

QUERY
 UniRef90_G3SAE6
 UniRef90_G3SAE6
 UniRef90_UPI0003BBD071
 UniRef90_UPI0003BBD071
 UniRef90_UPI0003BBD071
 UniRef90_UPI0002035881
 UniRef90_UPI0002035881
 UniRef90_UPI0002035881
 UniRef90_UPI000383FE76
 UniRef90_UPI000383FE76
 UniRef90_UPI000384150B
 UniRef90_UPI000384150B
 UniRef90_UPI000384150B
 UniRef90_UPI00035084A8
 UniRef90_UPI00035084A8
 UniRef90_UPI00035084A8
 UniRef90_UPI0003EAFE8E
 UniRef90_UPI0003EAFE8E
 UniRef90_UPI0003955169
 UniRef90_UPI0003955169
 UniRef90_UPI0002C593C4
 UniRef90_UPI0002C593C4
 UniRef90_UPI0002C593C4
 UniRef90_UPI0003C8CFC7
 UniRef90_UPI0003C8CFC7
 UniRef90_H2RII3
 UniRef90_UPI00029D74A6
 UniRef90_UPI00029D74A6
 UniRef90_UPI000350D343
 UniRef90_UPI000350D343
 UniRef90_UPI00039566CC
 UniRef90_UPI00039566CC
 UniRef90_UPI00039566CC
 UniRef90_UPI0003ACB474
 UniRef90_UPI0003ACB474
 UniRef90_UPI00022B6AD6
 UniRef90_UPI00022B6AD6
 UniRef90_UPI00022B6AD6
 UniRef90_UPI00022B6AD6
 UniRef90_S9XVH0
 UniRef90_S9XVH0
 UniRef90_S9XVH0
 UniRef90_K7E154
 UniRef90_K7E154
 UniRef90_K7E154
 UniRef90_G7N0A1
 UniRef90_G7N0A1
 UniRef90_UPI00020AF150
 UniRef90_UPI00020AF150
 UniRef90_UPI00005A29FB
 UniRef90_UPI00005A29FB
 UniRef90_UPI00005A29FB
 UniRef90_UPI0001CE1390
 UniRef90_UPI0001CE1390
 UniRef90_W5Q2U7
 UniRef90_W5Q2U7
 UniRef90_UPI00038708C8
 UniRef90_UPI00038708C8
 UniRef90_UPI0003C85FC4
 UniRef90_UPI0003C85FC4
 UniRef90_UPI0003C85FC4
 UniRef90_UPI00045D5E14
 UniRef90_UPI00045D5E14
 UniRef90_G3SRK0
 UniRef90_G3SRK0
 UniRef90_UPI00038EC569
 UniRef90_UPI00038EC569
 UniRef90_UPI0003C110B2
 UniRef90_UPI0003C110B2
 UniRef90_UPI0003C110B2
 UniRef90_H0ZY11
 UniRef90_UPI0002C46677
 UniRef90_UPI0002C46677
 UniRef90_UPI0002C46677
 UniRef90_UPI0003943EE6
 UniRef90_UPI0003943EE6
 UniRef90_UPI0003943EE6
 UniRef90_W5Q3C2
 UniRef90_W5Q3C2
 UniRef90_UPI00044008B3
 UniRef90_UPI00044008B3
 UniRef90_UPI00044008B3
 UniRef90_UPI0003831DF4
 UniRef90_S9X143
 UniRef90_S9X143
 UniRef90_UPI00046B458D
 UniRef90_UPI00046B458D
 UniRef90_UPI00046B458D
 UniRef90_UPI0003959D3E
 UniRef90_UPI0003959D3E
 UniRef90_P58107
 UniRef90_P58107
 UniRef90_P58107

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

QUERY 50 60 70 80
UniRef90_G3SAE6
UniRef90_G3SAE6
UniRef90_UPI0003BBD071
UniRef90_UPI0003BBD071
UniRef90_UPI0003BBD071
UniRef90_UPI0002035881
UniRef90_UPI0002035881
UniRef90_UPI0002035881
UniRef90_UPI000383FE76
UniRef90_UPI000383FE76
UniRef90_UPI000384150B
UniRef90_UPI000384150B
UniRef90_UPI00035084A8
UniRef90_UPI00035084A8
UniRef90_UPI00035084A8
UniRef90_UPI0003EAFE8E
UniRef90_UPI0003EAFE8E
UniRef90_UPI0003955169
UniRef90_UPI0003955169
UniRef90_UPI0002C593C4
UniRef90_UPI0002C593C4
UniRef90_UPI0002C593C4
UniRef90_UPI0003C8CFC7
UniRef90_UPI0003C8CFC7
UniRef90_H2RII3
UniRef90_UPI00029D74A6
UniRef90_UPI00029D74A6
UniRef90_UPI000350D343
UniRef90_UPI000350D343
UniRef90_UPI00039566CC
UniRef90_UPI00039566CC
UniRef90_UPI00039566CC
UniRef90_UPI0003ACB474
UniRef90_UPI0003ACB474
UniRef90_UPI00022B6AD6
UniRef90_UPI00022B6AD6
UniRef90_UPI00022B6AD6
UniRef90_S9XVH0
UniRef90_S9XVH0
UniRef90_S9XVH0
UniRef90_K7E154
UniRef90_K7E154
UniRef90_K7E154
UniRef90_G7N0A1
UniRef90_G7N0A1
UniRef90_UPI00020AF150
UniRef90_UPI00020AF150
UniRef90_UPI00005A29FB
UniRef90_UPI00005A29FB
UniRef90_UPI00005A29FB
UniRef90_UPI0001CE1390
UniRef90_UPI0001CE1390
UniRef90_W5Q2U7
UniRef90_W5Q2U7
UniRef90_UPI00038708C8
UniRef90_UPI00038708C8
UniRef90_UPI0003C85FC4
UniRef90_UPI0003C85FC4
UniRef90_UPI0003C85FC4
UniRef90_UPI00045D5E14
UniRef90_UPI00045D5E14
UniRef90_G3SRK0
UniRef90_G3SRK0
UniRef90_UPI00038EC569
UniRef90_UPI00038EC569
UniRef90_UPI0003C110B2
UniRef90_UPI0003C110B2
UniRef90_UPI0003C110B2
UniRef90_H0ZY11
UniRef90_UPI0002C46677
UniRef90_UPI0002C46677
UniRef90_UPI0002C46677
UniRef90_UPI0003943EE6
UniRef90_UPI0003943EE6
UniRef90_W5Q3C2
UniRef90_W5Q3C2
UniRef90_UPI00044008B3
UniRef90_UPI00044008B3
UniRef90_UPI00044008B3
UniRef90_UPI0003831DF4
UniRef90_S9X143
UniRef90_S9X143
UniRef90_UPI00046B458D
UniRef90_UPI00046B458D
UniRef90_UPI00046B458D
UniRef90_UPI0003959D3E
UniRef90_UPI0003959D3E
UniRef90_P58107
UniRef90_P58107
UniRef90_P58107

QUERY 90 100 110 120
UniRef90_G3SAE6 K G F N L T Y L Q L M E R C I T D D P Q A T A G L C L L E R K T T S S K S I V D D P E T G
UniRef90_G3SAE6 K G F N L T T Y L Q L M E R S C I T D D P Q A T A G L C L L E R K T T S S K S I V D D P E T G
UniRef90_UPI0003BBD071 K G F Q I T T V E E L V R S R V M D E A T A Q K F L L E E G T S C I A G V L V D D A T K
UniRef90_UPI0003BBD071 K G F Q I T T V E E L V R S R V M D E A T A Q K F L L E E G T S C I A G V L V D D A T K
UniRef90_UPI0002035881 Q G S V P A V W L L E A G I I T E K M G I R T T P E E E V A E V G G V V L L E E S K
UniRef90_UPI0002035881 Q G S V P A V W L L E A G I I T E K M G I R T T P E E E V A E V G G V V L L E E S K
UniRef90_UPI000383FE76 T L L A D E A T Q A F R S L L L S V Q H G R F R G G Q R V S A W E L V N S E E A
UniRef90_UPI000383FE76 T L L A D E A T Q A F R S L L L S V Q H G R F R G G Q R V S A W E L V N S E E A
UniRef90_UPI000384150B Q E V A E E M D R V R R Y L E E G G S F I A G V L I Q Q D T R R
UniRef90_UPI000384150B Q E V A E E M D R V R R Y L E E G G S F I A G V L I Q Q D T R R
UniRef90_UPI000384150B Q E V A E E M D R V R R Y L E E G G S F I A G V L I Q Q D T R R
UniRef90_UPI00035084A8 S L S L L L H S L L T K K D T V K R Y L D D G T G C I A G V L L P S R K
UniRef90_UPI00035084A8 S L S L L L H S L L T K K D T V K R Y L D D G T G C I A G V L L P S R K
UniRef90_UPI00035084A8 S L S L L L H S L L T K K D T V K R Y L D D G T G C I A G V L L P S R K
UniRef90_UPI0003EAFE8E R G Q K L S I Y N A L K K D L L P S D M A V A L L E A Q A G T G H I I D P A T S
UniRef90_UPI0003EAFE8E R G Q K L S I Y N A L K K D L L P S D M A V A L L E A Q A G T G H I I D P A T S
UniRef90_UPI0003955169 T D E K L S Y T Q L L R R Q V M D E A T A Q R L L E E G T S C I A G V F V D S T K
UniRef90_UPI0003955169 T D E K L S Y T Q L L R R Q V M D E A T A Q R L L E E G T S C I A G V F V D S T K
UniRef90_UPI0002C593C4 A Q E V G R L D S V R R Y L Q Q G T G C I A G V L L T G S Q
UniRef90_UPI0002C593C4 A Q E V G R L D S V R R Y L Q Q G T G C I A G V L L T G S Q
UniRef90_UPI0002C593C4 A Q E V G R L D S V R R Y L Q Q G T G C I A G V L L T G S Q
UniRef90_UPI0003C8CFC7 K G S T M S L W E V M Q S D L I P E E Q R A R L M
UniRef90_UPI0003C8CFC7 K G S T M S L W E V M Q S D L I P E E Q R A R L M
UniRef90_H2RII3 A G Y S L D L W A M E K G I V H D T E T R L P L L Q V Q L A T G G V I V D P V H G
UniRef90_UPI00029D74A6 T E F A D P I S P A V S R G I L D D T E T G Q R L L E A Q A C T G G I I D P N T G
UniRef90_UPI00029D74A6 T E F A D P I S P A V S R G I L D D T E T G Q R L L E A Q A C T G G I I D P N T G
UniRef90_UPI000350D343 K G V V S V G E L S Q R E D V K K Y L Q Q G K S S I A G L L I K P T N
UniRef90_UPI000350D343 K G V V S V G E L S Q R E D V K K Y L Q Q G K S S I A G L L I K P T N
UniRef90_UPI00039566CC K E V T T E M E S V R R Y L E E G S N F I A G V L I Q P S N
UniRef90_UPI00039566CC K E V T T E M E S V R R Y L E E G S N F I A G V L I Q P S N
UniRef90_UPI00039566CC K E V T T E M E S V R R Y L E E G S N F I A G V L I Q P S N
UniRef90_UPI0003ACB474 A G L K K S F F Q A A V T E H L L P M G A A L P F L E A Q A A T C T L V D P A S G
UniRef90_UPI0003ACB474 A G L K K S F F Q A A V T E H L L P M G A A L P F L E A Q A A T C T L V D P A S G
UniRef90_UPI00022B6AD6 Q V I K V P A I Q A I N K K T L D A D H V N A Y L E E G T G C I A G V T L P S T K
UniRef90_UPI00022B6AD6 Q V I K V P A I Q A I N K K T L D A D H V N A Y L E E G T G C I A G V T L P S T K
UniRef90_UPI00022B6AD6 Q V I K V P A I Q A I N K K T L D A D H V N A Y L E E G T G C I A G V T L P S T K
UniRef90_S9XVH0 R G F F D P N T H E N L T Y M Q L L E R C V R D P D T G
UniRef90_S9XVH0 R G F F D P N T H E N L T Y M Q L L E R C V R D P D T G
UniRef90_S9XVH0 R G F F D P N T H E N L T Y M Q L L E R C V R D P D T G
UniRef90_K7E154 K D Y K H I D E A T E K A L
UniRef90_K7E154 K D Y K H I D E A T E K A L
UniRef90_K7E154 K D Y K H I D E A T E K A L
UniRef90_G7N0A1 T G E P V T Y S E L Q Q R C R P D Q L T G L S L L
UniRef90_G7N0A1 T G E P V T Y S E L Q Q R C R P D Q L T G L S L L
UniRef90_UPI00020AF150 V G H K K S F F Q A A T E H L L P M G T A L S L L E A Q A A T H T L V D P I T G
UniRef90_UPI00020AF150 V G H K K S F F Q A A T E H L L P M G T A L S L L E A Q A A T H T L V D P I T G
UniRef90_UPI00005A29FB V V S P E A V L H M D H V Q R Y L R G S G A V G G V L L R P S G
UniRef90_UPI00005A29FB V V S P E A V L H M D H V Q R Y L R G S G A V G G V L L R P S G
UniRef90_UPI00005A29FB V V S P E A V L H M D H V Q R Y L R G S G A V G G V L L R P S G
UniRef90_UPI0001CE1390 K G F N L T Y L Q L L E R C V E D P E T G L R L L Q P Q L V D G S L L L P M K H
UniRef90_UPI0001CE1390 K G F N L T Y L Q L L E R C V E D P E T G L R L L Q P Q L V D G S L L L P M K H
UniRef90_W5Q2U7 A G E K L T I Y A A L R R Q L L S P G T A L I L L E A Q A A S G F L L D P V R N
UniRef90_W5Q2U7 A G E K L T I Y A A L R R Q L L S P G T A L I L L E A Q A A S G F L L D P V R N
UniRef90_UPI00038708C8 T E F N M S G F R S R S S S V G S S S Y T V S P R T Q I S T G G I L D T D T L
UniRef90_UPI00038708C8 T E F N M S G F R S R S S S V G S S S Y T V S P R T Q I S T G G I L D T D T L
UniRef90_UPI0003C85FC4 V E Q R V A L S Q Q H R D D G T L S E E L G A V L L E Q A A A T A G L R V P V T R
UniRef90_UPI0003C85FC4 V E Q R V A L S Q Q H R D D G T L S E E L G A V L L E Q A A A T A G L R V P V T R
UniRef90_UPI0003C85FC4 V E Q R V A L S Q Q H R D D G T L S E E L G A V L L E Q A A A T A G L R V P V T R
UniRef90_UPI00045D5E14 A E L A Q R E D V R R Y L Q Q G T G S V A G L L L K P T D
UniRef90_UPI00045D5E14 A E L A Q R E D V R R Y L Q Q G T G S V A G L L L K P T D
UniRef90_UPI00045D5E14 A E L A Q R E D V R R Y L Q Q G T G S V A G L L L K P T D
UniRef90_G3SRK0 A E L A R R E D V C R Y L Q Q G T G S I A G L L L K P S N
UniRef90_G3SRK0 A E L A R R E D V C R Y L Q Q G T G S I A G L L L K P S N
UniRef90_UPI00038EC569 T N E K M S I S E A L T R N I L R P G T A L V L L E A Q A A T G F I I D P V I E N
UniRef90_UPI00038EC569 T N E K M S I S E A L T R N I L R P G T A L V L L E A Q A A T G F I I D P V I E N
UniRef90_UPI0003C110B2 A Q D V A R L D S V Q R Y L Q Q G T G C I S G L L L P E S Q
UniRef90_UPI0003C110B2 A Q D V A R L D S V Q R Y L Q Q G T G C I S G L L L P E S Q
UniRef90_UPI0003C110B2 A Q D V A R L D S V Q R Y L Q Q G T G C I S G L L L P E S Q
UniRef90_H0ZY1 T G Y T I S L C Q A L R K E L I P A S H G T R L L E A Q I A T G G I I D P V H S
UniRef90_UPI0002C46677 T G P Q V S A A E L F N S G V I D K E Q G L H F L E E G H G C I A G V T V P S T Q
UniRef90_UPI0002C46677 T G P Q V S A A E L F N S G V I D K E Q G L H F L E E G H G C I A G V T V P S T Q
UniRef90_UPI0002C46677 T G P Q V S A A E L F N S G V I D K E Q G L H F L E E G H G C I A G V T V P S T Q
UniRef90_UPI0003943EE6 K D L S E T D A V R R F L H G S D C I A G V Y V E A T K
UniRef90_UPI0003943EE6 K D L S E T D A V R R F L H G S D C I A G V Y V E A T K
UniRef90_W5Q3C2 G G V R L S L Y Q A M K H K L L G P G V A L A L L E A Q A A T G A M T D P H S L
UniRef90_W5Q3C2 G G V R L S L Y Q A M K H K L L G P G V A L A L L E A Q A A T G A M T D P H S L
UniRef90_UPI00044008B3 Q E V A E V I A V R R A L R G S G V I A G V W L E E A G
UniRef90_UPI00044008B3 Q E V A E V I A V R R A L R G S G V I A G V W L E E A G
UniRef90_UPI00044008B3 Q E V A E V I A V R R A L R G S G V I A G V W L E E A G
UniRef90_UPI0003831DF4 T E E R L S V E E L V R S Q V M D E A T A R R L L E E G T S C I A G V L V D S T K
UniRef90_S9X143 A Q D V G S L D S V Q R Y L Q Q G T G C V A G L L L P G S Q
UniRef90_S9X143 A Q D V G S L D S V Q R Y L Q Q G T G C V A G L L L P G S Q
UniRef90_UPI00046B458D A Q D V G S L D S V Q R Y L Q Q G T G C V A G L L L P G S Q
UniRef90_UPI00046B458D A Q D V G S L D S V Q R Y L Q Q G T G C V A G L L L P G S Q
UniRef90_UPI00046B458D A Q D V G S L D S V Q R Y L Q Q G T G C V A G L L L P G S Q
UniRef90_UPI0003959D3E P G E K M S I Y Q A M W K G V L R Q G T A L V L L E A Q A A T G F I V D P V K N
UniRef90_UPI0003959D3E P G E K M S I Y Q A M W K G V L R Q G T A L V L L E A Q A A T G F I V D P V K N
UniRef90_P58107 H G Q A T A K D V G S L A S A Q R Y L Q Q G T G C I A G L L L P G S Q
UniRef90_P58107 H G Q A T A K D V G S L A S A Q R Y L Q Q G T G C I A G L L L P G S Q
UniRef90_P58107 H G Q A T A K D V G S L A S A Q R Y L Q Q G T G C I A G L L L P G S Q

QUERY UniRef90_G3SAE6 UniRef90_G3SAE6 UniRef90_UPI0003BBD071 UniRef90_UPI0003BBD071 UniRef90_UPI0003BBD071 UniRef90_UPI0002035881 UniRef90_UPI0002035881 UniRef90_UPI000383FE76 UniRef90_UPI000383FE76 UniRef90_UPI000384150B UniRef90_UPI000384150B UniRef90_UPI000384150B UniRef90_UPI00035084A8 UniRef90_UPI00035084A8 UniRef90_UPI00035084A8 UniRef90_UPI0003EAFE8E UniRef90_UPI0003EAFE8E UniRef90_UPI0003955169 UniRef90_UPI0003955169 UniRef90_UPI0002C593C4 UniRef90_UPI0002C593C4 UniRef90_UPI0002C593C4 UniRef90_UPI0003C8CFC7 UniRef90_UPI0003C8CFC7 UniRef90_H2RI13 UniRef90_UPI00029D74A6 UniRef90_UPI00029D74A6 UniRef90_UPI000350D343 UniRef90_UPI000350D343 UniRef90_UPI00039566CC UniRef90_UPI00039566CC UniRef90_UPI00039566CC UniRef90_UPI0003ACB474 UniRef90_UPI0003ACB474 UniRef90_UPI00022B6AD6 UniRef90_UPI00022B6AD6 UniRef90_UPI00022B6AD6 UniRef90_S9XVH0 UniRef90_S9XVH0 UniRef90_S9XVH0 UniRef90_K7E154 UniRef90_K7E154 UniRef90_K7E154 UniRef90_G7N0A1 UniRef90_G7N0A1 UniRef90_UPI00020AF150 UniRef90_UPI00020AF150 UniRef90_UPI00005A29FB UniRef90_UPI00005A29FB UniRef90_UPI00005A29FB UniRef90_UPI0001CE1390 UniRef90_UPI0001CE1390 UniRef90_W5Q2U7 UniRef90_W5Q2U7 UniRef90_UPI00038708C8 UniRef90_UPI00038708C8 UniRef90_UPI0003C85FC4 UniRef90_UPI0003C85FC4 UniRef90_UPI0003C85FC4 UniRef90_UPI00045D5E14 UniRef90_UPI00045D5E14 UniRef90_G3SRK0 UniRef90_G3SRK0 UniRef90_UPI00038EC569 UniRef90_UPI00038EC569 UniRef90_UPI0003C110B2 UniRef90_UPI0003C110B2 UniRef90_UPI0003C110B2 UniRef90_H0ZY11 UniRef90_UPI0002C46677 UniRef90_UPI0002C46677 UniRef90_UPI0002C46677 UniRef90_UPI0003943EE6 UniRef90_UPI0003943EE6 UniRef90_W5Q3C2 UniRef90_W5Q3C2 UniRef90_UPI00044008B3 UniRef90_UPI00044008B3 UniRef90_UPI00044008B3 UniRef90_UPI0003831DF4 UniRef90_S9X143 UniRef90_S9X143 UniRef90_UPI00046B458D UniRef90_UPI00046B458D UniRef90_UPI00046B458D UniRef90_UPI0003959D3E UniRef90_UPI0003959D3E UniRef90_P58107 UniRef90_P58107 UniRef90_P58107

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

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

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

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

QUERY I S Y K D A I N R S M V E D I T G L R L L E A A S V S S K
 UniRef90_G3SAE6 Y D I D D D A I A K N L I D
 UniRef90_G3SAE6 Y D I D D D A I A K N L I D
 UniRef90_UPI0003BBD071 L T V E E E A V R M G I V G P E F F K D K L L S A
 UniRef90_UPI0003BBD071 L T V E E E A V R M G I V G P E F F K D K L L S A
 UniRef90_UPI0003BBD071 L T V E E E A V R M G I V G P E F F K D K L L S A
 UniRef90_UPI0002035881 L S V R D A V R A G V V G E E E L T T E T L L R A
 UniRef90_UPI0002035881 L S V R D A V R A G V V G E E E L T T E T L L R A
 UniRef90_UPI0002035881 L S V R D A V R A G V V G E E E L T T E T L L R A
 UniRef90_UPI000383FE76 V T A C Q Q L R E A G V I D Q E E
 UniRef90_UPI000383FE76 V T A C Q Q L R E A G V I D Q E E
 UniRef90_UPI000384150B I S L F Q A M K K D L I V R E H G I R L L E A Q Q
 UniRef90_UPI000384150B I S L F Q A M K K D L I V R E H G I R L L E A Q Q
 UniRef90_UPI000384150B I S L F Q A M K K D L I V R E H G I R L L E A Q Q
 UniRef90_UPI00035084A8 L S V D E A V L A N L V G S E E L H H E K L L S A
 UniRef90_UPI00035084A8 L S V D E A V L A N L V G S E E L H H E K L L S A
 UniRef90_UPI00035084A8 L S V D E A V L A N L V G S E E L H H E K L L S A
 UniRef90_UPI00035084A8 L S V D E A V L A N L V G S E E L H H E K L L S A
 UniRef90_UPI0003EAFE8E V S L F Q A L K K G L I P R E Q Q G L R L L D A Q Q
 UniRef90_UPI0003EAFE8E V S L F Q A L K K G L I P R E Q Q G L R L L D A Q Q
 UniRef90_UPI0003955169 L T V E E E A V R M G I V G P E F F K D K L L S A
 UniRef90_UPI0003955169 L T V E E E A V R M G I V G P E F F K D K L L S A
 UniRef90_UPI0002C593C4 Y S V E E E A L R A G L I G P D V F A K L L S A
 UniRef90_UPI0002C593C4 Y S V E E E A L R A G L I G P D V F A K L L S A
 UniRef90_UPI0002C593C4 Y S V E E E A L R A G L I G P D V F A K L L S A
 UniRef90_UPI0003C8CFC7 Y S V E E E A L R A G L I G P D V F A K L L S A
 UniRef90_UPI0003C8CFC7 Y S V E E E A L R A G L I G P D V F A K L L S A

UniRef90_H2RI3 V T Y Q Q L R E R C V C D S E T G L L L L P L P S
 UniRef90_UPI00029D74A6 M S A A Q A L K K G W L Y Y E A G Q R F
 UniRef90_UPI00029D74A6 M S A A Q A L K K G W L Y Y E A G Q R F
 UniRef90_UPI000350D343 L S V N E A V R E G V I G P E L H N K M L S A
 UniRef90_UPI000350D343 L S V N E A V R E G V I G P E L H N K M L S A
 UniRef90_UPI00039566CC F S V E E E A L K V G L I G G E E I F E K L L S A
 UniRef90_UPI00039566CC F S V E E E A L K V G L I G G E E I F E K L L S A
 UniRef90_UPI00039566CC F S V E E E A L K V G L I G G E E I F E K L L S A
 UniRef90_UPI0003ACB474 I P L F Q A M K K E L V D R P L A L R L L D A Q Q
 UniRef90_UPI0003ACB474 I P L F Q A M K K E L V D R P L A L R L L D A Q Q
 UniRef90_UPI00022B6AD6 L C V N E A V A A G L V S R E L Q E R L L A A
 UniRef90_UPI00022B6AD6 L C V N E A V A A G L V S R E L Q E R L L A A
 UniRef90_UPI00022B6AD6 L C V N E A V A A G L V S R E L Q E R L L A A

UniRef90_S9XVH0
 UniRef90_S9XVH0
 UniRef90_S9XVH0
 UniRef90_K7E154
 UniRef90_K7E154
 UniRef90_K7E154
 UniRef90_G7N0A1
 UniRef90_G7N0A1
 UniRef90_UPI00020AF150 I P L F Q A M K K G L V D R P L A L R L L D A Q
 UniRef90_UPI00020AF150 I P L F Q A M K K G L V D R P L A L R L L D A Q
 UniRef90_UPI00005A29FB L S V D E A V R R R L V G P E
 UniRef90_UPI00005A29FB L S V D E A V R R R L V G P E
 UniRef90_UPI00005A29FB L S V D E A V R R R L V G P E
 UniRef90_UPI0001CE1390 V P A H Q L L E A G V I D E E L L D R V L E
 UniRef90_UPI0001CE1390 V P A H Q L L E A G V I D E E L L D R V L E
 UniRef90_W5Q2U7 I S L F Q A M K K D L I V R E H G I R L L E A Q
 UniRef90_W5Q2U7 I S L F Q A M K K D L I V R E H G I R L L E A Q
 UniRef90_UPI00038708C8 C S V A D A V N K G L V D K
 UniRef90_UPI00038708C8 C S V A D A V N K G L V D K
 UniRef90_UPI0003C85FC4 L S V H E A C R R G L L R P G T A L I L L E A Q A A T
 UniRef90_UPI0003C85FC4 L S V H E A C R R G L L R P G T A L I L L E A Q A A T
 UniRef90_UPI0003C85FC4 L S V H E A C R R G L L R P G T A L I L L E A Q A A T
 UniRef90_UPI00045D5E14 I S L F Q A M Q K D L I V R D H G I R L L E A Q
 UniRef90_UPI00045D5E14 I S L F Q A M Q K D L I V R D H G I R L L E A Q
 UniRef90_G3SRK0 L T V N E A V K E G V V G P E L H H K L L S A
 UniRef90_G3SRK0 L T V N E A V K E G V V G P E L H H K L L S A
 UniRef90_UPI00038EC569 I S L F Q A M Q R D L I V R D H G I R L L E A Q
 UniRef90_UPI00038EC569 I S L F Q A M Q R D L I V R D H G I R L L E A Q
 UniRef90_UPI0003C110B2 I S L F Q A M K K D L I V R E H G I R L L E A Q
 UniRef90_UPI0003C110B2 I S L F Q A M K K D L I V R E H G I R L L E A Q
 UniRef90_UPI0003C110B2 I S L F Q A M K K D L I V R E H G I R L L E A Q
 UniRef90_H0ZYY1 L T Y M Q L L E R C V Q D P E T G L Y M L Q V G E R
 UniRef90_UPI0002C46677 L S V D K A V S A G L V G S E L R E K L L S A
 UniRef90_UPI0002C46677 L S V D K A V S A G L V G S E L R E K L L S A
 UniRef90_UPI0002C46677 L S V D K A V S A G L V G S E L R E K L L S A
 UniRef90_UPI0003943EE6 L Y V N E A V K A G I V G P E L H H E K L L S A
 UniRef90_UPI0003943EE6 L Y V N E A V K A G I V G P E L H H E K L L S A
 UniRef90_W5Q3C2 L S L F Q A M K K G L V P A E Q A V R L L E A Q
 UniRef90_W5Q3C2 L S L F Q A M K K G L V P A E Q A V R L L E A Q
 UniRef90_UPI00044008B3 L T V D E A V R A G L V G P E L H H E K L L S A
 UniRef90_UPI00044008B3 L T V D E A V R A G L V G P E L H H E K L L S A
 UniRef90_UPI00044008B3 L T V D E A V R A G L V G P E L H H E K L L S A
 UniRef90_UPI0003831DF4 L T V E E E A V R M G I V G P E F F K D K L L S A
 UniRef90_S9X143 I S L F Q A M K K G L I V R E H G I R L L E A Q
 UniRef90_S9X143 I S L F Q A M K K G L I V R E H G I R L L E A Q
 UniRef90_UPI00046B458D I S L F Q A M K K G L I V R E H G I R L L E A Q
 UniRef90_UPI00046B458D I S L F Q A M K K G L I V R E H G I R L L E A Q
 UniRef90_UPI00046B458D I S L F Q A M K K G L I V R E H G I R L L E A Q

UniRef90_UPI0003959D3E M S L F Q A M K Q D L I V R E H G I R L L E A Q
 UniRef90_UPI0003959D3E M S L F Q A M K Q D L I V R E H G I R L L E A Q
 UniRef90_P58107 I S L F Q A M Q K G L I V R E H G I R L L E A Q
 UniRef90_P58107 I S L F Q A M Q K G L I V R E H G I R L L E A Q
 UniRef90_P58107 I S L F Q A M Q K G L I V R E H G I R L L E A Q

UniRef90_UPI000387257B
 UniRef90_UPI000387257B
 UniRef90_UPI000387257B
 UniRef90_UPI0002C67F05 G G L V D P I R G V R V A P E L A C Q Q G L L D Q E T W H S L S E H E S
 UniRef90_UPI0002C67F05 G G L V D P I R G V R V A P E L A C Q Q G L L D Q E T W H S L S E H E S
 UniRef90_UPI0003946417 F L D P S T M E K V T Y S E L R K R C C I V D D P A S G F L L L L P L Q L
 UniRef90_UPI0003946417 F L D P S T M E K V T Y S E L R K R C C I V D D P A S G F L L L L P L Q L
 UniRef90_UPI000273D60E K G F F D P N T H E N L T Y L Q L L E R C C V R D P E T G L Y L L L P L S S S
 UniRef90_UPI000273D60E K G F F D P N T H E N L T Y L Q L L E R C C V R D P E T G L Y L L L P L S S S
 UniRef90_UPI000273D60E K G F F D P N T H E N L T Y L Q L L E R C C V R D P E T G L Y L L L P L S S S
 UniRef90_UPI0003EDB9B4
 UniRef90_UPI0003EDB9B4
 UniRef90_M7B8I3 E G L R H K V T P S Q L L S A D
 UniRef90_M7B8I3 E G L R H K V T P S Q L L S A D
 UniRef90_UPI000392E789
 UniRef90_UPI000392E789
 UniRef90_UPI000392E789
 UniRef90_UPI000392E789
 UniRef90_UPI00045DC770
 UniRef90_UPI00045DC770
 UniRef90_UPI00045DC770
 UniRef90_UPI00045DC770
 UniRef90_S9W9N6
 UniRef90_UPI0002C36FB0 H S G S T M S L W E V M Q S D L I P Q E R A Q L M A D F Q A
 UniRef90_UPI0002C36FB0 H S G S T M S L W E V M Q S D L I P Q E R A Q L M A D F Q A
 UniRef90_UPI00032AFB2B S G C L A G V Y L E D A K E K V T I Y D A M R R G L L R P S T A T L L L E A Q A
 UniRef90_UPI000350446B
 UniRef90_UPI000350446B
 UniRef90_UPI0004420D8B I V D P E T G K E M S V Y E A Y R K G L I D H Q T Y L E L S E Q E V
 UniRef90_UPI0004420D8B I V D P E T G K E M S V Y E A Y R K G L I D H Q T Y L E L S E Q E V
 UniRef90_UPI00034482E8 R A V T G Y T D P Y T G E Q I S L F Q A M Q R D L I V R D H G I R L L E A Q I
 UniRef90_UPI00034482E8 R A V T G Y T D P Y T G E Q I S L F Q A M Q R D L I V R D H G I R L L E A Q I
 UniRef90_UPI000454899B R A V T G Y T D P Y T G E Q I S L F Q A M Q R D L I V R D H G I R L L E A Q I
 UniRef90_UPI000454899B R A V T G Y T D P Y T G E Q I S L F Q A M Q R D L I V R D H G I R L L E A Q I
 UniRef90_UPI000454899B R A V T G Y T D P Y T G E Q I S L F Q A M Q R D L I V R D H G I R L L E A Q I
 UniRef90_UPI000454899B R A V T G Y T D P Y T G E Q I S L F Q A M Q R D L I V R D H G I R L L E A Q I
 UniRef90_F7EDB0 T S I A G V L D P T K S G E K M T I Y Q A M W K G L I R P G T A L V L L E A Q A
 UniRef90_UPI0002BCD19C A V T G Y K D P Y S G S T I S L F Q A M K K G L I L K M N R V L Q D A S D
 UniRef90_UPI0002BCD19C A V T G Y K D P Y S G S T I S L F Q A M K K G L I L K M N R V L Q D A S D
 UniRef90_G1LIB6
 UniRef90_G1LIB6
 UniRef90_UPI0003D0C446
 UniRef90_UPI0003D0C446
 UniRef90_UPI0004541D7D
 UniRef90_UPI0004541D7D
 UniRef90_UPI0004541D7D
 UniRef90_UPI0004541D7D
 UniRef90_UPI0003F05DF5 R A V T G Y K D P Y T G E Q I S L F Q A M Q R D L I V R D H G I R L L E A Q I
 UniRef90_UPI0003F05DF5 R A V T G Y K D P Y T G E Q I S L F Q A M Q R D L I V R D H G I R L L E A Q I
 UniRef90_UPI000359E9DB R A V T G Y T D P Y T G E Q I S L F Q A M Q R G C L S D D T V V L I A D Q K H
 UniRef90_UPI000359E9DB R A V T G Y T D P Y T G E Q I S L F Q A M Q R G C L S D D T V V L I A D Q K H
 UniRef90_UPI00046BC289 R A V T G Y R D P Y T E Q P I S L F Q A M R K D L I P A E E A L R L L D A Q L
 UniRef90_UPI00046BC289 R A V T G Y R D P Y T E Q P I S L F Q A M R K D L I P A E E A L R L L D A Q L
 UniRef90_UPI00046BC289 R A V T G Y R D P Y T E Q P I S L F Q A M R K D L I P A E E A L R L L D A Q L
 UniRef90_UPI0003339ED2
 UniRef90_UPI0003339ED2
 UniRef90_UPI00038C4972 R A V T G Y T D P Y T G E Q I S L F Q A M Q R D L I V R D H G I R L L E A Q I
 UniRef90_UPI00038C4972 R A V T G Y T D P Y T G E Q I S L F Q A M Q R D L I V R D H G I R L L E A Q I
 UniRef90_H9GED3 R A V T G Y R D P Y S E K K I S L F Q A M K K D L I P S E E A L R L L D A Q L
 UniRef90_H9GED3 R A V T G Y R D P Y S E K K I S L F Q A M K K D L I P S E E A L R L L D A Q L
 UniRef90_M7AUR4
 UniRef90_M7AUR4
 UniRef90_M7AUR4
 UniRef90_UPI0003F10E1E
 UniRef90_UPI0003F10E1E
 UniRef90_UPI0003442D0D T G A V G G V L L Q P S G R R L S L Y A A M K Q Q L L G P G V A L A L L E A Q A
 UniRef90_UPI00046C07F7 T Q A L K K K G L R G H V S V S E L F N A E I
 UniRef90_UPI00046C07F7 T Q A L K K K G L R G H V S V S E L F N A E I
 UniRef90_UPI00046C07F7 T Q A L K K K G L R G H V S V S E L F N A E I
 UniRef90_G3TUP2 R A V T G Y P D P Y G G T K L P L F Q A I G K E I V D R A L G R K W E A Q L
 UniRef90_G3TUP2 R A V T G Y P D P Y G G T K L P L F Q A I G K E I V D R A L G R K W E A Q L
 UniRef90_G3TUP2 R A V T G Y P D P Y G G T K L P L F Q A I G K E I V D R A L G R K W E A Q L
 UniRef90_UPI00042C0B9A R A V T G Y R D P Y S E Q K I S L F Q A M K K D L I P A E E A L R L L D A Q L
 UniRef90_UPI00042C0B9A R A V T G Y R D P Y S E Q K I S L F Q A M K K D L I P A E E A L R L L D A Q L
 UniRef90_UPI000443B9A1 K G F F D P N T H E N L T Y M Q L L E R C C V R D P D T G L Y M L Q I
 UniRef90_UPI000443B9A1 K G F F D P N T H E N L T Y M Q L L E R C C V R D P D T G L Y M L Q I
 UniRef90_UPI000443B9A1 K G F F D P N T H E N L T Y M Q L L E R C C V R D P D T G L Y M L Q I
 UniRef90_UPI000443B9A1 K G F F D P N T H E N L T Y M Q L L E R C C V R D P D T G L Y M L Q I
 UniRef90_UPI0002656005 R V T A H Q L L E A R I
 UniRef90_UPI0002656005 R V T A H Q L L E A R I
 UniRef90_UPI0001DECCD0 A V T G Y K D P Y S G S T I S L F Q A M K K G L V L R D H G I R L L E A Q I
 UniRef90_UPI0001DECCD0 A V T G Y K D P Y S G S T I S L F Q A M K K G L V L R D H G I R L L E A Q I
 UniRef90_UPI0004419AFB
 UniRef90_UPI0004419AFB
 UniRef90_UPI0000DA2E52 K G F F D P N T H E N L T Y L Q L L E R C C I H D S E T G L H L L P L S G
 UniRef90_UPI0000DA2E52 K G F F D P N T H E N L T Y L Q L L E R C C I H D S E T G L H L L P L S G
 UniRef90_UPI0000DA2E52 K G F F D P N T H E N L T Y L Q L L E R C C I H D S E T G L H L L P L S G
 UniRef90_UPI0003832331 K G F F D P N T H E N L T Y L Q L K E K C I T E P S T G L C L L P L N S
 UniRef90_UPI0003832331 K G F F D P N T H E N L T Y L Q L K E K C I T E P S T G L C L L P L N S
 UniRef90_UPI0003291294
 UniRef90_UPI0003291294
 UniRef90_UPI0003291294
 UniRef90_Q8R0W0 R A V T G Y T D P Y T G D Q I S L F Q A M Q R D L I V K N H G I R L L E A Q I
 UniRef90_Q8R0W0 R A V T G Y T D P Y T G D Q I S L F Q A M Q R D L I V K N H G I R L L E A Q I
 UniRef90_Q8R0W0 R A V T G Y T D P Y T G D Q I S L F Q A M Q R D L I V K N H G I R L L E A Q I
 UniRef90_Q8R0W0 R A V T G Y T D P Y T G D Q I S L F Q A M Q R D L I V K N H G I R L L E A Q I
 UniRef90_UPI00026880EE

