E K I A I V G G D I W I V F S R E R P S S R L L A A T S H K R L G I
UniRef90_C9Z9V9 A A T G R E R V A V G R E L Y G W Y P D G F A G S R L L I G I M G L P V
UniRef90_F6GG93 Q S E D Q S F Q I L S K A N A I I S L I D V S K S K T P K A M A V L E K E F S K
UniRef90_W7BD34 Q G D K D E F K I I D R F L Y V S L T E G V S D S L E S N K F V E K T L Q V
UniRef90_S3WWP7 D F S P E V R L I G R T A F V W T P D G V K A M K V S H T A L E K R F G I
UniRef90_UPI0002F0AC18 K T G G E E G L V R S D S F Y W Q V P K E A T I T T A F G R I L G K K A Y K D

UniRef90_UPI0003788551 K I T V R N V N T A R K I Y E L M Q
UniRef90_UPI00047266F7 H M T V R N V N T T R K L M Q M A E Q
UniRef90_K2GY29 D M T L R N I N T T T K A I L E L M R
UniRef90_C1ACH4 R I T A R N W N T M Q K L L T M A
UniRef90_N1WIQ5 S M T I R N I N T A R F L A
UniRef90_UPI000360C386 D G T A R N I N T I A T L A A Q W A A Q
UniRef90_W7GCZ7 N G T G R N I N T V T R L A A M A A E
UniRef90_C8S0V8 P V T A R N L R T V Q A L A K I A R
UniRef90_UPI00037FC2BD A G T A R N M N T I E T L A T W A T E
UniRef90_G7CGE1 S T T T R N L R T L E R I V
UniRef90_UPI00037C4E09 S M T I R S W S T T T K L L D L L S K
UniRef90_J8SGK3 R G T A R N V R S L A R I A A K M
UniRef90_UPI0003B35198 R A T A R N M N S M R R I L E K M D
UniRef90_W0LEN1 I A T T R N F N T L S H L L E M
UniRef90_T5KRL5 A G T A R N L R T T R T L L E L
UniRef90_UPI00040F6E31 T T T T R N V R T L V K V R E A L
UniRef90_A7I4B2 T G T M R N I T T L T N L A G L A G E
UniRef90_W7CPL0 K A T A R N W N T V L K M A E K S K Q
UniRef90_M3UJH4 T G T G R N L R T A T L V E R A R
UniRef90_R5SZ12 K I T I R T L N T V R K L Y E L G K
UniRef90_U2IWC3 T C T T R N L N T L R R I L A L V
UniRef90_UPI00035D5858 M T T I R N G N T F R K L T Q M V
UniRef90_UPI000465F67B S G T A R N M N T V A K L V E
UniRef90_S1NL92 K I T I R T A N T V R K I A N L L
UniRef90_A3JYQ7 N G T A R N L N T I R K V R T L L A E
UniRef90_UPI000463F66C P V T G R N W N T V T R L L A L A E E K
UniRef90_L8K542 R L T S R N I N T I E K I L K A M S K
UniRef90_E6WPR0 A G T A R N M N T V A R L V A L A Q
UniRef90_UPI00038FD3AD N S T V R N W K T V V K L K E L A D
UniRef90_UPI00045E6207 A V T D R N L R T M I K V R A A L D
UniRef90_UPI00034DF942 V A T G R N W R T V L R L L E M A E E
UniRef90_J4XCN1 V A T T R N F N T L S K L I T M V D E
UniRef90_UPI0003449AA4 T A T G R N W R T V L R L L E A V R
UniRef90_S6GQY3 T A T T R N W K T V L K L C Q L
UniRef90_B4RHIO P G T A R N W N T V R R L A E
UniRef90_U2RTE5 S M T V R S W K T T T R L L Q K L D
UniRef90_UPI000370254C T A T M R K L S V V S R L S E M
UniRef90_A1TH95 L M T I R N W A T T T R M L I T L L D E
UniRef90_E1R8C0 S C T A R N W N T L L K M K E L L E
UniRef90_F0SUJ4 M A T G R N W K S V C K L Y Q M M
UniRef90_A8MKF2 Y M T V R N V N T T R K I Y E I M K
UniRef90_J0NBK8 S A T A R N W K T V L K L T D M L A K
UniRef90_UPI00035D220C F L T G R N W R T V L R L V E M A K
UniRef90_UPI00046A3519 P G T A R N L R T V R K L I A L
UniRef90_A9B7E2 A G T A R N I T T L R A M I A
UniRef90_K2EC26 L M T I R N V N T A R Y L A G I S E K
UniRef90_E6U5R5 R L T S R N W N T I E K I T G L M R Q
UniRef90_Q2G5E8 R G T A R N V R S I A R I L A K M
UniRef90_UPI0003B516B0 T T T N R N L R T L V K V L
UniRef90_E4NAB1 Q A T S R F L H T T G K I V A A A R K
UniRef90_UPI0003625EC4 Q V T V R G A N T F K K L A A K L
UniRef90_UPI0002192E03 S G T A R N M N T V
UniRef90_A0A017HV12 Q L T S R N I N T F E K I L K K M N
UniRef90_J2SPL7 L T T T R N W R T T A K L L T L L D
UniRef90_Q92AM7 A M T I R N V N T T R Q I Y K L M Q
UniRef90_UPI0003710F4A T A T T R N Y K T C L Q I K A L A I K
UniRef90_H1GTV1 G T S R N W N T V R K L A E M V
UniRef90_Q98MF1 Y M T I R N V N T A R H L A G L
UniRef90_B3E605 K M T V R N V N T A R K L V Y E L M K
UniRef90_H6LHM1 R M T V R N V N T T R K V Y A L M Q
UniRef90_A6TN65 L M T I R N V N T L R K L F A L M
UniRef90_Q605F7 E I T I R S G K T F E K I A E L L E K
UniRef90_UPI00037677AF A M T L R N V N T A R F L A
UniRef90_K5CE19 T M T M R K L N V V E H L V E L C K K
UniRef90_C5NY65 V G T A R N W R T A L A L Q A L A H E
UniRef90_UPI00036914CA L I T I R T I K T V N K I L E L
UniRef90_U44LK7 H I T T R N W N T I K R I E K K L E
UniRef90_UPI0004638D45 P V T L R N L N T V E A L L A L
UniRef90_UPI0002558D29 R A T M R K L S V T S K L
UniRef90_UPI0004754F9C T G T S R N W R T V L A L A L A H E
UniRef90_F8A0S7 V A T V R N W N T V Q K M L D L
UniRef90_UPI00036A07C1 S L T T R N G N T L R K M M A
UniRef90_UPI00036A07C1 G T S R N W N T V R K L A E M V
UniRef90_F9ESV7 E V T I R N A R T S S F L A
UniRef90_L0KQN9 T G T A R N M N T I A T L V D W A T E
UniRef90_R4VPE8
UniRef90_B2UHF2
UniRef90_I0RPP9
UniRef90_X6D531 G T S R N W N T V R K L A E M V
UniRef90_B0T4W6 T A R N W N T V L K L A A M V
UniRef90_UPI00036E8589 L M T I R N L N T T R K L Y D L M K
UniRef90_A0A010NPV3 T G T A R N L N T V R K L I E L A
UniRef90_UPI000424993E G T S R N W N T V R K L A E M V D R
UniRef90_W6JZW5 S S T S R N T T M L T K L A A
UniRef90_M7EGR7 R A T M R K L S V T S K L S E M
UniRef90_I9CBE9 R G T A R N V R S L A R I L K M A R
UniRef90_G8S100 S M T I R S W K T T V T L A E M L D
UniRef90_UPI0004660C4E G T S R N W N T V R K L A E I L
UniRef90_C9Z9V9 P A T A R D W T T V T G V L D L A R E
UniRef90_F6GG93 N I T T R N W N T I L K I E K K L N
UniRef90_W7BD34 K A T A R N W N T V M K M N E K S K Q
UniRef90_S3WWP7 T A T A R N W N T L E K I A T K L
UniRef90_UPI0002F0AC18 L F T S R N I N T M E R I T K K L

UniRef90_D7W2H6
UniRef90_R0EDU2
UniRef90_UPI00036C95E2
UniRef90_F6FPH1
UniRef90_V5WKK8
UniRef90_U2A2P1
UniRef90_I4EOX5
UniRef90_UPI0003B4DF9E
UniRef90_UPI00047AF45E
UniRef90_I0H646
UniRef90_G7SBW5
UniRef90_E6QKM5
UniRef90_W7BFH5
UniRef90_E8ND27
UniRef90_Q484W6
UniRef90_UPI0003B3591B
UniRef90_B1ZPA6
UniRef90_UPI0003B4CD81
UniRef90_UPI0003B6150F
UniRef90_B4SKC6
UniRef90_G4L918
UniRef90_UPI0004084D76
UniRef90_F8WY22
UniRef90_W7D083
UniRef90_C8N7D2
UniRef90_D9QHQ1
UniRef90_W0V2J0
UniRef90_UPI0003607BD7
UniRef90_UPI0003B57AF9
UniRef90_T1AMA7
UniRef90_D0WJZ7
UniRef90_UPI00047A3695
UniRef90_V6S0P6
UniRef90_R7WL79
UniRef90_R9C6U6
UniRef90_B9XNZ7
UniRef90_I3X812
UniRef90_D1BKW5
UniRef90_Q9A616
UniRef90_U7N1J37
UniRef90_B9JFG5
UniRef90_K4PRJ0
UniRef90_D5VFS3
UniRef90_UPI00037A6B1D
UniRef90_L8DHK1
UniRef90_M5ESL2
UniRef90_UPI00037D194E
UniRef90_C2FUYY4
UniRef90_H6R860
UniRef90_UPI000367A290
UniRef90_UPI0003797DBE
UniRef90_D5UHI6
UniRef90_A4CM91
UniRef90_H1D7P5
UniRef90_F0S8S2
UniRef90_UPI00037C0DCC
UniRef90_K6TVB4
UniRef90_F6BWD6
UniRef90_UPI00029B42F6
UniRef90_X6L1C6
UniRef90_M2CLV8
UniRef90_UPI000364CDA0
UniRef90_UPI0003B57449
UniRef90_UPI0003FFBD6D
UniRef90_UPI00046781CF
UniRef90_UPI0004412E75
UniRef90_A0A011UQZ7
UniRef90_F0L638
UniRef90_W6VWV2
UniRef90_G2ZB23
UniRef90_C6X5R2
UniRef90_E6J722
UniRef90_UPI00047B1DCB
UniRef90_UPI000347373F
UniRef90_Q8U586
UniRef90_V6RVL3
UniRef90_K2NW82
UniRef90_D3UP71
UniRef90_UPI0003651FF3
UniRef90_A6G9X9
UniRef90_W1Q652
UniRef90_K1E056
UniRef90_UPI0003B6FBC6
UniRef90_A4AIK6
UniRef90_V4R8N7
UniRef90_UPI0003A1F8F1
UniRef90_N1USU2
UniRef90_W5TC68
UniRef90_UPI000349A827
UniRef90_G7GRS4
UniRef90_N6U609
UniRef90_BOSZY1

