

QUERY
UniRef90_I31AN6
UniRef90_UPI00037E1D19
UniRef90_UPI0002F2A6A4
UniRef90_C1DN28
UniRef90_E3G9J9
UniRef90_W1IU25
UniRef90_UPI00046EE7A9
UniRef90_Q2SD46
UniRef90_UPI0003799E24
UniRef90_UPI0004710133
UniRef90_M1FET8
UniRef90_N6WQL0
UniRef90_UPI00041BDA68
UniRef90_UPI0002559FAD
UniRef90_I2JK46
UniRef90_COAVK7
UniRef90_UPI00036C6E27
UniRef90_UPI00031A9E0E
UniRef90_Q1LU19
UniRef90_UPI0003A35423
UniRef90_R9PR99
UniRef90_A4A3M3
UniRef90_B7RUP9
UniRef90_UPI0002F36555
UniRef90_UPI00036EB176
UniRef90_A0YC56
UniRef90_U3B7F2
UniRef90_C4K4K3
UniRef90_Q21J19
UniRef90_A3Y9H5
UniRef90_Q12L81
UniRef90_F3LDG4
UniRef90_R8ATV4
UniRef90_UPI0004655133
UniRef90_UPI0002E190E8
UniRef90_J3VSJ7
UniRef90_M0QA50
UniRef90_D2TXD8
UniRef90_UPI0003B3CBEA
UniRef90_UPI000377127D
UniRef90_UPI00036AB998
UniRef90_UPI00037245BA
UniRef90_UPI000471B8B8
UniRef90_S3DG52
UniRef90_M1SIJ8
UniRef90_Q080K8
UniRef90_E1VP70
UniRef90_Q5E3L0
UniRef90_X2H1Y2
UniRef90_H5TAA2
UniRef90_UPI0004662556
UniRef90_UPI0003794079
UniRef90_F3KBM4
UniRef90_N9VNY3
UniRef90_A1S5R6
UniRef90_UPI0002FD0B5B
UniRef90_F7P100
UniRef90_H2FT09
UniRef90_U7NEJ7
UniRef90_J3VUF4
UniRef90_E0WUD6
UniRef90_K2J0W8
UniRef90_UPI00030C0F06
UniRef90_UPI00037D7515
UniRef90_E1SMV1
UniRef90_Q47YH9
UniRef90_K4KTLO
UniRef90_Q1N5K2
UniRef90_H3NUI8
UniRef90_UPI000367BCB1
UniRef90_V5AFP6
UniRef90_UPI000376E591
UniRef90_UPI0002559BA0
UniRef90_K2C8U4
UniRef90_H1G2U8
UniRef90_W9V5I7
UniRef90_UPI00034C35FC
UniRef90_B8GTL1
UniRef90_UPI00046501F7
UniRef90_UPI0000E0E9CE
UniRef90_Q2BJC2
UniRef90_K6Y635
UniRef90_UPI00036DF1E8
UniRef90_UPI000348B95A
UniRef90_UPI00035F84C6
UniRef90_A9KCS1
UniRef90_UPI00047A9CCD
UniRef90_UPI00046D8C22
UniRef90_K2GFY7
UniRef90_UPI00035C6695
UniRef90_A6FI29

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

QUERY	50	60	70	80
UniRef90_I3IAN6	H R Y S D E A K S G G E G A P A L L F F S	M A N N M V K P	G G T F D L D D M D E F F E T T T P	G V V T L L F F
UniRef90_UPI00037E1D19	H R H A R E A S G T G E V L F F S	L A N M V K P	P G G T F D L D D M A S Q F F T T P	Q G V S L L F F
UniRef90_UPI0002F2A6A4	H R H E S L J A G N G G E V L F F S	M A N A L K P	P G G T F D D D D I L H F F S T T R	A G V S F F F
UniRef90_C1DN28	H R H L S P G S G S G A V L F F S	L A N M V K P	P G G T F D P D E M A D D F M A T T P	P G I S T T M F
UniRef90_E3G9J9	H R H L D P S G S G S G P V L F F S	L A N M V K P	P G S F D P E M G D F T T T P	G V S I F
UniRef90_W1IU25	H R H L N P S G S G S G P V L F F S	L A N M M K P	P G S F D P E M G D F T T T P	G V S I F
UniRef90_UPI00046EE7A9	H R H E Y D F D E G G P V L F F S	M A N A R E P	P G V F G Q D M A T Q R T F T P	G V C F F F