UniRef90_UPI000387257B
UniRef90_UPI000387257B
UniRef90_UPI000387257B
UniRef90_UPI0002C67F05
UniRef90_UPI0002C67F05
UniRef90_UPI0003946417
UniRef90_UPI0003946417
UniRef90_UPI000273D60E
UniRef90_UPI000273D60E
UniRef90_UPI000273D60E
UniRef90_UPI0003EDB9B4
UniRef90_UPI0003EDB9B4
UniRef90_M7B8I3
UniRef90_M7B8I3
UniRef90_UPI000392E789
UniRef90_UPI000392E789
UniRef90_UPI000392E789
UniRef90_UPI000392E789
UniRef90_UPI00045DC770
UniRef90_UPI00045DC770
UniRef90_UPI00045DC770
UniRef90_S9W9N6
UniRef90_UPI0002C36FB0
UniRef90_UPI0002C36FB0
UniRef90_UPI00032AFB2B
UniRef90_UPI000350446B
UniRef90_UPI000350446B
UniRef90_UPI000350446B
UniRef90_UPI0004420D8B
UniRef90_UPI0004420D8B
UniRef90_UPI00034482E8
UniRef90_UPI00034482E8
UniRef90_UPI000454899B
UniRef90_UPI000454899B
UniRef90_UPI000454899B
UniRef90_UPI000454899B
UniRef90_F7EDB0
UniRef90_UPI0002BCD19C
UniRef90_UPI0002BCD19C
UniRef90_G1LIB6
UniRef90_G1LIB6
UniRef90_UPI0003D0C446
UniRef90_UPI0003D0C446
UniRef90_UPI0004541D7D
UniRef90_UPI0004541D7D
UniRef90_UPI0004541D7D
UniRef90_UPI0004541D7D
UniRef90_UPI0003F05DF5
UniRef90_UPI0003F05DF5
UniRef90_UPI000359E9DB
UniRef90_UPI000359E9DB
UniRef90_UPI00046BC289
UniRef90_UPI00046BC289
UniRef90_UPI0003339ED2
UniRef90_UPI0003339ED2
UniRef90_UPI00038C4972
UniRef90_UPI00038C4972
UniRef90_H9GED3
UniRef90_H9GED3
UniRef90_M7AUR4
UniRef90_M7AUR4
UniRef90_M7AUR4
UniRef90_UPI0003F10E1E
UniRef90_UPI0003F10E1E
UniRef90_UPI0003442D0D
UniRef90_UPI00046C07F7
UniRef90_UPI00046C07F7
UniRef90_G3TUP2
UniRef90_G3TUP2
UniRef90_G3TUP2
UniRef90_UPI00042C0B9A
UniRef90_UPI00042C0B9A
UniRef90_UPI000443B9A1
UniRef90_UPI000443B9A1
UniRef90_UPI000443B9A1
UniRef90_UPI0002656005
UniRef90_UPI0002656005
UniRef90_UPI0001DECCD0
UniRef90_UPI0001DECCD0
UniRef90_UPI0004419AFB
UniRef90_UPI0004419AFB
UniRef90_UPI0000DA2E52
UniRef90_UPI0000DA2E52
UniRef90_UPI0000DA2E52
UniRef90_UPI0003832331
UniRef90_UPI0003832331
UniRef90_UPI0003291294
UniRef90_UPI0003291294
UniRef90_UPI0003291294
UniRef90_Q8ROW0
UniRef90_Q8ROW0
UniRef90_Q8ROW0
UniRef90_Q8ROW0
UniRef90_UPI00026880EE

90 100 110 120

UniRef90_UPI000387257B
UniRef90_UPI000387257B
UniRef90_UPI000387257B
UniRef90_UPI0002C67F05
UniRef90_UPI0002C67F05
UniRef90_UPI0003946417
UniRef90_UPI0003946417
UniRef90_UPI000273D60E
UniRef90_UPI000273D60E
UniRef90_UPI000273D60E
UniRef90_UPI000273D60E
UniRef90_UPI0003EDB9B4
UniRef90_UPI0003EDB9B4
UniRef90_M7B8I3
UniRef90_M7B8I3
UniRef90_UPI000392E789
UniRef90_UPI000392E789
UniRef90_UPI000392E789
UniRef90_UPI000392E789
UniRef90_UPI000392E789
UniRef90_UPI00045DC770
UniRef90_UPI00045DC770
UniRef90_UPI00045DC770
UniRef90_UPI00045DC770
UniRef90_S9W9N6
UniRef90_UPI0002C36FB0
UniRef90_UPI0002C36FB0
UniRef90_UPI00032AFB2B
UniRef90_UPI000350446B
UniRef90_UPI000350446B
UniRef90_UPI000350446B
UniRef90_UPI000350446B
UniRef90_UPI0004420D8B
UniRef90_UPI0004420D8B
UniRef90_UPI00034482E8
UniRef90_UPI00034482E8
UniRef90_UPI00034482E8
UniRef90_UPI000454899B
UniRef90_UPI000454899B
UniRef90_UPI000454899B
UniRef90_UPI000454899B
UniRef90_F7EDB0
UniRef90_UPI0002BCD19C
UniRef90_UPI0002BCD19C
UniRef90_G1LIB6
UniRef90_G1LIB6
UniRef90_UPI0003D0C446
UniRef90_UPI0003D0C446
UniRef90_UPI0004541D7D
UniRef90_UPI0004541D7D
UniRef90_UPI0004541D7D
UniRef90_UPI0003F05DF5
UniRef90_UPI0003F05DF5
UniRef90_UPI000359E9DB
UniRef90_UPI000359E9DB
UniRef90_UPI00046BC289
UniRef90_UPI00046BC289
UniRef90_UPI0003339ED2
UniRef90_UPI0003339ED2
UniRef90_UPI00038C4972
UniRef90_UPI00038C4972
UniRef90_H9GED3
UniRef90_H9GED3
UniRef90_M7AUR4
UniRef90_M7AUR4
UniRef90_M7AUR4
UniRef90_M7AUR4
UniRef90_UPI0003F10E1E
UniRef90_UPI0003F10E1E
UniRef90_UPI0003442D0D
UniRef90_UPI00046C07F7
UniRef90_UPI00046C07F7
UniRef90_UPI00046C07F7
UniRef90_G3TUP2
UniRef90_G3TUP2
UniRef90_G3TUP2
UniRef90_UPI00042C0B9A
UniRef90_UPI00042C0B9A
UniRef90_UPI000443B9A1
UniRef90_UPI000443B9A1
UniRef90_UPI000443B9A1
UniRef90_UPI000443B9A1
UniRef90_UPI0002656005
UniRef90_UPI0002656005
UniRef90_UPI0001DECCD0
UniRef90_UPI0001DECCD0
UniRef90_UPI0004419AFB
UniRef90_UPI0004419AFB
UniRef90_UPI0000DA2E52
UniRef90_UPI0000DA2E52
UniRef90_UPI0000DA2E52
UniRef90_UPI0003832331
UniRef90_UPI0003832331
UniRef90_UPI0003291294
UniRef90_UPI0003291294
UniRef90_UPI0003291294
UniRef90_Q8ROW0
UniRef90_Q8ROW0
UniRef90_Q8ROW0
UniRef90_Q8ROW0
UniRef90_UPI00026880EE

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

A R D V G S L D S V Q R Y L Q G T G C I A G L L L P D S Q

UniRef90_UPI000387257B E K M S I Y Q A M R K G I L R R P P G T A L V L L L E A Q A A A T G Y I I D D P E K N K K K
UniRef90_UPI000387257B E K M S I Y Q A M R K G I L R R P P G T A L V L L L E A Q A A A T G Y I I D D P E K N K K K
UniRef90_UPI000387257B E K M S I Y Q A M R K G I L R R P P G T A L V L L L E A Q A A A T G Y I I D D P E K N K K K
UniRef90_UPI0002C67F05 R R R L W V D E A V R A G L V G G P P E L L H R Q L L L V A E Q A A V T T G Y Y H D D P P F S S G T R R M
UniRef90_UPI0002C67F05 R R R L W V D E A V R A G L V G G P P E L L H R Q L L L V A E Q A A V T T G Y Y H D D P P F S S G T R R M
UniRef90_UPI0003946417 K N Y S V D E A V R V G L I G G P P E L L Y E K L S S A E K A I L T G Y R D D P P S T R E M M
UniRef90_UPI0003946417 K N Y S V D E A V R V G L I G G P P E L L Y E K L S S A E K A I L T G Y R D D P P S T R E M M
UniRef90_UPI000273D60E Q R R L S L Y Q A M R Q K L L L G G P P R V A L A L L L E A Q A A A T G T I M D D P H S P E S
UniRef90_UPI000273D60E Q R R L S L Y Q A M R Q K L L L G G P P R V A L A L L L E A Q A A A T G T I M D D P H S P E S
UniRef90_UPI000273D60E Q R R L S L Y Q A M R Q K L L L G G P P R V A L A L L L E A Q A A A T G T I M D D P H S P E S
UniRef90_UPI0003EDB9B4 E K L S V Y A A L Q R Q L L L S P G T A L I L L L E A Q A A A S G F L L D D P V R N R R R
UniRef90_UPI0003EDB9B4 E K L S V Y A A L Q R Q L L L S P G T A L I L L L E A Q A A A S G F L L D D P V R N R R R
UniRef90_M7B8I3 K K Y S V E E A L R A N V I G P D D I Y N K L L A A E K A A V T T G Y K D D P Y T G N K
UniRef90_M7B8I3 K K Y S V E E A L R A N V I G P D D I Y N K L L A A E K A A V T T G Y K D D P Y T G N K
UniRef90_UPI000392E789 E K M S I Y Q A M R K G I L R R P P G T A L V L L L E A Q A A A T G Y I I D D P E K N K K K
UniRef90_UPI000392E789 E K M S I Y Q A M R K G I L R R P P G T A L V L L L E A Q A A A T G Y I I D D P E K N K K K
UniRef90_UPI000392E789 E K M S I Y Q A M R K G I L R R P P G T A L V L L L E A Q A A A T G Y I I D D P E K N K K K
UniRef90_UPI000392E789 E K M S I Y Q A M R K G I L R R P P G T A L V L L L E A Q A A A T G Y I I D D P E K N K K K
UniRef90_UPI00045DC770 E T M S I P E A L R R H I L R P P G T A L V L L L E A Q A A A T G F V I D D P V E N R R K
UniRef90_UPI00045DC770 E T M S I P E A L R R H I L R P P G T A L V L L L E A Q A A A T G F V I D D P V E N R R K
UniRef90_UPI00045DC770 E T M S I P E A L R R H I L R P P G T A L V L L L E A Q A A A T G F V I D D P V E N R R K
UniRef90_S9W9N6 R E K L S V E E A V A A G V V G G E L Q E K L L S A E R A V T T G Y T D D P Y T G E Q
UniRef90_UPI0002C36FB0 E R L A V D E A V R K G L V G G P E L L H D R L L S A E R A V T T G Y R D D P Y T E Q T
UniRef90_UPI0002C36FB0 E R L A V D E A V R K G L V G G P E L L H D R L L S A E R A V T T G Y R D D P Y T E Q T
UniRef90_UPI00032AFB2B H R L P L D M A C E Y G H L D R E T S R V L A D P S D A S R G F L D P N T H E K
UniRef90_UPI000350446B E K I S I Y Q A K R K G L I G P D V Y D K L L S A E K C V T T G Y R D D P C S S G D K
UniRef90_UPI000350446B E K I S I Y Q A K R K G L I G P D V Y D K L L S A E K C V T T G Y R D D P C S S G D K
UniRef90_UPI000350446B E K I S I Y Q A K R K G L I G P D V Y D K L L S A E K C V T T G Y R D D P C S S G D K
UniRef90_UPI0004420D8B E K V S V T E A M H R N L V D N I T G Q R L L E A Q A C T G G I I D P S S S G E K
UniRef90_UPI0004420D8B E K V S V T E A M H R N L V D N I T G Q R L L E A Q A C T G G I I D P S S S G E K
UniRef90_UPI00034482E8 E Q K V S V T E A M H R N L V D N I T G Q R L L E A Q A C T G G I I D P S S S G E K
UniRef90_UPI00034482E8 E Q K V S V T E A M H R N L V D N I T G Q R L L E A Q A C T G G I I D P S S S G E K
UniRef90_UPI000454899B Q Q L L Y M L E I V K K G H I D E T T R Q A L R S R T M K M Y I G K F A G Q T
UniRef90_UPI000454899B Q Q L L Y M L E I V K K G H I D E T T R Q A L R S R T M K M Y I G K F A G Q T
UniRef90_UPI000454899B Q Q L L Y M L E I V K K G H I D E T T R Q A L R S R T M K M Y I G K F A G Q T
UniRef90_UPI000454899B Q Q L L Y M L E I V K K G H I D E T T R Q A L R S R T M K M Y I G K F A G Q T
UniRef90_F7EDB0 R R I T A E N L Y E A R V I S R E S Y S L L Q E G A R S L R G I Y R P S S S R Q T
UniRef90_UPI0002BCD19C R R I T A E N L Y E A R V I S R E S Y S L L Q E G A R S L R G I Y R P S S S R Q T
UniRef90_UPI0002BCD19C R R I T A E N L Y E A R V I S R E S Y S L L Q E G A R S L R G I Y R P S S S R Q T
UniRef90_G1LIB6 Q R R L Y V H E A V K A G V V G P E L L H E K L L S A E K A V T T G Y K D D P Y S G S T
UniRef90_G1LIB6 Q R R L Y V H E A V K A G V V G P E L L H E K L L S A E K A V T T G Y K D D P Y S G S T
UniRef90_UPI0003D0C446 E K V S I Y E A M K K K F L S P G T A L I L L L E A Q A A A S G F I I D D P V R N K R
UniRef90_UPI0003D0C446 E K V S I Y E A M K K K F L S P G T A L I L L L E A Q A A A S G F I I D D P V R N K R
UniRef90_UPI0004541D7D E R L S I E E A L R A G V I G P D D V Y S K L L S A E R A V T T G Y T D D P Y S G E Q
UniRef90_UPI0004541D7D E R L S I E E A L R A G V I G P D D V Y S K L L S A E R A V T T G Y T D D P Y S G E Q
UniRef90_UPI0004541D7D E R L S I E E A L R A G V I G P D D V Y S K L L S A E R A V T T G Y T D D P Y S G E Q
UniRef90_UPI0003F05DF5 H V P A A Q L L E S G V I S Q D V F G Q L Q R G V C S V Q D V V D E E T A Q R
UniRef90_UPI0003F05DF5 H V P A A Q L L E S G V I S Q D V F G Q L Q R G V C S V Q D V V D E E T A Q R
UniRef90_UPI0003F05DF5 H V P A A Q L L E S G V I S Q D V F G Q L Q R G V C S V Q D V V D E E T A Q R
UniRef90_UPI000359E9DB E R L S V Y Q A M K K G I I R P G T A F E L L E A Q A A A T G Y V I D D P I K G L K
UniRef90_UPI000359E9DB E R L S V Y Q A M K K G I I R P G T A F E L L E A Q A A A T G Y V I D D P I K G L K
UniRef90_UPI00046BC289 E R L S V Y Q A M K K G I I R P G T A F E L L E A Q A A A T G Y V I D D P I K G L K
UniRef90_UPI00046BC289 E R L S V Y Q A M K K G I I R P G T A F E L L E A Q A A A T G Y V I D D P I K G L K
UniRef90_UPI0003339ED2 Q T L T V Y Q A L K K G L V P A E V A R L L L E A Q A A T G F M L D D P L K G E R
UniRef90_UPI0003339ED2 Q T L T V Y Q A L K K G L V P A E V A R L L L E A Q A A T G F M L D D P L K G E R
UniRef90_UPI0003339ED2 Q T L T V Y Q A L K K G L V P A E V A R L L L E A Q A A T G F M L D D P L K G E R
UniRef90_UPI00038C4972 E R L S V Y Q A M K K G I I R P G T A F E L L E A Q A A A T G Y V I D D P I K G L K
UniRef90_UPI00038C4972 E R L S V Y Q A M K K G I I R P G T A F E L L E A Q A A A T G Y V I D D P I K G L K
UniRef90_H9GED3 E R L S V Y Q A M K K G I I R P G T A F E L L E A Q A A A T G Y V I D D P I K G L K
UniRef90_H9GED3 E R L S V Y Q A M K K G I I R P G T A F E L L E A Q A A A T G Y V I D D P I K G L K
UniRef90_M7AUR4 E K L N L Y E A M K R N L L R P S T A V T L M E A Q A A S G F L V D D P E R N N Q K
UniRef90_M7AUR4 E K L N L Y E A M K R N L L R P S T A V T L M E A Q A A S G F L V D D P E R N N Q K
UniRef90_M7AUR4 E K L N L Y E A M K R N L L R P S T A V T L M E A Q A A S G F L V D D P E R N N Q K
UniRef90_M7AUR4 E K L N L Y E A M K R N L L R P S T A V T L M E A Q A A S G F L V D D P E R N N Q K
UniRef90_UPI0003F10E1E E R L S I E E A L R A G V I G P D D V Y A K L L S A E R A V T T G Y T N P Y T G E Q
UniRef90_UPI0003F10E1E E R L S I E E A L R A G V I G P D D V Y A K L L S A E R A V T T G Y T N P Y T G E Q
UniRef90_UPI0003442D0D Y R L P M P T A A Q R G Y I D G S E I H E K L L S A E R A V T T G Y T F P T D G R G H
UniRef90_UPI00046C07F7 E K L S V D E A V S A G L V G S S E I H E K L L S A E R A V T T G Y T D D P Y T G N K
UniRef90_UPI00046C07F7 E K L S V D E A V S A G L V G S S E I H E K L L S A E R A V T T G Y T D D P Y T G N K
UniRef90_G3TUP2 H K K S L C C Q A A S E H L L P L G T V L P L L E A Q A A T C T L V D D P A T G W Q
UniRef90_G3TUP2 H K K S L C C Q A A S E H L L P L G T V L P L L E A Q A A T C T L V D D P A T G W Q
UniRef90_G3TUP2 H K K S L C C Q A A S E H L L P L G T V L P L L E A Q A A T C T L V D D P A T G W Q
UniRef90_G3TUP2 H K K S L C C Q A A S E H L L P L G T V L P L L E A Q A A T C T L V D D P A T G W Q
UniRef90_UPI00042C0B9A E R L S V Y Q A M K K G I I R P G T A F E L L E A Q A A A T G Y V I D D P I K G F K
UniRef90_UPI00042C0B9A E R L S V Y Q A M K K G I I R P G T A F E L L E A Q A A A T G Y V I D D P I K G F K
UniRef90_UPI000443B9A1 E V M S F Y E A S K K G L I P E G I T A Q L L E A Q V A T G F L L D D P R S S K R
UniRef90_UPI000443B9A1 E V M S F Y E A S K K G L I P E G I T A Q L L E A Q V A T G F L L D D P R S S K R
UniRef90_UPI000443B9A1 E V M S F Y E A S K K G L I P E G I T A Q L L E A Q V A T G F L L D D P R S S K R
UniRef90_UPI0002656005 E S L S V D E A V R R G V V G P E L Y G R L K R A E G A V T G F R D D P F S G K Q
UniRef90_UPI0002656005 E S L S V D E A V R R G V V G P E L Y G R L K R A E G A V T G F R D D P F S G K Q
UniRef90_UPI0001DECCD0 R R L T A E D L Y E A R V I S R E T Y E V L E D E S A L R Y G V Y L P G S R Q T
UniRef90_UPI0001DECCD0 R R L T A E D L Y E A R V I S R E T Y E V L E D E S A L R Y G V Y L P G S R Q T
UniRef90_UPI0004419AFB E K M S I Y E A M K Q Q I L S P G T A L I L L L E A Q A A S G F I I D D P V R N K S
UniRef90_UPI0004419AFB E K M S I Y E A M K Q Q I L S P G T A L I L L L E A Q A A S G F I I D D P V R N K S
UniRef90_UPI0000DA2E52 Q R I S L Y Q A M K Q K L L A P S V A L A L L L E A Q A A T G A I T D D P C S M Q T
UniRef90_UPI0000DA2E52 Q R I S L Y Q A M K Q K L L A P S V A L A L L L E A Q A A T G A I T D D P C S M Q T
UniRef90_UPI0000DA2E52 Q R I S L Y Q A M K Q K L L A P S V A L A L L L E A Q A A T G A I T D D P C S M Q T
UniRef90_UPI0000DA2E52 Q R I S L Y Q A M K Q K L L A P S V A L A L L L E A Q A A T G A I T D D P C S M Q T
UniRef90_UPI0003832331 Q R I S I Y E A M K Q N I M L P G M A L P L L E A Q A A T G F I I D D P V N N Q K
UniRef90_UPI0003832331 Q R I S I Y E A M K Q N I M L P G M A L P L L E A Q A A T G F I I D D P V N N Q K
UniRef90_UPI0003291294 R R L S L Y Q A M E Q K L L D P G T A V A L L L E A Q A A T G A L L D D P C S R D P
UniRef90_UPI0003291294 R R L S L Y Q A M E Q K L L D P G T A V A L L L E A Q A A T G A L L D D P C S R D P
UniRef90_UPI0003291294 R R L S L Y Q A M E Q K L L D P G T A V A L L L E A Q A A T G A L L D D P C S R D P
UniRef90_UPI0003291294 R R L S L Y Q A M E Q K L L D P G T A V A L L L E A Q A A T G A L L D D P C S R D P
UniRef90_Q8ROW0 R R L S L Y Q A M E Q K L L D P G T A V A L L L E A Q A A T G A L L D D P C S R D P
UniRef90_Q8ROW0 R R L S L Y Q A M E Q K L L D P G T A V A L L L E A Q A A T G A L L D D P C S R D P
UniRef90_Q8ROW0 R R L S L Y Q A M E Q K L L D P G T A V A L L L E A Q A A T G A L L D D P C S R D P
UniRef90_Q8ROW0 R R L S L Y Q A M E Q K L L D P G T A V A L L L E A Q A A T G A L L D D P C S R D P
UniRef90_UPI00026880EE E R L S V E E A L R A G V I G L D V Y A K L L S A E R A V T G Y T D D P Y S G E Q

UniRef90_UPI000387257B F S V E E A L T A G L I 170
UniRef90_UPI000387257B F S V E E E A L T A G L I 180
UniRef90_UPI000387257B F S V E E E A L T A G L I
UniRef90_UPI0002C67F05 I P L F Q A M K K E L V D R R P L A L R L L D A Q
UniRef90_UPI0002C67F05 I P L F Q A M K K E L V D R R P L A L R L L D A Q
UniRef90_UPI0003946417 L S L F Q A I R K G F V P R D H G L C L L E A Q
UniRef90_UPI0003946417 L S L F Q A I R K G F V P R D H G L C L L E A Q
UniRef90_UPI000273D60E L S V D E A V R R G V V G P E
UniRef90_UPI000273D60E L S V D E A V R R G V V G P E
UniRef90_UPI000273D60E L S V D E A V R R G V V G P E
UniRef90_UPI0003EDB9B4 L T V N E A V K E G V V G P E L H H K L L S A
UniRef90_UPI0003EDB9B4 L T V N E A V K E G V V G P E L H H K L L S A
UniRef90_UPI0003EDB9B4 L T V N E A V K E G V V G P E L H H K L L S A
UniRef90_M7B8I3 I S L F Q A M S K G H I I R D H G I R L L E A Q
UniRef90_M7B8I3 I S L F Q A M S K G H I I R D H G I R L L E A Q
UniRef90_UPI000392E789 F S V E E E A L T A G L I
UniRef90_UPI000392E789 F S V E E E A L T A G L I
UniRef90_UPI000392E789 F S V E E E A L T A G L I
UniRef90_UPI000392E789 F S V E E E A L T A G L I
UniRef90_UPI00045DC770 L T V E Q A Y S A G M F G K E T Y E K L L S A
UniRef90_UPI00045DC770 L T V E Q A Y S A G M F G K E T Y E K L L S A
UniRef90_UPI00045DC770 L T V E Q A Y S A G M F G K E T Y E K L L S A
UniRef90_S9W9N6 I S L F Q A M K K D L I V R E H G I R L L E A Q
UniRef90_UPI0002C36FB0 I S L F Q A M K K D L I P T E E A L R L L D A Q Q
UniRef90_UPI0002C36FB0 I S L F Q A M K K D L I P T E E A L R L L D A Q Q
UniRef90_UPI00032AFB2B L T Y S E L L G R C V E D P E T G L R L L P L K G
UniRef90_UPI000350446B I S L F Q A M Q K E L I V R E H G I R L L E A Q
UniRef90_UPI000350446B I S L F Q A M Q K E L I V R E H G I R L L E A Q
UniRef90_UPI000350446B I S L F Q A M Q K E L I V R E H G I R L L E A Q
UniRef90_UPI0004420D8B F S V A D A V N K G L V D K
UniRef90_UPI0004420D8B F S V A D A V N K G L V D K
UniRef90_UPI00034482E8 V S V W D L L S S Q Y F T E G R K R K L L Q
UniRef90_UPI00034482E8 V S V W D L L S S Q Y F T E G R K R K L L Q
UniRef90_UPI000454899B V S V W D L L S S Q Y F T E G R K R K L L Q
UniRef90_UPI000454899B V S V W D L L S S Q Y F T E G R K R K L L Q
UniRef90_UPI0002BCD19C L T I Y Q A L K K G Q L S A E V A R Q L L E A Q A A T
UniRef90_UPI0002BCD19C L T I Y Q A L K K G Q L S A E V A R Q L L E A Q A A T
UniRef90_G1LIB6 I S L F Q A M K K G L V L R D H G I R L L E A Q
UniRef90_G1LIB6 I S L F Q A M K K G L V L R D H G I R L L E A Q
UniRef90_UPI0003D0C446 L S V N E A V K E G V I G P E L H N K M L S A
UniRef90_UPI0003D0C446 L S V N E A V K E G V I G P E L H N K M L S A
UniRef90_UPI0004541D7D I S L F Q A M Q R D L I V R D H G I R L L E A Q
UniRef90_UPI0004541D7D I S L F Q A M Q R D L I V R D H G I R L L E A Q
UniRef90_UPI0004541D7D I S L F Q A M Q R D L I V R D H G I R L L E A Q
UniRef90_UPI0004541D7D I S L F Q A M Q R D L I V R D H G I R L L E A Q
UniRef90_UPI0003F05DF5 L S I Y E A L R R D L L K A D V A V A L L E A Q
UniRef90_UPI0003F05DF5 L S I Y E A L R R D L L K A D V A V A L L E A Q
UniRef90_UPI000359E9DB L T V E E A V R M G I V G P E F K D K L L S A
UniRef90_UPI000359E9DB L T V E E A V R M G I V G P E F K D K L L S A
UniRef90_UPI00046BC289 L T V E E A V R M G I V G P E F K D K L L S A
UniRef90_UPI00046BC289 L T V E E A V R M G I V G P E F K D K L L S A
UniRef90_UPI0003339ED2 L T V D E A V R K G L V G P E L H D R L L S A
UniRef90_UPI0003339ED2 L T V D E A V R K G L V G P E L H D R L L S A
UniRef90_UPI00038C4972 L T V E E A V R M G I V G P E F K D K L L S A
UniRef90_UPI00038C4972 L T V E E A V R M G I V G P E F K D K L L S A
UniRef90_H9GED3 L T V E E A V R M G I V G P E F K D K L L S A
UniRef90_H9GED3 L T V E E A V R M G I V G P E F K D K L L S A
UniRef90_M7AUR4 L C V N E A V K A G L V G P E L H E K L L S A
UniRef90_M7AUR4 L C V N E A V K A G L V G P E L H E K L L S A
UniRef90_M7AUR4 L C V N E A V K A G L V G P E L H E K L L S A
UniRef90_M7AUR4 L C V N E A V K A G L V G P E L H E K L L S A
UniRef90_UPI0003F10E1E I S L F Q A M Q R E L I V R D H G V R L L E A Q
UniRef90_UPI0003F10E1E I S L F Q A M Q R E L I V R D H G V R L L E A Q
UniRef90_UPI0003442D0D T S Y A R L L E Q C V R D E P S G L H F L P L
UniRef90_UPI00046C07F7 I S L F Q A M E R D L I V K D H G I R L L E A Q
UniRef90_UPI00046C07F7 I S L F Q A M E R D L I V K D H G I R L L E A Q
UniRef90_G3TUP2 L W V D E A V R A G L V R P E H G Q L L
UniRef90_G3TUP2 L W V D E A V R A G L V R P E H G Q L L
UniRef90_G3TUP2 L W V D E A V R A G L V R P E H G Q L L
UniRef90_UPI00042C0B9A L T V E E A V R M G I V G P E F K D K L L S A
UniRef90_UPI00042C0B9A L T V E E A V R M G I V G P E F K D K L L S A
UniRef90_UPI000443B9A1 L R V E E A V E A G L V
UniRef90_UPI000443B9A1 L R V E E A V E A G L V
UniRef90_UPI000443B9A1 L R V E E A V E A G L V
UniRef90_UPI0002656005 V S L F Q A M K K G L I P W D Q T A R L L E A Q
UniRef90_UPI0002656005 V S L F Q A M K K G L I P W D Q T A R L L E A Q
UniRef90_UPI0001DECCD0 L T V Y Q A L K K G L L S A E V A R V L L E A Q A A T
UniRef90_UPI0001DECCD0 L T V Y Q A L K K G L L S A E V A R V L L E A Q A A T
UniRef90_UPI0004419AFB I S V S E A V K E G V V G P E L H N K L L S A
UniRef90_UPI0004419AFB I S V S E A V K E G V V G P E L H N K L L S A
UniRef90_UPI0000DA2E52 L S V D E A V C C R G V V
UniRef90_UPI0000DA2E52 L S V D E A V C C R G V V
UniRef90_UPI0000DA2E52 L S V D E A V C C R G V V
UniRef90_UPI0003832331 L C V D D A I K E G V I G P E
UniRef90_UPI0003832331 L C V D D A I K E G V I G P E
UniRef90_UPI0003291294 L S V D E A V R R G L V G P E
UniRef90_UPI0003291294 L S V D E A V R R G L V G P E
UniRef90_UPI0003291294 L S V D E A V R R G L V G P E
UniRef90_Q8ROW0
UniRef90_Q8ROW0
UniRef90_Q8ROW0
UniRef90_Q8ROW0
UniRef90_UPI00026880EE I S L F Q A M Q R E L I V R D H G I R L L E A Q

UniRef90_UPI00026880EE
 UniRef90_UPI00026880EE
 UniRef90_UPI000443617E
 UniRef90_UPI000443617E
 UniRef90_UPI0003C29057
 UniRef90_UPI0003C29057
 UniRef90_UPI0003C29057
 UniRef90_UPI000332299
 UniRef90_UPI0003332299
 UniRef90_F7H3U5
 UniRef90_F7H3U5
 UniRef90_UPI0003315DFF
 UniRef90_UPI0003315DFF
 UniRef90_UPI0002742BC4
 UniRef90_UPI0002742BC4
 UniRef90_UPI0002742BC4
 UniRef90_G3W4U5
 UniRef90_G3W4U5
 UniRef90_F7H3U7
 UniRef90_F7H3U7
 UniRef90_UPI0004421B5E
 UniRef90_UPI0004421B5E
 UniRef90_UPI000388D4CB
 UniRef90_UPI000388D4CB
 UniRef90_UPI00038EFED4
 UniRef90_UPI00038EFED4
 UniRef90_UPI0003C4534A
 UniRef90_UPI0003C4534A
 UniRef90_UPI0003C4534A
 UniRef90_UPI0003C9180D
 UniRef90_UPI0003C9180D
 UniRef90_UPI0002B46EC6
 UniRef90_E9PPU0
 UniRef90_E9PPU0
 UniRef90_E9PPU0
 UniRef90_UPI0003F0ACA1
 UniRef90_UPI0003F0ACA1
 UniRef90_UPI0002739C70
 UniRef90_UPI0002739C70
 UniRef90_UPI0003F1AEF7
 UniRef90_UPI0003F1AEF7
 UniRef90_UPI00034FF70E
 UniRef90_UPI00034FF70E
 UniRef90_UPI000203D63E
 UniRef90_UPI000203D63E
 UniRef90_UPI000203D63E
 UniRef90_UPI000203D63E
 UniRef90_H9GTP6
 UniRef90_H9GTP6
 UniRef90_H9GTP6
 UniRef90_H9GTP6
 UniRef90_G3W1A2
 UniRef90_UPI0003D0DB73
 UniRef90_UPI0003D0DB73
 UniRef90_UPI0003D0DB73
 UniRef90_UPI00034FD335
 UniRef90_UPI00034FD335
 UniRef90_UPI000441A8F9
 UniRef90_UPI000441A8F9
 UniRef90_UPI000441A8F9
 UniRef90_UPI0003340297
 UniRef90_UPI0003340297
 UniRef90_UPI0002A48727
 UniRef90_UPI0002A48727
 UniRef90_UPI0003C49FF9
 UniRef90_UPI00029DA331
 UniRef90_UPI0003C26599
 UniRef90_V8N9B6
 UniRef90_V8N9B6
 UniRef90_UPI0004572BF8
 UniRef90_UPI0004572BF8
 UniRef90_UPI00046B9433
 UniRef90_UPI00046B9433
 UniRef90_P15924
 UniRef90_UPI0004419B0E
 UniRef90_H3CB78
 UniRef90_UPI0003C292D6
 UniRef90_L5KUY4
 UniRef90_S4RYD5
 UniRef90_S4RYD5
 UniRef90_UPI0003B4ABBE
 UniRef90_UPI0003B4ABBE
 UniRef90_UPI000443CA8D
 UniRef90_UPI000443CA8D
 UniRef90_M4AUN9
 UniRef90_M4AUN9
 UniRef90_S7MTQ5
 UniRef90_G3TU65
 UniRef90_H9FI98
 UniRef90_H3ADG4
 UniRef90_UPI0003C17F4A
 UniRef90_UPI0003C17F4A

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

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

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

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

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

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

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

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

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

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

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

UniRef90_UPI00026880EE
UniRef90_UPI00026880EE
UniRef90_UPI000443617E
UniRef90_UPI000443617E
UniRef90_UPI0003C29057
UniRef90_UPI0003C29057
UniRef90_UPI0003C29057
UniRef90_UPI000332299
UniRef90_UPI0003332299
UniRef90_F7H3U5
UniRef90_F7H3U5
UniRef90_UPI0003315DFF
UniRef90_UPI0003315DFF
UniRef90_UPI0002742BC4
UniRef90_UPI0002742BC4
UniRef90_UPI0002742BC4
UniRef90_G3W4U5
UniRef90_G3W4U5
UniRef90_F7H3U7
UniRef90_F7H3U7
UniRef90_UPI0004421B5E
UniRef90_UPI0004421B5E
UniRef90_UPI000388D4CB
UniRef90_UPI000388D4CB
UniRef90_UPI00038EFED4
UniRef90_UPI00038EFED4
UniRef90_UPI0003C4534A
UniRef90_UPI0003C4534A
UniRef90_UPI0003C4534A
UniRef90_UPI0003C9180D
UniRef90_UPI0003C9180D
UniRef90_UPI0002B46EC6
UniRef90_E9PPU0
UniRef90_E9PPU0
UniRef90_E9PPU0
UniRef90_UPI0003F0ACA1
UniRef90_UPI0003F0ACA1
UniRef90_UPI0002739C70
UniRef90_UPI0002739C70
UniRef90_UPI0003F1AEF7
UniRef90_UPI0003F1AEF7
UniRef90_UPI00034FF70E
UniRef90_UPI00034FF70E
UniRef90_UPI000203D63E
UniRef90_UPI000203D63E
UniRef90_UPI000203D63E
UniRef90_UPI000203D63E
UniRef90_H9GTP6
UniRef90_H9GTP6
UniRef90_H9GTP6
UniRef90_H9GTP6
UniRef90_H9GTP6
UniRef90_G3W1A2
UniRef90_UPI0003D0DB73
UniRef90_UPI0003D0DB73
UniRef90_UPI0003D0DB73
UniRef90_UPI00034FD335
UniRef90_UPI00034FD335
UniRef90_UPI000441A8F9
UniRef90_UPI000441A8F9
UniRef90_UPI000441A8F9
UniRef90_UPI000441A8F9
UniRef90_UPI0003340297
UniRef90_UPI0003340297
UniRef90_UPI0002A48727
UniRef90_UPI0002A48727
UniRef90_UPI0003C49FF9
UniRef90_UPI00029DA331
UniRef90_UPI0003C26599
UniRef90_V8N9B6
UniRef90_V8N9B6
UniRef90_UPI0004572BF8
UniRef90_UPI0004572BF8
UniRef90_UPI00046B9433
UniRef90_UPI00046B9433
UniRef90_P15924
UniRef90_UPI0004419B0E
UniRef90_H3CB78
UniRef90_UPI0003C292D6
UniRef90_L5KUY4
UniRef90_S4RYD5
UniRef90_S4RYD5
UniRef90_UPI0003B4ABBE
UniRef90_UPI0003B4ABBE
UniRef90_UPI000443CA8D
UniRef90_UPI000443CA8D
UniRef90_M4AUN9
UniRef90_M4AUN9
UniRef90_S7MTQ5
UniRef90_G3TU65
UniRef90_H9FI98
UniRef90_H3ADG4
UniRef90_UPI0003C17F4A
UniRef90_UPI0003C17F4A