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

UniRef90_D7W2H6
UniRef90_R0EDU2
UniRef90_UPI00036C95E2
UniRef90_F6FPH1
UniRef90_V5WKK8
UniRef90_U2A2P1
UniRef90_I4EOX5
UniRef90_UPI0003B4DF9E
UniRef90_UPI00047AF45E
UniRef90_I0H646
UniRef90_G7SBW5
UniRef90_E6QKM5
UniRef90_W7BFH5
UniRef90_E8ND27
UniRef90_Q484W6
UniRef90_UPI0003B3591B
UniRef90_B1ZPA6
UniRef90_UPI0003B4CD81
UniRef90_UPI0003B6150F
UniRef90_B4SKC6
UniRef90_G4L918
UniRef90_UPI0004084D76
UniRef90_F8WYZZ
UniRef90_W7D083
UniRef90_C8N7D2
UniRef90_D9QHQ1
UniRef90_W0V2J0
UniRef90_UPI0003607BD7
UniRef90_UPI0003B57AF9
UniRef90_T1AMA7
UniRef90_D0WJZ7
UniRef90_UPI00047A3695
UniRef90_V6S0P6
UniRef90_R7WL79
UniRef90_R9C6U6
UniRef90_B9XNZ7
UniRef90_I3X812
UniRef90_D1BKW5
UniRef90_Q9A616
UniRef90_M7NJ37
UniRef90_B9JFG5
UniRef90_K4PRJ0
UniRef90_D5VFS3
UniRef90_UPI00037A6B1D
UniRef90_L8DHK1
UniRef90_M5ESL2
UniRef90_UPI00037D194E
UniRef90_C2FUYY4
UniRef90_H6R860
UniRef90_UPI000367A290
UniRef90_UPI0003797DBE
UniRef90_D5UHI6
UniRef90_A4CM91
UniRef90_H1D7P5
UniRef90_F0S8S2
UniRef90_UPI00037C0DCC
UniRef90_K6TVB4
UniRef90_F6BWD6
UniRef90_UPI00029B42F6
UniRef90_X6L1C6
UniRef90_M2CLV8
UniRef90_UPI000364CDA0
UniRef90_UPI0003B57449
UniRef90_UPI0003FFBD6D
UniRef90_UPI00046781CF
UniRef90_UPI0004412E75
UniRef90_A0A011UQZ7
UniRef90_F0L638
UniRef90_W6VWV2
UniRef90_G2ZB23
UniRef90_C6X5R2
UniRef90_E6J7Z2
UniRef90_UPI00047B1DCB
UniRef90_UPI000347373F
UniRef90_Q8U586
UniRef90_V6RVL3
UniRef90_K2NW82
UniRef90_D3UP71
UniRef90_UPI0003651FF3
UniRef90_A6G9X9
UniRef90_W1Q652
UniRef90_K1E056
UniRef90_UPI0003B6FBC6
UniRef90_A4AIK6
UniRef90_V4R8N7
UniRef90_UPI0003A1F8F1
UniRef90_N1USU2
UniRef90_W5TC68
UniRef90_UPI000349A827
UniRef90_G7GRS4
UniRef90_N6U609
UniRef90_BOSZY1

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

UniRef90_D7W2H6
UniRef90_R0EDU2
UniRef90_UPI00036C95E2
UniRef90_F6FPH1
UniRef90_V5WKK8
UniRef90_U2A2P1
UniRef90_I4EOX5
UniRef90_UPI0003B4DF9E
UniRef90_UPI00047AF45E
UniRef90_I0H646
UniRef90_G7SBW5
UniRef90_E6QKM5
UniRef90_W7BFH5
UniRef90_E8ND27
UniRef90_Q484W6
UniRef90_UPI0003B3591B
UniRef90_B1ZPA6
UniRef90_UPI0003B4CD81
UniRef90_UPI0003B6150F
UniRef90_B4SKC6
UniRef90_G4L918
UniRef90_UPI0004084D76
UniRef90_F8WY22
UniRef90_W7D083
UniRef90_C8N7D2
UniRef90_D9QHQ1
UniRef90_W0V2J0
UniRef90_UPI0003607BD7
UniRef90_UPI0003B57AF9
UniRef90_T1AMA7
UniRef90_D0WJZ7
UniRef90_UPI00047A3695
UniRef90_V6S0P6
UniRef90_R7WL79
UniRef90_R9C6U6
UniRef90_B9XNZ7
UniRef90_I3X812
UniRef90_D1BKW5
UniRef90_Q9A616
UniRef90_M7NJ37
UniRef90_B9JFG5
UniRef90_K4PRJ0
UniRef90_D5VFS3
UniRef90_UPI00037A6B1D
UniRef90_L8DHK1
UniRef90_M5ESL2
UniRef90_UPI00037D194E
UniRef90_C2FU44
UniRef90_H6R860
UniRef90_UPI000367A290
UniRef90_UPI0003797DBE
UniRef90_D5UHI6
UniRef90_A4CM91
UniRef90_H1D7P5
UniRef90_F0S8S2
UniRef90_UPI00037C0DCC
UniRef90_K6TVB4
UniRef90_F6BWD6
UniRef90_UPI00029B42F6
UniRef90_X6L1C6
UniRef90_M2CLV8
UniRef90_UPI000364CDA0
UniRef90_UPI0003B57449
UniRef90_UPI0003FFBD6D
UniRef90_UPI00046781CF
UniRef90_UPI0004412E75
UniRef90_A0A011UQZ7
UniRef90_F0L638
UniRef90_W6VWV2
UniRef90_G2ZB23
UniRef90_C6X5R2
UniRef90_E6J722
UniRef90_UPI00047B1DCB
UniRef90_UPI000347373F
UniRef90_Q8U586
UniRef90_V6RVL3
UniRef90_K2NW82
UniRef90_D3UP71
UniRef90_UPI0003651FF3
UniRef90_A6G9X9
UniRef90_W1Q652
UniRef90_K1E056
UniRef90_UPI0003B6FBC6
UniRef90_A4AIK6
UniRef90_V4R8N7
UniRef90_UPI0003A1F8F1
UniRef90_N1USU2
UniRef90_W5TC68
UniRef90_UPI000349A827
UniRef90_G7GRS4
UniRef90_N6U609
UniRef90_BOSZY1

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

UniRef90_D7W2H6 UniRef90_R0EDU2 UniRef90_UPI00036C95E2 UniRef90_F6FPH1 UniRef90_V5WKK8 UniRef90_U2A2P1 UniRef90_I4EOX5 UniRef90_UPI0003B4DF9E UniRef90_UPI00047AF45E UniRef90_I0H646 UniRef90_G7SBW5 UniRef90_E6QKM5 UniRef90_W7BFH5 UniRef90_E8ND27 UniRef90_Q484W6 UniRef90_UPI0003B3591B UniRef90_B1ZPA6 UniRef90_UPI0003B4CD81 UniRef90_UPI0003B6150F UniRef90_B4SKC6 UniRef90_G4L918 UniRef90_UPI0004084D76 UniRef90_F8WY22 UniRef90_W7D083 UniRef90_C8N7D2 UniRef90_D9QHQ1 UniRef90_W0V2J0 UniRef90_UPI0003607BD7 UniRef90_UPI0003B57AF9 UniRef90_T1AMA7 UniRef90_D0WJZ7 UniRef90_UPI00047A3695 UniRef90_V6S0P6 UniRef90_R7WL79 UniRef90_R9C6U6 UniRef90_B9XNZ7 UniRef90_I3X812 UniRef90_D1BKW5 UniRef90_Q9A616 UniRef90_M7NJ37 UniRef90_B9JFG5 UniRef90_K4PRJ0 UniRef90_D5VFS3 UniRef90_UPI00037A6B1D UniRef90_L8DHK1 UniRef90_M5ESL2 UniRef90_UPI00037D194E UniRef90_C2FUy4 UniRef90_H6R860 UniRef90_UPI000367A290 UniRef90_UPI0003797DBE UniRef90_D5UHI6 UniRef90_A4CM91 UniRef90_H1D7P5 UniRef90_F0S8S2 UniRef90_UPI00037C0DCC UniRef90_K6TVB4 UniRef90_F6BWD6 UniRef90_UPI00029B42F6 UniRef90_X6L1C6 UniRef90_M2CLV8 UniRef90_UPI000364CDA0 UniRef90_UPI0003B57449 UniRef90_UPI0003FFBD6D UniRef90_UPI00046781CF UniRef90_UPI0004412E75 UniRef90_A0A011UQZ7 UniRef90_F0L638 UniRef90_W6VWV2 UniRef90_G2ZB23 UniRef90_C6X5R2 UniRef90_E6J722 UniRef90_UPI00047B1DCB UniRef90_UPI000347373F UniRef90_Q8U586 UniRef90_V6RVL3 UniRef90_K2NW82 UniRef90_D3UP71 UniRef90_UPI0003651FF3 UniRef90_A6G9X9 UniRef90_W1Q652 UniRef90_K1E056 UniRef90_UPI0003B6FBC6 UniRef90_A4AIK6 UniRef90_V4R8N7 UniRef90_UPI0003A1F8F1 UniRef90_N1USU2 UniRef90_W5TC68 UniRef90_UPI000349A827 UniRef90_G7GRS4 UniRef90_N6U609 UniRef90_BOSZY1