UniRef90_Q2SD46	H R H E Y D F D E G G P V L F F S	M A N A R E P	P G V F G Q D M A T Q R T F T P	G V C F F F
UniRef90_UPI0003799E24	H R H E S D L S S S G K V L F F S	V A N A V E P	P G G T F D V S H E S F E T T P	G I S F F F
UniRef90_UPI0004710133	H R H E S D L S S S G K V L F F S	V A N A V E P	P G G T F D V S H E S F E T T P	G I S F F F
UniRef90_M1FET8	H R H E S D L S S S G K V L F F S	V A N A V E P	P G G T F D V S H E S F E T T P	G I S F F F
UniRef90_N6WQL0	H R H E S D D T R T S P V L F F S	V A N A V E P	P G G T F D V S H E S F E T T P	G I S F F F
UniRef90_UPI00041BDA68	H R H L D R N S D S P V I Y S L A N S V N	P G G T F D I D M D D F E T T T	G I S L L F	
UniRef90_UPI0002559FAD	H R Y C E N A E A D G S G Q I Q F F S	V A N L V E P	P G N F D D D D E F S T T P	G V V F F
UniRef90_I2JK46	H R H L N P T A N G P V L F F S	L A N M V K P	P G G T F N I D D M A E L T T T	G V S M F
UniRef90_COAVK7	H R H T D L S G T G K V L F F S	V A N M M Q P	P G T L A D D P A E T F S T T	K G I S F F
UniRef90_UPI00036C6E27	H R H T D L S G T G K V L F F S	V A N M M Q P	P G T L A D D P A E T F S T T	K G I S F F
UniRef90_UPI00031A9E0E	H R H L N P T G S G P V L F F S	L A N M T K P	P G W F R F N I A T F T T P	G V S M F
UniRef90_Q1LU19	H R H L N P T G S G P V L F F S	L A N M T K P	P G W F R F N I A T F T T P	G V S M F
UniRef90_UPI0003A35423	H R H L D S M S G T G P V L F F S	M A N A L K P	P G T F D I D M D Q L E T R V	R A V S F F
UniRef90_R9PR99	H R H L D S M S G T G P V L F F S	M A N A L K P	P G T F D I D M D Q L E T R V	R A V S F F
UniRef90_A4A3M3	H R H E Q Q A G R G P I Q F F S	V A N M L Q P	P G V F D I D M D A M Q T R G L	V F F
UniRef90_B7RUP9	H R H E F E A G K G A I Q F F S	V A N M M Q P	P G V F D I D M D A M Q T R G L	V F F
UniRef90_UPI0002F36555	H R H A D A S P T S K V L F F S	V A N M M Q P	P G T L H D D P A D F S T T K	G I S F F
UniRef90_UPI00036EB176	H R Y S N A D G T G K I L F F S	M A N G V K P	P G T F T I D L E A T S E T P	A L S L F
UniRef90_A0YC56	H R H E Q A N G T G K A V L F F S	M A N S V E P	P G Y F D L D D D F S T T P	G V C F F
UniRef90_U3B7F2	H R H A D L A N G T G K I L F F S	V A N M M Q P	P G T L H D D P A D F S T T K	G I S F F
UniRef90_C4K4K3	H R Y L T L T G E R I T L F F S	L A N M V K P	P G F F D L K M A H F S T T P	G I S L F
UniRef90_Q21J19	H R H A D E N G D G P I T L F F S	V A N M V V P	P G T F N L S M S E F T T P	G V S L F
UniRef90_A3Y9H5	H R H E D E N G D G P I T L F F S	M A N A V E P	P G T F N L S M S E F T T P	G V S L F
UniRef90_Q12L81	H R H S D N A G N G K V L F F S	L A N M M K P	P G V F D P D M E Q F S T T Q	G I V M F