UniRef90_UPI00026880EE 90 A R D V G S L D S V Q R Y L Q G T G C I A G L L L P D S 100 110 120
UniRef90_UPI00026880EE A R D V G S L D S V Q R Y L Q G T G C I A G L L L P D S
UniRef90_UPI000443617E K D L S E T D L V K R F L Q Q G T G S I A G L Y V V E E T K
UniRef90_UPI000443617E K D L S E T D L V K R F L Q Q G T G S I A G L Y V V E E T K
UniRef90_UPI0003C29057 T A G E V A A M E S V K T Y L Q Q G T G S I A G V V V Q Q A S K
UniRef90_UPI0003C29057 T A G E V A A M E S V K T Y L Q Q G T G S I A G V V V Q Q A S K
UniRef90_UPI000332299 Q G R V T A Y Q L L E A R I I I S Q E L V R R Y L Q Q G S G A I G G V V V L Q Q P S N
UniRef90_UPI0003332299 K G F N L T Y L Q L M E R C I I T D P Q T G L C L L L I D H Q T D G G I I D R R R S G
UniRef90_F7H3U5 K G F N L T Y L Q L M E R C I I T D P Q T G L C L L L I D H Q T D G G I I D R R R S G
UniRef90_F7H3U5 S G S V S L A E L L E A E V V D E E I A R G L L Q E G R L S T A G V V L L P A G
UniRef90_UPI0003315DFF S G S V S L A E L L E A E V V D E E I A R G L L Q E G R L S T A G V V L L P A G
UniRef90_UPI0003315DFF S G S V S L A E L L E A E V V D E E I A R G L L Q E G R L S T A G V V L L P A G
UniRef90_UPI0002742BC4 G E A L R Q L E H V N I Y L E E G S G C C C I A G V T V P P T Q Q
UniRef90_UPI0002742BC4 G E A L R Q L E H V N I Y L E E G S G C C C I A G V T V P P T Q Q
UniRef90_UPI0002742BC4 G E A L R Q L E H V N I Y L E E G S G C C C I A G V T V P P T Q Q
UniRef90_UPI0002742BC4 G E A L R Q L E H V N I Y L E E G S G C C C I A G V T V P P T Q Q
UniRef90_G3W4U5 K D I S E T D S V K R F L Q Q G T D C C C I A G I Y V E E T K
UniRef90_G3W4U5 K D I S E T D S V K R F L Q Q G T D C C C I A G I Y V E E T K
UniRef90_F7H3U7 T G Q Q I T T V E E L V R S Q V M D E A T A L K F L E G T S C C C I A G V F V D A T K
UniRef90_F7H3U7 T G Q Q I T T V E E L V R S Q V M D E A T A L K F L E G T S C C C I A G V F V D A T K
UniRef90_UPI0004421B5E S R Q T L T I Y Q A L K K G Q L S A E V A R Q L L E A Q A A T G F L L D P P V K G
UniRef90_UPI0004421B5E S R Q T L T I Y Q A L K K G Q L S A E V A R Q L L E A Q A A T G F L L D P P V K G
UniRef90_UPI000388D4CB A G E K M G L Y Q A M M R G V L T P G T A L V L L E A Q A A M G F I I D P V V R N
UniRef90_UPI000388D4CB A G E K M G L Y Q A M M R G V L T P G T A L V L L E A Q A A M G F I I D P V V R N
UniRef90_UPI00038EFED4 L G G A A S V A E L L E V G V L D K E V G Q R Y L E E G T S S V A G I V L L P E G
UniRef90_UPI00038EFED4 L G G A A S V A E L L E V G V L D K E V G Q R Y L E E G T S S V A G I V L L P E G
UniRef90_UPI0003C4534A H N L H H M D S V K R Y L Q Q G T G S I A G V L L L P A T Q Q
UniRef90_UPI0003C4534A H N L H H M D S V K R Y L Q Q G T G S I A G V L L L P A T Q Q
UniRef90_UPI0003C4534A H N L H H M D S V K R Y L Q Q G T G S I A G V L L L P A T Q Q
UniRef90_UPI0003C9180D S G V L L G L Y Q A M K Q K L L G P G V A V A L L E A Q A A T G A I T D P H S L
UniRef90_UPI0003C9180D S G V L L G L Y Q A M K Q K L L G P G V A V A L L E A Q A A T G A I T D P H S L
UniRef90_UPI0002B46EC6 T G Y K I S L F Q A M Q K D L I V R D H G I R L L E A Q I A T G G I I D P V N S
UniRef90_E9PPU0 K E V A E M D S V K R S L E E G G N F I A G V L L I Q Q G T Q Q
UniRef90_E9PPU0 K E V A E M D S V K R S L E E G G N F I A G V L L I Q Q G T Q Q
UniRef90_E9PPU0 K E V A E M D S V K R S L E E G G N F I A G V L L I Q Q G T Q Q
UniRef90_UPI0003F0ACA1 P Q L V D S A T R A L Q G R L L T V Q H G Q R I C L W D L L N S E Y V C E G
UniRef90_UPI0003F0ACA1 P Q L V D S A T R A L Q G R L L T V Q H G Q R I C L W D L L N S E Y V C E G
UniRef90_UPI0002739C70 L G G M V S S E Q L L E A G I L L P R E E V Q C C Y L E E G T G S I V G V I V Q S T G
UniRef90_UPI0002739C70 L G G M V S S E Q L L E A G I L L P R E E V Q C C Y L E E G T G S I V G V I V Q S T G
UniRef90_UPI0003F1AEF7 K D V S D L E A V R K Y L T G S T A I A G V Q Q V E K T G
UniRef90_UPI0003F1AEF7 K D V S D L E A V R K Y L T G S T A I A G V Q Q V E K T G
UniRef90_UPI0003FF70E K D V S D L E A V R K Y L T G S T A I A G V Q Q V E K T G
UniRef90_UPI0003FF70E K D V S D L E A V R K Y L T G S T A I A G V Q Q V E K T G
UniRef90_UPI000203D63E T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_UPI000203D63E T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_UPI000203D63E T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_UPI000203D63E T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_UPI000203D63E T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_UPI000203D63E T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_H9GTP6 T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_H9GTP6 T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_H9GTP6 T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_H9GTP6 T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_H9GTP6 T A R E V S E M E A V K K Y L Q Q G T G A I A G V L L L Q S S G
UniRef90_G3W1A2 K G Q T V S L W D L L H E Y V S A D A A L R I E E T E Q R A R Q I T F P G L R
UniRef90_UPI0003D0DB73 K E V T E M D S V R R Y L E E G C N F I A G V I I Q P S N
UniRef90_UPI0003D0DB73 K E V T E M D S V R R Y L E E G C N F I A G V I I Q P S N
UniRef90_UPI0003D0DB73 K E V T E M D S V R R Y L E E G C N F I A G V I I Q P S N
UniRef90_UPI0003FD335 S D V S M R F F Q A T T E H L L S M G T A L P L L E A Q A A T R T L V D P A T G
UniRef90_UPI0003FD335 S D V S M R F F Q A T T E H L L S M G T A L P L L E A Q A A T R T L V D P A T G
UniRef90_UPI000441A8F9 K E V I N M G T V K K Y L E E G T G S I G G L L L P D S Q
UniRef90_UPI000441A8F9 K E V I N M G T V K K Y L E E G T G S I G G L L L P D S Q
UniRef90_UPI000441A8F9 K E V I N M G T V K K Y L E E G T G S I G G L L L P D S Q
UniRef90_UPI0003340297 K G F F D P N T H E N L T Y L Q L L E R C V E D P E T G
UniRef90_UPI0003340297 K G F F D P N T H E N L T Y L Q L L E R C V E D P E T G
UniRef90_UPI0002A48727 T D E K L S Y A E L L K E G L L S E E V S N R L S R Y L Q G T G G V F L E T T K
UniRef90_UPI0002A48727 T D E K L S Y A E L L K E G L L S E E V S N R L S R Y L Q G T G G V F L E T T K
UniRef90_UPI0003C49FF9 T G F K V P V S D A I K K N L I D R E T G I R L L E A Q M T A G G I V D P V N S
UniRef90_UPI00029DA331 A G E R L S I Y E A R C K G L L R P G T A L L L E A Q A A T G F I I D P K A N
UniRef90_UPI0003C26599 T Q F S P T V M S V R S S S L I R N G S L S E A P E E C S P I A A L F D P T E N H
UniRef90_V8N9B6 T K G F F D P N T H T K G F F D P N T H
UniRef90_V8N9B6 T K G F F D P N T H T K G F F D P N T H
UniRef90_UPI0004572BF8 R P E E V E Q V E T V K K Y L K G S D S I A G V V F V E P T K
UniRef90_UPI0004572BF8 R P E E V E Q V E T V K K Y L K G S D S I A G V V F V E P T K
UniRef90_UPI00046B9433 R G R R V S A W E L L N R E E V S L E Q Q V A Q R L Q R E A A R C C A D V T L P A L R
UniRef90_UPI00046B9433 R G R R V S A W E L L N R E E V S L E Q Q V A Q R L Q R E A A R C C A D V T L P A L R
UniRef90_P15924 T K K K V S Y V I Q L K E R C R T I E P H T G L L L L S V Q M S F Q G G I R Q P
UniRef90_UPI0004419B0E T G F T V S Y F E A V K K N L I D R E T G M R L L E A Q M T A G G I V D P V N S
UniRef90_H3CB78 A G E T L S I Y E A R R R G L L T P G T S L V L L E A Q A A T G F V I D P V N N
UniRef90_UPI0003C292D6 T G Y K I S L F Q A M N K E L I E R G H G I R L L E A Q I A T G G I I D P K E S
UniRef90_L5KUY4 K Q V Q T S Q K N T L R K R R V V
UniRef90_S4RYD5 D E V G S S I L N Y L E G S T A I A G L Y I E A T K
UniRef90_S4RYD5 D E V G S S I L N Y L E G S T A I A G L Y I E A T K
UniRef90_UPI0003B4ABBE T G E K F T I Y Q A M K K R L L K P G T A L A L L E A Q A A T V G I I D P I G N
UniRef90_UPI0003B4ABBE T G E K F T I Y Q A M K K R L L K P G T A L A L L E A Q A A T V G I I D P I G N
UniRef90_UPI000443CA8D T E Y T A S P V P S I K T P A T T W N D P T E E T G P V A G I L D T D T L
UniRef90_UPI000443CA8D T E Y T A S P V P S I K T P A T T W N D P T E E T G P V A G I L D T D T L
UniRef90_M4AUN9 K G F T N P N T N E Q V T Y S Q L L E K C R R D P N T G
UniRef90_M4AUN9 K G F T N P N T N E Q V T Y S Q L L E K C R R D P N T G
UniRef90_M4AUN9 K G F T N P N T N E Q V T Y S Q L L E K C R R D P N T G
UniRef90_S7MTQ5 K G F N L T Y L Q L K E R C I I K D E E T G L C L L K K Q V Q T S Q I V D P E T N
UniRef90_G3TU65 S G K T V S L S E A I K K N L I D R E T G L C L L K K Q V Q T S Q I V D P E T N
UniRef90_H9FI98 T G Y K I S L F Q A M K K E L I A P E Q A L R L L E A Q I A T G G I I M D P Q Y S
UniRef90_H3ADG4 T G Y K I S L F Q A M K K E L I A P E Q A L R L L E A Q I A T G G I I M D P Q Y S
UniRef90_UPI0003C17F4A K G F N L T Y L Q L K E R C M T D P Q T S L C L L E R K T S S K S I V D P E T G
UniRef90_UPI0003C17F4A K G F N L T Y L Q L K E R C M T D P Q T S L C L L E R K T S S K S I V D P E T G

UniRef90_UPI00026880EE E E R L S V E E A L R A G V I G L D V Y A K L L S A E R A A V T G Y T D D P Y S G E Q
UniRef90_UPI00026880EE E E R L S V E E A L R A G V I G L D V Y A K L L S A E R A A V T G Y T D D P Y S G E Q
UniRef90_UPI000443617E E E K L T T L Y Q A M K R N L L L R P P G G T A I V L L L E E A Q A A T G G F M I I P P P I K N N Q R R
UniRef90_UPI000443617E E E K L T T L Y Q A M K R N L L L R P P G G T A I V L L L E E A Q A A T G G F M I I P P P I K N N Q R R
UniRef90_UPI0003C29057 E E K M S I Y Q A L K R S L L L L P P G G T G L M L L L E E A Q A A A T G N L T T D D P P P I V V T N N Q K K
UniRef90_UPI0003C29057 E E K M S I Y Q A L K R S L L L L P P G G T G L M L L L E E A Q A A A T G N L T T D D P P P I V V T N N Q K K
UniRef90_UPI0003C29057 E E K M S I Y Q A L K R S L L L L P P G G T G L M L L L E E A Q A A A T G N L T T D D P P P I V V T N N Q K K
UniRef90_UPI000332299 Q R R L S L Y Q A M K K K L L L A P P G G V A M A L L L E E A Q A A A T G A I R R D L L C C S S M E T T
UniRef90_UPI000332299 Q R R L S L Y Q A M K K K L L L A P P G G V A M A L L L E E A Q A A A T G A I R R D L L C C S S M E T T
UniRef90_F7H3U5 R Q R Y D I L D D D A I T K N L L I D D T E F A D M L S D D P T E E T G G G I L D D T E T E L E K R R
UniRef90_F7H3U5 R Q R Y D I L D D D A I T K N L L I D D T E F A D M L S D D P T E E T G G G I L D D T E T E L E K R R
UniRef90_UPI0003315DFF Q K K S F S Q A V A E R L L L P A G A A L W L L L E E A Q A A A T C C T L V D D P P A S S G G Q R R
UniRef90_UPI0003315DFF Q K K S F S Q A V A E R L L L P A G A A L W L L L E E A Q A A A T C C T L V D D P P A S S G G Q R R
UniRef90_UPI0002742BC4 E V V S F Y E A S R R R G F F I P I A F A A Q L L E E A Q A A A T G S L M D D P P C C T Q Q Q R R
UniRef90_UPI0002742BC4 E V V S F Y E A S R R R G F F I P I A F A A Q L L E E A Q A A A T G S L M D D P P C C T Q Q Q R R
UniRef90_UPI0002742BC4 E V V S F Y E A S R R R G F F I P I A F A A Q L L E E A Q A A A T G S L M D D P P C C T Q Q Q R R
UniRef90_G3W4U5 E E K L T T I Y Q A M R R N L L L R P S T A V I L L L E E A Q A A A T G F V I D D P P I K N N Q R R
UniRef90_G3W4U5 E E K L T T I Y Q A M R R N L L L R P S T A V I L L L E E A Q A A A T G F V I D D P P I K N N Q R R
UniRef90_F7H3U7 E E R L S V Y Q A M K K G I I R G P P G T A F E L L L E E A Q A A A T G Y V I D D P P I K G L K
UniRef90_F7H3U7 E E R L S V Y Q A M K K G I I R G P P G T A F E L L L E E A Q A A A T G Y V I D D P P I K G L K
UniRef90_UPI0004421B5E E R L A V D E A V R K G L V G P E L H D R L L S A E R A V T G Y R D D P P Y T E Q T
UniRef90_UPI0004421B5E E R L A V D E A V R K G L V G P E L H D R L L S A E R A V T G Y R D D P P Y T E Q T
UniRef90_UPI000388D4CB K K V P V R D A L A A G L T T G G D Y Y G K L L S A E R A V T G Y T D D P Y T E G N K
UniRef90_UPI000388D4CB K K V P V R D A L A A G L T T G G D Y Y G K L L S A E R A V T G Y T D D P Y T E G N K
UniRef90_UPI000388D4CB K K V P V R D A L A A G L T T G G D Y Y G K L L S A E R A V T G Y T D D P Y T E G N K
UniRef90_UPI00038EFED4 H K K S F F Q A T T E H L L L P M G T A L P L L E E A Q A A A T R T L V D D P A T G G Q Q
UniRef90_UPI00038EFED4 H K K S F F Q A T T E H L L L P M G T A L P L L E E A Q A A A T R T L V D D P A T G G Q Q
UniRef90_UPI00038EFED4 H K K S F F Q A T T E H L L L P M G T A L P L L E E A Q A A A T R T L V D D P A T G G Q Q
UniRef90_UPI0003C4534A E E R M S I C C Q A M E R G I I D D P E I R E K L L S A E R A V T G Y R D D P P S T S G N K K
UniRef90_UPI0003C4534A E E R M S I C C Q A M E R G I I D D P E I R E K L L S A E R A V T G Y R D D P P S T S G N K K
UniRef90_UPI0003C4534A E E R M S I C C Q A M E R G I I D D P E I R E K L L S A E R A V T G Y R D D P P S T S G N K K
UniRef90_UPI0003C9180D E E A L S V D E A V C R G V V G P E L H G R L R R V E C C A V T G F F R D D P F S S G K Q
UniRef90_UPI0003C9180D E E A L S V D E A V C R G V V G P E L H G R L R R V E C C A V T G F F R D D P F S S G K Q
UniRef90_UPI0003C9180D E E A L S V D E A V C R G V V G P E L H G R L R R V E C C A V T G F F R D D P F S S G K Q
UniRef90_UPI0002B46EC6 H R L P V E A A Y K R G Y F D E E M N Q V L S D P T D D T K G F F D D P N T Q E N
UniRef90_UPI0002B46EC6 H R L P V E A A Y K R G Y F D E E M N Q V L S D P T D D T K G F F D D P N T Q E N
UniRef90_E9PPU0 E E R M S I P E A L R R R G M F G K E T Y V K L L S A E R A V T G Y T D D P Y T G Q Q
UniRef90_E9PPU0 E E R M S I P E A L R R R G M F G K E T Y V K L L S A E R A V T G Y T D D P Y T G Q Q
UniRef90_E9PPU0 E E R M S I P E A L R R R G M F G K E T Y V K L L S A E R A V T G Y T D D P Y T G Q Q
UniRef90_UPI0003F0ACA1 Q R R R Q L L R Q F Q Q H R V T E H I A S V L Q V A S R R W E D L S L P T L R G Q
UniRef90_UPI0003F0ACA1 Q R R R Q L L R Q F Q Q H R V T E H I A S V L Q V A S R R W E D L S L P T L R G Q
UniRef90_UPI0003F0ACA1 Q R R R Q L L R Q F Q Q H R V T E H I A S V L Q V A S R R W E D L S L P T L R G Q
UniRef90_UPI0002739C70 Q R R R S L D E A V R A G L V G P E F R E K L L V A E R A V T G Y P D P F S S R S L
UniRef90_UPI0002739C70 Q R R R S L D E A V R A G L V G P E F R E K L L V A E R A V T G Y P D P F S S R S L
UniRef90_UPI0002739C70 Q R R R S L D E A V R A G L V G P E F R E K L L V A E R A V T G Y P D P F S S R S L
UniRef90_UPI0003F1AEF7 E K M S I S E A L R R H I I D P V R N Q K L L S A E R A V T G Y T D D P Y T G E R
UniRef90_UPI0003F1AEF7 E K M S I S E A L R R H I I D P V R N Q K L L S A E R A V T G Y T D D P Y T G E R
UniRef90_UPI0003F1AEF7 E K M S I S E A L R R H I I D P V R N Q K L L S A E R A V T G Y T D D P Y T G E R
UniRef90_UPI0003FF70E Q K L T F Y D A I L K N L M K P A T A L N L L E E A Q A A G T G Y I I D P V V I Q N K L
UniRef90_UPI0003FF70E Q K L T F Y D A I L K N L M K P A T A L N L L E E A Q A A G T G Y I I D P V V I Q N K L
UniRef90_UPI0003FF70E Q K L T F Y D A I L K N L M K P A T A L N L L E E A Q A A G T G Y I I D P V V I Q N K L
UniRef90_UPI000203D63E E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_UPI000203D63E E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_UPI000203D63E E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_UPI000203D63E E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_UPI000203D63E E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_UPI000203D63E E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_UPI000203D63E E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_H9GTP6 E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_H9GTP6 E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_H9GTP6 E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_H9GTP6 E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_H9GTP6 E K M D I Y Q A M Q K S L L L P P G T G A R L L E E A Q A A T G S I T D D P A D R R R R
UniRef90_G3W1A2 K Q V S A N D L F R S Q L I D K E G V K K F L E G S N F L A G V L I Q G T K E R
UniRef90_UPI0003D0DB73 E E K M S I F Q A M R K R L L L R P P G T A L V L L E E A Q A A T G Y V I D P V K N K Q
UniRef90_UPI0003D0DB73 E E K M S I F Q A M R K R L L L R P P G T A L V L L E E A Q A A T G Y V I D P V K N K Q
UniRef90_UPI0003D0DB73 E E K M S I F Q A M R K R L L L R P P G T A L V L L E E A Q A A T G Y V I D P V K N K Q
UniRef90_UPI0003FD335 Q R R L W V D E A V K A G L V G P E L H K Q L L V A E Q A V T G Y Y D P F S S S R
UniRef90_UPI0003FD335 Q R R L W V D E A V K A G L V G P E L H K Q L L V A E Q A V T G Y Y D P F S S S R
UniRef90_UPI0003FD335 Q R R L W V D E A V K A G L V G P E L H K Q L L V A E Q A V T G Y Y D P F S S S R
UniRef90_UPI000441A8F9 E R I S I D E A L R A N I I G P D V Y S K L L A A E K A V T G Y Q D P Y T G N K
UniRef90_UPI000441A8F9 E R I S I D E A L R A N I I G P D V Y S K L L A A E K A V T G Y Q D P Y T G N K
UniRef90_UPI000441A8F9 E R I S I D E A L R A N I I G P D V Y S K L L A A E K A V T G Y Q D P Y T G N K
UniRef90_UPI0003340297 L Y M L Q I V K K G Y I D E A T R R T L Q S R
UniRef90_UPI0003340297 L Y M L Q I V K K G Y I D E A T R R T L Q S R
UniRef90_UPI0003340297 L Y M L Q I V K K G Y I D E A T R R T L Q S R
UniRef90_UPI0002A48727 E R L S I Y Q A M K R N M I R P P G T A F E L L E A Q A A A T G Y V I D P I K N L K
UniRef90_UPI0002A48727 E R L S I Y Q A M K R N M I R P P G T A F E L L E A Q A A A T G Y V I D P I K N L K
UniRef90_UPI0002A48727 E R L S I Y Q A M K R N M I R P P G T A F E L L E A Q A A A T G Y V I D P I K N L K
UniRef90_UPI0003C49FF9 V F L P K D V A L S R G L I D Q D L Y R V L N N P H N A S K S F I D P A T K K A
UniRef90_UPI0003C49FF9 V F L P K D V A L S R G L I D Q D L Y R V L N N P H N A S K S F I D P A T K K A
UniRef90_UPI00029DA331 K G H S I V E E A L R A A V I D D V F A K L L S A E R A V T G Y A D P Y T G Q Q
UniRef90_UPI00029DA331 K G H S I V E E A L R A A V I D D V F A K L L S A E R A V T G Y A D P Y T G Q Q
UniRef90_UPI0003C26599 E K I S I S E A M Q R A G L V D S I T T G Q R L L E A Q A A C T G G I V C P Y T G Q R
UniRef90_UPI0003C26599 E K I S I S E A M Q R A G L V D S I T T G Q R L L E A Q A A C T G G I V C P Y T G Q R
UniRef90_UPI0003C26599 E K I S I S E A M Q R A G L V D S I T T G Q R L L E A Q A A C T G G I V C P Y T G Q R
UniRef90_V8N9B6 E N L T Y L Q L L E R C T Q D S E T G L Y L L Q R R G E T Y F Y I D E A T K E F
UniRef90_V8N9B6 E N L T Y L Q L L E R C T Q D S E T G L Y L L Q R R G E T Y F Y I D E A T K E F
UniRef90_UPI0004572BF8 E T L N I Y E A M K K N L L R P P G T A E L L L E A Q A A S G F I I D P V K N L R
UniRef90_UPI0004572BF8 E T L N I Y E A M K K N L L R P P G T A E L L L E A Q A A S G F I I D P V K N L R
UniRef90_UPI0004572BF8 E T L N I Y E A M K K N L L R P P G T A E L L L E A Q A A S G F I I D P V K N L R
UniRef90_UPI00046B9433 G R A T A F Q L L E A Q V I D Q E L L D Q L L R G S G A V G G V L L P A S N R R R
UniRef90_UPI00046B9433 G R A T A F Q L L E A Q V I D Q E L L D Q L L R G S G A V G G V L L P A S N R R R
UniRef90_UPI00046B9433 G R A T A F Q L L E A Q V I D Q E L L D Q L L R G S G A V G G V L L P A S N R R R
UniRef90_P15924 V T V T E L V D S G I L R P S T V N E L E S G Q S C I A G L Y N E T T K Q K
UniRef90_UPI0004419B0E V F L P K D V A L A R G L I D R D L Y R S L N N P R D S Q K N F M D P V T N K K
UniRef90_UPI0004419B0E V F L P K D V A L A R G L I D R D L Y R S L N N P R D S Q K N F M D P V T N K K
UniRef90_UPI0004419B0E V F L P K D V A L A R G L I D R D L Y R S L N N P R D S Q K N F M D P V T N K K
UniRef90_H3CB78 K K L S V E E A V A G C V I D E E W K N K L S A E R A V T G Y K G N T
UniRef90_H3CB78 K K L S V E E A V A G C V I D E E W K N K L S A E R A V T G Y K G N T
UniRef90_UPI0003C292D6 H R L P V D M A Y K R G Y F N E E L S Q I L S D P S D D T K G F F D P N T E E N
UniRef90_UPI0003C292D6 H R L P V D M A Y K R G Y F N E E L S Q I L S D P S D D T K G F F D P N T E E N
UniRef90_UPI0003C292D6 H R L P V D M A Y K R G Y F N E E L S Q I L S D P S D D T K G F F D P N T E E N
UniRef90_L5KUY4 K E M S V Q E A Y K K G X X X E E I T I T G S A D G S A T R V V L V D R K T G S Q
UniRef90_S4RYD5 E K M S I Y N A L K K G Y L R P G T S L V L L E A Q A A T G F I V D P I N N L K
UniRef90_S4RYD5 E K M S I Y N A L K K G Y L R P G T S L V L L E A Q A A T G F I V D P I N N L K
UniRef90_UPI0003B4ABBE R I L P V A D A V K E G V V G P E M R E K L L T A E K A I S G Y I D P Y T N Q I
UniRef90_UPI0003B4ABBE R I L P V A D A V K E G V V G P E M R E K L L T A E K A I S G Y I D P Y T N Q I
UniRef90_UPI0003B4ABBE R I L P V A D A V K E G V V G P E M R E K L L T A E K A I S G Y I D P Y T N Q I
UniRef90_UPI000443CA8D E K V S I T E A I H R N L V D N I T G Q R L L E A Q A C T G G I I D P N T G E K
UniRef90_UPI000443CA8D E K V S I T E A I H R N L V D N I T G Q R L L E A Q A C T G G I I D P N T G E K
UniRef90_UPI000443CA8D E K V S I T E A I H R N L V D N I T G Q R L L E A Q A C T G G I I D P N T G E K
UniRef90_M4AUN9 C Y L P L S K A V A E K S Y E Y T E E Q A Q Q D L A N T Q I E I P H Q S G K S
UniRef90_M4AUN9 C Y L P L S K A V A E K S Y E Y T E E Q A Q Q D L A N T Q I E I P H Q S G K S
UniRef90_M4AUN9 C Y L P L S K A V A E K S Y E Y T E E Q A Q Q D L A N T Q I E I P H Q S G K S
UniRef90_S7MTQ5 K E M S V Q E A Y K K G L T D Y E T F K E L C Q E S T R V V L V D R K T G S Q
UniRef90_S7MTQ5 K E M S V Q E A Y K K G L T D Y E T F K E L C Q E S T R V V L V D R K T G S Q
UniRef90_S7MTQ5 K E M S V Q E A Y K K G L T D Y E T F K E L C Q E S T R V V L V D R K T G S Q
UniRef90_G3TU65 V F L P K D V A L A R G L I D K D L Y R S L N D P R D S Q K N F V D P V T K K K
UniRef90_G3TU65 V F L P K D V A L A R G L I D K D L Y R S L N D P R D S Q K N F V D P V T K K K
UniRef90_G3TU65 V F L P K D V A L A R G L I D K D L Y R S L N D P R D S Q K N F V D P V T K K K
UniRef90_H9FI98 F H L P I E V A Y R K G Y F N Q E T Y D K V T A P S D D V K A Y R D P V S D E K
UniRef90_H9FI98 F H L P I E V A Y R K G Y F N Q E T Y D K V T A P S D D V K A Y R D P V S D E K
UniRef90_UPI0003C17F4A K E M S V Y E A Y R K G L I D H Q T Y I E L A E Q E D V K S M I I D R R S G R Q
UniRef90_UPI0003C17F4A K E M S V Y E A Y R K G L I D H Q T Y I E L A E Q E D V K S M I I D R R S G R Q

UniRef90_UPI00026880EE I I S L F Q A M Q R E L I V R D H G I R L L L E A Q
UniRef90_UPI00026880EE I I S L F Q A M Q R E L I V R D H G I R L L L E A Q
UniRef90_UPI000443617E L Y V N E A V K A G I V G G P E L H E K L L L S A
UniRef90_UPI000443617E L Y V N E A V K A G I V G G P E L H E K L L L S A
UniRef90_UPI0003C29057 L G V E D A V K A G I V E E E L T T E K L L L L
UniRef90_UPI0003C29057 L G V E D A V K A G I V E E E L T T E K L L L L
UniRef90_UPI0003C29057 L G V E D A V K A G I V E E E L T T E K L L L L
UniRef90_UPI000332299 L S V D E A V R R G V V G G P E
UniRef90_UPI0003332299 L S V D E A V R R G V V G G P E
UniRef90_F7H3U5 V S I T E A M H R S L V D N I T G Q R L L L E A Q
UniRef90_F7H3U5 V S I T E A M H R S L V D N I T G Q R L L L E A Q
UniRef90_UPI0003315DFF L S V A E A V R A G L V G G P E L H H M Q L L L
UniRef90_UPI0003315DFF L S V A E A V R A G L V G G P E L H H M Q L L L
UniRef90_UPI0002742BC4 L S V D E A V A A G L V G G E E L L Q E R L L L A A
UniRef90_UPI0002742BC4 L S V D E A V A A G L V G G E E L L Q E R L L L A A
UniRef90_UPI0002742BC4 L S V D E A V A A G L V G G E E L L Q E R L L L A A
UniRef90_G3W4U5 L Y V N E A V K A G V V G G P E L H E K L L L S A
UniRef90_G3W4U5 L Y V N E A V K A G V V G G P E L H E K L L L S A
UniRef90_F7H3U7 L T V E E A V R M G I V G G P E F K D K L L L S A
UniRef90_F7H3U7 L T V E E A V R M G I V G G P E F K D K L L L S A
UniRef90_UPI0004421B5E T S L F Q A M K K G L I P T E E A L R L L D A Q
UniRef90_UPI0004421B5E T S L F Q A M K K G L I P T E E A L R L L D A Q
UniRef90_UPI000388D4CB I S L F Q A M E R D L I V K D H G I R L L L E A Q
UniRef90_UPI000388D4CB I S L F Q A M E R D L I V K D H G I R L L L E A Q
UniRef90_UPI00038EFED4 L W V D E A V R V G L V G G P E
UniRef90_UPI00038EFED4 L W V D E A V R V G L V G G P E
UniRef90_UPI0003C4534A I S L F Q A M K K D V V E K E Q A I H L L L E A Q
UniRef90_UPI0003C4534A I S L F Q A M K K D V V E K E Q A I H L L L E A Q
UniRef90_UPI0003C4534A I S L F Q A M K K D V V E K E Q A I H L L L E A Q
UniRef90_UPI0003C9180D V S L F Q A M K K G L V P V E Q A T R L L L E A Q
UniRef90_UPI0003C9180D V S L F Q A M K K G L V P V E Q A T R L L L E A Q
UniRef90_UPI0002B46EC6 L T Y L I Q L M E R S
UniRef90_E9PPU0 I S L F Q A M Q K D L I V R E H G I R L L L E A Q
UniRef90_E9PPU0 I S L F Q A M Q K D L I V R E H G I R L L L E A Q
UniRef90_E9PPU0 I S L F Q A M Q K D L I V R E H G I R L L L E A Q
UniRef90_UPI0003F0ACA1 I P A H E L L E A G V I D E
UniRef90_UPI0003F0ACA1 I P A H E L L E A G V I D E
UniRef90_UPI0002739C70 I P L F Q A M R K G L V S K E L A L R L L L E A Q
UniRef90_UPI0002739C70 I P L F Q A M R K G L V S K E L A L R L L L E A Q
UniRef90_UPI0003F1AEF7 I S L F Q A M K K D L I V R E H G I R L L L E A Q
UniRef90_UPI0003F1AEF7 I S L F Q A M K K D L I V R E H G I R L L L E A Q
UniRef90_UPI00034FF70E M P V D E A V K A G I V G G P E Y H E K L L L S A
UniRef90_UPI00034FF70E M P V D E A V K A G I V G G P E Y H E K L L L S A
UniRef90_UPI000203D63E L G V M E A I R A G L V G G K E L M E R L L Q A
UniRef90_UPI000203D63E L G V M E A I R A G L V G G K E L M E R L L Q A
UniRef90_UPI000203D63E L G V M E A I R A G L V G G K E L M E R L L Q A
UniRef90_UPI000203D63E L G V M E A I R A G L V G G K E L M E R L L Q A
UniRef90_UPI000203D63E L G V M E A I R A G L V G G K E L M E R L L Q A
UniRef90_H9GTP6 L G V M E A I R A G L V G G K E L M E R L L Q A
UniRef90_H9GTP6 L G V M E A I R A G L V G G K E L M E R L L Q A
UniRef90_H9GTP6 L G V M E A I R A G L V G G K E L M E R L L Q A
UniRef90_H9GTP6 L G V M E A I R A G L V G G K E L M E R L L Q A
UniRef90_G3W1A2 L S I Y D A M R R H I L V R P G T A L V L L E A Q A A T
UniRef90_UPI0003D0DB73 L S V E E A L A A G L I
UniRef90_UPI0003D0DB73 L S V E E A L A A G L I
UniRef90_UPI0003D0DB73 L S V E E A L A A G L I
UniRef90_UPI00034FD335 I P L F Q A M K K E L V D Q A L A L R L L L D A Q
UniRef90_UPI00034FD335 I P L F Q A M K K E L V D Q A L A L R L L L D A Q
UniRef90_UPI000441A8F9 I S L F Q A M K K D L I V K E H A I R L L L E A Q
UniRef90_UPI000441A8F9 I S L F Q A M K K D L I V K E H A I R L L L E A Q
UniRef90_UPI000441A8F9 I S L F Q A M K K D L I V K E H A I R L L L E A Q
UniRef90_UPI0003340297 L
UniRef90_UPI0003340297 L
UniRef90_UPI0002A48727 L T V N E A V K M G I V G P E F K D K L L L S A
UniRef90_UPI0002A48727 L T V N E A V K M G I V G P E F K D K L L L S A
UniRef90_UPI0003C49FF9 I S Y M Q L R E K C R I E P H T G L L L L P V H K R G
UniRef90_UPI00029DA331 I S L F Q A M Q K G L I V R E H G I R L L L E A Q
UniRef90_UPI0003C26599 L S L Q E A V T Q R I I D Q D M A T R L K P A Q K A
UniRef90_V8N9B6 L
UniRef90_V8N9B6 L
UniRef90_UPI0004572BF8 L S V D E A V K M G V V V G P E L H E K L L L
UniRef90_UPI0004572BF8 L S V D E A V K M G V V V G P E L H E K L L L
UniRef90_UPI00046B9433 L S L Y Q A M K Q Q L L R P
UniRef90_UPI00046B9433 L S L Y Q A M K Q Q L L R P
UniRef90_P15924 L G I Y E A M K I G L V R P G T A L E L L L E A Q A A T
UniRef90_UPI0004419B0E V S Y T Q L R E R C R I E P H T G L L L L S V Q K R S
UniRef90_H3CB78 I S L F Q A L K K D L I V K D H G I R L L L E A Q
UniRef90_UPI0003C292D6 L T Y L I Q L T K R C M L D K E T G L L L L P L K E K
UniRef90_L5KUY4 Y D I Q D A I D K G L V D
UniRef90_S4RYD5 L S V D E A V E Q K V V G W E Y K D K L L L S A
UniRef90_S4RYD5 L S V D E A V E Q K V V G W E Y K D K L L L S A
UniRef90_UPI0003B4ABBE I S V Y Q A M K D L V P R E Y G L R L L L E A Q I A S K
UniRef90_UPI0003B4ABBE I S V Y Q A M K D L V P R E Y G L R L L L E A Q I A S K
UniRef90_UPI000443CA8D F S V A D A M N K G L V D K
UniRef90_UPI000443CA8D F S V A D A M N K G L V D K
UniRef90_M4AUN9 L T I W E A M N S N M L P E E E R R R L L L E
UniRef90_M4AUN9 L T I W E A M N S N M L P E E E R R R L L L E
UniRef90_S7MTQ5 Y D I Q D A I D K G L V D
UniRef90_G3TU65 V S Y M Y L R E R C R I E P H T G L L L L T V Q K R S
UniRef90_H9FI98
UniRef90_H3ADG4 L S Y A Q L L K T C K T D E N T G L R L L N A S A K
UniRef90_UPI0003C17F4A Y D I D D A I T K G L I D Q S S
UniRef90_UPI0003C17F4A Y D I D D A I T K G L I D Q S S