UniRef90_D7W2H6 Q F T S R N V N T F E K V L K K M
UniRef90_R0EDU2 V G T A R N W N T V V K L L E M A Q
UniRef90_UPI00036C95E2 C M T M R K L S V I K R R L S E L
UniRef90_F6FPH1 W T T G R N W N T V R R L H A M
UniRef90_V5WKK8 S L T I R N V N T V R K L S S M L N Q
UniRef90_U2A2P1
UniRef90_I4EOX5 I A T T R K L S V I K K L I D
UniRef90_UPI0003B4DF9E
UniRef90_UPI00047AF45E S L T I R N F R T T L K V Y S L L Q
UniRef90_I0H646 S M T I R S W G T T V K L L T M L N
UniRef90_G7SBW5 T A T M R K L S V I S R L S E M A K
UniRef90_E6QKM5 F G T A R N I N T V S Q L A R M A R
UniRef90_W7BFH5 K A T A R N W N T V L K M A E K V N
UniRef90_E8ND27 I G T A R N A N T I A K L L A L
UniRef90_Q484W6 P A S G R N L N T T N K V S A M L K K
UniRef90_UPI0003B3591B S G T A R N L R T V R R L I D L A
UniRef90_B1ZPA6 E C T V R N L R T V R Q M V G L Y G E
UniRef90_UPI0003B4CD81 P A T V R N W R T V L A V E E M L R
UniRef90_UPI0003B6150F L T T N R N L N T L R K L L
UniRef90_B4SKC6 Q G T A R N L N T V G K L
UniRef90_G4L918 S L T M R N W R T T M K M N E L L N
UniRef90_UPI0004084D76 A T T T R N L R T L N K M L
UniRef90_F8WY22 H C T S R N I K T I N K L V E L
UniRef90_W7D083 K A T A R N W R T I T A M Q E K S K
UniRef90_C8N7D2 R L T T R N E N T L R K M I
UniRef90_D9QHQ1 T G T G R N W N T V L K L A A M V
UniRef90_W0V2J0 A V T S R N W S T M N K L H A L L
UniRef90_UPI0003607BD7 G T L R N W N T V R G L R D M
UniRef90_UPI0003B57AF9 K A T F R N I T T V R K L V
UniRef90_T1AMA7 A G T A R N M N T I G R L A A M A D E
UniRef90_D0WJZ7 T V T A R N M R T L R K L V T M L D
UniRef90_UPI00047A3695 V A T T R N W R T I N T L F K I S S E
UniRef90_V6S0P6 T A T M R N L N T V T K L L E M Y N E
UniRef90_R7WL79 G T T S R N L R T L R R I L A
UniRef90_R9C6U6 K M T V R N V N T T R K I Y E I M K
UniRef90_B9XNZ7 Q V T T R N W N T V L R I
UniRef90_I3X812 G T W R N W N T V K G L R A M L
UniRef90_D1BKW5 D G T A R N W T V L R L R D L
UniRef90_Q9A616 T M R N W N T V L K L A D M V
UniRef90_M7NJ37 L V T T R N M N T V E K I E A A L R
UniRef90_B9JFG5 G T L R N W N T V R G V A R M
UniRef90_K4PRJ0 T V T M R K L S V A S R L S E M
UniRef90_D5VFS3 V G T T R N W N T V M A L A G M M D
UniRef90_UPI00037A6B1D A A T G R N L N T L N K V S T L
UniRef90_L8DHK1
UniRef90_M5ESL2 G T S R N W N T V R K L A E M V A K
UniRef90_UPI00037D194E P N T A R N W N T V L K L R A L A E Q
UniRef90_C2FUY4 T F T S R N M N T F E K I L K K M
UniRef90_H6R860 D I T T R T W L T V Q R V V K K M E
UniRef90_UPI000367A290 V G T A R N I T V V R A L A E
UniRef90_UPI0003797DBE G T L R N W N T V R G L A E M L R
UniRef90_D5UHI6 A R N W R T V T T L A R M A D E
UniRef90_A4CM91 Q I T A R N R N T V E K L L G M L P E
UniRef90_H1D7P5 T A T M R K L N V I E H L I K I
UniRef90_F0S8S2 Q F T S R N I N T I E K I L K K M
UniRef90_UPI00037C0DCC D V T V R N W N T V V A L A E L
UniRef90_K6TVB4 D L T I R T W K T V D K I
UniRef90_F6BWD6 G T V R N W N T V K G L R G M V
UniRef90_UPI00029B42F6 R L T T R N L N T V R R I L A
UniRef90_X6L1C6 S G T L R N L N T L R K V Q Q M A
UniRef90_M2CLV8 D M T V R N V N T A R H L A
UniRef90_UPI000364CDA0 D A T T R F F H T L V K I L A A A R K
UniRef90_UPI0003B57449 S A T A R N L A T V R R L R A M V E
UniRef90_UPI0003FFBD6D G T L R N W N T V K G L R A M V
UniRef90_UPI00046781CF T S T M R K I N V V K H L I E I
UniRef90_UPI0004412E75 S G T A R N W R T L S A V A A L M
UniRef90_A0A011UQZ7
UniRef90_F0L638 G T T R N A N T V N G I A E M L R
UniRef90_W6VWV2 G T I R N A N T V A G L A E M
UniRef90_G2ZB23 V T T S R N W R T T I K L Q T F L Q
UniRef90_C6X5R2 K I T S R N I N T F E K I L K
UniRef90_E6J722 H L T M R N I R T L R K I L A L
UniRef90_UPI00047B1DCB V C T T R N L R T L Q K V R E
UniRef90_UPI000347373F T T T T R N V N T L R K L L
UniRef90_Q8U586 G T T R N A N T V N G L A E M L R
UniRef90_V6RVL3 T A T I R N W N T V T N L L S L F E E
UniRef90_K2NW82 L F T S R N I N T M E K I I
UniRef90_D3UP71 T S R N W R T T L K L Q T F L Q
UniRef90_UPI0003651FF3 T M T G R N W R T L E R L I E L
UniRef90_A6G9X9 V S T V R N W R T V N A L V E
UniRef90_W1Q652 R M T M R K L S V V N R L
UniRef90_K1E056 D I T T R T W L T V Q R I V R K L E
UniRef90_UPI0003B6FBC6
UniRef90_A4AIK6 R M T V R N W R T T N R L L E M L D
UniRef90_V4R8N7 G T S R V W N T L K R L E P L L E
UniRef90_UPI0003A1F8F1 A F T S R N L N T F E K V L K K M
UniRef90_N1USU2
UniRef90_W5TC68 E I T T R T W L T V Q K V L A K L
UniRef90_UPI000349A827 V S T M R K L G V I E E L
UniRef90_G7GRS4 T G T G R N L R T V A K L I A L A
UniRef90_N6U609 G T M R N W N T V R G L A D M
UniRef90_B0SZY1 R I T G R N W T T V L A L A M L