UniRef90_F3LDG4	H R H A D E D M G E G P I I F F S	M A N M L K P	P G T F D L K I M D D F S T T A	G V T T M F
UniRef90_R8ATV4	H R H V D P M G N G P V L F F S	L A N M V K P	P G T F D A Q M H H F T T P	G V T M F
UniRef90_UPI0004655133	H R Y E G A K G G P I L F F S	L A N M V K P	P G V F D L D M A D F T T T P	G V S L F
UniRef90_UPI0002E190E8	H R H A D L A G T G K V L F F S	A A N M F N P	P G S F P L E I H Q F F T T P	G I S L F
UniRef90_J3VSJ7	H R Y S N T I G G G P V L F F S	L A N M V K P	P G F F L E D M A S F M T P	G I S L F
UniRef90_M0QA50	H R H L N P A G S G P V L F F S	M A N M V K P	P G T F D E N M A D F S T T P	G V S S F
UniRef90_D2TXD8	H R H V S P S G S G Q L F F S	L A N M V K P	P G T F D E P E M S D F S T T P	G V S I F
UniRef90_UPI0003B3CBEA	H R H E S M T G N G D K L F F S	M A N A L N P	P G T F D D D M S D F S T T R	A V C F F
UniRef90_UPI000377127D	H Y H E G G A D G A V I F F S	L A N I V V P	P G V F D L Q M E E F A T P	G V S L F
UniRef90_UPI00036AB998	L R Y E T E D D S E L P L Q F F S	M V D V V E P	P G T F D L E M D E F S T P	G V C F F
UniRef90_UPI00037245BA	H R Y E S A S G I G P V Q F F S	I V N S V E P	P G T F D L D I E Q F S T T P	G V C F F
UniRef90_UPI000471B8B8	H R H E D N A G T G R V L F F S	L A N M V K P	P G V F D P D M E Q F N T Q	G I V L F
UniRef90_S3DG52	H R Y S D L S K N S K S L F F S	V A N M I K P	P G T F N V D F N T F K T P	G I S F F
UniRef90_M1SIJ8	H R H V D P A G S G P V L F F S	V A N M V N P	P G T F P E Q M E E F E T P	G V A M F
UniRef90_Q080K8	H R H I D N A G T G K V L F F S	L A N M L K P	P G T F D P Q M E E F V T Q	G V V L F
UniRef90_E1VP70	H R H E Q F S G K G S V L F F S	A V N A V E P	P G T F D L N M E D F K T P	G I C M F
UniRef90_Q5E3L0	H R H S D L S G A G K V L F F S	V A N M V S P	P G H F P N E G E F S T T P	G I S F F
UniRef90_X2H1Y2	H R H V D P A G N G P V L F F S	L A N M V T P	P G Y L D P E M H E F T T P	G V S I F
UniRef90_H5TAA2	H R H V D P A G N G P V L F F S	L A N M V T P	P G Y L D P E M H E F T T P	G V S I F
UniRef90_UPI0004662556	H R H V D P A G N G S V L F F S	L A N M V K P	P G Y L N P E M P N M S T P	G I S L F
UniRef90_UPI0003794079	H R H V N S N G K G P V L F F S	L A N M F K P	P G S F D I D L E T F T T R	G V S L F
UniRef90_F3KBM4	H R E E D G A D A G E I Q F F S	M A N L V K P	P G T F D L E M D N F Y T T P	G V S S F
UniRef90_N9VNY3	H R H E D A D G H A E I Q F F S	I N M V K P	P G T F N P R M E Q F T T P	G V S L F
UniRef90_A1S5R6	H R H E D N A G N G K V L F F S	L A N M L K P	P G T F D P D M E Q F N T H	G I V L F
UniRef90_UPI0002FD0B5B	H C F A Q P S D D P K V I F F S	V A N M M Q P	P G T L E D D D P A D F T T K	G I S F F