1 10 20 30 40
UniRef90_UPI0003BCC919 P I E G L A D K P M N L W D I M N S N L L P E Q E R Q K L L D E Y
UniRef90_UPI0003BCC919 P I E G L A D K P M N L W D I M N S N L L P E Q E R Q K L L D E Y
UniRef90_UPI000441CC2B K G F F D P N T E E N L T Y L Q L K E R C K I D E G T G L C L L E R K K K
UniRef90_UPI000441CC2B K G F F D P N T E E N L T Y L Q L K E R C K I D E G T G L C L L E R K K K
UniRef90_I3K8B2 T G C I A G I M S D S P K L S I Y Q A M K N G Q I K P E V A L N L L E A Q A
UniRef90_W5UIA5
UniRef90_W5UIA5
UniRef90_L9KKX9
UniRef90_A2VCV5
UniRef90_UPI0003C12C05 T R A V I A G V Y V Q S S K R K L S I Y E A M R K R I L R P G T T M L L L E A Q A
UniRef90_I3ISA6 R A I V G Y T D P Y T N Q K I S L F Q A M Q K D V I P K E Y G I R L L L E A Q I
UniRef90_I3ISA6 R A I V G Y T D P Y T N Q K I S L F Q A M Q K D V I P K E Y G I R L L L E A Q I
UniRef90_I3ISA6 R A I V G Y T D P Y T N Q K I S L F Q A M Q K D V I P K E Y G I R L L L E A Q I
UniRef90_I3ISA6 R A I V G Y T D P Y T N Q K I S L F Q A M Q K D V I P K E Y G I R L L L E A Q I
UniRef90_I3ISA6 R A I V G Y T D P Y T N Q K I S L F Q A M Q K D V I P K E Y G I R L L L E A Q I
UniRef90_UPI000440B982 T D E I K S F Y D P N T Q E Y V T Y L Q L Q K R C C I T D K K T G L Q L L L E A Q A
UniRef90_UPI000440B982 T D E I K S F Y D P N T Q E Y V T Y L Q L Q K R C C I T D K K T G L Q L L L E A Q A
UniRef90_UPI000440B982 T D E I K S F Y D P N T Q E Y V T Y L Q L Q K R C C I T D K K T G L Q L L L E A Q A
UniRef90_W5LS08 T G S I A G V Q I S P S Q N V L S I Y E A K T K G L L S P E M A L T L L L E A Q A
UniRef90_UPI0003EA8A79 A V T G Y T D P Y T G D T I S L F Q A L K K D L I V K D H G I R L L L E A Q I
UniRef90_UPI0003EA8A79 A V T G Y T D P Y T G D T I S L F Q A L K K D L I V K D H G I R L L L E A Q I
UniRef90_I3K8B3 R A V T G Y K D P Y T G K V I S L F Q A M K K D L I P E D Y A L R L L L E A Q N
UniRef90_I3K8B3 R A V T G Y K D P Y T G K V I S L F Q A M K K D L I P E D Y A L R L L L E A Q N
UniRef90_UPI000441AB95 I V D P E T N K E M S V Q E A Y K K C L I D Y D T F V E L S E Q E T
UniRef90_UPI0002739804 I V D P E T N K E M S V Q E A Y K K C L I D Y D T F V E L S E Q E T
UniRef90_H2LVA0 S G D V K G F T D P N T L Q R A T Y K Q L L E K C C R R D P N T G L C Y L P L S K
UniRef90_H2LVA0 S G D V K G F T D P N T L Q R A T Y K Q L L E K C C R R D P N T G L C Y L P L S K
UniRef90_H2LVA0 S G D V K G F T D P N T L Q R A T Y K Q L L E K C C R R D P N T G L C Y L P L S K
UniRef90_H2S8V9
UniRef90_H2S8V9
UniRef90_UPI00044449C9 F F D P N T K E N V T Y S Q L F D R C V T D K K T G L K L L E A Q A
UniRef90_UPI00044449C9 F F D P N T K E N V T Y S Q L F D R C V T D K K T G L K L L E A Q A
UniRef90_W5LNH1
UniRef90_W5LNH1
UniRef90_H3A7P6 N T P V A A I L D T E T L E K I T I S E A M R R G I V D T I T G Q R L L L E A Q A
UniRef90_UPI000398F71D
UniRef90_UPI000398F71D
UniRef90_UPI000398F71D
UniRef90_UPI0003C1292F R A V T G Y K D P E T G K I S L F Q A M N K E L I E K G H G I R L L L E A Q I
UniRef90_E7F8G7
UniRef90_E7F8G7
UniRef90_E7F8G7
UniRef90_UPI00038BC3A1 T S C I A G V L V P A R G E K M S I Y E A M W K G V L R P G T A L V L L L E A Q A
UniRef90_UPI00038BC3A1 T S C I A G V L V P A R G E K M S I Y E A M W K G V L R P G T A L V L L L E A Q A
UniRef90_B5R177 T S C I A G V Y V E S S K E D R L S I Y E A M K K N M I R P G T A F V L L L E A Q A
UniRef90_G3NPD3 R A V T G Y K D P Y S G K I I S L F Q A M K K D L V L E D Y A L K M L L E A Q N
UniRef90_G3NPD3 R A V T G Y K D P Y S G K I I S L F Q A M K K D L V L E D Y A L K M L L E A Q N
UniRef90_S4R905 R S I A G L Y V E A T K E M P I D A A I K K N L T L G T G M V L L L E A Q A
UniRef90_UPI0003BDB6D7 A I T G Y V D P Y T N Q M I S V F Q A M Q K D L V P K D Y G L R L L L E A Q I
UniRef90_UPI0003BDB6D7 A I T G Y V D P Y T N Q M I S V F Q A M Q K D L V P K D Y G L R L L L E A Q I
UniRef90_W5MQ83
UniRef90_W5MQ83
UniRef90_UPI0002A4A237 A V T G Y R D P S T G Q L V S L F Q A I E K E L I E K G H G I R L L L E A Q I
UniRef90_W5URJ4
UniRef90_UPI000457339E
UniRef90_G3NDG3 F I D P S T Q E Q L T Y Q Q L M E K C T K D P E T G L L I L K A A A Q
UniRef90_G3NDG3 F I D P S T Q E Q L T Y Q Q L M E K C T K D P E T G L L I L K A A A Q
UniRef90_H2S816 T N C I A G V L I D S S Q E T M S F Y Q A M K K D L M R P G P A L N M L L E A Q A
UniRef90_W5K1Z2 I V D P D T G K E M S V R E A Y H R E L I D Y D T F L D L S E Q E T
UniRef90_W5K1Z2 I V D P D T G K E M S V R E A Y H R E L I D Y D T F L D L S E Q E T
UniRef90_UPI0003B432C4 I V D P E T S K E M S V Y E A Y R K G L I D H Q T Y L D L S E Q E S
UniRef90_UPI0003B432C4 I V D P E T S K E M S V Y E A Y R K G L I D H Q T Y L D L S E Q E S
UniRef90_UPI0003946034 I V D P E T S K E M S V Y E A Y R K G L I D H Q T Y L D L S E Q E S
UniRef90_UPI000440F6EF T G V I A G V A Q G S Q T R L P I T E A R S K N L L S P E S A I M L L L E A Q A
UniRef90_V9K7U2 S P I A A I F D I E T L E K I T Y S E A V R N L V D S I T G Q R L L L E A Q A
UniRef90_W5LCF5 R A V T G Y K D P E T G N I I S L F Q A M K K E L I E K G H G I R L L L E A Q I
UniRef90_F6R4V1 I V D P D T G K E M T V R E A Y H R E L I D Y D T F L D L S E I E T
UniRef90_UPI0002026AB2 A I T G F K D P F S G K T M S V A E A M K K N L V D R E T G M R L L E A Q L
UniRef90_V8NTQ8 I V D P D T G L E M S V R E A Y H R E L I D Y D T F L D L S E Q E T
UniRef90_I3JTG4 I V D P D T G L E M S V R E A Y H R E L I D Y D T F L D L S E Q E T
UniRef90_I3JTG4 I V D P D T G L E M S V R E A Y H R E L I D Y D T F L D L S E Q E T
UniRef90_UPI0003EBF3E2 I L E P E T G K D M S P Y E A Y K R G I I D R C Q Y L Q L Q E L E V
UniRef90_UPI000444833D I L E P E T G K D M S P Y E A Y K R G I I D R C Q Y L Q L Q E L E V
UniRef90_S7NMW9 I L L E P E T G K D L S P Y E A Y K R G I I D R G Q Y L Q L Q E L E V
UniRef90_H2ZEQ9 F I D P Y T A Q R M S V Q E A K Q K G L I D K Q F E D I L L R A E R
UniRef90_UPI00027442A4
UniRef90_UPI0002A48D6E G Y K D P R S A Q P L S V F E A V K K G L L D K K T G I R L L L Q A Q E
UniRef90_UPI0002A48D6E G Y K D P R S A Q P L S V F E A V K K G L L D K K T G I R L L L Q A Q E
UniRef90_UPI0002A48D6E G Y K D P R S A Q P L S V F E A V K K G L L D K K T G I R L L L Q A Q E
UniRef90_UPI0002A48D6E G Y K D P R S A Q P L S V F E A V K K G L L D K K T G I R L L L Q A Q E
UniRef90_W5PER5 I L L E P E T G K D M S P Y E A Y K R G I I D R C Q Y L Q L Q E L E V
UniRef90_M4AQX6 T G I I S G M K T C S Q G K M P F T E A K H K K L L S P E S A I M L L L E A Q A
UniRef90_G1NV46 I L L E P E T G K D L S P Y E A Y K G G I I D R G Q Y L Q L Q E L E V
UniRef90_L9L011 I L L E P E T G K D M S P Y E A Y K R G I I D R D Q Y L Q L Q E L E V
UniRef90_UPI00027401D1 I L L E P E T G K D M S P Y E A Y K R G I I D R D Q Y L Q L Q E L E V
UniRef90_UPI000444096E
UniRef90_UPI0003ACA1DA
UniRef90_H2MBT9
UniRef90_UPI0003B39868 S T C I A G I Y D E V N D R I M P F Y Q A M K E G L V D M R G T T L E L L E A Q A
UniRef90_W5N627 S P I A A I F D T E T L E K I T I T E A V R R G L V D S I T G Q R L L L E A Q A
UniRef90_F1RD95 S T C I A G I Y D E A G E C T L P I Y Q A M K N G L L R P G T T L E L L L E A Q A

UniRef90_UPI0003BCC919 R S G K I T S P L S 50 R R R R I T I I E E L Y N N A R K G L I I D L E T Y N L L K Q G K R D I
UniRef90_UPI0003BCC919 R S G K I T S P L S R R R R I T I I E E L Y N N A R K G L I I D L E T Y N L L K Q G K R D I
UniRef90_UPI000441CC2B V V Q T I V D P D T G K E M S V V Q E E A Y N K K G L I I D Y D T Y M E L L S S D D Q Q E C C E W
UniRef90_UPI000441CC2B V V Q T I V D P D T G K E M S V V Q E E A Y N K K G L I I D Y D T Y M E L L S S D D Q Q E C C E W
UniRef90_I3K8B2 A T G F M L D P V K D E L L T V V D E E A V R K G L V G P E L H D K L L S S A G E R A V
UniRef90_W5UIA5 R R R R V T I I E E E L Y S S R R I I D L E T Y N L L K Q G K K T I I
UniRef90_W5UIA5 R R R R V T I I E E E L Y S S R R I I D L E T Y N L L K Q G K K T I I
UniRef90_L9KKX9 R T S G I L G P E T L R D L T L Q E E V A E M D S V Q R Y L Q E G T S C I
UniRef90_A2VCV5 A T G G V I D P N T H E N Y T Y M Q L V L Q R C I Q D P D T G L S M L E V A E R A V
UniRef90_UPI0003C12C05 A T G F L I D P I N N K N Y T V T E A V N V N I L V G M E F K T K L L S A E R A V
UniRef90_I3ISA6 S A K G I Y D P I E E K C C Y L T E E E A Y R R R G H Y D D P E T G L L L F P P I Y I T F F
UniRef90_I3ISA6 S A K G I Y D P I E E K C C Y L T E E E Q A Y R R R G H Y D D P E T G L L L F P P I Y I T F F
UniRef90_I3ISA6 S A K G I Y D P I E E K C C Y L T E E E Q A Y R R R G H Y D D P E T G L L L F P P I Y I T F F
UniRef90_I3ISA6 S A K G I Y D P I E E K C C Y L T E E E Q A Y R R R G H Y D D P E T G L L L F P P I Y I T F F
UniRef90_I3ISA6 S A K G I Y D P I E E K C C Y L T E E E Q A Y R R R G H Y D D P E T G L L L F P P I Y I T F F
UniRef90_UPI000440B982 M T Q A T V E P F K G R K V T I W E I I N S D Y L T E E Q R E S K K Q D Q S S F F
UniRef90_UPI000440B982 M T Q A T V E P F K G R K V T I W E I I N S D Y L T E E Q R E S K K Q D Q S S F F
UniRef90_UPI000440B982 M T Q A T V E P F K G R K V T I W E I I N S D Y L T E E Q R E S K K Q D Q S S F F
UniRef90_W5LS08 A T G F V I D P L K N R Y L S V E D A T K E S Q V I G P D L L E H L L L A E Q A V
UniRef90_UPI0003EA8A79 A T G G I I D P N T K E N L T Y L Q L V E R S V K D S E T G L C L L R L N K
UniRef90_UPI0003EA8A79 A T G G I I D P N T K E N L T Y L Q L V E R S V K D S E T G L C L L R L N K
UniRef90_I3K8B3 A T G G L M D P E Y Y F H L P I D V A M Q R G Y I N K E T L E R I L T E Y T D P T
UniRef90_I3K8B3 A T G G L M D P E Y Y F H L P I D V A M Q R G Y I N K E T L E R I L T E Y T D P T
UniRef90_UPI000441AB95 T T T G L V D R K T G F H Q D I Q Q D A I D K G L V D R K F F E Q Y R S G S L S L
UniRef90_UPI0002739804 I T G S I V D R K T G S Q Q Y D I Q Q D A I D K G L V D R K F F E Q Y R S G S L S L
UniRef90_H2LVA0 A E A P A H E E K S Y Q F T E E E H A Q K D L A N T Q I E I P L Q R R F F F
UniRef90_H2LVA0 A E A P A H E E K S Y Q F T E E E H A Q K D L A N T Q I E I P L Q R R F F F
UniRef90_H2LVA0 A E A P A H E E K S Y Q F T E E E H A Q K D L A N T Q I E I P L Q R R F F F
UniRef90_H2S8V9 L D S K I I D A A T F D K L Q K G E K
UniRef90_H2S8V9 L D S K I I D A A T F D K L Q K G E K
UniRef90_UPI00044449C9 M T Q A T V E P F K G R K M T L W E I I H S D Y L T E E Q R L E L K K E Q S S F F
UniRef90_UPI00044449C9 M T Q A T V E P F K G R K M T L W E I I H S D Y L T E E Q R L E L K K E Q S S F F
UniRef90_W5LNH1 G F R G P V T A T S L F E S K I I D K A M Y D Q L Q Q G K K K P
UniRef90_W5LNH1 G F R G P V T A T S L F E S K I I D K A M Y D Q L Q Q G K K K P
UniRef90_H3A7P6 C T G G I I N P G T G R K R V S A S D L F Q S Q L I D K K T L D E L N Q G K K T V
UniRef90_UPI000398F71D R K R V S A S D L F Q S Q L I D K K T L D E L N Q G K K T V
UniRef90_UPI000398F71D R K R V S A S D L F Q S Q L I D K K T L D E L N Q G K K T V
UniRef90_UPI000398F71D R K R V S A S D L F Q S Q L I D K K T L D E L N Q G K K T V
UniRef90_UPI0003C1292F A T G G I I D P K A S H R L P V D I A Y R R G Y F N E E L N E L S D P S D D T
UniRef90_E7F8G7 S E L L E A K V I N K D L F N K L H N G K A A
UniRef90_E7F8G7 S E L L E A K V I N K D L F N K L H N G K A A
UniRef90_E7F8G7 S E L L E A K V I N K D L F N K L H N G K A A
UniRef90_UPI00038BC3A1 A T G F V I D P V H D R R L S V E E A V A T G V V G G E I R E K L L S A E R A V
UniRef90_UPI00038BC3A1 A T G F V I D P V H D R R L S V E E A V A T G V V G G E I R E K L L S A E R A V
UniRef90_B5R177 A T G Y I I D P I K N L K L N V G E A V A M G V V G S E F K D K L L S A E R A V
UniRef90_G3NPD3 A T G G I I D P E F Q F H L P T D I A M Q R G Y I N K E T N E K L T E T V K G F F
UniRef90_G3NPD3 A T G G I I D P E F Q F H L P T D I A M Q R G Y I N K E T N E K L T E T V K G F F
UniRef90_S4R905 A T G S M I D P L N N T K L S V D D E A V Q K G L V S P E Y Q E K L R L A E R A V
UniRef90_UPI0003BDB6D7 A T K G L F D P V D K T N I S V D S A I Q K G I V E P D T G L L L L P V C I T F
UniRef90_UPI0003BDB6D7 A T K G L F D P V D K T N I S V D S A I Q K G I V E P D T G L L L L P V C I T F
UniRef90_W5MQ83 I S V V D L V E S K I I T K N I Y D E L I K G N L T
UniRef90_W5MQ83 I S V V D L V E S K I I T K N I Y D E L I K G N L T
UniRef90_UPI0002A4A237 A S G G I I D P K E S H R L V D V A Y R R G Y F D R E M N E L T Y E G D D T
UniRef90_W5URJ4 I D Q K V L Q Q L K E G T I S V A E V S Q L E S V K Q Y L A G E K S I
UniRef90_UPI000457339E S E R T Y T D L E T G K T V T I W E V I N S E Y F T E Q Q R M E L I R K E N S F F
UniRef90_G3NDG3 S E R T Y T D L E T G K T V T I W E V I N S E Y F T E Q Q R M E L I R K E N S F F
UniRef90_G3NDG3 S E R T Y T D L E T G K T V T I W E V I N S E Y F T E Q Q R M E L I R K E N S F F
UniRef90_H2S816 G T G F L I D P V R N Q K Y T V D E A V K A G V V G P E L H E K L L S A E R A V
UniRef90_W5K1Z2 D T D G I V D R K T G N Q Y D Q Q D S L N K G V I S K A S L D Q Y R S G S L T L L
UniRef90_W5K1Z2 D T D G I V D R K T G N Q Y D Q Q D S L N K G V I S K A S L D Q Y R S G S L T L L
UniRef90_UPI0003B432C4 V K S I I I D R R S G R Q Y D V D D A I S R G Y I D Q N S L D K Y R A G N L S I
UniRef90_UPI0003B432C4 V K S I I I D R R S G R Q Y D V D D A I S R G Y I D Q N S L D K Y R A G N L S I
UniRef90_UPI0003946034 S V I G I L D P T T T G Q K V S V D E L V K S E L L D E T D L Q K L S G K L T S
UniRef90_UPI000440F6EF A T G H I I D P K F N E K M S V D A A C S R G V V D T D D R D A L I T A E A A C
UniRef90_V9K7U2 C T G G I I N P G T N Q K L V T I E E L I R S E I I D A K T A K K Y L E A Q S C I
UniRef90_W5LCF5 S D Q K Q M V K G T R K L V T I E E L I R S E I I D A K T A K K Y L E A Q S C I
UniRef90_F6R4V1 A T G G I I D P K E S H R L P V D V A Y K R G Y F N Q E M N G I L L S P D D D T
UniRef90_UPI0002026AB2 S D G N I V D R K T G I Q Y D L Q E S L Q R G L I N K Q T L R E K Y R A G T M T L
UniRef90_V8NTQ8 A S G G I V D P I F L P K D R D L Y R A L N N P S K
UniRef90_I3JTG4 I T G S I V D R K T G L Q H D I Q D C L E R G V I N Q S T L D K Y R A G T M T L
UniRef90_I3JTG4 I T G S I V D R K T G L Q H D I Q D C L E R G V I N Q S T L D K Y R A G T M T L
UniRef90_UPI0003EBF3E2 D T A L Q C R I T S K E E Y H L Y R N G S L P I S E F A L V A G E T K
UniRef90_UPI000444833D T T S G L L D R K S G K Q Y S I E A A L R C R R I S K E E Y H L Y K E G R L P V
UniRef90_S7NMW9 T T S G L L D R K S G K E Y S I E A A L R C C R R I S K E E Y H L V A G E T K
UniRef90_H2ZEQ9 A V Y G Y K T K L S T E T S L C E A M K R G L V I E N H G I R L L E A Q I A T
UniRef90_UPI00027442A4 S A G G I L D P N L S V F L P K D T A M K R N L L D E D L C C R A L K E C C Y V D P
UniRef90_UPI0002A48D6E S A G G I L D P N L S V F L P K D T A M K R N L L D E D L C C R A L K E C C Y V D P
UniRef90_UPI0002A48D6E S A G G I L D P N L S V F L P K D T A M K R N L L D E D L C C R A L K E C C Y V D P
UniRef90_UPI0002A48D6E S A G G I L D P N L S V F L P K D T A M K R N L L D E D L C C R A L K E C C Y V D P
UniRef90_UPI0002A48D6E S A G G I L D P N L S V F L P K D T A M K R N L L D E D L C C R A L K E C C Y V D P
UniRef90_W5PER5 T T S G L L D R K S G K Q Y S I E A A L R S R R I S K E E Y H A L V A G E T K
UniRef90_M4AQX6 A T G Y V V D P T F N E K M S V D T A C S R G I V D T E D R D V L L K A E A S
UniRef90_G1NV46 S T K C I L E P E T G K D L S P Y E A Y K R G V I D R G Q Y L Q L Q E L E D R K
UniRef90_L9L011 T T S G L L D R K S G K Q Y S I E A A L R C C R R I S K E E Y H L Y K D G R L P I
UniRef90_UPI00027401D1 T T S G L L D R K S G K Q Y S I E A A L R C C R R I S K E E Y H L Y R D G H L P I
UniRef90_UPI000444096E I D P S K H R K Y T A H Q L C C C I S K A T L E M L L K G K T V
UniRef90_UPI0003ACA1DA T T S G L L D R K S G K Q Y S I E A A L R C C R R I S K E E Y H L Y K D G H L P I
UniRef90_H2MBT9 A S G G I I D P E H S H R I D V N V A Y K R G Y F D E E M N K L L T D E S D D T
UniRef90_UPI0003B39868 A S G G I V D P V N N V I L T V E E A T K R G I I G K E V S K L M S A E R A V
UniRef90_W5N627 C T G G I I N P S N G L R L T L D D A V R Q G I I D Q D M A V R L K P A Y K A F
UniRef90_F1RD95 A S G F V I D P I N N E Y T V E E A C Q K G L V G V E F K D K L S A E K A V

UniRef90_UPI0003BCC919 R N I K L S I Y Q A M K R G F L K P E I G L T L L L E A Q A A T G F I V D P L K N N
UniRef90_UPI0003BCC919 R N I K L S I Y Q A M K R G F L K P E I G L T L L L E A Q A A T G F I V D P L K N N
UniRef90_UPI000441CC2B E E E I T T T T G S D D G S T R V V V E A Q A A T G F I V D D R K T G
UniRef90_UPI000441CC2B E E E I T T T T G S D D G S T R V V V E A Q A A T G F I V D D R K T G
UniRef90_I3K8B2 T G Y K I S L F Q A M K K D L I P K E D Y A L R L L L E A Q N A T G G L M D P E Y Y
UniRef90_W5UIA5 N S T K L S I Y Q A M K R G I I K P D D I A I D L L L E A Q A A T G F I T D D P V K Y
UniRef90_W5UIA5 N S T K L S I Y Q A M K R G I I K P D D I A I D L L L E A Q A A T G F I T D D P V K Y
UniRef90_L9KKX9 A G E K M S I Y Q A M W K G V L R P G T A L V R L L L E A Q A A T G F V V D P V G D
UniRef90_A2VCV5 K S P L F Q A M K K D Y I V K E H A I R L L L E A Q K G L N G S V W E L L T S
UniRef90_UPI0003C12C05 T G Y K I S L F Q A M K K D Y I V K E H A I R L L L E A Q K L A T G G I I D P V H S
UniRef90_I3ISA6 K G L R R R G V T S A L A S K I I I D Q E T T V K E Y L L E E G K K S I I G G V V A L L S T N
UniRef90_I3ISA6 K G L R R R G V T S A L A S K I I I D Q E T T V K E Y L L E E G K K S I I G G V V A L L S T N
UniRef90_I3ISA6 K G L R R R G V T S A L A S K I I I D Q E T T V K E Y L L E E G K K S I I G G V V A L L S T N
UniRef90_I3ISA6 K G L R R R G V T S A L A S K I I I D Q E T T V K E Y L L E E G K K S I I G G V V A L L S T N
UniRef90_I3ISA6 K G L R R R G V T S A L A S K I I I D Q E T T V K E Y L L E E G K K S I I G G V V A L L S T N
UniRef90_UPI000440B982 Q G T R V P A K S L F D S K I I I D K N S V N K Y L Q Q G S E S I A G I F L E P T K
UniRef90_UPI000440B982 Q G T R V P A K S L F D S K I I I D K N S V N K Y L Q Q G S E S I A G I F L E P T K
UniRef90_UPI000440B982 Q G T R V P A K S L F D S K I I I D K N S V N K Y L Q Q G S E S I A G I F L E P T K
UniRef90_W5LS08 T G F T D P L F E A M K K E L I P R N H G L R L L E A Q T A T G G I I D P V L S
UniRef90_UPI0003EA8A79
UniRef90_UPI0003EA8A79
UniRef90_I3K8B3 T D E K Q S Y A Q L L K R C R V D K E S G L R L L L R K Q I L L T E G G I I V E S S K
UniRef90_I3K8B3 T D E K Q S Y A Q L L K R C R V D K E S G L R L L L R K Q I L L T E G G I I V E S S K
UniRef90_UPI000441AB95 T Q F A D M I A E V F K H E S V I V R S S S F S D S P E E T T P I A A I F D T E N L
UniRef90_UPI0002739804 T Q F K T S S I S T I R N L T I R S S S S W S D P L E E E T S P I A A I F D T E N L
UniRef90_H2LVA0 A G K N M T V W E I M N S N L L P E D E R L R L L L E E Q Y R L G Q I T K E V I R
UniRef90_H2LVA0 A G K N M T V W E I M N S N L L P E D E R L R L L L E E Q Y R L G Q I T K E V I R
UniRef90_H2LVA0 A G K N M T V W E I M N S N L L P E D E R L R L L L E E Q Y R L G Q I T K E V I R
UniRef90_H2S8V9 T P Q D V S E A D K V R R Y L Q Q G T D R V D G I I M T D S N
UniRef90_H2S8V9 T P Q D V S E A D K V R R Y L Q Q G T D R V D G I I M T D S N
UniRef90_UPI0004449C9 K G L R D H V F D H L Q Q G K T T P K N V S K Y L Q Q G T E S I A G I Y L E P T K
UniRef90_UPI0004449C9 K G L R D H V F D H L Q Q G K T T P K N V S K Y L Q Q G T E S I A G I Y L E P T K
UniRef90_W5LNH1 K D I I G E I E S V K K Y L R G S E S I A G V L D E K S K
UniRef90_W5LNH1 K D I I G E I E S V K K Y L R G S E S I A G V L D E K S K
UniRef90_H3A7P6 V G F R M S A A E A I K D K W L P Y E A G Q R F L E F G Q Q V T G G L I E P E G L
UniRef90_UPI000398F71D K E V T T E M D S V R R Y L E E G S N F I A G V L I Q P S N
UniRef90_UPI000398F71D K E V T T E M D S V R R Y L E E G S N F I A G V L I Q P S N
UniRef90_UPI000398F71D K E V T T E M D S V R R Y L E E G S N F I A G V L I Q P S N
UniRef90_UPI0003C1292F K G F H L T Y L Q L K E R C I S D K D K D G L L L K D K S K K I V D P E T N
UniRef90_E7F8G7 T L K D V S E L E P V K K A L K G T H S I A G V Q I E S T S
UniRef90_E7F8G7 T L K D V S E L E P V K K A L K G T H S I A G V Q I E S T S
UniRef90_E7F8G7 T L K D V S E L E P V K K A L K G T H S I A G V Q I E S T S
UniRef90_UPI00038BC3A1 T G Y T I S L F Q A M Q R D L I V R M S R V L A D P S D D T K G F F D P N T H
UniRef90_UPI00038BC3A1 T G Y T I S L F Q A M Q R D L I V R M S R V L A D P S D D T K G F F D P N T H
UniRef90_B5R177 I G D K R V M F Q G L R K K I T M E E L L R R Y L E E G T S C I A G V F L E S T K
UniRef90_G3NPD3 I G D K R V M F Q G L R K K I T M E E L L R R Y L E E G T S C I A G V F L E S T K
UniRef90_G3NPD3 I G D K R V M F Q G L R K K I T M E E L L R R Y L E E G T S C I A G V F L E S T K
UniRef90_S4R905 T G Y T I S L F E A M E K E I L K Q H G I R L L E A Q T I A T G G I I D P Q N S
UniRef90_UPI0003BDB6D7 K G L R I S S T E L L E S K I I D K E T V K E Y L E E G K G S I A G I A I L S T N
UniRef90_UPI0003BDB6D7 K G L R I S S T E L L E S K I I D K E T V K E Y L E E G K G S I A G I A I L S T N
UniRef90_W5MQ83 K E E V M L M D T V R T Y L K G S S S V A G I V L Q S S N
UniRef90_W5MQ83 K E E V M L M D T V R T Y L K G S S S V A G I V L Q S S N
UniRef90_UPI0002A4A237 K G F N L T Y L Q L S E K D S V R K Y L E G T N S I A G V L Q A T K
UniRef90_W5URJ4 K G F N L T Y L Q L S E K D S V R K Y L E G T N S I A G V L Q A T K
UniRef90_UPI000457339E A G E I L S I Y Q A M N K G L L R P G T A L V L L L E A Q A A T G F I I D P V K N
UniRef90_G3NDG3 T G L R V S A S E L L E S K I I N K D L F N K L L Q G T P S I A G L L N E P T K
UniRef90_G3NDG3 T G L R V S A S E L L E S K I I N K D L F N K L L Q G T P S I A G L L N E P T K
UniRef90_H2S816 T G Y K V S L F Q A M K K D L I P K E H G V R L L D A Q M T S G G I I D P V N S
UniRef90_W5K1Z2 N Q F E L S I C T S V A E D V C S S S T E V E L D D D Q S P V A A I F D T E T L
UniRef90_W5K1Z2 N Q F E L S I C T S V A E D V C S S S T E V E L D D D Q S P V A A I F D T E T L
UniRef90_UPI0003B432C4 T E F A D M L S G G M G G F R S R K P P A M I W N D P S E E T G G I I D I D T L
UniRef90_UPI0003B432C4 T E F A D M L S G G M G G F R S R K P P A M I W N D P S E E T G G I I D I D T L
UniRef90_UPI0003946034 R D I E L P F Y Q A M K E G L R M R K T T L E L L E A Q A A T G G I I V D P V N
UniRef90_UPI000440F6EF T G F K L S I V G Q A C K K G R L D K E T A L R L L Q A Q E A V G G I I D P V L S
UniRef90_V9K7U2 V G F K L S A A E A I K E N W L P Y E A G N R F L E A Q F I T G G L V L P N V S
UniRef90_W5LCF5 S G K T I S L F Q A M K K G L I L K D H G I R L L E A Q I A T G G I I D P N E S
UniRef90_F6R4V1 K G F N L T Y L Q L K E R C I V D E K T N L C L L A V Q T S Q K N I V D P D T N
UniRef90_UPI0002026AB2 T E F T Q P S S P T V R K R F A S V S I T L S L F D D Q S P V G A I F D T E T L
UniRef90_V8NTQ8 P L I D P L V R S K N A I S Y M K L R E R C R I E S H T G L L L P V Q K
UniRef90_I3JTG4 T Q F R S S S L E M V R K R F N S I S I T V S P P E M H S P V G A I F D T E T L
UniRef90_I3JTG4 T Q F R S S S L E M V R K R F N S I S I T V S P P E M H S P V G A I F D T E T L
UniRef90_UPI0003EBF3E2 P C P S L S I G S I S K S F S P G F S F G L G D D S F P I A G V Y D T T T D
UniRef90_UPI000444833D S E F A L L V J A G E T K P C S S L S I G S I S R S P L A S P G P Q N T
UniRef90_S7NMW9 P C P S L S I G S I S K S P L S P G F S F G L G D D S F P I A G V Y D T T T D
UniRef90_H2ZEQ9 G G I R L V R V A Y K R G L F D E R N K I L Q D D S S D D T K C F F D P T T Q
UniRef90_UPI00027442A4 S G K Q Y S I E A A L R C R R I S K E E H L P I S E F A L L V A G E T K P S S
UniRef90_UPI0002A48D6E E T E Q D S T Y E A L K K K T E P H T G L K L L P I I Q L L D C G V L D S G T H
UniRef90_UPI0002A48D6E E T E Q D S T Y E A L K K K T E P H T G L K L L P I I Q L L D C G V L D S G T H
UniRef90_UPI0002A48D6E E T E Q D S T Y E A L K K K T E P H T G L K L L P I I Q L L D C G V L D S G T H
UniRef90_UPI0002A48D6E E T E Q D S T Y E A L K K K T E P H T G L K L L P I I Q L L D C G V L D S G T H
UniRef90_W5PER5 P C P S L S I G A I S K N M L D P I T G K L L E A Q A A T G G I I V D L S T R
UniRef90_M4AQX6 T G F K L S I V G Q A C K K G Q I D K E T A T R L L Q A Q E S V G G L I D P V L S
UniRef90_G1NV46 S G K Q Y S I E T A L Q C R R L S K E E S L P I S E F A L L V A G E T K P S I G
UniRef90_L9L011 S E F A L L V J A G E T K P S S S L S I G S I S K S P L A S A G I F D T A T D
UniRef90_UPI00027401D1 S E F A L L V A P A S Q T S F F S P G F T L G L S D D S F P I A G V Y D T T T D
UniRef90_UPI00044096E T G I K M P F T E A K H K P L S P E S A L M L L E A Q A A T G Y I V D P A F N
UniRef90_UPI0003ACA1DA S E F A L L V A G E T K P C S S L S I G S I S K S P L T S P A P Q
UniRef90_H2MBT9 K G F N L T Y L D L K K R C I V D K K T G L I L L T R R K R R V I I V D P D T L
UniRef90_UPI0003B39868 T G K T I S L F Q A I A K D L I E K G H G L R L L E A Q I A S G G I I D P V E S
UniRef90_W5N627 V G F Q M S A A Q A I E K K W L P Y E A G Q R F L E A Q Y I V T G G L M E P G T T
UniRef90_F1RD95 T G Y K I S L F E A I E R G L I E K H G I R L L E A Q I A S G G I I D P K H S

UniRef90_UPI0003BCC919 E T L T V D E A V R K G V V G P E E I H D K L L S A E R A V T T G Y K D P Y S G K L 160
UniRef90_UPI0003BCC919 E T L T V D E A V R K G V V G P E E I H D K L L S A E R A V T T G Y K D P Y S G K L
UniRef90_UPI000441CC2B H Q Y D I Q D A I D K G L V D D R K F F F D Q Y R S S G S L S L T Q F A D
UniRef90_UPI000441CC2B H Q Y D I Q D A I D K G L V D D R K F F F D Q Y R S S G S L S L T Q F A D
UniRef90_I3K8B2 F H L P I D V A M Q R G Y I N G K E T L E R I T E S P T A D V L R G Y T D P T T D E K
UniRef90_W5UIA5 E L L T V D E A V R K G L V G P E E L H D K L L S A E R A V T T G Y K D P Y S G K L
UniRef90_W5UIA5 E L L T V D E A V R K G L V G P E E L H D K L L S A E R A V T T G Y K D P Y S G K L
UniRef90_L9KKX9 R R L S V E E A V A R G Y F D E E M S R V L A D P G D D T K G F F D P N T H E N
UniRef90_A2VCV5 H H L C E A E K E R Q D L L
UniRef90_UPI0003C12C05 H R L P V Q V A Y E R G Y F D E E M N Q V L A D P R D D T K G F F D P N T H E N
UniRef90_I3ISA6 K K M S I Y Q A M R Q G I I G G P E E Y H A K L L A A E R A V T T G Y K D P Y T G E T
UniRef90_I3ISA6 K K M S I Y Q A M R Q G I I G G P E E Y H A K L L A A E R A V T T G Y K D P Y T G E T
UniRef90_I3ISA6 K K M S I Y Q A M R Q G I I G G P E E Y H A K L L A A E R A V T T G Y K D P Y T G E T
UniRef90_I3ISA6 K K M S I Y Q A M R Q G I I G G P E E Y H A K L L A A E R A V T T G Y K D P Y T G E T
UniRef90_I3ISA6 K K M S I Y Q A M R Q G I I G G P E E Y H A K L L A A E R A V T T G Y K D P Y T G E T
UniRef90_I3ISA6 K K M S I Y Q A M R Q G I I G G P E E Y H A K L L A A E R A V T T G Y K D P Y T G E T
UniRef90_UPI000440B982 E K V S I Y Q A M K K K L L R Q N T G I S L L E A Q V A T G F I V D P V K K Q F
UniRef90_UPI000440B982 E K V S I Y Q A M K K K L L R Q N T G I S L L E A Q V A T G F I V D P V K K Q F
UniRef90_UPI000440B982 E K V S I Y Q A M K K K L L R Q N T G I S L L E A Q V A T G F I V D P V K K Q F
UniRef90_W5LS08 L W L P S S Q A M K R G C L D E E T Y Q L L T K P D E K T K W Y T D P V L S K E N