UniRef90_Q5YRQ6 1 M H R Y A A L L R G I M P S N P N M R N D K L R G V F E G L L G F E K V A T V L S
UniRef90_X5QX12 M Q T Y V A L L R Y S I V L G G Q R V V M S D L K A M A E G L G L N D V P R T L V L S
UniRef90_G7WH06 N K Q V A L L R R A I N V G G R K R V A M A D L A R S L V V E D L G L G N D V V R T L V L S
UniRef90_UPI0003B7148D M A R F V A F L R A V N V G K R T V A M A T A R R Q T L E D L G L G N D V V G S Y V L N N Q
UniRef90_UPI0004286ECE Y V A L L R R G I N L G G K N K V D M K S L R S L F E E Q M G F F Q D N V R S Y I L Q
UniRef90_K0F4A4 M H T Y A A L L R R A I P S G K N M S N D K L R G V F E E R L G F F Q N V V A S V L A
UniRef90_A0AJN5 M E K Y V A L L R R A V N V G K N K V N M K D L R K N A L E K E G F F Q N V V A S V L Q
UniRef90_U5E996 M E S Y A A L L R R G I M P T N P N M R N E K L R G V L E G L G F F E K V S S V L T N
UniRef90_UPI00034DCF03 M P T Y V A L L R R A I N V T G R F V I R M Q E L L A E A F H R L G F F E D A R T Y I L A
UniRef90_A0A022LTV0 M D R W V A L L R G V N V N G V T I R S A E L L A E L F R G L L G F F E D D V R T V L A
UniRef90_H5TX04 Y A V F L R G V N V A G T P M K M V E L R R E L A G D L G A T S D I S T Y I L A
UniRef90_UPI00047A4C35 M K N Y V A L L R K A V N V G G K N K I N M N E L R R T V I Q A A G F F T N E V K T Y I L A
UniRef90_E3ZH13 M T R Y A V F L R G V N V G G V K V L M K E L T Q L L L D A G F F T E V I K T Y L L A
UniRef90_E1VZ25 M D R Y I A L L R G I N I G K N K I P M S E L K E A F H S L N F Y F Q I K T Y L N Q
UniRef90_G5K313 H I L L L R G V T P G K N A I P M S Y L V D I L I E A D F Q H V I R T Y I Q
UniRef90_E8JYP8 M Q T Y V A L L Y S I G L G G R R L V M S D L K A M A Y E L G F F K N P R T L V A
UniRef90_UPI0004168FC7 M T H Y A A F L R G V N V G G V N L K M A E V A A A L S A A G F F S A V T R T L L A
UniRef90_I0RUP2 M T V Y V A L L R H S I V L G P R R L V M A D L R A M A E G L G F F R N T R T L V A
UniRef90_A0A021X6Y8 M I R Y A A L L R G I M P T N P N M R G E K L R E V F T G L G F D S V G S V L T
UniRef90_UPI00035FB489 M N S Y V A L L R Y S I V L S G R R V V M G D L K A M A E A G L G F H R S P R T L A A
UniRef90_W81613 M N K Y A V F L R G V N V G G V K V L M K D L T Q L L E Q G G F S E V T T L L A
UniRef90_UPI0003B34FF9 M H S Y A A F L R G I M P S N P N M R G E K L R G V F E E G L G F F E K V S T L L S
UniRef90_W8A208 K Y C A F L R G V N V G G T N M K M T D V C K Q V F E R D A G F M Q D V R S I I A
UniRef90_T0MVK1 M K K Y V I F L R G I N T G G L K I K M E L K K T L E L P E F M K T V T T L L A
UniRef90_S4D5J7 M N T Y A A F L R G I N V G K T R I K M V D L K D A F E S M G F K N V R T L L A
UniRef90_K2R673 M N T Y A A F L R G I N V G G K N I A M A D L Q A L A A S L G L A G S P S T L L N A
UniRef90_UPI00047A86EE M V S Y V A L L R A V N V G G T K L P M T E L K A M C A A E G L F A K V R T Y I A
UniRef90_U1LM86 R I A L L L R G V N V G G V T V R S A D L K A L L E G A G L D E V I T V L A
UniRef90_A0A024KI98 Y A A F L R G V N L G G R T T R S A D L K A A F E A M G Y K D A R T L I A
UniRef90_UPI0003B34FF9 M E N F A V F L R G V N V G G V T I K S A D L K A C L A A L P V S V G K K L L A
UniRef90_V5BML6 M N T Y L L L L R G I N I G G R K V I K M S E L R E W F V Q Q G F A E N V I T F G N
UniRef90_H1X790 M E S Y V A L L R G I N V G G K N K I N M A D L R R M A A Q L G A E H D V S T L L N
UniRef90_Q7P208 M G S W V L L L R G V G G R T Q I N P R L L R A V L G A E G F G R V A V F G Q
UniRef90_A0A017HBS8 Y A F L R A V N V G G R V V M A A I A A H F R A M G F H D V S T F L A
UniRef90_T0R1X8 Y I A F L R A V N V P G R V K E M A R L R E V L T Q L G F M G A R T Y I L A
UniRef90_Q8GGM4 Y L L L L R G I N G G S H P V K M A T L R A L L T A A G F V H V T S Y A N
UniRef90_UPI000364FBD0 M A Y L A E I L T E A G L E N V K T Y I Q
UniRef90_B1SE78 S T Y V M F L R G I N V G G V R V P M P L R E V L T E A G A R E N V T W L A
UniRef90_E3B9L0 M N R Y A A L L R G I M P A N P N M R G E K L R G V F E E G L G F A S V G S V L A
UniRef90_UPI0004666308 M T R F V G L L Y S I S L P G K R V I L N A P L C G L L S A L H S E V T A L L A
UniRef90_G4REU8 M T T Y A V F L R G I N V G G I N I K M A D L R K L L S S L P L R D V S T L L A
UniRef90_UPI00047EF4F9 K F V L L L R A I N V G G N K V K M A E L R E S L A K E G F F R N V K T Y I Q
UniRef90_M3I930 M S V R I G F L R A V N L G R R R V A M S R L A A V C E G L G Y S D V W T F V N
UniRef90_W9GCU8 M S R W V A L L R G I N V G G A S I R S A E L A A L F R E L G F E D V R T V L A
UniRef90_Z9JWM8 K Y V V L L R A I N V G G N K V I K M A A L K S T L F E K G F F A N V T T Y I Q
UniRef90_E1LK79 V A L L R G I N V G G R K R V A M A D L R K L L G D 31 H O V 2 R T A F E D A G F T N V R T Y I N
UniRef90_W7CK59 Y I A L L R G I N V G G R K V Q M N L L R T A F E D A G F T N V R T Y I N
UniRef90_UPI00031H0V2 T H V L L L R G I N V G G H R V P M A H L R Q G I A T A A G A G L E V R T T H I N S
UniRef90_UPI000468F071 M T T Y V A L L R G I N V G G H R V P M A H L R Q G I A T A A G A G L E V R T T H I N S
UniRef90_UPI000255F700 M T T Y V A L L R G I N V G G H R V P M A H L R Q G I A T A A G A G L E V R T T H I N S
UniRef90_UPI00036DD395 M T T Y V A L L R G I N V G G H R V P M A H L R Q G I A T A A G A G L E V R T T H I N S
UniRef90_S3X7Q1 M T R Y V A L L R A I N A P T N P S M R N E N L R R V A E S G L G L T G V R T V I S
UniRef90_UPI000364F48B M P T Y L A F L R A I N L G P T N P S M R N E N L R R V V E S V G F T D V E T H I N
UniRef90_UPI000364F48B M K S Y I V F L R G I N V G G R K V P M K S L Q S W L A E S G Y Q A V K S Y L Q
UniRef90_H6L434 M E R S V L L R G I N V G R A K V P M A Q L T A A L D G L G Y V R A E T H I L
UniRef90_B0RB90 M T R Y C A F F A S L I V G G D R L S M A D L R Y A F E R E E L E N A E T V I S
UniRef90_T0I5F1 R F V A F F R N L N L G R P K P T R Q Q F V I E A F E Q A G K D V R S V L T S
UniRef90_UPI000471B546 M C T F I A L L H S I V L S E R R V I K M E D L R K L A E E L G Y S A V P R T L V S
UniRef90_J2L953 M T H Y A A F L R G V N V G G V N L K M A E V A A A L S A A G F S A V R T L L A
UniRef90_X8E036 M S T W I V F L R A V N V G A R T Y P M A E L R D L L T K E G Y G D V E T H I Q
UniRef90_E6SEI2 Y Y V A L L H S V V L A G R R V V M S D L R D M A T N L G Y R N P R T L V S
UniRef90_K0PVY8 M T R Y L A F L R A I N V G G S P V N A S M P A L R A A F E A A G F G Q V R T V L G
UniRef90_UPI0003761A8D R C F V F L R A I N T S G R R V T N D E L L A P F S A L G F D E V T A Y Q A
UniRef90_M5A3F9 M H R Y V L L L R G I N V G G S K L K M A D L K K T L S N K F Q N I K S Y L A
UniRef90_D2VGD1 Y A A L L R G I N V G G N N I M K L L K S T F E Q A G M T R V K T Y I L A
UniRef90_UPI00036D2C6B V G L V R G I N V G A T R V A K G D L V A A F E D A G L H D V V I T L L Q
UniRef90_U2T562 K Y V L L L R G I N V G G N K I V M A D L R Q A V A G L G Y D N V E T Y I N
UniRef90_UPI000403813B M T T Y L A F L R A I N L G A K R V P K E D I R R V V E A A G F E G V E T H I N
UniRef90_UPI000363182C M L K D L G F K N P Q V Y I H
UniRef90_A6ENA2 M P R H L A F L R A I N L G H H K V P M A E L R E R L T D A G F T D V E T H I Q
UniRef90_A3TKY5 M G V W I A L L R A V N V G G K R Y P M A E L R A L E A A G F A G V E T H I Q
UniRef90_UPI0003B577D4 M E S Y V V L L R G I N V G K N H L A M S D L K K L E S L N F T Q V T T Y I R
UniRef90_K8E474 M N K Y L I F L R S I N I S Q N L I K M K E L K E E L S K V S I K I E T Y I Q
UniRef90_Q54C13 R T L L A
UniRef90_X8A4X0 M T T H V A F L R A I N L G R R K F P K E A I R A A C E M A G F S D V E T Y I N
UniRef90_R7Y084 M K T Y I A L L R G I N V G Q K K L M K D L S S L F E S L G F M N V Q T Y I Q
UniRef90_M3ID73 M P R Y I A F L R G V S P M N A R M P E L K R C F E A A G F F V K T L L S
UniRef90_Q46SF1 R R V L L L R G I N V G G G R I A M S D L I E C T E A A G G S S V R T V L A
UniRef90_UPI000422LML3 M I L R I G F F R G L N V G G N K L A M T A L K S I F Q D M N F Q T K T I G N
UniRef90_R2S8D1 Q T Y I Q
UniRef90_M7MG80 M T H Y A A F L R G V N V G G V N L K M A E V A A A L S A A G F S A V R T L L A
UniRef90_X8C3Q1 V I L L R G V N V G G Y Q V K S A R L T A C L K G L P V T A V K T V L A
UniRef90_UPI000372B3C2 M E N S D V F E N V K T Y I Q
UniRef90_F3LGV8 V A F L R G V N V G G R V H S M K S I A D A L S K A G F G N V E T F L A
UniRef90_H3HDI6 M C E D L G F R N A V S Y L Q
UniRef90_UPI00016A5527 M L R G I N V G Q R K L A M K E L V S L C Q S L G F A E V E S Y L Q
UniRef90_UPI0003764D10 T Y I G F L R A I N L G K R K F P Q D A I R A A V E A A G G T D V E T Y L N
UniRef90_A1SG77 R Y A T F L R A V N A G K N S F R M E D L R A L L R A E G F A V R T Y L Q
UniRef90_UPI0003704371 M R N Y V V L L R A V N V G K N K V N M K N L Q A A L Q E V F Q N V T Y I Q
UniRef90_J7NRN5 M N T Y V I L L R A I G P I T H K V S M A Q W R D G V A A A G F A E P A T Y L A
UniRef90_UPI0003704371 M N T Y V I L L R A I G P I T H K V S M A Q W R D G V A A A G F A E P A T Y L A