UniRef90_F7P100	H R F Q D N A G S G E V L F F S	L A N M F N P	P G T F D E E M S K M N T R	G L S L F
UniRef90_H2FT09	H H Q T P A G G S V L F F S	L I N M V K P	P G T F N P E M S D F H P	G V S I F
UniRef90_U7NEJ7	H R F E T E D P E S R L Q F F S	M V N V V K P	P G T F P L I E M D D F R T	A G I T L L
UniRef90_J3VUF4	H R H L N P S G S G P I L F F S	L V N M V K P	P G S F S L I E M D D F R T	A G I T L L
UniRef90_E0WUD6	H R H A N P A G D G A V L F F S	L A N M I K P	P G S F D L N M P D F T T P	G V S I F
UniRef90_K2J0W8	H R H K E S S G R G P V L F F S	L A N M V N P	P G T F D V D M E Q F S T T K	G L S L F
UniRef90_UPI00030C0F06	H R H A D M S S G T G K V L F F S	V A N M L K P	P G T L S D D D P A T F T T E	G I S F F
UniRef90_UPI00037D7515	H R H E D G S D S G P V L F F S	M A N A V N P	P G T F D L T I D Q I R T P	A V T F F
UniRef90_E1SMV1	H R H Q S S A G T G P V L F F S	L A N M V N P	P G T F N P D M E Q F T T E	G V A L F
UniRef90_Q47YH9	H R H E D N A G K G V T F F S	L A N I M N P	P G S F D L D M E N F A T R	G V S L F
UniRef90_K4KTL0	H Y H Q D E D G E G P I Q F F S	L V N M V Q P	P G V F D L Q F D E L E T P	G L S M F
UniRef90_Q1N5K2	H R F E E P N A Q G K I Q F F S	V A N A V E P	P G T F D P N M E S A I S T	K G L S L F
UniRef90_H3NUI8	H L T E M S E G T I Q F F S	V A N M M Q P	P G V F D L N M E S A I S T	K G L M F
UniRef90_UPI000367BCB1	H R Y Q D A K G E G S V L F F S	L A N M Y N P	P G T F D L I D M E Q F N T	Q G L S L F
UniRef90_V5AFP6	H R H L S P D G S G P A L F F S	L A N M V N P	P G T F D E T M G E M A T T	G V S L F
UniRef90_UPI000376E591	H R H E D S A G N G P V L F F S	L A N A V N P	P G V F D D N M E Q F K T R	G L S L F
UniRef90_UPI0002559BA0	H R A E D S S P G S P I Q F F S	M A N A V A P	P G T F D P D M E A L E T P	A V S F F
UniRef90_K2C8U4	H R H H H K D G R G E L V F F S	C A S A T T P	P G T F D L T I G A F S C	K G L S L F
UniRef90_H1G2U8	H Y L V T D G R Q L P V F F S	L A N M L N P	P G T F D P Q L D E F T P	G V T L F
UniRef90_W9V5I7	H R F E G K G H A T P V Q F F S	M A N A V N P	P G T F D Q N M D S L Q T P	A V S F F
UniRef90_UPI00034C35FC	H R H E Q A S G Q G P V L F F S	M V N M Y N P	P G T F D D N M D S Q F S T	A G V S L F
UniRef90_B8GTL1	H R M V S T E Q G R T P L F F S	V A N M L N P	P G T F D P A M D D F S T P	A G V S L F
UniRef90_UPI00046501F7	H R H L E M D G Q G E V L F F S	L I N M I K P	P G T F E P S M D R L M T P	G I S L F
UniRef90_UPI0000E0E9CE	H R H V N S N G K G P V L F F S	L A N M F K P	P G V F F E N M E S Q Q F H	G L T L F
UniRef90_Q2BJC2	H R F E K P A G I S A V Q F F S	M A N A I A P	P G T F D E E N P L S L S T	K A I M F
UniRef90_K6Y635	H R H V N T N G K G P V L F F S	L A N L F K P	P G V F D I D I E T F S T R	G L S L F