UniRef90_UPI0003EA8A79 D R L S I Y Q A M K K N M I R P G T A F E L L E A Q A A A T G Y V I D P I K N L K
UniRef90_UPI0003EA8A79 D R L S I Y Q A M K K N M I R P G T A F E L L E A Q A A A T G Y V I D P I K N L K
UniRef90_I3K8B3 D R L S I Y Q A M K K N M I R P G T A F E L L E A Q A A A T G Y V I D P I K N L K
UniRef90_I3K8B3 D R L S I Y Q A M K K N M I R P G T A F E L L E A Q A A A T G Y V I D P I K N L K
UniRef90_UPI000441AB95 E K I S I T E G I E R G I V D S I T G Q R L L E A Q A C T G G I I N P T T G Q K
UniRef90_UPI0002739804 E K I S I T E G I E R G I V D S I T G Q R L L E A Q A C T G G I I N P T T G Q K
UniRef90_H2LVA0 R R I T I E E E L Y S A R I I I D D L L Q T Y N L L K Q E K M T I R E L M D P S V K Q K
UniRef90_H2LVA0 R R I T I E E E L Y S A R I I I D D L L Q T Y N L L K Q E K M T I R E L M D P S V K Q K
UniRef90_H2LVA0 R R I T I E E E L Y S A R I I I D D L L Q T Y N L L K Q E K M T I R E L M D P S V K Q K
UniRef90_H2S8V9 E K I S I Y Q A M K D Q I L L Q Q N T G L A L L Q V Q A G T G S I V D P V K N L K
UniRef90_H2S8V9 E K I S I Y Q A M K D Q I L L Q Q N T G L A L L Q V Q A G T G S I V D P V K N L K
UniRef90_UPI0004449C9 E K M S I Y Q A M K K K L L R H N T G L L L E A Q A A S G F I V D P V K N Q C
UniRef90_UPI0004449C9 E K M S I Y Q A M K K K L L R H N T G L L L E A Q A A S G F I V D P V K N Q C
UniRef90_W5LNH1 E K F S I Y Q A I K Q G L V G P E L H E K L L S A E K A V T G Y K D P Y T G N N
UniRef90_W5LNH1 E K F S I Y Q A I K Q G L V G P E L H E K L L S A E K A V T G Y K D P Y T G N N
UniRef90_H3A7P6 K R L T I E E A L R K G M V D D S R G A A Q K L Q D V N N Y P K I L T C P K T K L K
UniRef90_UPI000398F71D E K M S I Y Q A M W K G I L L R P G T A L V L L E A Q A A T G F I I D P E Q N K K
UniRef90_UPI000398F71D E K M S I Y Q A M W K G I L L R P G T A L V L L E A Q A A T G F I I D P E Q N K K
UniRef90_UPI000398F71D E K M S I Y Q A M W K G I L L R P G T A L V L L E A Q A A T G F I I D P E Q N K K
UniRef90_UPI0003C1292F K E M S V R E A Y H K D L D Y E T F M E L S E Q E C W E E L V D R K T G R Q
UniRef90_E7F8G7 E K M S L Y D A M K K N L L G T E P A L N L L E A Q A G T G F I I D P V K N Q K
UniRef90_E7F8G7 E K M S L Y D A M K K N L L G T E P A L N L L E A Q A G T G F I I D P V K N Q K
UniRef90_E7F8G7 E K M S L Y D A M K K N L L G T E P A L N L L E A Q A G T G F I I D P V K N Q K
UniRef90_UPI00038C3A1 E N L T Y M Q L L Q R A T V D P E T G
UniRef90_UPI00038C3A1 E N L T Y M Q L L Q R A T V D P E T G

UniRef90_B5R177 H R L P V E M A Y T R G L F D E E M N G I L T D P S D D T K G F F D P N T E E N
UniRef90_G3NPD3 D R L S I Y Q A M K K N M I R P G T A F E L L E A Q A S T G Y V I D P I K N L K
UniRef90_G3NPD3 D R L S I Y Q A M K K N M I R P G T A F E L L E A Q A S T G Y V I D P I K N L K
UniRef90_S4R905 H R L P I E V A Y K R G L F D K T L H A A L L D P S D D T K G F F D P N T T K N
UniRef90_UPI0003BDB6D7 Q R M S I Y K A M K Q G L I G P E Y H A K L L S A E R A V T T G Y K D P Y T S E T
UniRef90_UPI0003BDB6D7 Q R M S I Y K A M K Q G L I G P E Y H A K L L S A E R A V T T G Y K D P Y T S E T
UniRef90_W5MQ83 Q K L S I Y Q A K K K G L I G P E L Y E K L L S A E K A V T G Y V D P Y T G K K
UniRef90_W5MQ83 Q K L S I Y Q A K K K G L I G P E L Y E K L L S A E K A V T G Y V D P Y T G K K
UniRef90_UPI0002A4A237 E T L S I R E A K S R G L L T P G D T S L V L L E A Q A A T G F V I D P V K N Q K
UniRef90_W5URJ4 K E M T V R E A Y H K E L I D Y D T F L N L S E Q E C W E E L T D C K T G T
UniRef90_UPI000457339E L K L S V D E A V E A K V I G Q D V C Q K L L S A E R A V T G Y K D P Y T G N T
UniRef90_G3NDG3 E K M S F Y Q A L K K D L L S P E T V S T L L E A Q V A T G F V I D P V K N E K
UniRef90_G3NDG3 E K M S F Y Q A L K K D L L S P E T V S T L L E A Q V A T G F V I D P V K N E K
UniRef90_H2S816 H Y I P H D V A C K R N Y F D D E M K Q I L S N P T D N T K C F F D P N T D E N
UniRef90_W5K1Z2 E K I T I S E A Q R R G L V D S I T S Q R L L E A Q A C T G G I I N P A T G Q R
UniRef90_W5K1Z2 E K I T I S E A Q R R G L V D S I T S Q R L L E A Q A C T G G I I N P A T G Q R
UniRef90_UPI0003B432C4 E K V S I T E A I H R N L V D N I T G Q R L L E A Q A C T G G I I D P A S G E K
UniRef90_UPI0003B432C4 E K V S I T E A I H R N L V D N I T G Q R L L E A Q A C T G G I I D P A S G E K
UniRef90_UPI0003946034 V F L P V E E A L R K G L L S G K T A Q K L Q D F N S Y S K N L T C P K T K L K
UniRef90_UPI000440F6EF I F L P K D V A L D R N L I D E D L Y R A L N K K P T V I G Y R D P A N G E K
UniRef90_V9K7U2 G R I P V E E A L R K G L L S G K T A Q K L Q D F N S Y S K N L T C P K T K L K
UniRef90_W5LCF5 H R L P V E V A Y N R G L F D D E M N E I L S D P S D D T K G F F D P N T E E N
UniRef90_F6R4V1 R E M T V Q E A Y K K G L I D Y N T Y I E L S S D G S T R V L V D R K S G N Q
UniRef90_UPI0002026AB2 E K I T I P E A Q R R G I V D N I T A Q R L L E A Q V C S G G I I N P A T G Q R
UniRef90_V8NTQ8 K L I T V S E L V D S G I I R E S T A N E L E T G S C L A G I Y N E A T G E K
UniRef90_I3JTG4 E K I T V S E A L R R G I V D T L T A Q R L L E A Q A C T G G I I N P A T G E R
UniRef90_I3JTG4 E K I T V S E A L R R G I V D T L T A Q R L L E A Q A C T G G I I N P A T G E R
UniRef90_UPI0003EBF3E2 N K C T I K T A M A K N M L D P I L T G Q K L L E A Q A A T G G I V D L L S R E R
UniRef90_UPI000444833D N K C T I K T A M A K N M L D P I L T G Q K L L E A Q A A T G G I V D L L S R E R
UniRef90_S7NMW9 E N L T Y N E L M K R C V I D K D T G L R L L S P T S R R V V I V D P N S G N E
UniRef90_H2ZEQ9 L S V G S I I S K S P L A S P A P Q S L G D D S F P I A G I Y D T T T D N K
UniRef90_UPI00027442A4 G L M S L S E A K N T N R I S A N C I I D L L L E A Q A A T G Y I I D P K N N K K
UniRef90_UPI0002A48D6E G L M S L S E A K N T N R I S A N C I I D L L L E A Q A A T G Y I I D P K N N K K
UniRef90_UPI0002A48D6E G L M S L S E A K N T N R I S A N C I I D L L L E A Q A A T G Y I I D P K N N K K
UniRef90_UPI0002A48D6E G L M S L S E A K N T N R I S A N C I I D L L L E A Q A A T G Y I I D P K N N K K
UniRef90_UPI0002A48D6E G L M S L S E A K N T N R I S A N C I I D L L L E A Q A A T G Y I I D P K N N K K
UniRef90_W5PER5 E R Y S V H K A M E R G L I E S G S T Q R L L N A Q A F T G L E D P V T K K R
UniRef90_M4AQX6 V Y L P K D L A L D R N L I D D D L Y R A L N K K P A S Y L D P A T E E K
UniRef90_G1NV46 S I L S K S P L T S P G H F S P G F S F G L G D D S F P I A G V I Y D T T T D N K
UniRef90_L9L011 N K C S I K T A V A K N M L D P I T G Q K L L E A Q A A T G G I V D L L S R E R
UniRef90_UPI00027401D1 N K C S I K T A V A K N M L D P I T G Q K L L E A Q A A T G G I V D L L S R E R
UniRef90_UPI000444096E E R M P V D T A C S R G I V D T E D R D V L K A E A S T G F K D P Y T G K V
UniRef90_UPI0003ACA1DA S T S F S P S F S L G L G D D S F P I A G I Y D T T T D N K
UniRef90_H2MBT9 K E M T V L E A F N K G Y I D R E T F I E L S E D S N G S K V I T D R T S G R K
UniRef90_UPI0003B39868 H R I E V S V A Y K R G Y F D E E M N E I L S Y E G D D T K G F F D P N T K E N
UniRef90_W5N627 Q R R S I E E A I R K G W L D G R G A Q K L S Q D A K R Y A K S L T C P K T K L K
UniRef90_F1RD95 H R I D V D V A Y Q R G Y F D Q G M N Q I L K D E G D D T K G F F D P N T E D N

UniRef90_UPI0003BCC919 T A L F Q A M K K D L V P E D Y A L K M L E A Q
UniRef90_UPI0003BCC919 T A L F Q A M K K D L V P E D Y A L K M L E A Q
UniRef90_UPI000441CC2B
UniRef90_UPI000441CC2B
UniRef90_I3K8B2 Q S Y A Q L L K R C R V D K E S G L R L L S L A D R
UniRef90_W5UIA5 I S L Y Q A M K K G L V P E E Y A L K M L E A Q
UniRef90_W5UIA5 I S L Y Q A M K K G L V P E E Y A L K M L E A Q
UniRef90_L9KKX9 L T Y L Q L L R R C V R D P E T G L Y M L Q L A G R G S
UniRef90_A2VCV5
UniRef90_UPI0003C12C05 L T Y L Q L L Q R C M K D P T T G H C L L Q L A E K G S
UniRef90_I3ISA6 I S L F Q A L K K E L I V K E H G I R L L E A Q
UniRef90_I3ISA6 I S L F Q A L K K E L I V K E H G I R L L E A Q
UniRef90_I3ISA6 I S L F Q A L K K E L I V K E H G I R L L E A Q
UniRef90_I3ISA6 I S L F Q A L K K E L I V K E H G I R L L E A Q
UniRef90_I3ISA6 I S L F Q A L K K E L I V K E H G I R L L E A Q
UniRef90_I3ISA6 I S L F Q A L K K E L I V K E H G I R L L E A Q
UniRef90_UPI000440B982 L T V D D A V K A G L V G P E L H E K L L T A
UniRef90_UPI000440B982 L T V D D A V K A G L V G P E L H E K L L T A
UniRef90_UPI000440B982 L T V D D A V K A G L V G P E L H E K L L T A
UniRef90_W5LS08 L S Y H Q L R E K C G K S S T G L L L L T V P E K
UniRef90_UPI0003EA8A79
UniRef90_UPI0003EA8A79

UniRef90_I3K8B3 L N V T E A V K M G V V G P E F K D K L L S A
UniRef90_I3K8B3 L N V T E A V K M G V V G P E F K D K L L S A
UniRef90_UPI000441AB95 L V S L Q D A V A Q G I I D Q D M A T R L K P A Q K A
UniRef90_UPI0002739804 L S L Q D A V S Q G I I D Q D M A T R L K P A Q K A
UniRef90_H2LVA0 I S I Y Q A L K K G Q I K P E V A L Q L L E A Q A A T
UniRef90_H2LVA0 I S I Y Q A L K K G Q I K P E V A L Q L L E A Q A A T
UniRef90_H2LVA0 I S I Y Q A L K K G Q I K P E V A L Q L L E A Q A A T
UniRef90_H2S8V9 Y S V D D A V K N G V V G P E L H E K L L S A
UniRef90_H2S8V9 Y S V D D A V K N G V V G P E L H E K L L S A
UniRef90_UPI0004449C9 L S V D E A V K A G L V G P E L H E K L L S A
UniRef90_UPI0004449C9 L S V D E A V K A G L V G P E L H E K L L S A
UniRef90_W5LNH1 I S L F Q A M Q K E L V L R E H A V P L L E A Q E A T
UniRef90_W5LNH1 I S L F Q A M Q K E L V L R E H A V P L L E A Q E A T
UniRef90_H3A7P6 L S Y K E A M D R S M V E A K S G Q R L L E A
UniRef90_UPI000398F71D Y S V E E A M N Q E L I V K S H G I R L L E A Q
UniRef90_UPI000398F71D Y S V E E A M N Q E L I V K S H G I R L L E A Q
UniRef90_UPI000398F71D Y S V E E A M N Q E L I V K S H G I R L L E A Q
UniRef90_UPI0003C1292F Y D V Q E Y I D K G I I N K N
UniRef90_E7F8G7 L T V D E A V K S G V V G P E L H E K L L S A
UniRef90_E7F8G7 L T V D E A V K S G V V G P E L H E K L L S A
UniRef90_E7F8G7 L T V D E A V K S G V V G P E L H E K L L S A

UniRef90_UPI00038BC3A1 L N V T E A V K M G V V G P E F K D K L L S A
UniRef90_UPI00038BC3A1 L N V T E A V K M G V V G P E F K D K L L S A
UniRef90_B5R177 L T Y L Q L M E R C M I D P E T G L
UniRef90_G3NPD3 L T V N D A V K M G I V G P E F K D K L L S A
UniRef90_G3NPD3 L T V N D A V K M G I V G P E F K D K L L S A
UniRef90_S4R905 L T Y L Q L M K T C I T D P D T G L C L L P L K V H E V K
UniRef90_UPI0003BDB6D7 I S L F Q A L S K D L I V K Q H G I R L L E A Q
UniRef90_UPI0003BDB6D7 I S L F Q A L S K D L I V K Q H G I R L L E A Q
UniRef90_W5MQ83 I S L F Q A M Q K D L I L K Q H G I R L L E A Q
UniRef90_W5MQ83 I S L F Q A M Q K D L I L K Q H G I R L L E A Q
UniRef90_UPI0002A4A237 L S V E E A V A Q G V V G K E W K S K L L S A
UniRef90_W5URJ4 Y D V Q D Y L D K G I I Q K S
UniRef90_UPI000457339E I S L F Q A M K K D L I V K E H G I R L L E A Q
UniRef90_G3NDG3 V S V D E A V K S G L V G P E L H E R L L S A
UniRef90_G3NDG3 V S V D E A V K S G L V G P E L H E R L L S A
UniRef90_H2S816 V T Y S E L F K R C V T D K K T G L P L L P L S D E A K
UniRef90_W5K1Z2 L S L Q D A V H Q S V I D E D M A T K L K P A Q K A
UniRef90_W5K1Z2 L S L Q D A V H Q S V I D E D M A T K L K P A Q K A
UniRef90_UPI0003B432C4 L P V T E A T D K G L V D K
UniRef90_UPI0003B432C4 L P V T E A T D K G L V D K
UniRef90_UPI0003946034 I S L F Q A I E K D L I E K G H G I R L L E A Q I A S
UniRef90_UPI000440F6EF I S Y S E L R K T C T T E P A T G L L L L R A K D K S T
UniRef90_V9K7U2 I S Y K E A M D R S M V E E K T G L R M L E A S S F S S K
UniRef90_W5LCF5 L T Y L Q L M E R C I T D P Q T G L
UniRef90_F6R4V1 Y D V Q E A I E M G M I

UniRef90_UPI0002026AB2 L S L K D A V Q Q S L I R E D M S V K L K P A Q K A
UniRef90_V8NTQ8 L G V Y Q A M K I G L V R P G T A L E L L E A Q A A T
UniRef90_I3JTG4 L S L Q D A V H Q S I I D E S M A S K L K P A Q K A
UniRef90_I3JTG4 L S L Q D A V H Q S I I D E S M A S K L K P A Q K A
UniRef90_UPI0003EBF3E2 Y S V H K A M E R G L I E N T S T Q R L L N A Q K A
UniRef90_UPI000444833D C S I K T A V A K N M L D P I T G Q K L L E A Q A A T
UniRef90_S7NMW9 Y S V H K A M E R G L I E N T S T Q R L L N A Q K A
UniRef90_H2ZEQ9 L T V Q E A L K F K L I D E A T A A Q L M
UniRef90_UPI00027442A4 C S I K T A V A K N M L D P I T G Q K L L E A Q A A T
UniRef90_UPI0002A48D6E Y T V E E A C V K K L V D P D Q N K L M L
UniRef90_UPI0002A48D6E Y T V E E A C V K K L V D P D Q N K L M L
UniRef90_UPI0002A48D6E Y T V E E A C V K K L V D P D Q N K L M L
UniRef90_UPI0002A48D6E Y T V E E A C V K K L V D P D Q N K L M L
UniRef90_W5PER5 L S V G E A V Q K G W M P Q E S V L P H L R V Q
UniRef90_M4AQX6 I T Y T D L R R K C T V E P V S G L L L L Q
UniRef90_G1NV46 C T I K T A M A K N M L D P I T G Q K L L E A Q A A T
UniRef90_L9L011 Y S V H K A I E R G L I E N T S T Q R L L N A Q K A
UniRef90_UPI00027401D1 F S V H K A T E R G L I D N T A T Q R L L N A Q K A
UniRef90_UPI000444096E L S V G Q A Y K K G H V D K E T A R L L Q A Q E
UniRef90_UPI0003ACA1DA C T I K T A V A K N M L D P I T G Q K L L E A Q A A T
UniRef90_H2MBT9 Y D I T E M L E R R V I D E S
UniRef90_UPI0003B39868 I S Y L Q L K E R C I T D K K T G L I L L P L K D K
UniRef90_W5N627 L S Y K E A M E N C M V E E N T G M K L L Q A
UniRef90_F1RD95 L T Y L E L K S R C T I D K K T G L V L L P I H D K

1 10 20 30 40

UniRef90_UPI00033165E8 I L E P D T G R D M S P Y E A Y Q R G V I D R C Q Y L Q L Q E L E V

UniRef90_Q4RVK6 T S P I A G I V N S T T G E K M S I Q E A S R A K L I R K G T A F E L L E A Q Q A

UniRef90_F6UIB0 T F P I A G V F D N T A T D T K C N I R T A V I K K M V L D P T M T A Q K L L E A Q Q A

UniRef90_M7AVJ3 S F P I A G V Y D M T T D N K C S L K T A V A K N M L D D P T T G Q K L L E A Q Q A

UniRef90_G3TIP9 S F P I A G V Y D M T T D N K C S L K T A V A K N M L D D P T T G Q K L L E A Q Q A

UniRef90_UPI000334386B G L L W P E S G E I L P I T D A L E Q G G I V S T E L A H K I L L S N R Q

UniRef90_UPI0003ACC5A9 G L L W P E S G E I L P I T D A L E Q G G I V S T E L A H K I L L S G R Q Q

UniRef90_UPI0003ACC5A9 G L L W P E S G E I L P I T D A L E Q G G I V S T E L A H K I L L S G R Q Q

UniRef90_UPI0003ACC5A9 P F S D I K D G V S D R V L T L S Q A V Q L G K L D F A P T L N I L L E A Q Q A

UniRef90_HOWFP2 P F S D I K D G V S D R V L T L S Q A V Q L G K L D F A P T L N I L L E A Q Q A

UniRef90_HOWFP2 P F S D I K D G V S D R V L T L S Q A V Q L G K L D F A P T L N I L L E A Q Q A

UniRef90_M3ZVQ3 E P V G A V F D T E A V E K V S I T E A L N R R G L V D S T T A Q R L L E A Q Q A

UniRef90_G1LVE7 G G I I H E Q T G Q K L S L T E V I D E G L M D E K L L H N V L M A D K

UniRef90_G1LVE7 G G I I H E Q T G Q K L S L T E V I D E G L M D E K L L H N V L M A D K

UniRef90_UPI00038385D5 Y L D P D T D L R A S Y V T L K K Q C K A D L N T G L L L P A P

UniRef90_UPI0003AF2114 L P E E A T L N I L L S A Q L

UniRef90_UPI0003AF2114 L P E E A T L N I L L S A Q L

UniRef90_UPI0004446C86 A V T G Y K M P V T G E I I S L F Q A I E N S L V E K G H G I R L L E A Q Q A

UniRef90_UPI0004446C86 A V T G Y K M P V T G E I I S L F Q A I E N S L V E K G H G I R L L E A Q Q A

UniRef90_UPI000462D623 A I A G L Y I E T S K G K M S F A S A A K Q R V I E R S S A V G L L E A Q Q A

UniRef90_UPI000393F1F2 Y L D P E N E D G V T Y M S M K R R C K V D P H T G L L L P S K L

UniRef90_UPI000393F1F2 Y L D P E N E D G V T Y M S M K R R C K V D P H T G L L L P S K L

UniRef90_H2SFZ6 T Q T N E K M P L F E G V R R K V T A H Q L

UniRef90_F1QAU9 A V T G Y K E P G T N K L S L F E A L E R G L I E K K G H G I R L L E A Q Q E

UniRef90_UPI0003B62A17 G F K D P H T G K S L S V F E A M K K A L I D K K T G L R L L Q A Q E

UniRef90_UPI0003B62A17 G F K D P H T G K S L S V F E A M K K A L I D K K T G L R L L Q A Q E

UniRef90_UPI0003B62A17 G F K D P H T G K S L S V F E A M K K A L I D K K T G L R L L Q A Q E

UniRef90_Q4RUK7 N C I A G I L T P T N Q K V S I Y Q A S K E K I T P G T A M V L L E A Q Q A

UniRef90_UPI000329F30F T G S I A G V A V G P S R K M S F T E A K K M K I L S S D S A D M L L E A Q A

UniRef90_UPI0003943464 I I D P R T N Q K L T V K E A C A R G V V D K E D E S K L F A A E A

UniRef90_UPI0003943464 I I D P R T N Q K L T V K E A C A R G V V D K E D E S K L F A A E A

UniRef90_I3JGQ8 R A V T G Y R L P G T D K T I S L F Q A I E R G L V E K G H G I R L L E A Q Q I

UniRef90_UPI00045763A5 I L D S E T G K D L S P Y E A Y K R N L L P R E Q Y I Q L Q E L E G

UniRef90_I3JK33 P I E G L A D S K P M N L W D V V N S N L L P E Q E R Q K L L D E Y

UniRef90_I3JK33 P I E G L A D S K P M N L W D V V N S N L L P E Q E R Q K L L D E Y

UniRef90_UPI000383EAE2 G I I D P E S Y R I V P Y S E L V K K C K I D I E S G Q R Y L E V I

UniRef90_UPI000383EAE2 G I I D P E S Y R I V P Y S E L V K K C K I D I E S G Q R Y L E V I

UniRef90_S4R2N8 S I A G L Y L E S S K E K M S F T S A A Q K I I I D K M I A L A F L E A Q A

UniRef90_F1N6H4 P F S D I K D G A S D K V L T L S Q A I K L G K V D F A A A L K V L E A Q A

UniRef90_F1N6H4 P F S D I K D G A S D K V L T L S Q A I K L G K V D F A A A L K V L E A Q A

UniRef90_H2N2H0 Y A V A G I L T P T N Q K M S I Y Q A S K E K I T P G T A L L L E A Q A

UniRef90_H2N2H0 Y A V A G I L T P T N Q K M S I Y Q A S K E K I T P G T A L L L E A Q A

UniRef90_UPI00042C67D6 P F S D I K D G A S D K V L K L S Q A I K L G K V D F A A T L K V L E A Q A

UniRef90_UPI00042C67D6 P F S D I K D G A S D K V L K L S Q A I K L G K V D F A A T L K V L E A Q A

UniRef90_G3PIAO I V D R R T A G T Q Y D I N D C L K R G V I D Q R S L D Q Y R A G T L

UniRef90_UPI0003D0F5DC S P I A G Y W L T A S G E R T I L N K A S R R N L V D R V T A L R C L Q E L E V

UniRef90_U3I034 I L D P E T G K D M S P Y E A Y K R G I I D R G Q Y I Q L Q E L E V

UniRef90_UPI00038C2147 G L M D P D S K A P L T V L Q S T D R G L L E R E E A V S L L A K Q V

UniRef90_T1DDD5 G L M D P D S K A P L T V L Q S T D R G L L E R E E A V S L L A K Q V

UniRef90_UPI00046BF8DC P F R A L K D K V T G D A L T C A Q A V K L G E V D L L P T L R V L L Q A Q A

UniRef90_UPI00046C05EA P F R A L K D K V T G D A L T C A Q A V K L G E V D L L P T L R V L L Q A Q A

UniRef90_UPI00046C05EA G G I V D P R T G H R L T V D E A V R H N L I D Q D M A C A L L I R Q L

UniRef90_UPI00046C0DD2 G G I V D P R T G H R L T V D E A V R H N L I D Q D M A C A L L I R Q L

UniRef90_UPI00046C0DD2 G F L W P E S G E I L P I T D A L K Q G I V S T E L A H K I L L S N R Q

UniRef90_I3NDR0 G F L W P E S G E I L P I T D A L K Q G I V S T E L A H K I L L S N R Q

UniRef90_I3NDR0 G F L W P E S G E I L P I T D A L K Q G I V S T E L A H K I L L S N R Q

UniRef90_I3NDR0 G F L W P E S G E I L P I T D A L K Q G I V S T E L A H K I L L S N R Q

UniRef90_UPI0003EC392D A G F S D P G M Q E S L S Y G Q L L A R C V T D P E T G L A F L P L P G

UniRef90_S7MX78 P F S D I K D G V S D K V L T L S Q A T Q L G K V D F A S T L K V L E A Q A

UniRef90_S7MX78 P F S D I K D G V S D K V L T L S Q A T Q L G K V D F A S T L K V L E A Q A

UniRef90_H2MRP5 A V T G Y K D P A T G K T V S L F Q A I E K G L I E E G H G I R L L E A Q Q I

UniRef90_H3BCY1 F P I A G V Y D T A T D T K I S L Q N A V K R N M I D S T T A Q K L F E A Q Q A

UniRef90_UPI0003501502 G C I A G V T M P S T Q E V M S L Y D A S R K G L I P M G F A A Q L L E A Q A

UniRef90_UPI00042C1766 G I V D P E N C R I V P Y S E L V K K C K I D I E S G Q R Y L E V I

UniRef90_UPI0003EB0017 G I V D P E N C R I V P Y S E L V K K C K I D I E S G Q R Y L E V I

UniRef90_UPI0003EBDAD5 G F I H P K T A K T L S V S Q A V Q E N L I P K D A G F R C I E F Q L

UniRef90_G3U5N8 G F L W P E S G E I L P I T D A L E Q G L V S T E L A H K I L L S G R Q

UniRef90_G3U5N8 G F L W P E S G E I L P I T D A L E Q G L V S T E L A H K I L L S G R Q

UniRef90_G3U5N8 G F L W P E S G E I L P I T D A L E Q G L V S T E L A H K I L L S G R Q

UniRef90_UPI0001D5657E G L L W P E S G E I L P I T D A L E Q G I V S T E L A H K I L L S N R Q

UniRef90_UPI0001D5657E G L L W P E S G E I L P I T D A L E Q G I V S T E L A H K I L L S N R Q

UniRef90_E4XW86 G L L W P E S G E I L P I T D A L E Q G I V S T E L A H K I L L S N R Q

UniRef90_UPI00046C35B2 N S P I A G Y W L S D T N E R I T V L K A S R K N L V D R L T A L R C L E A Q A

UniRef90_UPI00039563E7 A I A G L Y L E S S K E L S F V L J A S R K N I M G K A L A L A F L E A Q A

UniRef90_W5KUV4 T G V I A G I S V G P A G S V T I T E A K R E N L I V K D S A M K L M E A Q A

UniRef90_UPI0003C8ED04 G V L W P E S G E I L P I T D A L E Q G L V S A E L A H K I L R N R K

UniRef90_UPI0003C8ED04 G V L W P E S G E I L P I T D A L E Q G L V S A E L A H K I L R N R K

UniRef90_Q4SYB7 F P I S G V L D T T Q S R M S V R S A M T R K L I D P D T G L K L L E A Q A

UniRef90_UPI000392E349 G G I L H E Q T G K T L L L X E A V A C G V V P S H T A V K V M E E M K

UniRef90_UPI0003D0AEDF G G I L H E Q T G K T L L L X E A V A C G V V P S H T A V K V M E E M K

UniRef90_UPI0003D0AEDF G G I F H E Q T G Q K L L N E A V A Q G I V P S H T A V K L M E A D K

UniRef90_F7GYW5 G G I F H E Q T G Q K L L N E A V A Q G I V P S H T A V K L M E A D K

UniRef90_F7GYW5 G G I F H E Q T G Q K L L N E A V A Q G I V P S H T A V K L M E A D K

UniRef90_B5DEA7 S F P I A G I Y D K S T D S K C T I R S A I T R K I L D E E T G Q K L L E A Q A

UniRef90_UPI0004432ABE G G V I D P V R S V R V I P P E I A V Q L G L L N N A I L Q F L H E P S S

UniRef90_UPI000441D123 A V T G Y T D P F S G N K I S L Y Q A M R K G L L K D H G I R L L E A Q V

UniRef90_UPI000454BEB0 G G I V H E E T S Q K L L N E A T A E G L V S S H T A V K L M G K L N

UniRef90_UPI0004541BEA G G I V D P R T G H R L T V E E A V R H N L I D Q D M A C A I L T R Q L

UniRef90_UPI0004541BEA G G I V D P R T G H R L T V E E A V R H N L I D Q D M A C A I L T R Q L

UniRef90_G3HN72 F F H P Q T K E P L S F S E A I K L G L V S P E L K R E I Q E I Q D

UniRef90_UPI00033165E8 T T S G L L D R K S 50 G R K Q Y S L I E A A L R C R R I S K E E L H R L L V A G E T K 80
UniRef90_Q4RVK6 A C G K I V D V L Q S G R R K K V T A H Q L C R C G R V I S K N E T L E Q V L L T G R K R A V
UniRef90_F6UIB0 A T G G I I V D L L L T S R W D R Y S T I E T A V I R S S G L I D N E N T F D D Q R V L S R A N Q K A F
UniRef90_M7AVJ3 A T G G I I V D L L L T S R W D R Y S T I E T A V I R S S G L I D N E N T F D D Q R V L S R A N Q K A F
UniRef90_G3TIP9 A T G G I I V D L L L T S R W D R Y S T I E T A V I R S S G L I D N E N T F D D Q R V L S R A N Q K A F
UniRef90_UPI000334386B L M K T I E Q L R L G L K V T V E E V Q K T L L S K N F L L T K A T S V S
UniRef90_UPI0003ACC5A9 H I K A L F L P A T T E I W S W K K V I E N G V L D K D L A N N L K S I C C I P D
UniRef90_UPI0003ACC5A9 H I K A L F L P A T T E I W S W K K V I E N G M L D K D L A N N L K S I C C I P D
UniRef90_UPI0003ACC5A9 H I K A L F L P A T T E I W T W K K A I E N G M L D K D L A N N L K S I C C I P D
UniRef90_HOWFP2 N S G G I I D S A T G K R L T L L G S A L E Q K L L D E N M F R I I A S H Q D D V F
UniRef90_HOWFP2 N S G G I I D S A T G K R L T L L G S A L E Q K L L D E N M F R I I A S H Q D D V F
UniRef90_M3ZVQ3 C T G G I I V N D P R T D G K R V S I Q K E A S S Q M G L L A N D Q T A S R I L E E G Q D L K
UniRef90_G1LVE7 A I S G V L D P R T H T L C S V V K E A V S V G L L L D T Q T A S R I L E E G Q D L K
UniRef90_G1LVE7 A I S G V L D P R T H T L C S V V K E A V S V G L L L D T Q T A S R I L E E G Q D L K
UniRef90_UPI00038385D5 E K P I T V Q G L R S E V N V L L D V D A K G L V P S H T A V K L M G K L N M F
UniRef90_UPI0003AF2114 L D G G I I F H E Q T G Q K L L L H E A I A Q G G L V P S H T A V K L M G K L N M F
UniRef90_UPI0003AF2114 L D G G I I F H E Q T G Q K L L L H E A I A Q G G L V P S H T A V K L M G K L N M F
UniRef90_UPI0004446C86 A S G G I I D P Q H S H R I L D V N I A Y G R G Y F N E E M N K I L T D E S D D D T
UniRef90_UPI0004446C86 A S G G I I D P Q H S H R I L D V N I A Y G R G Y F N E E M N K I L T D E S D D D T
UniRef90_UPI000462D623 V T G F I I D P T T G Q K Y S V D D S V I K G L V D Q D Y K S R L L E A E K A T
UniRef90_UPI000393F1F2 I F D G V R K P V T A K Q L L D C S V L D K P T F K D L E K G K T I
UniRef90_UPI000393F1F2 I F D G V R K P V T A K Q L L D C S V L D K P T F K D L E K G K T I
UniRef90_H2SFZ6 C D C G I I T K A T L E Q L L T G R K T V D E V A V D T Q L S L K G T I
UniRef90_F1QAU9 A S G G I I D P N T E D N L T S Y L E L K S R C T J D K K T G L V L L P I H D K K
UniRef90_UPI0003B62A17 S A G G I L D P N L S V F L S S K E T A V V K C C S L L D Q D L V H A L Q C C Y I D P D
UniRef90_UPI0003B62A17 S A G G I L D P N L S V F L S S K E T A V V K C C S L L D Q D L V H A L Q C C Y I D P D
UniRef90_UPI0003B62A17 S A G G I L D P N L S V F L S S K E T A V V K C C S L L D Q D L V H A L Q C C Y I D P D
UniRef90_Q4RUK7 A T G Y I L D P I K N Q K L T V N E A V K E G V I G P E L H N K M L L A E R A V
UniRef90_UPI000329F30F A T G H I I D L R T N Q K L T V K E A C A R G V V D K E D E S K L F A A E A A
UniRef90_UPI0003943464 A A I G Y K D L T T G K L S A G Q A M K K G L I D K D T A L R V L Q A Q E S V
UniRef90_UPI0003943464 A A I G Y K D L T T G K L S A G Q A M K K G L I D K D T A L R V L Q A Q E S V
UniRef90_I3JGQ8 A S G G I I D P E H S H R I L D V N I A Y K R G Y L D E G M I K L S D Q N D T N
UniRef90_UPI00045763A5 V T S V L R D K K S G R H Y S I E E D A L K N R K I T P K T L Q R P A L K Q R D T M
UniRef90_I3JK33 R S G K I T S P L S R R R I T I E E L Y N A R I I D L E T Y N L L K Q G K R D I
UniRef90_I3JK33 R S G K I T S P L S R R R I T I E E L Y N A R I I D L E T Y N L L K Q G K R D I
UniRef90_UPI000383EAE2 P F S D I K D G A S D K V L T L S Q A I K L G K V D F A A A L K V L E A Q D T A
UniRef90_UPI000383EAE2 P F S D I K D G A S D K V L T L S Q A I K L G K V D F A A A L K V L E A Q D T A
UniRef90_S4R2N8 A T G F I I D P V S G Q T Y C V E D A V L H G T V D P E F R S R L L E A E K A V
UniRef90_F1N6H4 N A G G I I D P A T G K R L T L L S S A L E Q K L V D E N M V R I I A S R Q D I F
UniRef90_F1N6H4 N A G G I I D P A T G K R L T L L S S A L E Q K L V D E N M V R I I A S R Q D I F
UniRef90_H2N2H0 A T T T V S V P F K G K T V T I W E I I N S E Y F T E D Q K K D L L R Q Y R T V
UniRef90_H2N2H0 A T T T V S V P F K G K T V T I W E I I N S E Y F T E D Q K K D L L R Q Y R T V
UniRef90_UPI00042C67D6 N A G G I I D T A T G K R L T L A S A L E Q K L V D E S M V R I I A S R Q D I F
UniRef90_UPI00042C67D6 N A G G I I D T A T G K R L T L A S A L E Q K L V D E S M V R I I A S R Q D I F
UniRef90_G3PIAO T L S G F A D Q L T S R T S S I A E M N I A A S N V D P T V R K R E N S I S D T E
UniRef90_UPI0003D0F5DC S T G G I I D P L T T G K Y S V I A E A L H R R I D E G F A Q Q L R Q C E L V I
UniRef90_U3I034 T T L G L L D K K S G K Q Y S I D D A L R L R R I T K E E Y Q L Y R D G K I P I
UniRef90_UPI00038C2147 L D G G I I H H I S G L R L S V D N A F K H G F I A E D V A R Q L K K V E N P Q
UniRef90_T1DDD5 R E E V N A R Q L I E V K L L D L T T A G Q L H S G K K A I
UniRef90_UPI00046BF8DC
UniRef90_UPI00046BF8DC