UniRef90_Q5YRQ6 S G N L V F R T P T D T A E L E D R I I Q G A L N A E L G L A G G T L V R D Y D E G E
UniRef90_X5QX12 T G N V V F E A Q E T E L A A T E E Q R I L E A A F A K E T F G R H V D I I V R R A D E G E
UniRef90_G7WH06 S G N V V F F S A I P E K A H A A D S H A Q R I E R L G L E E K L G V S A K V T V V R S A E A Q E
UniRef90_UPI0003B7148D S G N V L I F F T A I P E G A A A D S H A Q R I E R L G L E E K L G V S A K V T V V R S A E A Q E
UniRef90_UPI0004286ECE T G N I L F D S A N Y S C D E Q E L A A T E E Q R I E R L G L E E K L G V S A K V T V V R S A E A Q E
UniRef90_K0F4A4 S G N I L F D S A N Y S C D E Q E L A A T E E Q R I E R L G L E E K L G V S A K V T V V R S A E A Q E
UniRef90_A0AJN5 S G N L V L D S D T Q D S E S E L V A E D R I Q E E A L A A E L G L P G G T I I R S A H T Q N E
UniRef90_U5E996 S G N L V F R S T S G D E P A G R L L A Q A L E E Q G L A P D R L G F R A E A F V R K H D D A
UniRef90_UPI00034DCF03 S G N V V F F A A D V P A G R L L A Q A L E E Q G L A P D R L G F R A E A F V R K H D D A
UniRef90_A0A022LTV0 S G N V V F F A A D V P A G R L L A Q A L E E Q G L A P D R L G F R A E A F V R K H D D A
UniRef90_H5TX04 S G N L I C T P P A S S H H F D R A L E E A A I E Q R Y G F F R E V I S R S R D E C
UniRef90_UPI00047A4C35 S G N V V L Q S K T L G A A A E L K P L V E E R L Q A A F G Y D A W V V V T D R E C
UniRef90_E3ZH13 S G N I I L S S K Q T E E L V A K K L J E I I Q N A T F E L T I D V L V Y E E V N
UniRef90_E1VZ25 S G N V V L S S V I Q T T D P A I Q E Q C I N A L L A S H Y Q R P I P T L V Y T V E E
UniRef90_G5K313 T G N V I F P S R E T D N T L S Q I E M M I K T N F G L T I P V F P P S V K N D
UniRef90_E8JYP8 S G N I I L E S D L S L E I L R E Q R L E T A F E K T F G R H V D I I V R D A G G
UniRef90_UPI0004168FC7 T G N L V F E A R A A R S S L R E Q R L E T A F E K T F G R H V D I I V R D A G G
UniRef90_I0RUP2 S G N V L L E F S D A G A V V R G K A E A V L R E K F G Y D A W V L V Y D A D T
UniRef90_A0A021X6Y8 T G N L I F E S G D D A P S A I E E S R L E T A F H A R F G K H V D I I L R S S A E D
UniRef90_UPI00035FB489 S G N I V F G S T E T D P A I E E S R L E T A F H A R F G K H V D I I L R S S A E D
UniRef90_W81613 T G N L L F E T D R A V G L E A A L E T A F A E T F G R Q V D I I V R P G S D E
UniRef90_UPI0003B34FF9 S G N A V L N S T V D P V E V Q E F N E L L R E H Y Q R D I P T L V F T R S Q Q E
UniRef90_W8A208 S G N V V F Q S T R E S N P A L E S K I Q Q A L N T E L G I P G G T L I R T R S Q
UniRef90_T0MVK1 S G N I V F S S D K N E I D E L K L L E K S M S A Y F S Y D A V L F I K S T R E D E
UniRef90_S4D5J7 T G N V I J E T S A D E T L E K V L V C L S E H W Q R P I Y G L I R T Q E
UniRef90_K2R673 S G N V V F D S D E S E K L T E K I E S G L K N V F N R D I A V I L R S I D H
UniRef90_UPI00047A86EE S G N L V Y R S S H R G G A P E E A R Q L H E A I A E R V G L R S T V I V R T Y D E
UniRef90_UPI000225FBC2 S G N V V F S S D R P A L E V K R A L E K R L E D H A G K P V I G L R T A K E
UniRef90_U1LM86 S G N A V V I T A T D A S A A R A A E V A L E A R Y G R R I R V L G I A I D D E
UniRef90_A0A024KI98 S G N V L F S A E E A D A E L L A G A T I E K G L K E K F G F E I G V V L R S L D E R
UniRef90_A9WMH4 S G N V V L Q A S E L T A G E L K Y A V E T A L R E R F G Y E A W V V L T G S R
UniRef90_V5BML6 S G N V I F Q D K N T N E K S A D E I A K L V L E K N G F E P K V L L L S L E E
UniRef90_H1X790 A G N V I A A V L E S D T V D F A S L G I A L S A H E G F E I H L F G L S L A D
UniRef90_Q7P208 S G N L V C R H R S A P L V D A A G L E A A I V R D C G F S A R A L A S G R A
UniRef90_A0A017HBS8 S G N A V V I T S P L P R E E V A W L A I E S C A R E M G F R K D I H V I P G A D
UniRef90_T0R1X8 S G N V L F D A N G A P E D L E G R I E S Y L S A E H V G F E I P V M V R S K A Q
UniRef90_Q8GGM4 S G N A F F T A N G N D R A R I V E R V E A G L A E A F G F E V P T I L R T T D E
UniRef90_UPI000364FBD0 S G N L C F F T S N Q S Q P A C E Q R I A A V L S N N F A F P I N F G V F A K S A
UniRef90_B1SE78 S G N I V L F E T T L S D D D V C T L H D T I Q A K I G A D E I G S V L K T Q A Q
UniRef90_E3B9L0 T G N V R L A F T D G P A D D L K T L A E R V L S D E F G Y E A Y V L R D A D E
UniRef90_UPI0004666308 S G N V V F G C A E T D P A L K E S R I Q Q A L N A E L G I G G G T I V R S R D E
UniRef90_G4REU8 T G N V V F T A S E A G P V E V K N I E T C L R D N F G Y D A W V V L T A E R
UniRef90_UPI00047EF4F9 S G N I L C A S E A G P V E V K N I E T C L R D N F G Y D A W V V L T A E R
UniRef90_M3I930 S G N L I L E A S F S K Q A V V R G Q I E Q H L N T Y Y A I Q N A T V V V L E E E
UniRef90_W9GCU8 S G N V V F D A I G R D A S E A A M E R A L E E E L G F E C T T F V R T A Q Q
UniRef90_Z9JWM8 T G N V D F T A D V D R G D S P K E R I E A A L G E R F G Y E A W I V L L P H D E
UniRef90_E1LK79 S G N V I I L E G A F S K T E A L K Q I E N L L S S E Y G I N T R T V V L S K E D
UniRef90_W7CK59 S G N V V V Y D G G F K A P A E A A A R I E E A L V L K L G V A A R V T V L S A S Q
UniRef90_UPI000468F071 S G N V L F E T P E T E T E L V I A V C D Q L M V T T F G F S V R I A I V T A D
UniRef90_UPI000255F700 S G N V L F E A D A D A W D I A Y G V E S A L E A E L G L A V A V I P A S R A D
UniRef90_UPI00036DD395 S G N V V F T A P D S D P D E L I G T R I E A A W P E L R G F K A T T I V R S R E Q
UniRef90_S3X7Q1 S G N I V L C S E L S E A D I N A V S Q L L E D A Y G V R V P V T S R S A E E
UniRef90_F6FQ54 S G N V L F D S D G D R D A L Q Q Q L E A A R P R E L G F R S T S I V R S S H E
UniRef90_UPI000364F48B T G N V R F T T P R S R A K I E A A L E K A F A A D R G F E V P A I V F T T A E
UniRef90_H6L434 T G N V L L T T A T S P K A L E D Q L E K L L Q S K M Q D A P T V L A R T V I E D
UniRef90_B0RB90 S G N A V V D H E R P S G R G A A A I E D A V R L A T G V T A D V H V L P A A D
UniRef90_T0I5F1 S G N V L F Y D Y E E R P S E G L E L L A Y L R D L A T A F V A V R K R E E
UniRef90_UPI000471B546 H G N A V F T S Q R A A S I T R K A C K Q L E A C C G L T E P A F T R S I E H
UniRef90_J2L953 T G N L V F E A D E M R P V E E E Q L E E A F E E K F G K H V D I I V R S D C T
UniRef90_X8E036 S G N V L L E S P S D A G V V R G K A E A V L R E E K F G Y D A W V L V Y D I D T
UniRef90_E6SEI2 T G N V R L I T S P R S R A K V E G A L E A L F E A D R R F P V V T M A F T P R E
UniRef90_K0PVY8 T G N I V F E T E A L P A D I L E A K L E A A F Q A R F G K P V D I I V R R G A D
UniRef90_UPI0003761A8D S G N V A F D A P A D D E H R L E Q L A E A M A Q L G K V F P A I V R P V E H
UniRef90_M5A3F9 A G N I A L R T T S L D A L H H T Q L D P V I A D A Y G F D A P S F V R S H A Q
UniRef90_D2VGD1 S G N V I F D L N N D E R R L L E E I T N L L M K E F T F D V P V M I R S H A T E
UniRef90_UPI00036D2C6B S G N I I F A S E L N D S A E L S E L Q L E Q A I A A D F Q L D I P V M V R S L P Q
UniRef90_U2T562 S G N A V F T A D D L T A T T A A A V E A A L E A R S G V A A R V L L L I T Q E R
UniRef90_UPI000403813B S G N L F F D S T K S R G D I V A D F Q T F F A T T Y P F V K Q F A L L D A Q D
UniRef90_UPI000363182C T G N V R F D S R S R E R I E Q T L E Q A F A A D R G F F E V P T I V Y S A A E
UniRef90_A6ENA2 T G N W V F E S H E K E A D L S R K I S E A I L Q K Y G W E L P T I V I J A T A
UniRef90_A3TKY5 T G N T A L L T S T R S A A K V E L A I E D L L R E W R G F E V P T I V R S P A E
UniRef90_UPI0003B577D4 T G N V R L E S P R S R E K V E D A L E S V F L T D R G F E V S T I V L S T A E
UniRef90_K8E474 S G N V M V G K K M D T V A L A Q E I Q L K L S Q L A G F L I P I V I Y T G S E
UniRef90_Q54C13 T G N L I E S L E S K I V I K N D V I N L L S E K F S V K D P K L L A Y D I G T
UniRef90_X8A4X0 S G N V L I E S S A G V A V R R K V A E A L R E R F G Y D A W V L A Y D I G T
UniRef90_R7Y084 T G N V R V T S S R S R K V E A A L E S A F A E V A G F E V P T I A F T R A E
UniRef90_M31D73 S G N V L F Q D K N S K E L I L L E K K I V E V E G F E V L V F I R S K E E
UniRef90_Q46SF1 S G N V V F N A R N S S T S L E R R A G K A M Q E E L G R S F D T F V R P A G Y
UniRef90_A0A022LML3 T G N V I V I T D Q R P V T E L R A A L E A S Y A Q R F G Y R S V V Q V L A L D D
UniRef90_R2S8D1 T G V I L F D A E S E S K H S T D A E I A T L V S D K T G V P A S F L S I S Y A D
UniRef90_M7MG80 S G N V I L E S S E N A S I E N K L Q K A I L A Q F G F E V L V M A K T R P D
UniRef90_X8C3Q1 S G N V L L E S P S D A G V V R G K A E A V L R E K F G Y D A W V L V Y D I D T
UniRef90_UPI000372B3C2 S G N A V V R T P H E S A E L Q T L V S S A L R E N E F D H D A K V V L S L A E
UniRef90_F3LGV8 S G N I L N Y S K N P E N D I V S S L I N S N F G P Q K V L V T L S K N E
UniRef90_H3HDI6 S G N V I F D P P A G E S A I E H Q V E D A L E G L F G C H I P V L A R S M D D
UniRef90_UPI00016A5527 S G N L V L E S T L K A A E L E E S T L E R E I A S D R F G Y D V S V M A L T K A G D
UniRef90_UPI0003764D10 S G N I V L D T D L A A A E L E A T L E R A I C S E F G Y D V D V L A R T A P
UniRef90_A1SG77 T G N V R F D T R R S R A R I E R T L E D A F E A D R G F A V P T I V F T P T Q
UniRef90_UPI0003704371 T G N V W L Q S G M D P E A V A R R V E A L M P A L G C R D N I A V M V F S E Q N
UniRef90_J7NRN5 S G N L V L S S M Q T E P E V A T K I T E V M K A T F G L N I D V F V F S E Q N
UniRef90_A0A024KFB5 T G N M I A T G P G T I E T V T G R M N R V V R D L G L S N V A V V R R P A E