UniRef90_UPI00036DF1E8	H R Y E D G I D K G A I Q F F S	M T N A L V E P	P G Y F E I D M D N I E T	R G V T F F
UniRef90_UPI000348B95A	H R F E T E S E D S E L Q F F S	M V N V V K P	P G S F P E D G M P F S C	P G V T F F
UniRef90_UPI00035F84C6	H R H A Q A N G R G A V L Q F F S	L A N A F E P	P G T F D D D I D N L H S	K G L A L F
UniRef90_A9KCS1	H R H E I K T G R G R L F F S	L A S V N K P	P G T F E L S M G N F S C	P G I V L F
UniRef90_UPI00047A9CCD	H R L V D N I H P E G P V L F F S	V A N L V K P	P G S F D A N I Q E L R T	P G I S F F
UniRef90_UPI00046D8C22	H L N V S D N G Q R N F T L F F S	L A N M V K P	P G T F D P E M D E F T T P	G V S L F
UniRef90_K2GFY7	H C H R Q E Q G E D V L Q F F S	M A N A V E P	P G T F D D E M D R E Q T F	A G T T F F
UniRef90_UPI00035C6695	H R Y I E A S G R G V A E F F S	V A N I L N P	P G W F D L E M E G F E T P	G L A F F
UniRef90_A6FI29	H R H V D A A G K D A V I F F S	L A N M V K P	P G V F D L D M E Q F E S	P G V S L F

QUERY UniRef90_I3IAN6 UniRef90_UPI00037E1D19 UniRef90_UPI0002F2A6A4 UniRef90_C1DN28 UniRef90_E3G9J9 UniRef90_W1IU25 UniRef90_UPI00046EE7A9 UniRef90_Q2SD46 UniRef90_UPI0003799E24 UniRef90_UPI0004710133 UniRef90_M1FET8 UniRef90_N6WQL0 UniRef90_UPI00041BDA68 UniRef90_UPI0002559FAD UniRef90_I2JK46 UniRef90_COAVK7 UniRef90_UPI00036C6E27 UniRef90_UPI00031A9E0E UniRef90_Q1LU19 UniRef90_UPI0003A35423 UniRef90_R9PR99 UniRef90_A4A3M3 UniRef90_B7RUP9 UniRef90_UPI0002F36555 UniRef90_UPI00036EB176 UniRef90_A0YC56 UniRef90_U3B7F2 UniRef90_C4K4K3 UniRef90_Q21J19 UniRef90_A3Y9H5 UniRef90_Q12L81 UniRef90_F3LDG4 UniRef90_R8ATV4 UniRef90_UPI0004655133 UniRef90_UPI0002E190E8 UniRef90_J3VSJ7 UniRef90_M0QA50 UniRef90_D2TXD8 UniRef90_UPI0003B3CBEA UniRef90_UPI000377127D UniRef90_UPI00036AB998 UniRef90_UPI00037245BA UniRef90_UPI000471B8B8 UniRef90_S3DG52 UniRef90_M1SJ8 UniRef90_Q080K8 UniRef90_E1VP70 UniRef90_Q5E3L0 UniRef90_X2H1Y2 UniRef90_H5TAA2 UniRef90_UPI0004662556 UniRef90_UPI0003794079 UniRef90_F3KBM4 UniRef90_N9VNY3 UniRef90_A1S5R6 UniRef90_UPI0002FD0B5B UniRef90_F7P100 UniRef90_H2FT09 UniRef90_U7NEJ7 UniRef90_J3VUF4 UniRef90_E0WUD6 UniRef90_K2J0W8 UniRef90_UPI00030C0F06 UniRef90_UPI00037D7515 UniRef90_E1SMV1 UniRef90_Q47YH9 UniRef90_K4KTL0 UniRef90_Q1N5K2 UniRef90_H3NUI8 UniRef90_UPI000367BCB1 UniRef90_V5AFP6 UniRef90_UPI000376E591 UniRef90_UPI0002559BA0 UniRef90_K2C8U4 UniRef90_H1G2U8 UniRef90_W9V5I7 UniRef90_UPI00034C35FC UniRef90_B8GTL1 UniRef90_UPI00046501F7 UniRef90_UPI0000E0E9CE UniRef90_Q2BJC2 UniRef90_K6Y635 UniRef90_UPI00036DF1E8 UniRef90_UPI000348B95A UniRef90_UPI00035F84C6 UniRef90_A9KCS1 UniRef90_UPI00047A9CCD UniRef90_UPI00046D8C22 UniRef90_K2GFY7 UniRef90_UPI00035C6695 UniRef90_A6FI29