UniRef90_UPI00046C05EA D T G G I V D G A T G K R L S L R S A L E R D V V D E D M V R I I A S N Q D T N
UniRef90_UPI00046C05EA D T G G I V D G A T G K R L S L R S A L E R D V V D E D M V R I I A S N Q D T N
UniRef90_UPI00046C0DD2 Q T G G I I D T V T G G E R L T I D E A V K R D L V A S R I A L V I L E S L W S F
UniRef90_UPI00046C0DD2 Q T G G I I D T V T G G E R L T I D E A V K R D L V A S R I A L V I L E S L W S F
UniRef90_I3NDR0 H I K A L F L P A T T E I W S W K K V I E N G V L D K D L A N N L K S I C C I P D
UniRef90_I3NDR0 H I K A L F L P A T T E I W S W K K V I E N G V L D K D L A N N L K S I C C I P D
UniRef90_I3NDR0 H I K A L F L P A T T E I W S W K K V I E N G V L D K D L A N N L K S I C C I P D
UniRef90_UPI0003EC392D E A P G F I E H S T Q E A L S F A E A V A A G L V G E E L R E R L L D A Q K A A
UniRef90_S7MX78 N T G G I I D T A T G Q G L T L A S V L K Q K L V D E N M V R T I A S H Q D I F
UniRef90_S7MX78 N T G G I I D T A T G Q G L T L A S V L K Q K L V D E N M V R T I A S H Q D I F
UniRef90_H2MRP5 A S G G I I D P V E S H R I L D V S V A Y K R G Y F D E K M N E L L S Y E G D D T
UniRef90_H3BCY1 A T G F I I D V L G T K E R Y S V H K A A E I G L T I E H T H M Q R L N A Q K A F
UniRef90_UPI0003501502 A T F F L T D V K T G L Q F N I N E A E I E Q G T V D K V L V Q K Y Q E G L T A F
UniRef90_UPI00042C1766 A T G F M L D P C S H R R L S V Q Q A V A E G L V G E D M Q E R L L D A Q K A V
UniRef90_UPI0003EB0017 P F S D I K D G V S D K V L T L S Q A I Q L G K V D F A S T L K V L E A Q D T A
UniRef90_UPI0003EB0017 P F S D I K D G V S D K V L T L S Q A I Q L G K V D F A S T L K V L E A Q D T A
UniRef90_UPI0003EBDAD5 L T G G L I K P D T H D R I S L E E V V Q S G L V D K V T A T V L K S L T C P R
UniRef90_G3U5N8 H I K A L F L P A T T E V W S W K K A I E N G I L D K D L A D N L K S V C C I P D
UniRef90_G3U5N8 H I K A L F L P A T T E V W S W K K A I E N G I L D K D L A D N L K S V C C I P D
UniRef90_G3U5N8 H I K A L F L P A T T E V W S W K K A I E N G I L D K D L A D N L K S V C C I P D
UniRef90_UPI0001D5657E H I K A L F L P A T T E I L S W K K A I E S G I L D R D L A N N L K S I C C I P D
UniRef90_UPI0001D5657E H I K A L F L P A T T E I L S W K K A I E S G I L D R D L A N N L K S I C C I P D
UniRef90_E4XW86

UniRef90_UPI00046C35B2 S T G G I I D P F N G K K Y S V S E A L V Q R E L I D E S F S A K Q I Q Q C E K A V F
UniRef90_UPI00039563E7 A T G F I I D P T T G K K Y S V D D S V R G R E L A D S E F F S K R L L E A E K A V
UniRef90_W5KUV4 A T G H I I D P K A N V R M T V E E A Y L S G L V D S E E D K E Q L L T A E A A C
UniRef90_UPI0003C8ED04 H I K A L F L P A T T E I L S W K K A T E N G I L D K D L A T H L K S V C C I P D
UniRef90_UPI0003C8ED04 H I K A L F L P A T T E I L S W K K A T E N G I L D K D L A T H L K S V C C I P D
UniRef90_Q4SYB7 A S G G I V D L N K K D K L S V H K A V E Q G L L D D Q G H M Y K L L N A Q K A F
UniRef90_UPI000392E349 G L R H D V T A R Q L T E V K L L D R L T V E Q L H S G Q K T I
UniRef90_UPI0003D0AEDF M F X G F F X S Q T C E S L T T N E V I N E G L M D E K L L Q K V L A C C D K A V
UniRef90_UPI0003D0AEDF M F X G F F X S Q T C E S L T T N E V I N E G L M D E K L L Q K V L A C C D K A V
UniRef90_F7GYW5 A I S G I L D P R T H T L Y S V K D A V T L G L L D K E T A T R I L E R Q V A K
UniRef90_F7GYW5 A I S G I L D P R T H T L Y S V K D A V T L G L L D K E T A T R I L E R Q V A K
UniRef90_B5DEA7 A T G G I I H I M S K E R Y S V H K A I D R G L I D S S N T Q S L L H A Q K A F
UniRef90_UPI0004432ABE N T R A F P N M N K Q A L Y S E L L R M C V E D I D S R C F L P F E K A K
UniRef90_UPI000441D123 A T G G L I H P M H S H R L P V E V A Y K W G Y L D A E I F H L I N P A N H T K
UniRef90_UPI000454BEB0 M F R G F F D S Q T S E S L T T E E V I D E G L M D E K L L H K V L M S D K A I
UniRef90_UPI0004541BEA Q T G G I I D T V T G N R M T M D E A V S N N L V A A K T A L V I L E S L W S F
UniRef90_UPI0004541BEA Q T G G I I D T V T G N R M T M D E A V S N N L V A A K T A L V I L E S L W S F
UniRef90_G3HN72 Y S G N L G D L I Y G Q K L S L A E A I M H G V V D P E N C K T I S D I K D E V

UniRef90_UPI00033165E8 P C P S L S L I G S 90 I S K S P L C A G F S L G L A E D S F P I A G V I V D T T T D
UniRef90_Q4RVK6 T G I K M P F T E A K N N N L L L T P E S A L K L L L E A Q Q A A T G G Y I V D D P E F N
UniRef90_F6UIB0 V G Y R L L S L C E A M G R H L V V D R S H A L R L L E A Q Q A A T G G G L E D D I N K S P
UniRef90_M7AVJ3 T G V R L S L V G E A V Q K G W M T K D S A F P C L L Q V Q H L T G G G L I D D P K R T
UniRef90_G3TIP9 T G I R L S L V G E A V Q K G W M P R E S V L L P H L Q V Q H L T G G G L I D D P K R T
UniRef90_UPI000334386B T K E K I S F A S A A N K I T I D K M I A L L A F L L E A Q Q A A T G G F Y I D D P V R N S G
UniRef90_UPI0003ACC5A9 V M P H I Q L A D S S E R N I S P G A A G L L C C L L L F E L M T H S Y I I D D V R N G G
UniRef90_UPI0003ACC5A9 V M P H I Q L A D S S E R N I S P G A A G L L C C L L L F E L M T H S Y I I D D V R N G G
UniRef90_UPI0003ACC5A9 V M P H I Q L A D S S E R N I S P G A A G L L C C L L L F E L M T H S Y I I D D V R N G G
UniRef90_HOWFP2 N D Q R V T M K E A I K K G L I S P E L A T M I Q I D T L E F S D
UniRef90_HOWFP2 N D Q R V T M K E A I K K G L I S P E L A T M I Q I D T L E F S D
UniRef90_M3ZVQ3 F G F K L S A A L A K E M W L V D Y E A G Q R F L V E F Q V A T G G G L Y D D P E K G
UniRef90_G1LVE7 R G K K V S V T L A S N L G L V D K T V R E R F V S L Q M E T T G G I M D D P P D S K N
UniRef90_G1LVE7 R G K K V S V T L A S N L G L V D K T V R E R F V S L Q M E T T G G I M D D P P D S K N
UniRef90_UPI000338385D5 Q Q E I T L P I Y Q A M K N G L L R P G T T L E L L E A Q A A S G G F V I D D P P D S K N
UniRef90_UPI0003AF2114 Q Q F S L T T E E V I D E G L M D E K L L H N V L M A D K T I S G V L D D P P R T H
UniRef90_UPI0003AF2114 Q Q F S L T T E E V I D E G L M D E K L L H N V L M A D K T I S G V L D D P P R T H
UniRef90_UPI0004446C86 K G F N L T Y L L E L K K R C I S D E K T G L I L L K K Q E S S K K I V D D P P E T G G
UniRef90_UPI0004446C86 K G F N L T Y L L E L K K R C I S D E K T G L I L L K K Q E S S K K I V D D P P E T G G
UniRef90_UPI000462D623 L G Y K L S V Y Q A I E T N L I E R Q K G K N I L E V Q L A S G G I V D D P V R S N
UniRef90_UPI000393F1F2 P E V K M S L S E A K R Q M L L P D D S A D L L L E A Q A A T G H I I D D P Q T N
UniRef90_UPI000393F1F2 P E V K M S L S E A K R Q M L L P D D S A D L L L E A Q A A T G H I I D D P Q T N
UniRef90_H2SFZ6 A G M K M P F T E A K N N K L L T P E S A L K L L E A Q A A T G Y I V D D P A Y N
UniRef90_F1QAU9 K A Q Q K N S T R K R R V L L Q L L E C G V L D D K P T F
UniRef90_UPI0003B62A17 T E H S V S Y G A L K K K C C L I E P R T G L V L I S L Q L L E C G V L D D K P T F
UniRef90_UPI0003B62A17 T E H S V S Y G A L K K K C C L I E P R T G L V L I S L Q L L E C G V L D D K P T F
UniRef90_UPI0003B62A17 T E H S V S Y G A L K K K C C L I E P R T G L V L I S L Q L L E C G V L D D K P T F
UniRef90_Q4RUK7 I G Y K I S V F E A M K K G L I E H D H A I R V L E A Q R A T G G I I D D P I N G
UniRef90_UPI000329F30F I G Y K L S A G Q A M K K G L I D K D T A L R V L Q A Q E S V G G I L D D P D L S
UniRef90_UPI0003943464 G G I L D D P D L S
UniRef90_UPI0003943464 G G I L D D P D L S
UniRef90_I3JGQ8 T E E N L T Y T E L K N R C I P D K K T G L M L L P I Q E S T Q K I V D D P D T N
UniRef90_UPI00045763A5 T N S K L S I N S G L N R K F I D P L E T A Q K I L L E A Q A A T G G I V D D V G T R N
UniRef90_I3JK33 R N I K L S I Y Q A M K R G F I K P E I G L T L L E A Q A A T G F I V D D P L K N
UniRef90_I3JK33 R N I K L S I Y Q A M K R G F I K P E I G L T L L E A Q A A T G F I V D D P L K N
UniRef90_UPI000383EAE2 T G K R L T L S S A L E Q K L V D E N M V R I I A S R Q V L D G G I I D I F S N
UniRef90_UPI000383EAE2 T G K R L T L S S A L E Q K L V D E N M V R I I A S R Q V L D G G I I D I F S N
UniRef90_S4R2N8 L G Y T L S V F Q A M E N R M L D R K K G K H I L E A Q I A S G G V I D P V R G
UniRef90_F1N6H4 S N Q R V T L K E A I E K R L I S P E L A T I I Q E
UniRef90_F1N6H4 S N Q R V T L K E A I E K R L I S P E L A T I I Q E
UniRef90_H2N2H0 T E E K E K K N E I T F D G L R G P V P A S E L L E S A I I D K D L Y N K L N K
UniRef90_H2N2H0 T E E K E K K N E I T F D G L R G P V P A S E L L E S A I I D K D L Y N K L N K
UniRef90_UPI00042C67D6 N D Q R V T L K E A I E K R L I S P E L A
UniRef90_UPI00042C67D6 N D Q R V T L K E A I E K R L I S P E L A
UniRef90_G3PIAO T L E K I T L S E G L R G I V D S I E T V Q R M L E A Q A C T G G I I N P S T G
UniRef90_UPI0003D0F5DC T G I M M S V V E A V N A N I S K E M G I R C L L E F Q Y L T G G I I E P Q V N
UniRef90_U3I034 S E F A L S P T T H Q T Q N F F P S Q K G F C D D T C P I A G V Y D T T T D
UniRef90_UPI00038C2147 T K E A L S F S E A I K L D L V S P E L K R E I Q E I Q D Y S G N L G D L I Y G
UniRef90_T1DDD5 A E V Q K D L E I F L T K P T A V A G L G I E A S K
UniRef90_UPI00046BF8DC T G K N L L L N E A V A Y G V V S S H T A V K L M E K M N M F N G F F D S H T C
UniRef90_UPI00046BF8DC T G K N L L L N E A V A Y G V V S S H T A V K L M E K M N M F N G F F D S H T C
UniRef90_UPI00046C05EA S G E R V T L K E A V E R G L V A V P E G I W I L
UniRef90_UPI00046C05EA S G E R V T L K E A V E R G L V A V P E G I W I L
UniRef90_UPI00046C05EA S G E R V T L K E A V E R G L V A V P E G I W I L
UniRef90_UPI00046C0DD2 M G E I L P V A D A L E Q G I L S T E L A H K I L S N R Q L I K A L F I P E T T
UniRef90_UPI00046C0DD2 M G E I L P V A D A L E Q G I L S T E L A H K I L S N R Q L I K A L F I P E T T
UniRef90_I3NDR0 V M P H M Q L V D S S E Q N K L S A S H D E K L L F Q L M T H S Y I N V Q N G
UniRef90_I3NDR0 V M P H M Q L V D S S E Q N K L S A S H D E K L L F Q L M T H S Y I N V Q N G
UniRef90_I3NDR0 V M P H M Q L V D S S E Q N K L S A S H D E K L L F Q L M T H S Y I N V Q N G
UniRef90_UPI0003EC392D K G Y T V P L S Q A M D R K L V K R E E A L R L L E V Q V A T G G V I D P R H H
UniRef90_S7MX78 N D Q R V T V K E A I E K G F I S P E L A
UniRef90_S7MX78 N D Q R V T V K E A I E K G F I S P E L A
UniRef90_H2MRP5 K G F N L T Y L Q L K A R C T T D P Q T G L I L L E R T N V L R K I V D P D T G
UniRef90_H3BCY1 T G E R I S V G E A T Q K G W L I H D N A I R Y L E A Q Y L T G G L V D D P K K T
UniRef90_UPI0003501502 T G E R I S L V K A S R R N L V D R I T A L R C L E A Q V S T G G V I D D P L T G
UniRef90_UPI00042C1766 T G H K V P L F Q A M K K N L V R E D A L R L L E A Q E A T G G I I D D P Q H H
UniRef90_UPI0003EB0017 T G K R L T L A S A L E E K L V D E N M V R I I A S H Q V L N G G I V D I F S D
UniRef90_UPI0003EB0017 T G K R L T L A S A L E E K L V D E N M V R I I A S H Q V L N G G I V D I F S D
UniRef90_UPI0003EBDAD5 T K R R I T F K E A L E R S V Y D C H T G L R L L E A T K S H G
UniRef90_G3U5N8 V M P H M Q L A D S S E Q G I N P G A A A L P C C L L F Q L M T H S Y I N V R D G
UniRef90_G3U5N8 V M P H M Q L A D S S E Q G I N P G A A A L P C C L L F Q L M T H S Y I N V R D G
UniRef90_G3U5N8 V M P H M Q L A D S S E Q G I N P G A A A L P C C L L F Q L M T H S Y I N V R D G
UniRef90_UPI0001D5657E V M P H M Q L A D S A E Q N I N H G A A V L P C C L L F Q L M T H S Y I N V Q N G
UniRef90_UPI0001D5657E V M P H M Q L A D S A E Q N I N H G A A V L P C C L L F Q L M T H S Y I N V Q N G
UniRef90_E4XW86 T G L K K S I F T A Q K E E Y I S R S T A I S L L E A Q A A T G N I I D P I S A
UniRef90_UPI00046C35B2 T G L I S A I E A M N V N L N K D T G L R C L Q Y Q Y L T G G L I D D P K S H
UniRef90_UPI00039563E7 L G Y A L S V F Q A V E A N Q L L E R Q K G K N I L E A Q A Q I A C G G V I D P V L S
UniRef90_W5KUV4 I G F Q L S A S Q A L K Q G L I N E D T A I R F L Q A Q E A A G G L D D P V L S
UniRef90_UPI0003C8ED04 V M P H M R L A D S S E R K K P S R D A A L P H S E G Q
UniRef90_UPI0003C8ED04 V M P H M R L A D S S E R K K P S R D A A L P H S E G Q
UniRef90_Q4SYB7 T G E R L A V A Q A A Q K G Y M P K E N A M R Y M L A Q Y L T G G L V D P S R A
UniRef90_UPI000392E349 D E V Q K S L E K F L T K P T A I A G L Y L E S S K
UniRef90_UPI0003D0AEDF S G V L D S V K D A A E I G L L D K E T A A R I X E G Q V V T G G I V D L K R D
UniRef90_UPI0003D0AEDF S G V L D S V K D A A E I G L L D K E T A A R I X E G Q V V T G G I V D L K R D
UniRef90_F7GYW5 R G K K V S V T L A S T L G L V D K T V R E R L L S L Q M E T T G L I D D P D S K
UniRef90_F7GYW5 R G K K V S V T L A S T L G L V D K T V R E R L L S L Q M E T T G L I D D P D S K
UniRef90_B5DEA7 T G V R L S L G E A V Q K D L I P K E K A L P S L I V Q H L T G G L I D T K Q T
UniRef90_UPI0004432ABE T G A E L T A F E A F Q R N L I E K N T Y L E L S G Q Q Y A S H V L T D V K T G
UniRef90_UPI000441D123 R C F N L T Y L Q L L P R C I L P D D T G L L M F V M D K G C I H L D E S
UniRef90_UPI000454BEB0 S G I L D S V K E A V A S G L L D K E I A T R I L E G Q V V T G G I V D L K R G
UniRef90_UPI0004541BEA M G E I L P I T D A L E Q G I V S T E L A H K I L S K R Q Q I E A L F L P A I T
UniRef90_UPI0004541BEA M G E I L P I T D A L E Q G I V S T E L A H K I L S K R Q Q I E A L F L P A I T
UniRef90_G3HN72 S N K E I T L S E A I Q H G K V D F A S T L K V L E A Q A N T G G I I D T A T G

UniRef90_UPI00033165E8 N K C S V K T A V A K N M L D P L T G Q K L L E A Q A A T G G I V D L L S R E R
UniRef90_Q4RVK6 E R M S V D A A C S R G I V D T E D R D T L V T A E A A C T G F K D P Y T G K V
UniRef90_F6UIB0 V R I S V S V A A K R G L D S S V L A R K L L E E K R E T T S Y F D P V T G E N
UniRef90_M7AVJ3 G R I P V S E A V Q T G M I S D D L A K M L Q D E P N Y E K D L V D P V T K E K
UniRef90_G3TIP9 G R I P V A Q A V L S G M I S D E L A Q L L Q D E A S Y E K D L T D P L S K E R
UniRef90_UPI000334386B Q T Y C V E D A I L K G V I D P E F K I R L L E A E K A A L G Y S C S S R L
UniRef90_UPI0003ACC5A9 E R L
UniRef90_UPI0003ACC5A9 E R L
UniRef90_UPI0003ACC5A9 E R L

UniRef90_HOWFP2
UniRef90_HOWFP2
UniRef90_M3ZVQ3 C R R S I V E D A L K M G W L D L R A A Q K L Q D V K N H T K N I T C P K S K L R
UniRef90_G1LVE7 T P L T T V M Q S I D R G L L L E R E E A V R L L T K Q V V D G G I I H H I S G M R
UniRef90_G1LVE7 T P L T T V M Q S I D R G L L L E R E E A V R L L T K Q V V D G G I I H H I S G M R
UniRef90_UPI00038385D5 E Y Y T V E E A C Q F G L L D G V E F K D K L L S A E K A V T G Y K E P G T N K L
UniRef90_UPI0003AF2114 T L C S V K E A V A F G L L D T Q T A T S I L E G Q V V T G G I I D L K R G K K
UniRef90_UPI0003AF2114 T L C S V K E A V A F G L L D T Q T A T S I L E G Q V V T G G I I D L K R G K K
UniRef90_UPI0004446C86 K E M T I R E A Y D K K Y I D Y N T Y L E L L E Q E C E W E E I T D R S T G R Q
UniRef90_UPI0004446C86 K E M T I R E A Y D K K Y I D Y N T Y L E L L E Q E C E W E E I T D R S T G R Q
UniRef90_UPI000462D623 V R I P P E A A V Q L G L L N N T I L K F L H E P S S N K K S F Q N P N N K Q T
UniRef90_UPI000393F1F2 Q K L T V E E A C T R G V V D I K D R D K L L A A E A A A V G Y K D P T V A K P
UniRef90_UPI000393F1F2 Q K L T V E E A C T R G V V D I K D R D K L L A A E A A A V G Y K D P T V A K P
UniRef90_H2SFZ6 E R M S V D T A C S R G I V D T E D R E A L V T A E A A C T G F K D P Y T G K V
UniRef90_F1QAU9 K E M T I R E A Y E K K L L D Y E T F L E L S Q Q E S T A T I M D M Q T G I Q
UniRef90_UPI0003B62A17 E K L S I S D A K K K M L M P P K S A N F L L E A Q A A T G H I T D I K S N R R
UniRef90_UPI0003B62A17 E K L S I S D A K K K M L M P P K S A N F L L E A Q A A T G H I T D I K S N R R
UniRef90_UPI0003B62A17 E K L S I S D A K K K M L M P P K S A N F L L E A Q A A T G H I T D I K S N R R
UniRef90_Q4RUK7 H R V P N E I A Y K Q G Q Y I D A E M N K I L M E N P T D D T K G F F D P S T Q E S
UniRef90_UPI000329F30F I F L P K N I A L N R N L I D Q D L Y H A L S Q G P D C Y L D P D T K Q G
UniRef90_UPI0003943464 I F L P K N I A L N R N L I D Q D L Y H A L S Q G P D C C Y L D P D T Q Q G
UniRef90_UPI0003943464 I F L P K N I A L N R N L I D Q D L Y H A L S Q G P D C C Y L D P D T Q Q G
UniRef90_I3JGQ8 K E M T V R E A Y D K G L I D Y E T F L E L S G P D G S V K F L I D K K T G R Q
UniRef90_UPI00045763A5 E R F S V S Q A V D K G L I D R G H M Q R L L N A Q K A F T G V E D P M T G E R
UniRef90_I3JK33 E T L T V D E A V P E R A V T G Y K D P Y S G K I
UniRef90_I3JK33 E T L T V D E A V P E R A V T G Y K D P Y S G K I
UniRef90_UPI000383EAE2 Q R V T L K E A I E K R L I S P E L A T I I Q E
UniRef90_UPI000383EAE2 Q R V T L K E A I E K R L I S P E L A T I I Q E
UniRef90_S4R2N8 V R V P P E M A V Q Q G L L N N A V L Q F L H E P S S N T R V F P N P N N K Q A
UniRef90_F1N6H4
UniRef90_F1N6H4
UniRef90_H2N2H0
UniRef90_H2N2H0
UniRef90_UPI00042C67D6 G N I T V K E V S E M G P V S K A L K G T N C I A G V I I D S S K E I
UniRef90_UPI00042C67D6 G N I T V K E V S E M G P V S K A L K G T N C I A G V I I D S S K E I

UniRef90_G3PIA0 E R L S L Q D A V H Q G I I A D S M A T K L K A A Q K A Y V G F E D V K T K R K
UniRef90_UPI0003D0F5DC S R L S I E E A L Q V G I I D V L I A T R L K D Q K S Y V R N I M C P Q S K R K
UniRef90_U3I034 T K Y N I K T A V A K K L L D P M T A Q K L L E A Q A A T G G I I D L T S R D R
UniRef90_UPI00038C2147 Q K L T L A E A N K G R S L A N K T E L P S G M I H G V V D P E N C R L
UniRef90_T1DDD5 N K I S L A S A A K Q R I I D K T S A L A L L E A Q A A T G F I D P I D P T G K K
UniRef90_UPI00046BF8DC E S L T T E E V I S E G L M D E K L L H K V L T S D K A I S G V L D P C S N I V
UniRef90_UPI00046BF8DC E S L T T E E V I S E G L M D E K L L H K V L T S D K A I S G V L D P C S N I V
UniRef90_UPI00046C05EA
UniRef90_UPI00046C05EA
UniRef90_UPI00046C0DD2 E V L T W K K A V E H G I L E R D V A K K L K S T
UniRef90_UPI00046C0DD2 E V L T W K K A V E H G I L E R D V A K K L K S T
UniRef90_I3NDR0 Q R
UniRef90_I3NDR0 Q R
UniRef90_I3NDR0 Q R
UniRef90_UPI0003EC392D L R L P L D T A Y E R G C L R R D T Y A L V S D Q K H M N K R F V D P N T H E K

UniRef90_S7MX78
UniRef90_S7MX78
UniRef90_H2MRP5 L E M T V R E A Y H K E L I D Y E T F L D L S E Q E S T I K G I V D R K T G A Q
UniRef90_H3BCY1 G R V K I T D A V Q T K M I D S N T A R I L Q R E E Y N Y V K D L I H P I S K E K
UniRef90_UPI0003501502 K K Y R V A E A L H R G L V D E G F A Q Q L R Q E C E L V I T G I G H P I T N K V
UniRef90_UPI00042C1766 H R L P V D V A Y R R G C L H Q D T Y P L I S D Q K H M N K R F V D P N T Q E R
UniRef90_UPI0003EB0017 Q R V T L V E A I E K R L I S P E L A N M I Q I D S S E F S D
UniRef90_UPI0003EB0017 Q R V T L V E A I E K R L I S P E L A N M I Q I D S S E F S D
UniRef90_UPI0003EBDAD5

UniRef90_G3U5N8 Q R L
UniRef90_G3U5N8 Q R L
UniRef90_G3U5N8 Q R L
UniRef90_UPI0001D5657E Q R L L L L D K E L M E I L T S R D K Y
UniRef90_UPI0001D5657E Q R L L L L D K E L M E I L T S R D K Y
UniRef90_E4XW86 R K M S V T E A A Q D G Q F D K I Y E Q C L L R A E R A V G G Y N T R L S D E K
UniRef90_UPI00046C35B2 C R L S M E D A I K N G I I D A I L T A T K M K D D K S H V K A I T C P K T K K K
UniRef90_UPI00039563E7 V R V P P E A A V Q L G L L N N T I L K F L H E P S S N A K C F H N P N N R K A
UniRef90_W5KUV4 V Y L S K N V A M D R D L I N E K L H Q A L N G K P D C Y T D P G T G Q S

UniRef90_UPI0003C8ED04
UniRef90_UPI0003C8ED04
UniRef90_Q4SYB7 G R L S I Q K A L D A N M I D S T T A N E L Q D E S S Y L K E L V D P I T K E K
UniRef90_UPI000392E349 E L L S F A L A A K R R I I G K A L A L A F L E A Q A A T G F I I D P T K G Q K
UniRef90_UPI0003D0AEDF K K I S V T L A S N L G L I D E A A R Q K L I G L Q A E T S G I V D P K T K Q P
UniRef90_UPI0003D0AEDF K K I S V T L A S N L G L I D E A A R Q K L I G L Q A E T S G I V D P K T K Q P
UniRef90_F7GYW5 A P L T V V Q S I D R G L L E R E E A I R L L S K Q V V D G G I I H H I S G M R
UniRef90_F7GYW5 A P L T V V Q S I D R G L L E R E E A I R L L S K Q V V D G G I I H H I S G M R
UniRef90_B5DEA7 G R I P V P E A E E Q G L V S K E L A D K I Q D E T Q Y K K D L I D P V T K E N
UniRef90_UPI0004432ABE L Q F N I S E A V E Q G V I D T E L A D T L L S R L V P K K D L S P D S G E R
UniRef90_UPI000441D123 A R K S L S A V Q V G I F

UniRef90_UPI000454BEB0 K K L S V T L A S N F G L V D N A D H T E L I N L E K A T K G L M D P D S K A P
UniRef90_UPI0004541BEA E I W S W K K A T E S G I L D K D L A N N L R S
UniRef90_UPI0004541BEA E I W S W K K A T E S G I L D K D L A N N L R S
UniRef90_G3HN72 K R I L T L A S A M E Q K L L D E N M A R I I A S H Q V L S G G I I D I Y N D Q R

UniRef90_UPI00033165E8 Y S V H R A L E R G L I E N T A T Q R L L N A Q K A
UniRef90_Q4RVK6 L S V G Q A C K Q G R I N K D T A T R L L Q A Q E
UniRef90_F6UIB0 L N Y S E L M G R C V L D K D T G L L F L
UniRef90_M7AVJ3 M N Y K E A M T R C R K D P L S G L L L L P A A S
UniRef90_G3TIP9 L S Y K E A M G C C R R D P L S G L L L L P A A
UniRef90_UPI000334386B L S V F Q A M E N R I L D R Q K G K H I L E A Q
UniRef90_UPI0003ACC5A9
UniRef90_UPI0003ACC5A9
UniRef90_UPI0003ACC5A9

UniRef90_HOWFP2
UniRef90_HOWFP2

UniRef90_M3ZVQ3 I S Y K E V L D N C L V I E E G T G V K M L Q A
UniRef90_G1LVE7 L S V D N A F E H G I I D E D
UniRef90_G1LVE7 L S V D N A F E H G I I D E D
UniRef90_UPI00038385D5 I S L F E A I E R G L I E D S Q T H G I R L L E A Q I A S
UniRef90_UPI0003AF2114 I S V T L A S N L G L V D S Q T E L I N L E K A S K G
UniRef90_UPI0003AF2114 I S V T L A S N L G L V D S Q T E L I N L E K A S K G
UniRef90_UPI0004446C86 Y D I N D L L E K Q V I D Q S
UniRef90_UPI0004446C86 Y D I N D L L E K Q V I D Q S

UniRef90_UPI000462D623 M Y Y S D L L K L C L L D L D S K C F L L P V G Q R
UniRef90_UPI000393F1F2 L S V F E A M K K G L I D N K T A L R L L Q A Q E
UniRef90_UPI000393F1F2 L S V F E A M K K G L I D N K T A L R L L Q A Q E
UniRef90_H2SFZ6 L S V G Q A C K Q G R L N K D T A L R L L Q A Q E
UniRef90_F1QAU9 Y N L K E L L A Q G V I D Q D G G L S V T E L A G M I T K
UniRef90_UPI0003B62A17 L T V E E A C A R G V V E R S D R D K L L E A A A V G Y K
UniRef90_UPI0003B62A17 L T V E E A C A R G V V E R S D R D K L L E A A A V G Y K
UniRef90_UPI0003B62A17 L T V E E A C A R G V V E R S D R D K L L E A A A V G Y K
UniRef90_Q4RUK7 L T Y S E L M E R C V T D P D T G L L L L P I T D K
UniRef90_UPI000329F30F T P Y V I S L K K K C K A D P S T G L L L L P
UniRef90_UPI0003943464 T P Y I S L K K K C K A D P S T G L L L L P
UniRef90_UPI0003943464 T P Y I S L K K K C K A D P S T G L L L L P

UniRef90_I3JGQ8 Y D I T E L L E K R L I D E S
UniRef90_UPI00045763A5 L P V G L A L K N G W L P A E T A L R Y L E A Q
UniRef90_I3JK33 I S L F Q A M K K D L V P E D Y A L K M L E A Q
UniRef90_I3JK33 I S L F Q A M K K D L V P E D Y A L K M L E A Q

UniRef90_UPI000383EAE2
UniRef90_UPI000383EAE2

UniRef90_S4R2N8 L Y Y S E L L Q I C V F D V D C Q C F L L P
UniRef90_F1N6H4
UniRef90_F1N6H4

UniRef90_H2N2H0 M S F Y Q A M K K Q M M R P E L A L K M L E A Q
UniRef90_H2N2H0 M S F Y Q A M K K Q M M R P E L A L K M L E A Q
UniRef90_UPI00042C67D6
UniRef90_UPI00042C67D6

UniRef90_G3PIA0 M S V A E A V K E T W L P Y E A G Q R F L E
UniRef90_UPI0003D0F5DC L T Y K E A L E K A D F D F H T G L K L L E V S E
UniRef90_U3I034 L S V H K A I E R G L I D R T Y M Q R L L N A Q K A
UniRef90_UPI00038C2147 I P Y S E L V K K C R I D T E S G W R Y L E V I P F S D
UniRef90_T1DDD5 L S V D E S V I S G L V D Y E W K T R L L E A
UniRef90_UPI00046BF8DC Y S V K D A A E V G L L D K E T A L R I L E
UniRef90_UPI00046BF8DC Y S V K D A A E V G L L D K E T A L R I L E
UniRef90_UPI00046C05EA
UniRef90_UPI00046C05EA
UniRef90_UPI00046C0DD2
UniRef90_UPI00046C0DD2

UniRef90_I3NDR0
UniRef90_I3NDR0
UniRef90_I3NDR0

UniRef90_UPI0003EC392D V T Y Q E L Q G R S R Q E E G T G W A L F P I T
UniRef90_S7MX78
UniRef90_S7MX78

UniRef90_H2MRP5 Y D I Q D C L D R G V I D K
UniRef90_H3BCY1 I H Y K E A M A R C I K D D Y T G L L L L P A T
UniRef90_UPI0003501502 M S V V E A V N A N I I S R E M G I R C L E
UniRef90_UPI00042C1766 V T Y R Q L Q E R S Q K E A G T G W A L F P V
UniRef90_UPI0003EB0017
UniRef90_UPI0003EB0017
UniRef90_UPI0003EBDAD5

UniRef90_G3U5N8
UniRef90_G3U5N8
UniRef90_G3U5N8

UniRef90_UPI0001D5657E L S I F E A M T K G L V V E E H A I R L L E A Q
UniRef90_UPI0001D5657E L T Y K E A L E K S I F D C H T G L R L L E A T E
UniRef90_E4XW86 M Y Y C D L L K M C L F S V S K C F L L P V G E R
UniRef90_UPI00046C35B2 V S Y V T L K R Q C K V D P N T S L L L L P A
UniRef90_UPI00039563E7
UniRef90_W5KUV4
UniRef90_UPI0003C8ED04
UniRef90_UPI0003C8ED04

UniRef90_Q4SYB7 I S Y K Q A M D R C K K D I T T G L L L F P V A
UniRef90_UPI000392E349 F S V D D S V V R G L T D N E F K S R L L E A
UniRef90_UPI0003D0AEDF L T V V Q S V E R G L L D K E K A L Q L L
UniRef90_UPI0003D0AEDF L T V V Q S V E R G L L D K E K A L Q L L
UniRef90_F7GYW5 L S V D N A F R H G L I G E D
UniRef90_F7GYW5 L S V D N A F R H G L I G E D
UniRef90_B5DEA7 I S Y K E A M S R C R K D P S S G L L L L E A S
UniRef90_UPI0004432ABE I S V L K A S R R N L I D R I T A L R C L E A Q
UniRef90_UPI000441D123
UniRef90_UPI000454BEB0 L T V L Q S I D R G L L D R E E A V S L L
UniRef90_UPI0004541BEA
UniRef90_UPI0004541BEA