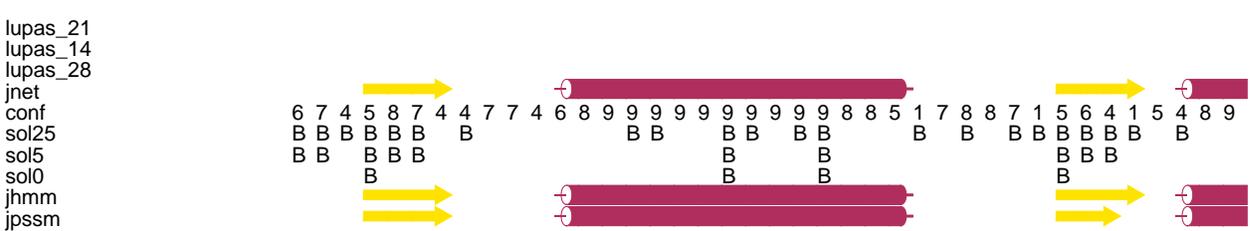
UniRef90_Q5YRQ6 L R D L L D R D P F E G H E R G S Y L T V T F F K R P I D D P E P A A P A D P L Q
UniRef90_X5QX12 W L R L L A G N P F F A E S A E A A D Q V A V R V M R A P P A E T A A A L E A Y
UniRef90_G7WH06 L V Q V L V S E N P F L D Y A A K D P S R F L V A F L E K P E S D R E K L K A D L E A R K
UniRef90_UPI0003B7148D V K A L A T E T E K P F F G E L A N G H T H F A L L P L I P L S A A E K A A V E A L Q
UniRef90_UPI0004286ECE L N K V Q Q H P L F F A N K D H V Y I V F L K H S L S H E Q F E L L I Q T
UniRef90_K0F4A4 L R A L L D N S D P F P G L T H G R G T Y L V A T F L K D G A K A P G K L P D Q P
UniRef90_U0AJN5 Y N Q I I N D S N P F F N E T I G K E E R W M A A F Y K E D Q I L P K Q K
UniRef90_U5E996 L R A L L D R D P F F E G R P H E R G S Y L T V T F F K D R M R A A D T T A F T D
UniRef90_UPI00034DCF03 L R A L A E R A T A M G S P L P A G A E V V C F L P A V A T P E H A A A L E A L Q
UniRef90_A0A022LTV0 L A A V V D G F P F A R D D D R H D Y V V F G S E D A A L D A L V A D L E F
UniRef90_H5TX04 L V I T A L D A H P F D V A D E K F S Y V Y F L V D A P P E D R L K A F S D K D
UniRef90_UPI00047A4C35 L A Q L V H A C P Y P A D S A T V H S Y V T L F S S E P A L R E N W V A E A G A S
UniRef90_E3ZH13 Y N E I I Q N N P F P P E S I G E E E H W I A I F Y K E N I H I P H Q K
UniRef90_E1VZ25 I Q Q L S A A L P L P Q P A G E H H G Y Y T L C E T A Q D A Q E E I G T A I D G L
UniRef90_G5K313 L E A I L E C A P P F W G T A D K A I I Y I I E L I P P A T F R E V F E V L G Q P
UniRef90_E8JYP8 F A K I V Q E N P F P G K H Y L F D R I H V I L F Q N D I Q S L P L E K L D G D Y
UniRef90_UPI0004168FC7 W L K L A A A N P F S T E S A E A G D Q V A V R V M R E R A P A V A V A A L Q A
UniRef90_I0RUP2 V R A I V D G Y P F F E P D R A A H Q G Y V T F V S D R A V F D E L A A L Q
UniRef90_UPI0001X6Y8 W R R V A A G N P F A D G N G A D V G I R V R M R K P L G L E I L P K L E G I
UniRef90_UPI00035FB489 L Q A L V D A A P F G E R T H G R G T Y L T V T F V K N D A P G E P S R P L P P
UniRef90_W81613 W L R L A A A N P F V E G E E N G T R V H V R V M R E P L S G A V P S D F E R Y
UniRef90_UPI0003B34FF9 I D E L A Q G L P L P E P V E G H H G Y L T L C A S A L D A R E L G Q A I A G L
UniRef90_W8A208 L Q T L V D S D P F A G L T H C R E T Y L V T F L R E T P N S L P N F P A D D
UniRef90_T0MVK1 T V L Y W E S V P F E K T T D F H I Y A F V G D T G L E T V L M A E F Q D A T
UniRef90_S4D5J7 V E N I V Q S H V V A E M P F H N Q M V L F S D Q S L Y E E L S E L F E A
UniRef90_K2R673 L K K L Q S L K P F E E V T P D I R M Y V T F F S K K A Q P H T I T S P Y T S P
UniRef90_UPI00047A86EE L V T M L R D K A P L E Q A Q L N P S R L V I T V W D E H V T P A M L A A F T T A
UniRef90_UPI000225FBC2 M A D V L K A N P F P D A P N S G T V A I F L D S P P P A G T L E T M K H R
UniRef90_U1LM86 L E R V I A D Y P H G E D D E H T P Y V V F E L E P G I A A E L A A L P F H G E
UniRef90_A0A024KI98 L R A M V A A P F L P E G A D A K R Y V M F L R E A V G K S L K L P F G V
UniRef90_A9WMH4 I G E L I A A C P Y P A D S A E L H T Y L T L F T D H A A A E R L S S E L A E L
UniRef90_V5BML6 L Q D A V A N N P F A T D K G K A L H F F F L E S Q P Q K P N T E Q L T S M
UniRef90_H1X790 I N D M M S H S P E W W G K D P R H D L I A S S E A E A K Q S L D E F A P Y
UniRef90_Q7P208 L D A I A A A N P Y A E A D D P A R L V A F P L E P A A L A D C E R V E Y E
UniRef90_A0A017HBS8 W A E L V T R N P F P E A V E N P T T L H A A F L G A D P P A R V I A A L N R L
UniRef90_T0R1X8 L D E L V A Y V D A H A P P A A S T I H A M F G K A T F S D D H V A L A T T W A
UniRef90_Q8GGM4 L R T E L A A S P F V G R Q P A P D E R F S M V Y S S G P L T D G E F P L R S A
UniRef90_UPI000364FBD0 F L J A E L Q Q A P T V W D G Q G N R Q H M C L F K L Q D Y G E H D T W L H D H L
UniRef90_B1SE78 F T T A L A E S L F D E S Y D V S R H V L V E T N D Q F S Q D K L A D L L E T
UniRef90_E3B9L0 L A N I V D A W P F T P D D A H H R Y V V L G G A P A Y D D A Q A L I D A
UniRef90_UPI0004666308 L R E L V D S D P F P G L T H G R N T Y L T A T F L K D R A G G A P P E P P A A
UniRef90_G4REU8 W E R L V A V N P F A E Q S E A D G S H V V R V M R E P V T T E A Q R L F E D R
UniRef90_UPI00047EF4F9 L A E L V E A C P Y P G D S K E M H A Y I T L T S D I E M L D E L Y Q A A G G E
UniRef90_M3I930 Y R Q V L A Q N P F T D L L E T E R L M I F Y Q N G K L D D N E V E E Q D A S Y
UniRef90_W9GCU8 L T A T L D A R P F T L A P G G H F E V T F L K K A P G A T V A Q R L E G L
UniRef90_Z9JWM8 L A G I V E G Y P F A E D P E H H A Y V V F A S T A Q A R A D V L A C
UniRef90_E1LK79 Y E A E L K N L P D W W T K D L A R K D V L F Y T E G L D V T Q V I E K V E S L
UniRef90_W7CK59 Y Q A V C R E N P F S V P K R D E R V Q I L F S N E W L E D K M E
UniRef90_UPI00031H0V2 F A E L V E Q N T L A P A A D A A R L L T L V L N N P A D I Q R L A P L V Q Q S
UniRef90_UPI000468F071 L D T A L L A A Q L A F A G G E G K L T H L V L L A E P A D P E Q A D A L E A V
UniRef90_UPI00036DD395 L E H L L S Q E P F F G D V P H E G K D S Y Q L V S F F K R P I T D V A T P P D G T
UniRef90_S3X7Q1 I S E V L L A K N P L A D V A E D G S K Y I V I F L S E D P G K E K A A E L M A E
UniRef90_F6FQ54 I G R L L E A D P F A G Y E H G P A S Y V T F V Q D R A R W G D P A P T P P D G
UniRef90_UPI000364F48B F A A I A D A A E L S A E H P G L A R H Y V Y L M R D A P P A D A I E R V E A T
UniRef90_H6L434 Y I S A I E N R P F Q E Q A L E K S Y L C L L K S A D Y Q G Q Q
UniRef90_B0RB90 F R R I A A G I P F G A V A D D P A R L L V S F L D R P L D P M P A P P A A
UniRef90_T0I5F1 I R A V E E N P F V G S D D A F V H S V L L E R Q P T R Q Q V G R L V G D H G
UniRef90_UPI000471B546 L A Q T V E A D P F A K G P K K D V Y E R C V S F V A A K A V P L D L P A V T
UniRef90_J2L953 W M A L C S A N P F K D G V I G D Q V I V R V N R L P I D P D K V E A L K P L L
UniRef90_X8E036 V R A I V D G Y P F E P D R A A H Q S Y V T F V S D R A V F D E L A A L Q
UniRef90_E6SEI2 L T Q V A H D A T G L A E A P A A Y G Q Y V S L L K S A P S A A E R E R V E A L
UniRef90_K0PVY8 W Q A L A T A S N P F P E G E G S Q V I V R V M R K P L L P S A T E A L H P F
UniRef90_UPI0003761A8D L R G L L A A D P Y A R H G I P P E A R R V S F L R E A A E P A R V A L P L T R
UniRef90_M5A3F9 L S S I V D S Q P F S P G E L D A T R I Q V A F L R D A P S D E T L D V L A D L
UniRef90_D2VGD1 F H Q I I A N N P F Y S V K E K K D D D L Y I C L Q G E L V E N M M K D N K D S
UniRef90_UPI00036D2C6B M K E V I T A L P E N W T N D E Q M K S D V F F L W D I I N D S S I L E Q Q P L
UniRef90_U2T562 F R A V A A A N P L V A V A D D D S R L V V T F L D H D L P D S V A L P A D D
UniRef90_UPI000403813B Y Q A E I D Q L P A W W Q E E L A R K
UniRef90_UPI000363182C F R E V A R Q T R E L A E N P G L A R H Y V Y L L K D E P A A S Q T A D I E A R
UniRef90_A6ENA2 F K T I F D N C P F T E E K K E K S Y F V L L S A V P S S E N L V L F N D Y
UniRef90_A3TKY5 V H T L A Q K T E A M A P L T D S A R R Y V A F A K G E V S K D A Q R A L T A Y
UniRef90_UPI0003B577D4 L A G I V A D V D D L A A P T S K V R G S Y V S V M K R Q P A A V A R E I E Q M
UniRef90_K8E474 F K E I V E K N L S I A S R L R D D Q Q L I L A Y Q Q E E V D I E A L T L
UniRef90_Q54C13 Y K D I S S N P F D L S I P K S V I F F P T G E S L D Q C E Y E K E K S G M
UniRef90_X8A4X0 V R E V V D A Y P F E R D A D G Y Q S Y V T F V A D K A V L D E L A A L G Q E
UniRef90_R7Y084 L A Q I G R D A E E L S A E R E L Q S H Y V L L L K E P V A D E A A V E A L
UniRef90_M31D73 L K T I I Q S N P F F K K D L N R I Y I S F L N E
UniRef90_Q46SF1 L Q D L I D S D P Y E F S I A S S A K R V V T F L R G P V P P D V K L P I E
UniRef90_UPI000363182C V A A M A S S Y P F D T L P Q H H D Y V V F S D D P E V T T R V T V A M R A A
UniRef90_R2S8D1 L D F L L Q N V P S W W N K N K D W R H N I F L L E N R S G K Q L L A D I P P T
UniRef90_M7MG80 L E R M F A N C P F S E D K K K A S Y F L M L H Q T P K D D L V K T A S E I
UniRef90_X8C3Q1 V R A T V D G Y P F E P D R A A H Q S Y V T F V S D R A V F D E L A A L
UniRef90_UPI000372B3C2 V T D L A D R C P Y P F D D R A M H A Y L T L A S D P T A L D A W E Q A A R
UniRef90_F3LGV8 F N S A V S N N P Y P E Y E G K F V H F Y F C K E S P K L N T E K L E S V
UniRef90_H3HDI6 V A R L A V N V V L V K E E L T Q E Q R G I V E S L
UniRef90_UPI00016A5527 L S A V I D G L P K H W R E Y D P S K L H F S F L K M A G A Q A G S A A S K D
UniRef90_UPI0003764D10 I L A V L Q A L P A W R A H D T A N L Y F T F K T A P A A T P A A G A
UniRef90_A1SG77 L R E I A D R A A S F G H G G R H Y V I S L L K E S P S A A A V A E V E A L
UniRef90_UPI0003704371 L R E L V G L D P F G A D G G T H R R F I T F L R E N P A P A L P P
UniRef90_J7NRN5 Y N Q I I A N N P F P P E T E E R W M A F Y N E N
UniRef90_UPI0003764D10 L R A V L D A N P F P E A A A D R P S Q M Q V F F F A D R Q P D F S W T A D

UniRef90_Q5YRQ6 UniRef90_X5QX12 UniRef90_G7WH06 UniRef90_UPI0003B7148D UniRef90_UPI0004286ECE UniRef90_K0F4A4 UniRef90_A0AJN5 UniRef90_U5E996 UniRef90_UPI00034DCF03 UniRef90_A0A022LTV0 UniRef90_H5TX04 UniRef90_UPI000474AC35 UniRef90_E3ZH13 UniRef90_E1VZ25 UniRef90_G5K313 UniRef90_E8JYP8 UniRef90_UPI0004168FC7 UniRef90_I0RUP2 UniRef90_A0A021X6Y8 UniRef90_UPI00035FB489 UniRef90_W81613 UniRef90_UPI0003B34FF9 UniRef90_W8A208 UniRef90_T0MVK1 UniRef90_S4D5J7 UniRef90_K2R673 UniRef90_UPI00047A86EE UniRef90_UPI000225FBC2 UniRef90_U1LM86 UniRef90_A0A024KI98 UniRef90_A9WMH4 UniRef90_V5BML6 UniRef90_H1X790 UniRef90_Q7P208 UniRef90_A0A017HBS8 UniRef90_T0R1X8 UniRef90_Q8GGM4 UniRef90_UPI000364FBD0 UniRef90_B1SE78 UniRef90_E3B9L0 UniRef90_UPI0004666308 UniRef90_G4REU8 UniRef90_UPI00047EF4F9 UniRef90_M3I930 UniRef90_W9GCU8 UniRef90_Z9JWM8 UniRef90_E1LK79 UniRef90_W7CK59 UniRef90_A0A031H0V2 UniRef90_UPI000468F071 UniRef90_UPI000255F700 UniRef90_UPI00036DD395 UniRef90_S3X7Q1 UniRef90_F6FQ54 UniRef90_UPI000364F48B UniRef90_H6L434 UniRef90_B0RB90 UniRef90_T0I5F1 UniRef90_UPI000471B546 UniRef90_J2L953 UniRef90_X8E036 UniRef90_E6SEI2 UniRef90_K0PVY8 UniRef90_UPI0003761A8D UniRef90_M5A3F9 UniRef90_D2VGD1 UniRef90_UPI00036D2C6B UniRef90_U2T562 UniRef90_UPI000403813B UniRef90_UPI000363182C UniRef90_A6ENA2 UniRef90_A3TKY5 UniRef90_UPI0003B577D4 UniRef90_K8E474 UniRef90_Q54C13 UniRef90_X8A4X0 UniRef90_R7Y084 UniRef90_M3ID73 UniRef90_Q46SF1 UniRef90_A0A022LML3 UniRef90_R2S8D1 UniRef90_M7MG80 UniRef90_X8C3Q1 UniRef90_UPI000372B3C2 UniRef90_F3LGV8 UniRef90_H3HDI6 UniRef90_UPI00016A5527 UniRef90_UPI0003764D10 UniRef90_A1SG77 UniRef90_UPI0003704371 UniRef90_J7NRN5 UniRef90_A0A024KFB5

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

UniRef90_Q5YRQ6 D L T T R T W L T V Q K V V K K M E
UniRef90_X5QX12 G T S R N W N T V R R L A E M V A E
UniRef90_G7WH06 T V T T R N W A T V M K L Y G L
UniRef90_UPI0003B7148D P T T A R N T T M L A K L V D
UniRef90_UPI0004286ECE P S T L R N R N T V D R I L S K M
UniRef90_K0F4A4 D L T T R T W L T V Q R V V K K M E
UniRef90_A0AJN5 I T T T R N W R T T L Q L Q T I L N
UniRef90_U5E996 D L T T R T W L T V Q R V V K K M E
UniRef90_UPI00034DCF03 R T T L R R A S M L Q G L V S V L
UniRef90_A0A022LTV0
UniRef90_H5TX04 Q G T G R N L R T V R K L I E L
UniRef90_UPI00047A4C35 V C T T R N L R T L Q R V L
UniRef90_E3ZH13 T S R N W R T T L K L Q T F L Q
UniRef90_E1VZ25 I V S T R N H N T L V K V A K L L
UniRef90_G5K313
UniRef90_E8JYP8 D L T M R K L N V V E K L L
UniRef90_UPI0004168FC7 G T S R N W N T V R K L A E M V G K
UniRef90_I0RUP2 S T T T R N L R T L T K V L Q M A G K
UniRef90_A0A021X6Y8 G T L R N A N T V N G L A A M L
UniRef90_UPI00035FB489 D I T T R T W L T V Q K V L A K L
UniRef90_W81613 G T F R N W N T V K G L A A M L R
UniRef90_UPI0003B34FF9 R V T T R N H N T M L R I A K I L R
UniRef90_W8A208 D I T T R T F L T V Q K V L K K M D
UniRef90_T0MVK1 Q F T S R N I N T F E K V L K K M N
UniRef90_S4D5J7 F L T S R N M R T I E K I H K K L
UniRef90_K2R673 N L T T R S W G T V L K I L K
UniRef90_UPI00047A86EE H L T A R N W N T M Q K L V A R M D
UniRef90_UPI000225FBC2
UniRef90_U1LM86 R V T T R N L R T L R R V V E V A
UniRef90_A0A024KI98 L M T M R N W N T L L K
UniRef90_A9WMH4 S T T T R N L R T M L K V R D A L
UniRef90_V5BML6 P I T A R N W N T V G A L V S M A E
UniRef90_H1X790 I T V R N A N T M Q K I T T L M N
UniRef90_Q7P208 R F T V R N W A T T L K L R A L
UniRef90_A0A017HBS8 P T T A R S W T A V Q R L H S L V E
UniRef90_T0R1X8 A L T L R N M N T V R R V L A K L
UniRef90_Q8GGM4 Q A T G R F F H T S E K I L A A A G K
UniRef90_UPI000364FBD0 Q T S T R S Y R T T H K L W Q L L Q E
UniRef90_B1SE78 T A T M R K L R S V S R L S Q M
UniRef90_E3B9L0
UniRef90_UPI0004666308 D I T T R T W L T V Q K V S A K L
UniRef90_G4REU8 G T S R N W N T V R K I A D A L
UniRef90_UPI00047EF4F9
UniRef90_M31930 A V T G R N L K T S E K L L D L L N
UniRef90_W9GCU8 S S T S R N V T M L T R L V
UniRef90_Z9JWM8
UniRef90_E1LK79 H I T I R N A K T F D K I G Q M L K
UniRef90_W7CK59 D V T A R S L K T S L K I N E L L E
UniRef90_A0A031H0V2 G V T S R N W A T M Q K L H A L L S E
UniRef90_UPI000468F071 W L T I R N A N T A R K L A A L A Q
UniRef90_UPI000255F700 R A T A R N L L T V R S L A A
UniRef90_UPI00036DD395 E V T S R T P L T L A R I L K K M
UniRef90_S3X7Q1 V A T A R N V N T L E K I A A K L
UniRef90_F6FQ54 R I S S R T W R T V L R L H R A L E
UniRef90_UPI000364F48B V A T N R N L T V V T T I A
UniRef90_H6L434 P C S S R N Y K T C L H L L A L A K
UniRef90_B0RB90 S V T A R N A R T V A A L V A L L D
UniRef90_T0I5F1 R G A A R N V R S L A R I V A K M
UniRef90_UPI000471B546 A A T T R N W N T V V R L A K L
UniRef90_J2L953 G T M R N W N T V R G L F E M V
UniRef90_X8E036 R A T S R
UniRef90_E6SE12 P A T N R N V K V I H A L A E
UniRef90_K0PVY8 G T L R N W N T V S G L A E M
UniRef90_UPI0003761A8D A I T T R T L D T V A R C A
UniRef90_M5A3F9 P M T I R T V G T L E R L L A
UniRef90_D2VGD1 N A T S R N W K T M L E L K K L L Q
UniRef90_UPI00036D2C6B Y M T I R N V N T T R Q I Y R L M
UniRef90_U2T562 V A T A R N Q R T V T R L L A
UniRef90_UPI000403813B
UniRef90_UPI000363182C V A T N R N V N V I G A L A E
UniRef90_A6ENA2 S A T S R N F N S M A K L I T I A
UniRef90_A3TKY5 P L T A R D I K V V R A I D E
UniRef90_UPI0003B577D4 P S T N R N D R V L R A L A E
UniRef90_K8E474 D W T L R N W N T S L K L V E L I K
UniRef90_Q54C13 P H T A R N E N T V R K I L E L A N K
UniRef90_X8A4X0 S T T T R N L R T L D K V L
UniRef90_R7Y084 A T N R N F N V V T T L A
UniRef90_M31D73
UniRef90_Q46SF1 D I T T R T L D T V I K C A
UniRef90_A0A022LML3 H L T T R N L K T L A R I L L A
UniRef90_R2S8D1 F M T I R N A N T L S K T Y E E A T K
UniRef90_M7MG80 F A T A R N Y N T M L K L L S L S Q
UniRef90_X8C3Q1
UniRef90_UPI000372B3C2 A V T T R N G R T L I R I L A A A E
UniRef90_F3LGV8 T A T G R N L N T V N K L F S T M L Q
UniRef90_H3HDI6 P V T V R T V N T L R R I V K
UniRef90_UPI00016A5527 Q A T T R N W N T T H H L L E L V
UniRef90_UPI0003764D10 R A
UniRef90_A1SG77 A T N R N L T V I E A L A D
UniRef90_UPI0003704371 R A T T R F W N V V Q E M Y G L
UniRef90_J7NRN5
UniRef90_A0A024KFB5 P G T G R N W N T L K G L V E R A