UniRef90_G3HN72

V T L K D A V E K R F V S P E

1 10 20 30 40
UniRef90_G3HN72 F F H P Q T K E P L S F S E A I L K L G L V S P E L K R E I Q E L Q D
UniRef90_UPI0003C272E9 V L D I K T G A E M T S Y E A Y R K N F I D K N T Y I E L S E Q E E
UniRef90_F6R8K6 N E P I S G I I I E K A D N K V S I N T A M K L G I I K T G T G L V L L E A Q A
UniRef90_H2T141
UniRef90_UPI0003C497FF
UniRef90_UPI0003C46E01 V V M P A T G E Q F T L H K A F Q R N L I S A S L F S K L L E R Q D
UniRef90_K7G531 I A G V I D Q T T T G E V F S I F Q S V L K G L I D S D T G I R L L E N Q L
UniRef90_G3NMG1 G Y R D P G T G K P L S V F Q A M K K G L I D K N T T L R L L Q A Q E
UniRef90_G3NMG1 G Y R D P G T G K P L S V F Q A M K K G L I D K N T T L R L L Q A Q E
UniRef90_G3NSD1
UniRef90_UPI0003944DEE A I S G Y I F K G K K L S V F Q A M E E R I L D R Y K A K K I L E V Q V
UniRef90_H0VH85 T E S R G P L S V L E A A I E K R I I N E R I G L K V L L E T Y L
UniRef90_H2S1W2 Y P V A G V L D T N T D T C F S V R A A S V R K L I D L T T A Q K L L E A Q A
UniRef90_I3JN16 F P I S G I F D T T T E S R M S V R S A L T R G L I D A D T A L K L L E A Q A
UniRef90_H3C7U6 S T C C I A G V Y T D Q A M P I Y R A M K E G L Q P Y S A L E L L E A Q A
UniRef90_UPI00032B02EC T G C C V A G L L L P G S Q E R L S I Y E A R G R G L L R P G T A L V L L E A Q A
UniRef90_UPI00032B02EC T G C C V A G L L L P G S Q E R L S I Y E A R G R G L L R P G T A L V L L E A Q A
UniRef90_H3D447 I V D P E T N R Q M T L R E A Y D K G Y I D S Q T F L E L A E C E W
UniRef90_UPI0003BD8735 I L D P E T G K D L S Y D A Y L Q G L I D R N Q Y I K L S E L E I
UniRef90_Q4S6R6 Y L D P E T E L N V S Y R A L I E R C L T E P H T G L Q L L P I S E
UniRef90_Q4S6R6 Y L D P E T E L N V S Y R A L I E R C L T E P H T G L Q L L P I S E
UniRef90_G3UAA1
UniRef90_UPI0003D0CA42 S R V I H G V I D P E S C T T I P Y S E L V K K C R I D I E S G W R Y L E V I
UniRef90_UPI0003D0CA42 S R V I H G V I D P E S C G E T T I P Y S E L V K K C R I D I E S G W R Y L E V I
UniRef90_F7AE13 L I I P S T G E C L T L Q E K A F Q R N L I S S S L F S K L L E R Q N
UniRef90_UPI0003D0EB9A G G I V D P R T G H R L T A E E A V R H N N L I D Q D M A C C A I L L R Q L
UniRef90_UPI0003D0EB9A G G I V D P R T G H R L T A E E A V R H N N L I D Q D M A C C A I L L R Q L
UniRef90_UPI000273C6211 G G I V D P I Q G M R V A P E L A C Q S L L D Q E T W C G L L E L G P
UniRef90_G1NMA2 L I L P S T G E H L T L Q N A F Q R N L I S P T L Y A K L L E R Q D
UniRef90_UPI0004572B3E G I K D E L T G E T L S V A E A V K A A K V D P V P A L R L L Q A Q A
UniRef90_UPI0004572B3E G I K D E L T G E T L S V A E A V K A A K V D P V P A L R L L Q A Q A
UniRef90_UPI0004572B3E G I K D E L T G E T L S V A E A V K A A K V D P V P A L R L L Q A Q A
UniRef90_H2SGU8 Y V D P E T E L N I S Y G A L K E K C C M I D A H T G L H L L P I K A
UniRef90_H2SGU8 Y V D P E T E L N I S Y G A L K E K C C M I D A H T G L H L L P I K A
UniRef90_UPI000298AD66 Y V D P E T E L N I S Y G A L K E K C C M I D A H T G L H L L P I K A
UniRef90_UPI000298AD66 Y V D P E T E L N I S Y G A L K E K C C M I D A H T G L H L L P I K A
UniRef90_UPI000273C9F1 G I I D S E N C K I V P Y S E L I K K C C K I D V E S G Q R Y L E I I
UniRef90_UPI000273C9F1 G I I D S E N C K I V P Y S E L I K K C C K I D V E S G Q R Y L E I I
UniRef90_H2L5D0 G I L D P E T G K D M S P Y D A Y I Q G L I D R P Q Y L H L L E S D W
UniRef90_UPI00038EBD00 G L L I E S T S G Q K L T V E E A L A E G V I D G N T A H G I L T Y Q V
UniRef90_F6QJW9 G L L W P E S G E I L S I A D A L E Q G G I S T E L A Y E I L S N R K
UniRef90_F6QJW9 G L L W P E S G E I L S I A D A L E Q G G I S T E L A Y E I L S N R K
UniRef90_F6QJW9 G L L W P E S G E I L S I A D A L E Q G G I S T E L A Y E I L S N R K
UniRef90_H3AVM2 S G I I D T V T G Q R L S I D E A V N R D L V A S R I A L V I L E S L W
UniRef90_H3AVM2 S G I I D T V T G Q R L S I D E A V N R D L V A S R I A L V I L E S L W
UniRef90_Q4SX19 I D G I T M T D S N E K L S I Y A Q M K D T V L Q Q N T G L A L L E A Q A
UniRef90_F6Q3X8 L I D P C T S E R V S L M D I T Q R S I L Q E N T G L R L L P V R P
UniRef90_W5P7J8 G L I W P H S G E I F P A S S L Q Q E L I T N E L A S K I L E G R Q
UniRef90_UPI000441CB62 L I D P N S A E K V S L N D L M Q R C V P H Q E T G L R L L P V K Q
UniRef90_W5L891 P I C G V F D K D T N T C L S V R M A M V R K M I D T T T A Q R L L E A Q A
UniRef90_F1RZU8 I A G R I T L R S T G E V L S I E Q A V L R G L V D Y D T G I R L L E T Q L
UniRef90_UPI00034F243E G G R I T L K C G S I S I L R A A H E G L I D R E T M F R L L G A Q L
UniRef90_UPI0003504997 I A G I I D Q T T G E V H S I F Q S T L K G F I D Y D T G V R L L E N Q L
UniRef90_F1NRP8 G L I W P D T G E I F P I S T S L H Q E M I T N E L A F K I L S D R Q
UniRef90_D2HXH0 G L L W P E S G E I L P I T D A L E Q G G I V S T E L A H K I L S G R Q
UniRef90_D2HXH0 G L L W P E S G E I L P I T D A L E Q G G I V S T E L A H K I L S G R Q
UniRef90_UPI00038ED713 G L L Q P D S G E M L P I I D A L E Q G G I S T E L A R N I L S N R Q
UniRef90_UPI00038ED713 G L L Q P D S G E M L P I I D A L E Q G G I S T E L A R N I L S N R Q
UniRef90_UPI00038ED713 G L L Q P D S G E M L P I I D A L E Q G G I S T E L A R N I L S N R Q
UniRef90_UPI000441053C G V I H P Q T G R T L T V A Q A M R E N L F P K D V G L R C C L E Y Q L
UniRef90_UPI000441053C G V I H P Q T G R T L T V A Q A M R E N L F P K D V G L R C C L E Y Q L
UniRef90_UPI0003D0E85E I A G T I N Q T T G E V L S V F Q A V L R G L I D Y E T G I R L L E A Q L
UniRef90_U3IH7 G G I V D P R T G H R L T V D E A V R H N N L I D Q D L A C C T L L I R Q L
UniRef90_U3IH7 G G I V D P R T G H R L T V D E A V R H N N L I D Q D L A C C T L L I R Q L
UniRef90_F1M118 L V V P A T G E H L T L Q K A F Q Q N L I S S A L F S K V L E R Q A
UniRef90_G1KF10 L I D P N T A E R L S L E E L D R T V I H E K T S L R F L P V M P
UniRef90_UPI0002B4B3BE G G I V D P R T G H R L T V D E A V R H N N L I D Q D L A C C T L L I R Q L
UniRef90_UPI0002B4B3BE G G I V D P R T G H R L T V D E A V R H N N L I D Q D L A C C T L L I R Q L
UniRef90_U3I7B4 K C G R K I T L R A A H E G L I D R E T M F R L L G A Q M
UniRef90_HOYSU6 G I V D P E T C M V V P Y S E F L K K C K I D I E S G Q R Y L E F Q A
UniRef90_HOYSU6 G I V D P E T C M V V P Y S E F L K K C K I D I E S G Q R Y L E F Q A
UniRef90_UPI0003C1AC02 I A G V T D V E T G E V F S V F Q S V V K G L I D Y D T G I A L L E A Q V
UniRef90_V9K808 T Q T I G G V Y D V D T D S K I S V T S A V H R N L I D P H T A V M L E A Q A
UniRef90_UPI00033458D9 G G I P Y E E T G E N L T L G E A V A K G L I E S R M A I K V M D K L G
UniRef90_UPI0004572D69 G G I P Y E E T G E N L T L G E A V A K G L I E S R M A I K V M D K L G
UniRef90_V8P219 P V V A A I E N G I S E N T G L K I A Q V Q L
UniRef90_V8P219 P V V A A I E N G I S E N T G L K I A Q V Q L
UniRef90_H9G7F6 G G L L V P D T G E K I S L S E G L A K D I D A K T Y A M L Q E M Q I
UniRef90_H9G7F6 G G L L V P D T G E K I S L S E G L A K D I D A K T Y A M L Q E M Q I
UniRef90_UPI000359598B P F Q A I K D E V T G T R L P C A E A V R L G K L D P L P A L R L L Q A Q A
UniRef90_UPI000359598B P F Q A I K D E V T G T R L P C A E A V R L G K L D P L P A L R L L Q A Q A
UniRef90_U3JCU2 D T L E K L L R Q L
UniRef90_U3JCU2 D T L E K L L R Q L
UniRef90_UPI000203D635 L I T Q L
UniRef90_UPI000203D635 L I T Q L
UniRef90_H2Z6W3 R A I T G Y R D P V T G N T L S L F E A M N K G Y V T E S R G I R L L E A Q V
UniRef90_F6Z3Y5
UniRef90_F6Z3Y5
UniRef90_G5AMJ9 G V V D P D S K A P L T V V Q S I D R G L L E K A E V I H L L T K Q V
UniRef90_UPI0001CE314F G L L W P E S G E I L P I T D A L E Q G I V S T D L A H Q I L S N R Q
UniRef90_UPI0001CE314F G L L W P E S G E I L P I T D A L E Q G I V S T D L A H Q I L S N R Q

UniRef90_G3HN72 Y S G N L G D L I Y G Q K L S L A E A I M H G V V D P E N C K T L S D I K D E V 80
UniRef90_UPI0003C272E9 S T T F L T D L K T G L Q F N I D E A L A Q G T I D R T L V N K Y K E L N S P I
UniRef90_F6R8K6 A T G N I T N P L T A E H M S V E Q A V K C G L I D S P K Y Q D A L I S E R A E K A V
UniRef90_H2T141 L L C G L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_UPI0003C497FF M C K D L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_UPI0003C46E01 I L C G L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_K7G531 S V G G I L D P V L S V F L P Q D T A I E R N L I N E E I F E K L N P L K L V F
UniRef90_G3NMG1 S V G G I L D P V L S V F L P Q D T A I E R N L I N E E I F E K L N P L K L V F
UniRef90_G3NSD1 A T G G L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_UPI0003944DEE A T G G L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_H0VH85 A T G G L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_H2S1W2 A T G G L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_I3JN16 A T G G L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_H3C7U6 A S G F I I D P V L S V F L P Q D T A I E R N L I N E E I F E K L N P L K L V F
UniRef90_UPI00032B02EC A T G F I I D P K G N R R Y S V E E A L R A G V I G P D V F A K L L S A E R A V
UniRef90_UPI00032B02EC A T G F I I D P K G N R R Y S V E E A L R A G V I G P D V F A K L L S A E R A V
UniRef90_H3D447 E E I T I V D P K G N R R Y S V E E A L R A G V I G P D V F A K L L S A E R A V
UniRef90_UPI0003BD8735 T S S G L H D R K S G D Q Y S V R D A L R E G R L T Q R D V S R Y K E G K D T T
UniRef90_Q4S6R6 K T D P S K R K D V T A Q Q L L D C G V L D R L T F D Q L V K G E K N V
UniRef90_Q4S6R6 K T D P S K R K D V T A Q Q L L D C G V L D R L T F D Q L V K G E K N V
UniRef90_G3UAA1 A T G G L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_UPI0003D0CA42 P L S D I K D E M S N K V L T P S E A I Q R G K V D F G S M L K V L E A Q D M A
UniRef90_UPI0003D0CA42 P L S D I K D E M S N K V L T P S E A I Q R G K V D F G S M L K V L E A Q D M A
UniRef90_F7AE13 I L C K L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_UPI0003D0EB9A Q T G G L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_UPI0003D0EB9A Q T G G L I D P N T A E K L S L E E M V Q R S I I S E E T Q L R L L Q E V R T L K
UniRef90_UPI00023C36211 S T S G F L D P D T P E R L P Y R E L V G R C V Q A P S T G L L L K I T F
UniRef90_G1NMA2 T C K D L I D P N C A E K I S L E Q M L H R S I I H N E T G L R L L P V K P L K
UniRef90_UPI0004572B3E D S G G I L D N T I G D R V T L A Q A E E C C Q L L E D N M I K I I V T N Q N T V
UniRef90_UPI0004572B3E D S G G I L D N T I G D R V T L A Q A E E C C Q L L E D N M I K I I V T N Q N T V
UniRef90_UPI0004572B3E D S G G I L D N T I G D R V T L A Q A E E C C Q L L E D N M I K I I V T N Q N T V
UniRef90_H2SGU8 D P S K L L F D G V R K A V T A Q Q L L D C C G V L D K L T F D D Q L I K G E K T V
UniRef90_H2SGU8 D P S K L L F D G V R K A V T A Q Q L L D C C G V L D K L T F D D Q L I K G E K T V
UniRef90_UPI000298AD66 D P S K L L F D G V R K A V T A Q Q L L D C C G V L D K L T F D D Q L I K G E K T V
UniRef90_UPI000298AD66 D P S K L L F D G V R K A V T A Q Q L L D C C G V L D K L T F D D Q L I K G E K T V
UniRef90_UPI000273C9F1 P F S D V R D G I T G K P L T L S E A A Q L L G K V E L V P M L R V L E G Q D I A
UniRef90_UPI000273C9F1 P F S D V R D G I T G K P L T L S E A A Q L L G K V E L V P M L R V L E G Q D I A
UniRef90_H2L5D0 E T S V L Q D R K S N G K Q Y P I K D E A V Q L L G K V E L V P M L R V L E G Q D I A
UniRef90_UPI00038EBD00 Q T G G I I C S P A K R L T V D E A V Q L L G K V E L V P M L R V L E G Q D I A
UniRef90_F6QJW9 Y I K A L F Q P A T T E I W S W K K A V E K G I L D K D V A K N L K S M Q L A V
UniRef90_F6QJW9 Y I K A L F Q P A T T E I W S W K K A V E K G I L D K D V A K N L K S M Q L A V
UniRef90_F6QJW9 Y I K A L F Q P A T T E I W S W K K A V E K G I L D K D V A K N L K S M Q L A V
UniRef90_H3AVM2 S F M G L L W P E S G E I L S V A D A L Q Q G I V S S E H R Q Q I R A L Y I P E
UniRef90_H3AVM2 S F M G L L W P E S G E I L S V A D A L Q Q G I V S S E H R Q Q I R A L Y I P E
UniRef90_Q4SX19 A T G F L V D P V R N L K F S V A D A L K N G V V G P E L H E K L L S A E K S V
UniRef90_F6Q3X8 Q G G R I T L K C G R N I S I L R A A H E G L I D R E T M F R L L G A Q N C N
UniRef90_W5P7J8 K T J A A L Y I P E T C Q V L D L E E A A Q S G L I D E N H T A S L L K S I T L P D
UniRef90_UPI000441CB62 L S G G M V S L Q S V G E A N I F C A V Q E G L I E K E V A V R L L N A Q K A F
UniRef90_W5L891 A T G G I I D P N N K D R Y S V H K A A D R G L I E S S Q L Q R L L N A Q K A F
UniRef90_F1RZU8 L T S G L I S P A L R K K F D L K D A Q S H G L I D E Q V L S H L Q E L N S A V
UniRef90_UPI00034F243E L S G G I I E C T S G K Q L T V E E A M A K G V I D G N T A H S I L T Y Q V Q T
UniRef90_UPI0003504997 V L T G I I S P E L G T C Y D L E E A K A C A L V D E Q T V L Q L Q E L N S A K
UniRef90_F1NRP8 K I A A L Y I P E T C E V L S L D R A A Q S G L I D E N T V S V N L N S V T
UniRef90_D2HXH0 H I K A L F L P A S T E V W S W K K A V E D G M L D K D L V N N L K S V C I P D
UniRef90_D2HXH0 H I K A L F L P A S T E V W S W K K A V E D G M L D K D L V N N L K S V C I P D
UniRef90_UPI00038ED713 H I K A L F L P A T T E I W S W K K A V E N G I L D E D L A N N L K S I C C C D V V
UniRef90_UPI00038ED713 H I K A L F L P A T T E I W S W K K A V E N G I L D E D L A N N L K S I C C C D V V
UniRef90_UPI00038ED713 H I K A L F L P A T T E I W S W K K A V E N G I L D E D L A N N L K S I C C C D V V
UniRef90_UPI000441053C A T G G L I D P E T K R K I S Y K E A L E K S V H D S H T G L L L D A T K P
UniRef90_UPI000441053C A T G G L I D P E T K R K I S Y K E A L E K S V H D S H T G L L L D A T K P
UniRef90_UPI0003D0E85E V I S G L I S P E L R K C F D L K D A E R H G L V D E Q I L G Q L K E L N E A K
UniRef90_U3IH7 Q T G G I I D T V T G E R L T I D E A V R K E L V A P R I A L V V L E S L W S F
UniRef90_U3IH7 Q T G G I I D T V T G E R L T I D E A V R K E L V A P R I A L V V L E S L W S F
UniRef90_F1M118 A C K D L I D P C S E K V S L T D M V Q R S I L Q E N T R M W L L P V Q E A K
UniRef90_G1KF10 Q E R G R L M L K S G R K I T V L R A A H E G L I A P R I A L V V L E S L W S F
UniRef90_UPI0002B4B3BE Q T G G I M D S V T G E R L T V D E A L R K G L V A P R I A L V V L E S L G S F
UniRef90_UPI0002B4B3BE Q T G G I M D S V T G E R L T V D E A L R K G L V A P R I A L V V L E S L G S F
UniRef90_U3I7B4 M S G G I T D P D S G K R L T V E E A M K Q G M I D Q D T A C G I L T H Q V P N
UniRef90_HOYSU6 I R D E V T G T K L P C A E A V R L G K V D P L P A L R L L Q A Q E G S
UniRef90_HOYSU6 I R D E V T G T K L P C A E A V R L G K V D P L P A L R L L Q A Q E G S
UniRef90_UPI0003C1AC02 I T S G L T S P E T K E C F D M E E A L K N G L I D E Q I A T Q L Q E L N S A S
UniRef90_V9K808 A T G G L V N N G S R Y K V R R A A D L G L I D D E M V Q K L S N A E S A Y
UniRef90_UPI00033458D9 I D K K T L D E L T Q G R R T A Q E G V R R F L E G A D F G A A T G F L V D P K
UniRef90_UPI0004572D69 L T G G F Y D A R T G E M I K V A D A E Q R G L I N D E F L K R I L L S E K V V
UniRef90_UPI0004572D69 L T G G F Y D A R T G E M I K V A D A E Q R G L I N D E F L K R I L L S E K V V
UniRef90_V8P219 L T G N F I D P S S H E R I G L E V A L Q K G I T N H F H E K L K S C E E A L
UniRef90_V8P219 L T G N F I D P S S H E R I G L E V A L Q K G I T N H F H E K L K S C E E A L
UniRef90_H9G7F6 L A G G L H D P S G D G R I G L E E A L Q G G M I P P H L H E K M A S C L D S C
UniRef90_H9G7F6 L A G G L H D P S G D G R I G L E E A L Q G G M I P P H L H E K M A S C L D S C
UniRef90_UPI000359598B D A G G V V E G T V S K R L S L R A A V E Q G V L D E A M A K V I A T N Q D A P
UniRef90_UPI000359598B D A G G V V E G T V S K R L S L R A A V E Q G V L D E A M A K V I A T N Q D A P
UniRef90_U3JCU2 Q S G G I S Q E Q T G R A L L L D E A L T A G L V S G H A A V K L M D R M S M F
UniRef90_U3JCU2 Q S G G I S Q E Q T G R A L L L D E A L T A G L V S G H A A V K L M D R M S M F
UniRef90_UPI000203D635 Y G G G I I N E Q T G K R M L L D E S V S C G V L P G H T A I K L M G F F D A E
UniRef90_UPI000203D635 Y G G G I I N E Q T G K R M L L D E S V S C G V L P G H T A I K L M G F F D A E
UniRef90_H2Z6W3 A T G G I V D P K A S H R V P L S E A L S A Q L L D G G I F H E Q
UniRef90_F6Z3Y5 V D G G I I H H A S G M R L S V D N A C K H G L I G E D L A K E L K K I E K P E
UniRef90_G5AMJ9 H I K A L F L P A T T E I C S W D K A I E N G I L D K D L A N N L K S V C I P D
UniRef90_UPI0001CE314F H I K A L F L P A T T E I C S W D K A I E N G I L D K D L A N N L K S V C I P D
UniRef90_UPI0001CE314F H I K A L F L P A T T E I C S W D K A I E N G I L D K D L A N N L K S V C I P D

UniRef90_G3HN72 S N K E L T L S E A L Q H G K V D F A S T L K V L E A Q A N T G G I I D T A T G
UniRef90_UPI0003C272E9 A G F R I P V L L K A S R R N L V D R E V T A L R L L E A Q A N T G G I I D D P L T G
UniRef90_F6R8K6 T G Y E L P V L Y R C A M K R G Y I V D P S H A G I R L L E A Q A N T G G I I D D L P R A K
UniRef90_H2T141 T H S R M S L S V R A A V K T R K G L I V D P D T A L K L L E A Q A N T G G I I D D L P T K K
UniRef90_UPI0003C497FF D E K M D E K V D K V I A G V I D Q T T G E V F S I F Q S V L K G G I I D S D T G G
UniRef90_UPI0003C46E01 C G R K I L S L R A A H E G L I D R E T M F R L L G A Q L L A G G I I E M P A S G
UniRef90_K7G531 K I I S L P A V A A L E Q A V I P E T L A I K I L L E A Q L S R G Y V V E P A T G G
UniRef90_G3NMG1 D G V R K P V T Q L L N C G V L D K S T K Q N V L E V S V G T G P I V I V G S Q
UniRef90_G3NMG1 D G V R K P V T Q L L N C G V L D K S T K Q N V L E V S V G T G P I V I V G S Q
UniRef90_G3NSD1 K I S F L E A A E K G F L A K T Y A L D F L E A Q A N T G S P I V I V G S Q
UniRef90_UPI0003944DEE T G T E M S A Y E A F K G K H I D K K T Y L F L S Q Q E S L H I I T D V K S G
UniRef90_H0VH85 S G R K V S I F R A A V E Q E G L D R Q V T V R L L E A Q L F A G G I V D P R T G
UniRef90_H2S1W2 T G V E L S V G E A V E K G W M P K E N A M R Y I E A Q H L T G G L V D P R T G
UniRef90_I3JN16 T G V R L A V G Q A A Q K G F I P Q E N A R R Y L E A Q Y L I G G L V D P T K A
UniRef90_H3C7U6 T G Y K I S L F Q A I E R G L V D E K G R G M R L L E A Q I A S G G V I D P N T H
UniRef90_UPI00032B02EC T T G L F D E D M N L V L L D P S D D T K G F F D P N T H
UniRef90_UPI00032B02EC T T G L F D E D M N L V L L D P S D D T K G F F D P N T H
UniRef90_H3D447 N E F S T S P V E F S S S K T L E T S G P L I I E A Q E P V G A I E D T E N L
UniRef90_UPI0003BD8735 T E S R M S V R S A L K L T R G L D A D T A L K L L E A Q A N T G G I I D D L P R T G
UniRef90_Q4S6R6 S E V K M S F T E A K K Q K M M S P E S A D L L L E A Q A N T G H L I D D P R T N
UniRef90_Q4S6R6 S E V K M S F T E A K K Q K M M S P E S A D L L L E A Q A N T G H L I D D P R T N
UniRef90_G3UAA1 T P E D I K V E E K L D K G T I D Q T T G E V L S V F A Q A V L R G L I D Y E T G
UniRef90_UPI0003D0CA42 T G K R V T L A S A L E Q K L I D E N M A R I I A S H Q V L T G G I I D I Y N D
UniRef90_UPI0003D0CA42 T G K R V T L A S A L E Q K L I D E N M A R I I A S H Q V L T G G I I D I Y N D
UniRef90_F7AE13 C G R K I T I L R A A H E G L I D R E T M F R L L G A Q L L S G G I I D S D S G
UniRef90_UPI0003D0EB9A M G E I L P I T D A L E Q G I V S N E L A H K I L H N R Q Q I E A L F L P T I T
UniRef90_UPI0003D0EB9A M G E I L P I T D A L E Q G I V S N E L A H K I L H N R Q Q I E A L F L P T I T
UniRef90_UPI00023C6211 R T L S P S L A R P L E V G V L D V E T A L P V R L E A Q D A T R M L V G P A T G
UniRef90_G1NMA2 C G R K I T I L R A A H E G L I D R E T M F R L L G A Q I T S G G I I D P E S G
UniRef90_UPI0004572B3E T G E R V A I S D A A Q S G L I S S K M A E E I I Q S S L G
UniRef90_UPI0004572B3E T G E R V A I S D A A Q S G L I S S K M A E E I I Q S S L G
UniRef90_UPI0004572B3E T G E R V A I S D A A Q S G L I S S K M A E E I I Q S S L G
UniRef90_H2SGU8 H E V K M S F T E A K K N M M S P K N A D L L L E A Q A N T G H L T D P R T G
UniRef90_H2SGU8 H E V K M S F T E A K K Q N M M S P K N A D L L L E A Q A N T G H L T D P R T G
UniRef90_UPI000298AD66 H E V K M S F T E A K K Q N M M S P K N A D L L L E A Q A N T G H L T D P R T G
UniRef90_UPI000298AD66 H E V K M S F T E A K K Q N M M S P K N A D L L L E A Q A N T G H L T D P R T G
UniRef90_UPI000273C9F1 T G K R L S L K S A L E Q K L V D E K M V R V I A T H Q I L N G G I V D V S S G
UniRef90_UPI000273C9F1 T G K R L S L K S A L E Q K L V D E K M V R V I A T H Q I L N G G I V D V S S G
UniRef90_H2L5D0 S E F A L M L A G V D K K S S I L P K S A T P V I T E E L Y P I A G V M D T N T S S
UniRef90_UPI00038EBD00 S G E I F P T S S L Q Q E I T N E L A Y K I L N F Y L M T H S Y I D V H S G
UniRef90_F6QJW9 S S E S P L G V S A L Q S G H V P G S Y H E K L L F Y L M T H S Y I D V H S G
UniRef90_F6QJW9 S S E S P L G V S A L Q S G H V P G S Y H E K L L F Y L M T H S Y I D V H S G
UniRef90_F6QJW9 S S E S P L G V S A L Q S G H V P G S Y H E K L L F Y L M T H S Y I D V H S G
UniRef90_H3AVM2 T T E I L S W E N A V R H R V L N K D V A
UniRef90_H3AVM2 T T E I L S W E N A V R H R V L N K D V A
UniRef90_Q4SX19 T G Y K I L S F Q A M S K D L V H S D H A I P L L E A Q F S T G G I I D P V S
UniRef90_F6Q3X8 S G Q R M T I E E A M A E G M L D R D T A S S L L T Y Q V Q T G G I I H S N P A
UniRef90_W5P7J8 K M P N L G D L E A C K N A R R W L S F C K F Q P S M I H D
UniRef90_UPI000441CB62 S G C R L T V E E A V R R N L I K Q N L A C D L L V R Q L Q T G G I I D T V T G
UniRef90_W5L891 S G E R L S I G E A V Q K G W M P K D T A M R Y M E A Q Y L T G G L V D P N Q A
UniRef90_F1RZU8 S P A T V P V L D A L A K G V I S E P T A I R V L E I L L S T G S L V I P A T G
UniRef90_UPI00034F243E G G I R L T V D E A V Q C N L I T S L S A L L V L E A Q Q G Y V G L I W P H T G
UniRef90_UPI0003504997 K L I S L P V V S A L E Q G L I S E P L A I K I L E E I Q L S S G H L I L P S T G
UniRef90_F1NRP8 L P D K M P N V E E L E S P C K N A A K W L S S Y E V L T S L F H D C E R E
UniRef90_D2HXH0 V M P H M Q L A D S S E R S K L N I N P G V G L P R S Q S Q T E G L V S P S
UniRef90_D2HXH0 V M P H M Q L A D S S E R S K L N I N P G V G L P R S Q S Q T E G L V S P S
UniRef90_UPI00038ED713 P N M Q L S G A A A V S K G H T E A N H G D K L L F Q L M T H S Y I N V Q N G
UniRef90_UPI00038ED713 P N M Q L S G A A A V S K G H T E A N H G D K L L F Q L M T H S Y I N V Q N G
UniRef90_UPI00038ED713 P N M Q L S G A A A V S K G H T E A N H G D K L L F Q L M T H S Y I N V Q N G
UniRef90_UPI000441053C
UniRef90_UPI000441053C

UniRef90_UPI0003D0E85E Q I I S I P V L D S L D R G V I S E S V A I R V L E I L L S T D S L V V I P A T G
UniRef90_U3IH7 T G E I I P V A D A L E Q Q I L S T E L V Y K I L S K R Q L I K A V F I P E T T
UniRef90_U3IH7 T G E I I P V A D A L E Q Q I L S T E L V Y K I L S K R Q L I K A V F I P E T T
UniRef90_F1M118 C G R S V S I L R A A H E G L I D R E T M F R L L G A Q L L S G G I I D C P N S G
UniRef90_UPI0002B4B3BE S G H R M T V E E A M G E G L I D Q D T A C A V L T H Q V Q T G G I I Q C P N S G
UniRef90_UPI0002B4B3BE T G E I I P V A D A L E Q Q I L S T E L I Q E V L S K R Q L L Q A V L T P D T T
UniRef90_U3I7B4 S G Q R L T V D E A V E Q N L I S S T S A L L V L E A A Q R G F V G L I W P H T G
UniRef90_HOYSU6 V S Q R L S L R A A V E Q G M L D E S P M A K V I A T N Q L R A G G I V D A L G G
UniRef90_HOYSU6 V S Q R L S L R A A V E Q G M L D E S P M A K V I A T N Q L R A G G I V D A L G G
UniRef90_UPI0003C1AC02 S C T T L P V V A T A F E K G I I S E S L A V K I I E I Q L A S G G L G Y T P I T G
UniRef90_V9K808 T G I E L S V A N A A Q H H L I Y T D A A E R Y L L A Q Y L T G G V D P V T G
UniRef90_UPI00033458D9 A N R R L S V Y Q A R E R G L L R P G T A L V L L E A Q A N T G F L V D P K A N
UniRef90_UPI0004572D69 Y G T V H S V S D A L R L G L L D S Y T G L S L L E G Q I V A G G L L D L K Q E
UniRef90_UPI0004572D69 Y G T V H S V S D A L R L G L L D S Y T G L S L L E G Q I V A G G L L D L K Q E
UniRef90_V8P219 T G P E A T V L S A V H E G L V E K E V T M E L L G A H L F A G G L E D P E S D
UniRef90_V8P219 T G P E A T V L S A V H E G L V E K E V T M E L L G A H L F A G G L E D P E S D
UniRef90_H9G7F6 K T L I D P L S E L Q Q Q C L P D P E T G L R L L P V H Q L A G G M V S L T S G
UniRef90_H9G7F6 K T L I D P L S E L Q Q Q C L P D P E T G L R L L P V H Q L A G G M V S L T S G
UniRef90_UPI000359598B S G K R L T V K E A V G K G L I S Q K L A
UniRef90_UPI000359598B S G K R L T V K E A V G K G L I S Q K L A
UniRef90_U3JCU2 S G F F D S Q V D V I E E G L M D E K L L Q K V L E S D K A I S G V L D P G N N
UniRef90_U3JCU2 S G F F D S Q V D V I E E G L M D E K L L Q K V L E S D K A I S G V L D P G N N
UniRef90_UPI000203D635 S C E A L T T E E V I H E G L M D E T L L Q K V L D S D Q A I S G V V D P R S K
UniRef90_UPI000203D635 S C E A L T T E E V I H E G L M D E T L L Q K V L D S D Q A I S G V V D P R S K
UniRef90_H2Z6W3 K G F N L T Y L E L L S R T R T E P E T G L V F L P L L E K K K L V D S Q T G
UniRef90_F6Z3Y5 T G Q K L L N E A V A Q G I V P S H T A V K L M E K L N M F R G F F D S Q T C
UniRef90_F6Z3Y5 T G Q K L L N E A V A Q G I V P S H T A V K L M E K L N M F R G F F D S Q T C
UniRef90_G5AMJ9 I K E T L P L S E A I K L D L V A P N F E K E I Q D I Q S F S E N F V I D L T S G
UniRef90_UPI0001CE314F V M P H M Q L A D S S E Q N N L S I N S G R E K L L F Q L M T H S Y I N V R N G
UniRef90_UPI0001CE314F V M P H M Q L A D S S E Q N N L S I N S G R E K L L F Q L M T H S Y I N V R N G

UniRef90_G3HN72
UniRef90_UPI0003C272E9
UniRef90_F6R8K6
UniRef90_H2T141
UniRef90_UPI0003C497FF
UniRef90_UPI0003C46E01
UniRef90_K7G531
UniRef90_G3NMG1
UniRef90_G3NMG1
UniRef90_G3NMG1
UniRef90_G3NSD1
UniRef90_UPI0003944DEE
UniRef90_H0VH85
UniRef90_H2S1W2
UniRef90_I3JN16
UniRef90_H3C7U6
UniRef90_UPI00032B02EC
UniRef90_UPI00032B02EC
UniRef90_H3D447
UniRef90_UPI0003BD8735
UniRef90_Q4S6R6
UniRef90_Q4S6R6
UniRef90_G3UAA1
UniRef90_UPI0003D0CA42
UniRef90_UPI0003D0CA42
UniRef90_F7AE13
UniRef90_UPI0003D0EB9A
UniRef90_UPI0003D0EB9A
UniRef90_UPI0002C36211
UniRef90_G1NMA2
UniRef90_UPI0004572B3E
UniRef90_UPI0004572B3E
UniRef90_UPI0004572B3E
UniRef90_H2SGU8
UniRef90_H2SGU8
UniRef90_UPI000298AD66
UniRef90_UPI000298AD66
UniRef90_UPI000273C9F1
UniRef90_UPI000273C9F1
UniRef90_H2L5D0
UniRef90_UPI00038EBD00
UniRef90_F6QJW9
UniRef90_F6QJW9
UniRef90_F6QJW9
UniRef90_H3AVM2
UniRef90_H3AVM2
UniRef90_Q4SX19
UniRef90_F6Q3X8
UniRef90_W5P7J8
UniRef90_UPI000441CB62
UniRef90_W5L891
UniRef90_F1RZU8
UniRef90_UPI00034F243E
UniRef90_UPI0003504997
UniRef90_F1NRP8
UniRef90_D2HXH0
UniRef90_D2HXH0
UniRef90_UPI00038ED713
UniRef90_UPI00038ED713
UniRef90_UPI00038ED713
UniRef90_UPI000441053C
UniRef90_UPI000441053C
UniRef90_UPI0003D0E85E
UniRef90_U3IH7
UniRef90_U3IH7
UniRef90_F1M118
UniRef90_G1KF10
UniRef90_UPI0002B4B3BE
UniRef90_UPI0002B4B3BE
UniRef90_U3I7B4
UniRef90_HOYSU6
UniRef90_HOYSU6
UniRef90_UPI0003C1AC02
UniRef90_V9K808
UniRef90_UPI00033458D9
UniRef90_UPI0004572D69
UniRef90_UPI0004572D69
UniRef90_V8P219
UniRef90_V8P219
UniRef90_H9G7F6
UniRef90_H9G7F6
UniRef90_UPI000359598B
UniRef90_UPI000359598B
UniRef90_U3JCU2
UniRef90_U3JCU2
UniRef90_UPI000203D635
UniRef90_UPI000203D635
UniRef90_H2Z6W3
UniRef90_F6Z3Y5
UniRef90_F6Z3Y5
UniRef90_G5AMJ9
UniRef90_UPI0001CE314F
UniRef90_UPI0001CE314F

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

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

Q R L L L L D Q E L M E T L T S R G E Y
Q R L L L L D Q E L M E T L T S R G E Y
Q R L L L L D Q E L M E T L T S R G E Y

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

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

UniRef90_G3HN72 V T L K D A V E K R F V S P E 170 180
UniRef90_UPI0003C272E9 M S A V I E A M N V N V L N K E M G V R C L E
UniRef90_F6R8K6 H T Y L D L I Q K C V R D D E T S L L F L S L K K K
UniRef90_H2T141 L A V A Q A A K K G Y M S E E N A R R Y L L A Q
UniRef90_UPI0003C497FF L Q L Q E L N N A K K T I S E S S F T S L P A
UniRef90_UPI0003C46E01 L T V D E A I Q C N L I S S S A L L V L E A Q
UniRef90_K7G531 I S L E E M V Q R S I I S E E T G L R L L P V R P Q E
UniRef90_G3NMG1 L T V E E A C A R G V V D I R E R D R L L E A A A V G Y K
UniRef90_G3NMG1 L T V E E A C A R G V V D I R E R D R L L E A A A V G Y K
UniRef90_G3NSD1 L S V F Q A M E E R I L L D R Y K G K K I L E V Q
UniRef90_UPI0003944DEE L S V F Q G F Q Q G F T D R A T A L R L L E A Q
UniRef90_H0VH85 M T L D E A V S N D L T A A K L A L V I L E S
UniRef90_H2S1W2 I S Y K Q A L D R C R T D P A S G L P V L P A
UniRef90_I3JN16 I S Y K Q A M D L C R K D I S T G L L L L P A T S
UniRef90_H3C7U6 L T Y A E L K K R C I T D K T T G L L L L P I L D E S K K
UniRef90_UPI00032B02EC Y V Q L L R R C V H D P D T G L H L L P L S G M
UniRef90_UPI00032B02EC Y V Q L L R R C V H D P D T G L H L L P L S G M
UniRef90_H3D447 L G L Q E A S R L G L I T E D M G S R L K P A Q K A
UniRef90_UPI0003BD8735 L A V G Q A A Q K G F I P Q E N A R R Y L E A Q
UniRef90_Q4S6R6 L S A G Q A V N K G L L N K D T A L R L L Q A Q Q
UniRef90_Q4S6R6 L S A G Q A V N K G L L N K D T A L R L L Q A Q Q
UniRef90_G3UAA1 V P L L D A L A Q G V I S E S M A I R V L E
UniRef90_UPI0003D0CA42
UniRef90_UPI0003D0CA42

UniRef90_F7AE13 L T V D E A V Q C N L I S S S S A L L I L E A Q
UniRef90_UPI0003D0EB9A L L F Q L M T H S Y I N A H T G Q R L L
UniRef90_UPI0003D0EB9A L L F Q L M T H S Y I N A H T G Q R L L
UniRef90_UPI0002C36211 M P L F Q A M T R E L V D R P L L R L L A A G F S D
UniRef90_G1NMA2 L T V D E A I Q C N L I S S T S A L L V L E A Q