UniRef90_W7WKY9 S G N V A F S S P A I V P L L E K T A E A A M E K H L G K K F Q T I V R P S S F
UniRef90_E9UU80 T G N V R F D H P G D R A E M E A I L E E A F A A D R F F E V P T I C V I T P A E D
UniRef90_F5ZHD3 S G N L F F S S L E S Q D A L Q V M L E E S Y F K N N Y S F D I P F L L I S Q T D
UniRef90_Q5LZM7 F F F D S P M M K K E L L L A I E E F L N K S Y A F I N V F S L F T L E E
UniRef90_Q0W137 S G N V L F E S E E N T A V L S E K I L M Q Q L R E A F G R E I L V I V R T V D E
UniRef90_X7YWN0 S G N V L L E S S F G A A H V R A T A E A A L R E R F G Y D A W V L V Y D L D T
UniRef90_J0KDS7 S G N V A F S A K P D V P V L E G A A E A A M E A H L G R I F Q T I V R P S S F
UniRef90_S9SM21 T G N A V L R S A L P E E E V E A R A T L A C E K E L D F H K G I H L R R G T D
UniRef90_UPI00037C843E S G N L V V T T G A S A D D V A R L V Q E K L T A R I G Q E V S A V G L S A E R
UniRef90_W6IC48 K A R R Q S S R C D P P L K T S S M F T L Q K R G V I V R T A T E
UniRef90_E6X4J9 S G N V V F D S A I T S E S S L E K I E K L I F E S Y K F E V P V L V F E A K E
UniRef90_UPI00035C5E3E S G N A V V I T T P D D S A A V A R R I Q K G I S D S F G L S I A V M V R S R A L
UniRef90_Q222Z0 N G T L V F S A R R S P D R V L J A K A S K L L N S V C G L V E Y G F L R S V P Y
UniRef90_UPI00035CFF77 S G N V V F D S A G S E L A L A R R I E A A M D K H L D R N F Y T I V R S V D A
UniRef90_G4ZAV9 S G N V I F D A P D E A S A L E H R V E A V L E D L F G G H I P V L A R S M D E
UniRef90_UPI00023776E7 S G N L L V E S S L K A P Q V E T L L Q D E I C L R F S Y D V D V I A L T A K D
UniRef90_N0E5Q8 T G N V R L S S K R S A A A V A K A L A A Y A A D R G F D V P V V V F R A S E
UniRef90_UPI000479D408 S G N V A F S A R S S I V K L Q Q A C E A T M A E H L G R C F Q A F V R P S E H
UniRef90_UPI000380F17F S N V I F Q T K L S K K A S A D L I R K T I K E K I G A D L P V I V K T V A D
UniRef90_K1E7J3 T G N V R L T S R Q S T S A V E S T L I E K A F L A D R G F E V P T V V L J A P A E
UniRef90_U2YUH4 T G N L R F D T R R S R V K L E Q T L E R A Y A A D R G F D V P T I F R A D E F
UniRef90_U7TXG9 M I K E R F G L D I P I F V I S K E D
UniRef90_R5TL31 P V F I L L Q D E
UniRef90_S7VU81 I Q K F I I D Q F G F E V P V L V R T K D E
UniRef90_T0Z880 L T R K I E E R F G F Q V P V V L R T A E Q
UniRef90_S0NXC8 T G N I I L T T E K E A H E L A T H I H M L I I T Q I G P D L G I I R T P Q E
UniRef90_T1Z5E8 S G N I I C K T S M S A E E L A Q H I H Q L I W E K L G V N L S I V V K K K S D
UniRef90_C5CCH0 S G N V L F S S D A A A E G V R Q G F A R R A R E E G G L D V P V V L V D V I G T
UniRef90_UPI00036B664B T G N V R F T T P R S R A K I E K Q L E D A F A E D R G F D V P T I V F T A E V
UniRef90_UPI000377CB62 T G N V S F Q F R E N E P Y L K Q H V E K E L F L L G R E T P I F I R S L N E
UniRef90_Q1LEX7 S G N V V F D A R S S T T A L E R R A E K A M H A E L G H S F G T F I R P A G Y
UniRef90_U0K4J9 S G N I V F N A R S S A S L E Q R A E K A M Q S E L G H S F D T F V R P S R Y
UniRef90_UPI000474C9C3 S G N V A F S A P E I V P L L E K A A Q E A M T K H L G R V F L T I V R P S V F
UniRef90_UPI00035CC53F A R F D Y P A R V L I Y D I D T
UniRef90_Q54D49 T G N V D V Q Q T M T K K E V C M E I S N V L S N E Y Q M E K P L M I F N I E E
UniRef90_UPI00036D00BA S E N I I F R S S R D N L P F F C Q N L I K D K F G L E L T C Q I L S A E G
UniRef90_K2DPJ0 I L T A D E
UniRef90_F0Z848 T G N I V L D C D L E E K E I E K N I S F T L E N S F N V S N P M A I F N L D K
UniRef90_UPI0002376969 N G T V A F S A R G P A R K I A R T V Q Q A L A T G H G F D E P V F V R T M A Y
UniRef90_M6X6M4 M L V E I R S K E E
UniRef90_UPI00029A3432 S G T V V F Q A M D P E N A S A A A I R L R A T G Y Q P T V V I R A L E E Q
UniRef90_T1BRV2 K L G V E V P V V V K S A T E
UniRef90_M5G4D3 S G N L V A D S D L S M L D V S E R L R Q L L A S S M K V H C A V I T R T L A E
UniRef90_Q93L68 S G N V L F E S E E E E P L R E R I E Q E L A V A H G F S V S V L R T A E E
UniRef90_D4YK03 T G T V V F D A D D P E P L I G Q A R N T L T A R G F H Q S F A T R S L T E
UniRef90_U3P6U2 S G N A V F A A P V P P T R Q A A A V T A A L R A S A G V E A G V V L L T E K R
UniRef90_S6BZV5
UniRef90_E8KX89 S E N I I L E S D L A L K E I R E Q V H A L I K E K I G T D L K M V I K N K S D
UniRef90_G0AGA3 N G T V V F T S E A R A M K V L A L A R Q I L Q A E C G L R E P A Y I L R S I D Y
UniRef90_D9UHE4
UniRef90_F0ZBQ6 T G N I I L D A N D D K K A I D K E V C N I L T D N F N M N K P L L I F N L D E
UniRef90_UPI0003034D32 S G N V L G T P D T G D D D V A A R L R A L L A E R L G V D T S V H A A A R T E
UniRef90_B8G078 K G F S T A F G F E C A V M L R A A W E
UniRef90_K6WM71 S G N V L L T S P R S A A E V A A D L E S A Y E A D R G F A V P T I V F P L A E
UniRef90_M5J2X0 K N K L G G D I Q V I A R T P T Y
UniRef90_G5JR87 M S V I I K N P E Q
UniRef90_R2XMD3 M S E G F L E R F G F S V P V I Y R R A E E
UniRef90_Q0BQZ7 M R S A L E D Q L Y V Y A G K S V G V I V R T A T E
UniRef90_UPI000365E580 M G V I V R T A A E
UniRef90_W61458
UniRef90_UPI0003765809
UniRef90_R5ZNY9 F F F D S P M M K E E L L L A I E E F L N K S Y A F I N V F S L F T L E E
UniRef90_Q897T8 E T V I T K I H N I I F Q E I G V E L S A T I K T K E E
UniRef90_UPI0002D8FDAB N G T V R F D S D E P A E V T A T V T A S I E A R T G L E R D C F W I P F T V
UniRef90_UPI00034D03C3 M V R T A G Q



170

```

UniRef90_W7WKY9      E I T T R T F E T V R R
UniRef90_E9UU80      S T N R N L N V I R T L A D
UniRef90_F5ZHD3
UniRef90_Q5LZM7      Y I T I R N A R T F F K H L S L F E K
UniRef90_Q0W137
UniRef90_X7YWN0
UniRef90_J0KDS7      A I T T R T L E T V R K C A A
UniRef90_S9SM21      V V T T R S W A T I L R I
UniRef90_UPI00037C843E P T T A R N W N T V T K L R A A C T K
UniRef90_W6IC48      S G T A R N M N T V A K L A E I
UniRef90_E6X4J9
UniRef90_UPI00035C5E3E N M T L R S W N T V R K L V S L A
UniRef90_Q222Z0      P A T T R N W N T V R R L A
UniRef90_UPI00035CFF77 E I T T R T W D T V K K C A A
UniRef90_G4ZAV9      P V T V R T A N T L R R I A K
UniRef90_UPI00023776E7 R A T T R N W S T T L K L Q M L A
UniRef90_N0E5Q8      E G T A R T L T V L E A V A R K
UniRef90_UPI000479D408 D I T T R T L D T V R K C A A
UniRef90_UPI000380F17F
UniRef90_K1E7J3      V W T N R N L T V V R E L A
UniRef90_U2YUH4      V A T N R N L N V V A T L A E
UniRef90_U7TXG9      K L T I R T A N T V R K I A G M
UniRef90_R5TL31      K L T I R T A N T V R K I V E L
UniRef90_S7VU81      N A T A R N Y K T M V K L L A L S E E
UniRef90_T0Z880      I G T T R N W R T V N T L L E L M
UniRef90_S0NXC8
UniRef90_T1Z5E8
UniRef90_C5CCH0      R G A A R N L T T V R V L A G L
UniRef90_UPI00036B664B V A T N R N R T V I A A I A E K
UniRef90_UPI000377CB62 S A S T R N I N T V L R V I E K I K
UniRef90_Q1LEX7      D I T T R T L D T V I K C A
UniRef90_Q0K4J9      G I T T R T L D T V V K C A K
UniRef90_UPI000474C9C3 E I T T R T L D T V R K
UniRef90_UPI00035CC53F S T T T R N L R T L S K M L
UniRef90_Q54D49      E Y T F R T L R S S Q K I L D T A N K
UniRef90_UPI00036D00BA A M T I
UniRef90_K2DPJ0      D M T D R N W N T V C K L M E M L
UniRef90_F0Z848      R Y T A R K Y R T C N K C L D L M K
UniRef90_UPI0002376969 P A T T R T W G T V A R L V
UniRef90_M6X6M4      S A T T R N W K T V I T L S E L
UniRef90_UPI00029A3432 P V T T R T V A T M Q R L L A
UniRef90_T1BRV2      A A T T R N W A T V L K L Q A L A
UniRef90_M5G4D3
UniRef90_Q93L68
UniRef90_D4YK03      P V T T R T M A T L E R L A
UniRef90_U3P6U2      V A T A R N Q R T V G R I L
UniRef90_S6BZV5      S L T I R N G K T F Q K I L E L A D
UniRef90_E8KX89
UniRef90_G0AGA3      P A T T R S W N T V R R L V
UniRef90_D9UHE4      F T T T R T W N T V R K L L A L A E Q
UniRef90_F0ZBQ6      E Y T F R T W N S S Q K I L A L A N K
UniRef90_UPI0003034D32 V G T A R N L A T V R V L A
UniRef90_B8G078      S L T A R N W K T I S K L Y E I T R E
UniRef90_K6WM71      Q G T M R T H D V L R R L
UniRef90_M5J2X0      V A T T R N E T T M S K L I A L
UniRef90_G5JR87      R A T M R K L S V T K R L S Q L
UniRef90_R2XMD3      D L T A R N W R T I V K L A A M L E E
UniRef90_Q0BQZ7      S G T A R N M N T V A K L A E I
UniRef90_UPI000365E580 R M T M R K L S V I N R L
UniRef90_W61458      S G T A R N M N T V A K L A E I A
UniRef90_UPI0003765809 V A T M R K L S V V S R L S E M T K
UniRef90_R5ZNY9
UniRef90_Q897T8      I A T T I K L S V V K R L Y D M L D
UniRef90_UPI0002D8FDAB R A T S R G L P T L V R L V D
UniRef90_UPI00034D03C3 T V T D R N W R T V L R L R G M A

```