UniRef90_UPI0004572B3E
UniRef90_UPI0004572B3E
UniRef90_UPI0004572B3E
UniRef90_H2SGU8 L S A G Q A M N K G L I N K D V A L R L L Q A Q Q A
UniRef90_H2SGU8 L S A G Q A M N K G L I N K D V A L R L L Q A Q Q A
UniRef90_UPI000298AD66 L S A G Q A M N K G L I N K D V A L R L L Q A Q Q A
UniRef90_UPI000298AD66 L S A G Q A M N K G L I N K D V A L R L L Q A Q Q A
UniRef90_UPI000273C9F1
UniRef90_UPI000273C9F1

UniRef90_H2L5D0 Y T V H K A A N R C L I E E S Q L Q R L L N A
UniRef90_UPI00038EBD00

UniRef90_F6QJW9
UniRef90_F6QJW9
UniRef90_F6QJW9
UniRef90_H3AVM2
UniRef90_H3AVM2

UniRef90_Q4SX19 V T Y H Q L V G K C V R D P T S G L C F L P L S K A E
UniRef90_F6Q3X8 F P T S S S L Q Q E L I S N E L A Y K I L
UniRef90_W5P7J8 L S Y L M I N S Y M D A N T G Q R L L
UniRef90_UPI000441CB62 V S V M D S L E Q G I L T S E
UniRef90_W5L891 I N Y K Q A L A L C K P D P Q S G L P M L L A S S K D T
UniRef90_F1RZU8 V S L D L L Q R S V L Q E N T G V R L L P V R P Q E
UniRef90_UPI00034F243E I G L D V A K Q L G I I D N N T A
UniRef90_UPI0003504997 I S L E Q M L H R S I I H D K T G L R L L S V K P Q E K
UniRef90_F1NRP8 L L L Y D
UniRef90_D2HXH0
UniRef90_D2HXH0

UniRef90_UPI00038ED713
UniRef90_UPI00038ED713
UniRef90_UPI00038ED713
UniRef90_UPI000441053C
UniRef90_UPI000441053C
UniRef90_UPI0003D0E85E V S L T D M V Q R S I L L Q E N T R M W L L P V R P Q E A
UniRef90_U3IIH7
UniRef90_U3IIH7

UniRef90_F1M118 L T V D E A V Q C E L I T S S S A L L V L E A Q
UniRef90_G1KF10 F P I S T S L H Q D M I

UniRef90_UPI0002B4B3BE
UniRef90_UPI0002B4B3BE
UniRef90_U3I7B4 L G L D Q A A Q S G L I D M N T
UniRef90_HOYSU6
UniRef90_HOYSU6

UniRef90_UPI0003C1AC02 V S L Q E L I Q R S T L H E G T G L R L L P L K
UniRef90_U9K808 I T Y K D A M D I S I S D Q E S G L L L F P V S S A Y S
UniRef90_UPI00033458D9 I S L F Q A M Q K G L I V R D H G V R L L E A
UniRef90_UPI0004572D69 L S V P E A V K K G L V E R D M V L S V L
UniRef90_UPI0004572D69 L S V P E A V K K G L V E R D M V L S V L
UniRef90_V8P219 L S L Q K A I E G G L V T S R L A V M I L E S
UniRef90_V8P219 L S L Q K A I E G G L V T S R L A V M I L E S
UniRef90_H9G7F6 L T V E E A A R H N L I D Q D L A C A L L
UniRef90_H9G7F6 L T V E E A A R H N L I D Q D L A C A L L
UniRef90_UPI000359598B
UniRef90_UPI000359598B

UniRef90_U3JCU2 V S V T L A S N L G L I E P R T E L V K L E K A S K G K
UniRef90_U3JCU2 V S V T L A S N L G L I E P R T E L V K L E K A S K G K
UniRef90_UPI000203D635 V S V T L A S K L G L V E R Q E E L K K L E K A S K G K
UniRef90_UPI000203D635 V S V T L A S K L G L V E R Q E E L K K L E K A S K G K
UniRef90_H2Z6W3

UniRef90_F6Z3Y5 Y S V K D A V T L G L L D K E T A T R I L E
UniRef90_F6Z3Y5 Y S V K D A V T L G L L D K E T A T R I L E
UniRef90_G5AMJ9 V P Y S E L V K K C K I D I E S G Q R Y L E V I P F S D
UniRef90_UPI0001CE314F
UniRef90_UPI0001CE314F

UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_A0A044QXZ3
UniRef90_A0A044QXZ3
UniRef90_K1R1R1
UniRef90_B4JW23
UniRef90_B4JW23
UniRef90_UPI0002590676
UniRef90_UPI0002590676
UniRef90_UPI0002590676
UniRef90_UPI0002590676
UniRef90_B3MHF6
UniRef90_B3MHF6
UniRef90_B3MHF6
UniRef90_B3MHF6
UniRef90_E9JDD7
UniRef90_E9JDD7
UniRef90_E9JDD7
UniRef90_E9JDD7
UniRef90_A1Z9J3
UniRef90_A1Z9J3
UniRef90_A1Z9J3
UniRef90_A1Z9J3
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_H9K375
UniRef90_W4VWW4
UniRef90_W4VWW4
UniRef90_W4VWW4
UniRef90_W4VWW4
UniRef90_W4VWW4
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_UPI0002247D22
UniRef90_UPI0002247D22
UniRef90_UPI0002247D22
UniRef90_UPI00046CCD09
UniRef90_UPI00046CCD09
UniRef90_UPI00046CCD09
UniRef90_A8XMY9
UniRef90_A8XMY9
UniRef90_E3N9Y2
UniRef90_E3N9Y2
UniRef90_E3N9Y2
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_G5EFK7
UniRef90_G5EFK7
UniRef90_G5EFK7
UniRef90_Q86NF8
UniRef90_Q86NF8
UniRef90_B4KTb3
UniRef90_B4KTb3
UniRef90_B4KTb3
UniRef90_B4KTb3
UniRef90_T1ETH1
UniRef90_E5SL94
UniRef90_E5SL94
UniRef90_E5SL94

1

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

UniRef90_X2AMI3 D P K S S G G E F F I I C L L A K A K A L L S S K E E L L L M E H T V T T T Q Q S S A Q Q S K T T
UniRef90_X2AMI3 D D P K S S G G E F F I I C L L A K A K A L L S S K E E L L L M E H T V T T T Q Q S S A Q Q S K T T
UniRef90_X2AMI3 D D P K S S G G E F F I I C L L A K A K A L L S S K E E L L L M E H T V T T T Q Q S S A Q Q S K T T
UniRef90_X2AMI3 D D P K S S G G E F F I I C L L A K A K A L L S S K E E L L L M E H T V T T T Q Q S S A Q Q S K T T
UniRef90_X2AMI3 D D P K S S G G E F F I I C L L A K A K A L L S S K E E L L L M E H T V T T T Q Q S S A Q Q S K T T
UniRef90_A0A044QXZ3 D D K R R R M R E L L S L L L E A I L D E N I I I D A E G T V L V L E R L Q K V
UniRef90_A0A044QXZ3 D D K R R R M R E L L S L L L E A I L D E N I I I D A E G T V L V L E R L Q K V
UniRef90_K1R1R1 I E N G S S Y D P S S G G K Y L S L L E Q A D K V G L L I D P D K A K T L L E R L Q K V
UniRef90_B4JW23 A A Q T F T H P T S S G E R F F L R R Q A L L E N G E L V V V K Q L S S D F F V V V
UniRef90_B4JW23 A A Q T F T H P T S S G E R F F L R R Q A L L E N G E L V V V K Q L S S D F F V V V
UniRef90_UPI0002590676 D E E E R F F K P F D D P K Y E A I I
UniRef90_UPI0002590676 D E E E R F F K P F D D P K Y E A I I
UniRef90_UPI0002590676 D E E E R F F K P F D D P K Y E A I I
UniRef90_UPI0002590676 D E E E R F F K P F D D P K Y E A I I
UniRef90_B3MHF6 A T G N L L T V I E T P P K V V Y T L L K E E A A S A G V V V D D P D S S A L V K D L L A K A K L L
UniRef90_B3MHF6 A T G N L L T V I E T P P K V V Y T L L K E E A A S A G V V V D D P D S S A L V K D L L A K A K L L
UniRef90_B3MHF6 A T G N L L T V I E T P P K V V Y T L L K E E A A S A G V V V D D P D S S A L V K D L L A K A K L L
UniRef90_B3MHF6 A T G N L L T V I E T P P K V V Y T L L K E E A A S A G V V V D D P D S S A L V K D L L A K A K L L
UniRef90_E9JDD7 S S S G F F V I D D P H H G R K K V S L L V R S L L E K N I L D S T G H Y C C Y P P Q Q
UniRef90_E9JDD7 S S S G F F V I D D P H H G R K K V S L L V R S L L E K N I L D S T G H Y C C Y P P Q Q
UniRef90_E9JDD7 S S S G F F V I D D P H H G R K K V S L L V R S L L E K N I L D S T G H Y C C Y P P Q Q
UniRef90_E9JDD7 S S S G F F V I D D P H H G R K K V S L L V R S L L E K N I L D S T G H Y C C Y P P Q Q
UniRef90_A1Z9J3 L L S D D P R T T G R Q I T L L L E S M R S F F V V V N P H L L P C C Y F D D E E Q Q
UniRef90_A1Z9J3 L L S D D P R T T G R Q I T L L L E S M R S F F V V V N P H L L P C C Y F D D E E Q Q
UniRef90_A1Z9J3 L L S D D P R T T G R Q I T L L L E S M R S F F V V V N P H L L P C C Y F D D E E Q Q
UniRef90_A1Z9J3 L L S D D P R T T G R Q I T L L L E S M R S F F V V V N P H L L P C C Y F D D E E Q Q
UniRef90_B4HQY4 I R A G S S Q E P V V D S V L L T T F T E A V R R Q G G F I D E E R R Q L L F F K D D P K
UniRef90_B4HQY4 I R A G S S Q E P V V D S V L L T T F T E A V R R Q G G F I D E E R R Q L L F F K D D P K
UniRef90_B4HQY4 I R A G S S Q E P V V D S V L L T T F T E A V R R Q G G F I D E E R R Q L L F F K D D P K
UniRef90_B4HQY4 I R A G S S Q E P V V D S V L L T T F T E A V R R Q G G F I D E E R R Q L L F F K D D P K
UniRef90_B4HQY4 I R A G S S Q E P V V D S V L L T T F T E A V R R Q G G F I D E E R R Q L L F F K D D P K
UniRef90_H9K375 P T G R I V K D P T T G K D I G I A E A V N R R G I L L N T N T C C C E Y K I D D D
UniRef90_W4VWW4 I V K D P T T G K D I G I A E A V N R R G I L L N T N T C C C E Y K I D D D
UniRef90_W4VWW4 I V K D P T T G K D I G I A E A V N R R G I L L N T N T C C C E Y K I D D D
UniRef90_W4VWW4 I V K D P T T G K D I G I A E A V N R R G I L L N T N T C C C E Y K I D D D
UniRef90_W4VWW4 I V K D P T T G K D I G I A E A V N R R G I L L N T N T C C C E Y K I D D D
UniRef90_B4N5W8 S K G R V F D P K S K S A Y N Y D V A L S R R G I L L V G E V V R R R Q Q D S V V E I L I S S
UniRef90_B4N5W8 S K G R V F D P K S K S A Y N Y D V A L S R R G I L L V G E V V R R R Q Q D S V V E I L I S S
UniRef90_B4N5W8 S K G R V F D P K S K S A Y N Y D V A L S R R G I L L V G E V V R R R Q Q D S V V E I L I S S
UniRef90_B4N5W8 S K G R V F D P K S K S A Y N Y D V A L S R R G I L L V G E V V R R R Q Q D S V V E I L I S S
UniRef90_B4N5W8 S K G R V F D P K S K S A Y N Y D V A L S R R G I L L V G E V V R R R Q Q D S V V E I L I S S
UniRef90_UPI0002247D22 I G Y M V D P K S G K K I N F F D A I Q R R D W I L E K T P I S I E E E
UniRef90_UPI0002247D22 I G Y M V D P K S G K K I N F F D A I Q R R D W I L E K T P I S I E E E
UniRef90_UPI0002247D22 I G Y M V D P K S G K K I N F F D A I Q R R D W I L E K T P I S I E E E
UniRef90_UPI00046CCD09 I I D P N N R R S I T L H E A M R K K C C C I N P T L S C C W D K R A E E R
UniRef90_UPI00046CCD09 I I D P N N R R S I T L H E A M R K K C C C I N P T L S C C W D K R A E E R
UniRef90_UPI00046CCD09 I I D P N N R R S I T L H E A M R K K C C C I N P T L S C C W D K R A E E R
UniRef90_A8XMY9 T N G K I S A P N V E R V L S F A E G I E L G I I D A S T T I Q Q V V S N A
UniRef90_A8XMY9 T N G K I S A P N V E R V L S F A E G I E L G I I D A S T T I Q Q V V S N A
UniRef90_E3N9Y2 V R D K R N N R V M T L E E E A R K L G I V D K K T Y Q V F R N I I Q Q N A V
UniRef90_E3N9Y2 V R D K R N N R V M T L E E E A R K L G I V D K K T Y Q V F R N I I Q Q N A V
UniRef90_E3N9Y2 V R D K R N N R V M T L E E E A R K L G I V D K K T Y Q V F R N I I Q Q N A V
UniRef90_E3N9Y2 V R D K R N N R V M T L E E E A R K L G I V D K K T Y Q V F R N I I Q Q N A V
UniRef90_UPI0003DEB460 R R G R I T C C S R D G Q R K S V E E E A A R E K M I E T R L A D R L L L P C C C G Y D E
UniRef90_UPI0003DEB460 R R G R I T C C S R D G Q R K S V E E E A A R E K M I E T R L A D R L L L P C C C G Y D E
UniRef90_UPI0003DEB460 R R G R I T C C S R D G Q R K S V E E E A A R E K M I E T R L A D R L L L P C C C G Y D E
UniRef90_UPI0003DEB460 R R G R I T C C S R D G Q R K S V E E E A A R E K M I E T R L A D R L L L P C C C G Y D E
UniRef90_UPI0003DEB460 R R G R I T C C S R D G Q R K S V E E E A A R E K M I E T R L A D R L L L P C C C G Y D E
UniRef90_B5E0Y2 F K D P K K T G N I Y S V Q Q A L N F G L L V P Q T V P E I T T N R R K K T K
UniRef90_B5E0Y2 F K D P K K T G N I Y S V Q Q A L N F G L L V P Q T V P E I T T N R R K K T K
UniRef90_B5E0Y2 F K D P K K T G N I Y S V Q Q A L N F G L L V P Q T V P E I T T N R R K K T K
UniRef90_B5E0Y2 F K D P K K T G N I Y S V Q Q A L N F G L L V P Q T V P E I T T N R R K K T K
UniRef90_B5E0Y2 F K D P K K T G N I Y S V Q Q A L N F G L L V P Q T V P E I T T N R R K K T K
UniRef90_E2AVR2 S S K T D L Y V K L R E A I S R P L I D R N I A Y M V D P P K
UniRef90_E2AVR2 S S S K T D L Y V K L R E A I S R P L I D R N I A Y M V D D P P K
UniRef90_E2AVR2 S S S K T D L Y V K L R E A I S R P L I D R N I A Y M V D D P P K
UniRef90_E2AVR2 S S S K T D L Y V K L R E A I S R P L I D R N I A Y M V D D P P K
UniRef90_A0A026WBNO V L V K D L S S K T E S Y V N L R E A I S R P L V D R N I A Y M V N P P K
UniRef90_A0A026WBNO V L V K D L S S K T E S Y V N L R E A I S R P L V D R N I A Y M V N P P K
UniRef90_A0A026WBNO V L V K D L S S K T E S Y V N L R E A I S R P L V D R N I A Y M V N P P K
UniRef90_A0A026WBNO V L V K D L S S K T E S Y V N L R E A I S R P L V D R N I A Y M V N P P K
UniRef90_A0A026WBNO V L V K D L S S K T E S Y V N L R E A I S R P L V D R N I A Y M V N P P K
UniRef90_U4UQ65 T T G C C F T D P I D R K K L T L V E A I D E N L V D P S T T V V V K D L D D
UniRef90_U4UQ65 T T G C C F T D P I D R K K L T L V E A I D E N L V D P S T T V V V K D L D D
UniRef90_U4UQ65 T T G C C F T D P I D R K K L T L V E A I D E N L V D P S T T V V V K D L D D
UniRef90_U4UQ65 T T G C C F T D P I D R K K L T L V E A I D E N L V D P S T T V V V K D L D D
UniRef90_U4UQ65 T T G C C F T D P I D R K K L T L V E A I D E N L V D P S T T V V V K D L D D
UniRef90_G5EFK7 I V D P I G D R K I S V E D E M E E T I T N T Q F Y E M E G N L N K K
UniRef90_G5EFK7 I V D P I G D R K I S V E D E M E E T I T N T Q F Y E M E G N L N K K
UniRef90_G5EFK7 I V D P I G D R K I S V E D E M E E T I T N T Q F Y E M E G N L N K K
UniRef90_Q86NF8 Q E S F L I T D D R A K N L I E V A L H E L L T T P V G I K N D R G A
UniRef90_Q86NF8 Q E S F L I T D D R A K N L I E V A L H E L L T T P V G I K N D R G A
UniRef90_B4KTb3 Y E S G L I C C T P K R S F G L L E A I T F N L Y N P T N G C C L V D D P F Q D I I I
UniRef90_B4KTb3 Y E S G L I C C T P K R S F G L L E A I T F N L Y N P T N G C C L V D D P F Q D I I I
UniRef90_B4KTb3 Y E S G L I C C T P K R S F G L L E A I T F N L Y N P T N G C C L V D D P F Q D I I I
UniRef90_B4KTb3 Y E S G L I C C T P K R S F G L L E A I T F N L Y N P T N G C C L V D D P F Q D I I I
UniRef90_T1ETH1 I I V G A L D P V T A E K L N L Q E A I R R N I I D I Q T G E Y I N E S K G
UniRef90_E5SL94 N D S Y M L D E I P Q Q D C C S I V D S A V P S G L I K K D H H H Q S S R S T S A T
UniRef90_E5SL94 N D S Y M L D E I P Q Q D C C S I V D S A V P S G L I K K D H H H Q S S R S T S A T
UniRef90_E5SL94 N D S Y M L D E I P Q Q D C C S I V D S A V P S G L I K K D H H H Q S S R S T S A T

UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_A0A044QXZ3
UniRef90_A0A044QXZ3
UniRef90_K1R1R1
UniRef90_B4JW23
UniRef90_B4JW23
UniRef90_UPI0002590676
UniRef90_UPI0002590676
UniRef90_UPI0002590676
UniRef90_UPI0002590676
UniRef90_B3MHF6
UniRef90_B3MHF6
UniRef90_B3MHF6
UniRef90_B3MHF6
UniRef90_E9JDD7
UniRef90_E9JDD7
UniRef90_E9JDD7
UniRef90_E9JDD7
UniRef90_A1Z9J3
UniRef90_A1Z9J3
UniRef90_A1Z9J3
UniRef90_A1Z9J3
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_H9K375
UniRef90_W4VWV4
UniRef90_W4VWV4
UniRef90_W4VWV4
UniRef90_W4VWV4
UniRef90_W4VWV4
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_UPI0002247D22
UniRef90_UPI0002247D22
UniRef90_UPI0002247D22
UniRef90_UPI00046CCD09
UniRef90_UPI00046CCD09
UniRef90_UPI00046CCD09
UniRef90_UPI00046CCD09
UniRef90_A8XMY9
UniRef90_A8XMY9
UniRef90_E3N9Y2
UniRef90_E3N9Y2
UniRef90_E3N9Y2
UniRef90_E3N9Y2
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_G5EFK7
UniRef90_G5EFK7
UniRef90_G5EFK7
UniRef90_G5EFK7
UniRef90_Q86NF8
UniRef90_Q86NF8
UniRef90_B4KTb3
UniRef90_B4KTb3
UniRef90_B4KTb3
UniRef90_B4KTb3
UniRef90_T1ETH1
UniRef90_E5SL94
UniRef90_E5SL94
UniRef90_E5SL94

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

UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_X2AMI3
UniRef90_A0A044QXZ3
UniRef90_A0A044QXZ3
UniRef90_K1R1R1
UniRef90_B4JW23
UniRef90_B4JW23
UniRef90_UPI0002590676
UniRef90_UPI0002590676
UniRef90_UPI0002590676
UniRef90_UPI0002590676
UniRef90_B3MHF6
UniRef90_B3MHF6
UniRef90_B3MHF6
UniRef90_B3MHF6
UniRef90_E9JDD7
UniRef90_E9JDD7
UniRef90_E9JDD7
UniRef90_E9JDD7
UniRef90_E9JDD7
UniRef90_A1Z9J3
UniRef90_A1Z9J3
UniRef90_A1Z9J3
UniRef90_A1Z9J3
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_B4HQY4
UniRef90_H9K375
UniRef90_W4VWV4
UniRef90_W4VWV4
UniRef90_W4VWV4
UniRef90_W4VWV4
UniRef90_W4VWV4
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_B4N5W8
UniRef90_UPI0002247D22
UniRef90_UPI0002247D22
UniRef90_UPI0002247D22
UniRef90_UPI00046CCD09
UniRef90_UPI00046CCD09
UniRef90_UPI00046CCD09
UniRef90_A8XMY9
UniRef90_A8XMY9
UniRef90_E3N9Y2
UniRef90_E3N9Y2
UniRef90_E3N9Y2
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_UPI0003DEB460
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_B5E0Y2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_E2AVR2
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_A0A026WBNO
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_U4UQ65
UniRef90_G5EFK7
UniRef90_G5EFK7
UniRef90_G5EFK7
UniRef90_Q86NF8
UniRef90_Q86NF8
UniRef90_B4KTB3
UniRef90_B4KTB3
UniRef90_B4KTB3
UniRef90_B4KTB3
UniRef90_T1ETH1
UniRef90_E5SL94
UniRef90_E5SL94
UniRef90_E5SL94

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

UniRef90_X2AMI3 N N L V T Q R D K G T V I I N S N V I L F P P
 UniRef90_X2AMI3 N N L V T Q R D K G T V I I N S N V I L F P P
 UniRef90_X2AMI3 N N L V T Q R D K G T V I I N S N V I L F P P
 UniRef90_X2AMI3 N N L V T Q R D K G T V I I N S N V I L F P P
 UniRef90_X2AMI3 N N L V T Q R D K G T V I I N S N V I L F P P
 UniRef90_A0A044QXZ3 L P Y N T A V T N K I I D P V K G G I
 UniRef90_A0A044QXZ3 L P Y N T A V T N K I I D P V K G G I
 UniRef90_K1R1R1 I T I Q E A M D R G L L H P E

UniRef90_UPI0002590676 L N I G E A V E R G V L D P V S A D V L V P L A
 UniRef90_UPI0002590676 L N I G E A V E R G V L D P V S A D V L V P L A
 UniRef90_UPI0002590676 L N I G E A V E R G V L D P V S A D V L V P L A
 UniRef90_UPI0002590676 L N I G E A V E R G V L D P V S A D V L V P L A
 UniRef90_B3MHF6 F T L A E A I G S G L V D P S S S
 UniRef90_B3MHF6 F T L A E A I G S G L V D P S S S
 UniRef90_B3MHF6 F T L A E A I G S G L V D P S S S
 UniRef90_B3MHF6 F T L A E A I G S G L V D P S S S

UniRef90_E9JDD7 I S M T E A I N R G I L L
 UniRef90_E9JDD7 I S M T E A I N R G I L L
 UniRef90_E9JDD7 I S M T E A I N R G I L L
 UniRef90_E9JDD7 I S M T E A I N R G I L L
 UniRef90_E9JDD7 I S M T E A I N R G I L L
 UniRef90_A1Z9J3 L N L N E A C V E D V V H H E T G K Y L
 UniRef90_A1Z9J3 L N L N E A C C V E D V V H H E T G K Y L
 UniRef90_A1Z9J3 L N L N E A C C V E D V V H H E T G K Y L
 UniRef90_A1Z9J3 L N L N E A C C V E D V V H H E T G K Y L

UniRef90_B4HQY4 W R L K D A I E Q R L F N P D T G
 UniRef90_B4HQY4 W R L K D A I E Q R L F N P D T G
 UniRef90_B4HQY4 W R L K D A I E Q R L F N P D T G
 UniRef90_B4HQY4 W R L K D A I E Q R L F N P D T G
 UniRef90_B4HQY4 W R L K D A I E Q R L F N P D T G
 UniRef90_H9K375 E T L R G A I E S D L V D P D R S L
 UniRef90_W4VWW4 V I V K
 UniRef90_W4VWW4 V I V K
 UniRef90_W4VWW4 V I V K
 UniRef90_W4VWW4 V I V K
 UniRef90_W4VWW4 V I V K

UniRef90_B4N5W8 Y T L K D A A G S G I I D P D S A L L
 UniRef90_B4N5W8 Y T L K D A A G S G I I D P D S A L L
 UniRef90_B4N5W8 Y T L K D A A G S G I I D P D S A L L
 UniRef90_B4N5W8 Y T L K D A A G S G I I D P D S A L L
 UniRef90_B4N5W8 Y T L K D A A G S G I I D P D S A L L
 UniRef90_UPI0002247D22 I P L E E A I K M G V F D S D R G I
 UniRef90_UPI0002247D22 I P L E E A I K M G V F D S D R G I
 UniRef90_UPI0002247D22 I P L E E A I K M G V F D S D R G I
 UniRef90_UPI00046CCD09 L S I E D A V K C Y L Y E K E S G K F I D P L
 UniRef90_UPI00046CCD09 L S I E D A V K C C Y L Y E K E S G K F I D P L
 UniRef90_UPI00046CCD09 L S I E D A V K C C Y L Y E K E S G K F I D P L

UniRef90_A8XMY9 L T L E R A L A T G K L A P E
 UniRef90_A8XMY9 L T L E R A L A T G K L A P E
 UniRef90_E3N9Y2 I D I K R G I E L R I I D A R T G
 UniRef90_E3N9Y2 I D I K R G I E L R I I D A R T G
 UniRef90_E3N9Y2 I D I K R G I E L R I I D A R T G
 UniRef90_E3N9Y2 I D I K R G I E L R I I D A R T G
 UniRef90_UPI0003DEB460 H S L A E A V E K G I L D P S
 UniRef90_UPI0003DEB460 H S L A E A V E K G I L D P S
 UniRef90_UPI0003DEB460 H S L A E A V E K G I L D P S
 UniRef90_UPI0003DEB460 H S L A E A V E K G I L D P S
 UniRef90_UPI0003DEB460 H S L A E A V E K G I L D P S

UniRef90_B5E0Y2 L K D A I E Q R L F N P D T G
 UniRef90_B5E0Y2 L K D A I E Q R L F N P D T G
 UniRef90_B5E0Y2 L K D A I E Q R L F N P D T G
 UniRef90_B5E0Y2 L K D A I E Q R L F N P D T G
 UniRef90_B5E0Y2 L K D A I E Q R L F N P D T G
 UniRef90_E2AVR2 L S M S E A I D M G L I D P E
 UniRef90_E2AVR2 L S M S E A I D M G L I D P E
 UniRef90_E2AVR2 L S M S E A I D M G L I D P E
 UniRef90_E2AVR2 L S M S E A I D M G L I D P E
 UniRef90_E2AVR2 L S M S E A I D M G L I D P E
 UniRef90_A0A026WBNO M S M S E A I D V G R I D A D T
 UniRef90_A0A026WBNO M S M S E A I D V G R I D A D T
 UniRef90_A0A026WBNO M S M S E A I D V G R I D A D T
 UniRef90_A0A026WBNO M S M S E A I D V G R I D A D T
 UniRef90_A0A026WBNO M S M S E A I D V G R I D A D T

UniRef90_U4UQ65
 UniRef90_U4UQ65
 UniRef90_U4UQ65
 UniRef90_U4UQ65
 UniRef90_G5EFK7 I T L S E A I R I G L Y D S N
 UniRef90_G5EFK7 I T L S E A I R I G L Y D S N
 UniRef90_G5EFK7 I T L S E A I R I G L Y D S N
 UniRef90_Q86NF8 V T L Q D A M R Q G L V
 UniRef90_Q86NF8 V T L Q D A M R Q G L V
 UniRef90_Q86NF8 V T L Q D A M R Q G L V
 UniRef90_Q86NF8 V T L Q D A M R Q G L V
 UniRef90_Q86NF8 V T L Q D A M R Q G L V

UniRef90_B4KT3
 UniRef90_B4KT3
 UniRef90_B4KT3
 UniRef90_B4KT3
 UniRef90_T1ETH1 V Y A V D A I R R G L I
 UniRef90_E5SL94 M T L A E A L H Q G L V D P
 UniRef90_E5SL94 M T L A E A L H Q G L V D P
 UniRef90_E5SL94 M T L A E A L H Q G L V D P

UniRef90_K7H521
UniRef90_K7H521
UniRef90_G6CMU7
UniRef90_G6CMU7
UniRef90_G6CMU7
UniRef90_G6CMU7
UniRef90_G6CMU7
UniRef90_G6CMU7
UniRef90_K7H523
UniRef90_K7H523
UniRef90_K7H523
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_H9KKA0
UniRef90_H9KKA0
UniRef90_H9KKA0
UniRef90_UPI0003C39176
UniRef90_UPI0003C39176
UniRef90_UPI0003C39176
UniRef90_UPI0003C39176
UniRef90_T1PMW5
UniRef90_T1PMW5
UniRef90_T1PMW5
UniRef90_J9EUK6
UniRef90_D6WPG8
UniRef90_D6WPG8
UniRef90_D6WPG8
UniRef90_D6WPG8
UniRef90_D6WPG8
UniRef90_D6WPG8
UniRef90_A0A023EWU5
UniRef90_T1L585
UniRef90_H9J4H4
UniRef90_H9J4H4
UniRef90_H9J4H4
UniRef90_Q17GY9
UniRef90_Q17GY9
UniRef90_Q17GY9
UniRef90_Q17GY9
UniRef90_E0VIH8
UniRef90_E0VIH8
UniRef90_E0VIH8
UniRef90_E0VIH8
UniRef90_B4JW24
UniRef90_B4JW24
UniRef90_L7MAF0
UniRef90_Q7Q2Y5
UniRef90_Q7Q2Y5
UniRef90_Q7Q2Y5
UniRef90_Q7Q2Y5
UniRef90_B0W7C6
UniRef90_B0W7C6
UniRef90_B0W7C6
UniRef90_B0W7C6
UniRef90_B0W7C6
UniRef90_V5FZX7
UniRef90_V5FZX7
UniRef90_V5FZX7
UniRef90_B4LJF5
UniRef90_B4LJF5
UniRef90_B4LJF5
UniRef90_A0A034VHZ4
UniRef90_V5HG79
UniRef90_UPI000329CB32
UniRef90_UPI000329CB32
UniRef90_UPI000329CB32
UniRef90_W5JUD2
UniRef90_W5JUD2
UniRef90_W5JUD2
UniRef90_W5JUD2
UniRef90_V5GSN6
UniRef90_H3FZF0
UniRef90_H3FZF0
UniRef90_W8APG4
UniRef90_W8APG4
UniRef90_W8APG4
UniRef90_W8APG4
UniRef90_B4QEV5
UniRef90_A0A034VKQ5
UniRef90_T1FTT7
UniRef90_U6JHX0
UniRef90_J9ECJ7
UniRef90_T1G1B5
UniRef90_UPI0001A61FAA
UniRef90_UPI0003DF7C18
UniRef90_UPI00046B84F0
UniRef90_UPI00035981A0
UniRef90_G7YSW5

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

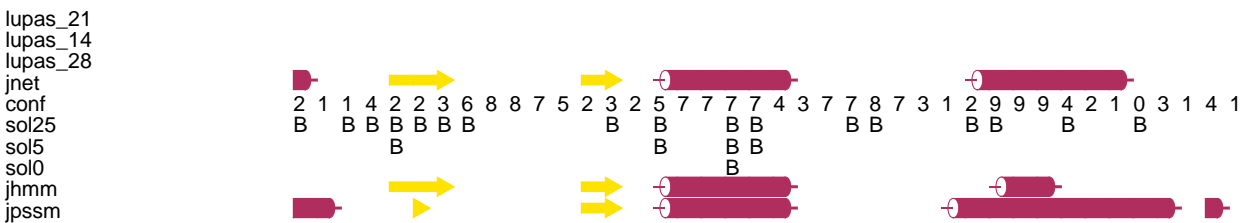
UniRef90_K7H521
UniRef90_K7H521
UniRef90_G6CMU7
UniRef90_G6CMU7
UniRef90_G6CMU7
UniRef90_G6CMU7
UniRef90_G6CMU7
UniRef90_G6CMU7
UniRef90_K7H523
UniRef90_K7H523
UniRef90_K7H523
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_K1PNP9
UniRef90_H9KKA0
UniRef90_H9KKA0
UniRef90_H9KKA0
UniRef90_UPI0003C39176
UniRef90_UPI0003C39176
UniRef90_UPI0003C39176
UniRef90_UPI0003C39176
UniRef90_T1PMW5
UniRef90_T1PMW5
UniRef90_T1PMW5
UniRef90_J9EUK6
UniRef90_D6WPG8
UniRef90_D6WPG8
UniRef90_D6WPG8
UniRef90_D6WPG8
UniRef90_D6WPG8
UniRef90_A0A023EWU5
UniRef90_T1L585
UniRef90_H9J4H4
UniRef90_H9J4H4
UniRef90_H9J4H4
UniRef90_H9J4H4
UniRef90_Q17GY9
UniRef90_Q17GY9
UniRef90_Q17GY9
UniRef90_Q17GY9
UniRef90_E0VIH8
UniRef90_E0VIH8
UniRef90_E0VIH8
UniRef90_E0VIH8
UniRef90_B4JW24
UniRef90_B4JW24
UniRef90_L7MAF0
UniRef90_Q7Q2Y5
UniRef90_Q7Q2Y5
UniRef90_Q7Q2Y5
UniRef90_Q7Q2Y5
UniRef90_B0W7C6
UniRef90_B0W7C6
UniRef90_B0W7C6
UniRef90_B0W7C6
UniRef90_B0W7C6
UniRef90_V5FZX7
UniRef90_V5FZX7
UniRef90_V5FZX7
UniRef90_B4LJF5
UniRef90_B4LJF5
UniRef90_B4LJF5
UniRef90_A0A034VHZ4
UniRef90_V5HG79
UniRef90_UPI000329CB32
UniRef90_UPI000329CB32
UniRef90_UPI000329CB32
UniRef90_W5JUD2
UniRef90_W5JUD2
UniRef90_W5JUD2
UniRef90_W5JUD2
UniRef90_V5GSN6
UniRef90_H3FZF0
UniRef90_H3FZF0
UniRef90_W8APG4
UniRef90_W8APG4
UniRef90_W8APG4
UniRef90_W8APG4
UniRef90_B4QEV5
UniRef90_A0A034VKQ5
UniRef90_T1FTT7
UniRef90_U6JHX0
UniRef90_J9ECJ7
UniRef90_T1G1B5
UniRef90_UPI0001A61FAA
UniRef90_UPI0003DF7C18
UniRef90_UPI00046B84F0
UniRef90_UPI00035981A0
UniRef90_G7YSW5

170 180
L S D A V K S G R L
L S D A V K S G R L
L N V L D A V F K N V L D P K S G Y L L D S A T K K
L N V L D A V F K N V L D P K S G Y L L D S A T K K
L N V L D A V F K N V L D P K S G Y L L D S A T K K
L N V L D A V F K N V L D P K S G Y L L D S A T K K
L N V L D A V F K N V L D P K S G Y L L D S A T K K
L N V L D A V F K N V L D P K S G Y L L D S A T K K
V T
V T
V T

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

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

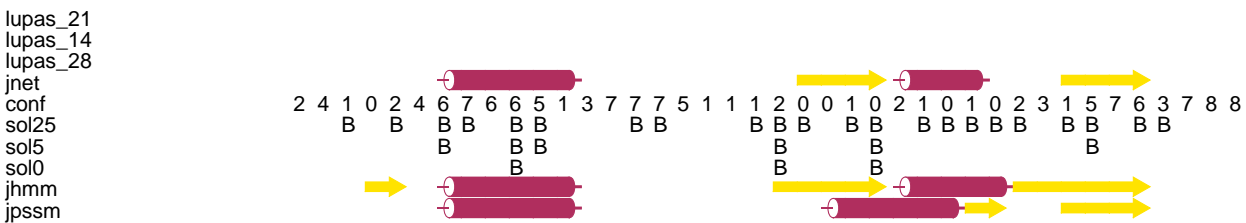
	50	60	70	80
UniRef90_A8QB56	L E R F F I D L V A G E S L I K E Q I L E R F F I D L	K M A F A E A L S K G M I D V	A Q N Q F T D S D	
UniRef90_M1BV45	F S K R L L D P K K S L R L S R Q E A F S K R L L C A R V P V P V L S T E D P K			
UniRef90_UPI000273C4A3				
UniRef90_K7JAA9	G I L H P L S K E M L T V G E A M S L G I L D I R T G R I A S S A D			
UniRef90_D6WT41	A T G N I V D P T T G Q I T V T G G P V I D P A T G K P D N T L G Q V F			
UniRef90_A0A034V2T4	R T G E L I D P K T G K I L V V T K N V K V D P S T G Q I L L G V T D P K			



UniRef90_A8QB56
 UniRef90_M1BV45
 UniRef90_UPI000273C4A3
 UniRef90_K7JAA9
 UniRef90_D6WT41
 UniRef90_A0A034V2T4

```

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



UniRef90_A8QB56
 UniRef90_M1BV45
 UniRef90_UPI000273C4A3
 UniRef90_K7JAA9
 UniRef90_D6WT41
 UniRef90_A0A034V2T4

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

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm