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

QUERY P Q K L R E Y Q D I R E V K D A N A
 UniRef90_I3IAN6 R Q T L E H C R Q R I R D F E R
 UniRef90_UPI00037E1D19 R Q T M E H C R Q R I A E Y E R K R
 UniRef90_UPI0002F2A6A4 R Q T V Q H Y V E R I R E F E R R R
 UniRef90_C1DN28 A Q T I E H Y R Q R I A D F E R R Q
 UniRef90_E3G9J9 P Q K V R E Y Q D R I R E V K D A N A
 UniRef90_W1IU25 P Q M I E H Y K A R I R
 UniRef90_UPI00046EE7A9 P Q K L E V Y K A R I R E V
 UniRef90_Q2SD46 A Q T I E H C R Q R V R E F E R R M
 UniRef90_UPI0003799E24 S Q T I E H C R Q R V R E F E R R Q
 UniRef90_UPI0004710133 P S R L D E Y R E R V K A F N A S
 UniRef90_M1FET8 S Q T A E H C R Q R I R E F E R K Q
 UniRef90_N6WQL0 P Q T I E H C R Q R I R E F E R K R
 UniRef90_UPI00041BDA68 K Q T V N H Y E Q R V R E Y E R K Q
 UniRef90_UPI0002559FAD A Q T A E H Y R Q R V M E F Q R R K A
 UniRef90_I2JK46 K Q T L E H Y K Q R I R D F E R R Q
 UniRef90_COAVK7 P Q K I E L Y K S R I R R
 UniRef90_UPI00036C6E27 P N R L S A Y R Q Q I R D F V A R E A
 UniRef90_UPI00031A9E0E P D R I A A C R R Q I Q E F K A A Q S
 UniRef90_Q1LU19 P Q K L D I Y K A R I R H V L S A N
 UniRef90_UPI0003A35423 A Q T I E H Y R L R I A E F E R
 UniRef90_R9PR99 K Q T V N H Y E Q R V R E Y E R K Q
 UniRef90_A4A3M3 Q Q A V E H S R Q Q I R E L E R R
 UniRef90_B7RUP9 K Q T L E H C R Q Q I R D L E R R M
 UniRef90_UPI0002F36555 P D R L S A Y R R Q I Q E F K T A
 UniRef90_UPI00036EB176 Q Q T L E H C R Q R I R E Y E R K Q
 UniRef90_A0YC56 N Q T L E H C R Q R L Q D F E R R Q
 UniRef90_U3B7F2 P T R L D T Y R K Q I Q D F K A A Q S
 UniRef90_C4K4K3 P Q K L E D Y N A L I R
 UniRef90_Q21J19 K Q T I E H A R Q K V M E F E R K R
 UniRef90_A3Y9H5 E Q S L E H C R Q R I R D F E R R R
 UniRef90_Q12L81 E H N K Q D Y L R R I K A I
 UniRef90_F3LDG4 G Q T I E H Y R E R I R D F S R R Q
 UniRef90_R8ATV4 P Q K T E E Y K V R I K A V
 UniRef90_UPI0004655133 R Q T Q E H C R Q R I H E F E R K Q
 UniRef90_UPI0002E190E8 P Q R I D T Y R D K I K K F
 UniRef90_J3VSJ7 S K T L D E Y K K R I
 UniRef90_M0QA50 P Q K L E T Y K A R I R T V L D R N A
 UniRef90_D2TXD8 P Q M I E V Y H S R I R
 UniRef90_UPI0003B3CBEA A Q T L E H Y R Q R I A D F E R H
 UniRef90_UPI000377127D A Q T A E H Y R Q R V M E Y Q R R R A
 UniRef90_UPI00036AB998 A Q T V E F A R Q R V Q E F E R R N
 UniRef90_UPI00037245BA G Q T L E H C R N R I R E I E R K Q
 UniRef90_UPI000471B8B8 Q D T K Q A Y L G R I R A
 UniRef90_S3DG52 P D R L L A Y R K Q I Q D F K
 UniRef90_M1SIJ8 P Q K L E V Y K A R I R K V
 UniRef90_Q080K8 D A T K K D Y L R R L N A
 UniRef90_E1VP70 Q Q T V E H Y R Q R V L D F E R K M
 UniRef90_Q5E3L0 P N K I D E Y K Q R V K V F C R
 UniRef90_X2H1Y2 P Q K I D N Y K N R I K
 UniRef90_H5TAA2 K Q S L Q Q Y V E R I R E F E R K R
 UniRef90_UPI0004662556 P Q K I A S Y R E R I K R V
 UniRef90_UPI0003794079 K Q G L Q Q Y I E K I R E F E R R
 UniRef90_F3KBM4 S Q T I E H S R Q K V R D F E R R Q
 UniRef90_N9VNY3 D E T V D R C R R E L A A Y E A S R
 UniRef90_A1S5R6 D A T K A Q Y L A R I R A
 UniRef90_UPI0002FD0B5B P S R L S D Y R K Q I R D F
 UniRef90_F7P100 V Q T V R H Y V E K I R E F Q R
 UniRef90_H2FT09 P D Y L A H C R E Q L R D Y D S
 UniRef90_U7NEJ7 A Q T V E F S R Q R V Q E F V R R N
 UniRef90_J3VUF4 S E K I D D Y K D R I Q R V
 UniRef90_E0WUD6 P Q K L A E Y N N C V R
 UniRef90_K2J0W8 Q Q T V Q H Y Q G Q I R E F T R R Q
 UniRef90_UPI00030C0F06 R D R L D A F K R Q I Q E F V Q R Q
 UniRef90_UPI00037D7515 P Q T K E H Y R Q R I R D F E M H N
 UniRef90_E1SMV1 Q A T Q E A Y L A R I Q R V E
 UniRef90_Q47YH9 K Q T E Q H Y L S K I R E F D R
 UniRef90_K4KTL0 Q Q T V E H N R A R V T E Y E R K R
 UniRef90_Q1N5K2 P Q T L E H Y R Q R I R D Y T R R
 UniRef90_H3NUI8 K Q Y V E R V R Q S I R E F E A
 UniRef90_UPI000367BCB1 R Q T V Q H Y H
 UniRef90_V5AFP6 P Q K L R E Y Q A R I R E V K D A N A
 UniRef90_UPI000376E591 M Q T V R Y Y V E K I R E F E R
 UniRef90_UPI0002559BA0 P Q T K E H Y R E R I R E F Q M H Q
 UniRef90_K2C8U4 K E R M V K Y R Q Q I R A Y E T
 UniRef90_H1G2U8 R Q G S E H I R R E D I R R W Q L R
 UniRef90_W9V5I7 E Q T K E H Y R Q R I R D F E
 UniRef90_UPI00034C35FC V S T V R E Y V E K V R E Y
 UniRef90_B8GTL1 P Q G I E H I R E G I R A W
 UniRef90_UPI00046501F7 E Y Y L T Q C R E E L K A Y D
 UniRef90_UPI0000E0E9CE Q Q G L Q H Y
 UniRef90_Q2BJC2 S Q T M E H Y R Q R I R D Y E M K N
 UniRef90_K6Y635 K Q G L Q K Y S E R I R E F E R K R
 UniRef90_UPI00036DF1E8 D Q T K E H Y R E R I R R Y E M R
 UniRef90_UPI000348B95A A Q T I E F T R Q Q V H E F E R R H
 UniRef90_UPI00035F84C6 R Q I E T H H K E Q I S E F E R R Q
 UniRef90_A9KCS1 M D K V A Q L R A R I R R Y E E S Q
 UniRef90_UPI00047A9CCD R Q R L A H L R E E L R H Y D R K Q
 UniRef90_UPI00046D8C22 P Q G N Q H T R E D I R Q W K L R R
 UniRef90_K2GFY7 P Q N M E H M R Q R V Q E F E R R
 UniRef90_UPI00035C6695 H Q A V E H L R E E M I E Y R R R
 UniRef90_A6FI29 E D A I K Q E Q V F I R Q L E S

UniRef90_Q6LTU6
UniRef90_Q5QUK0
UniRef90_K0CEL7
UniRef90_H8KYP9
UniRef90_UPI0004756F4E
UniRef90_W2UBM7
UniRef90_U1LFN8
UniRef90_UPI0004170C07
UniRef90_D0YZB9
UniRef90_UPI0003641135
UniRef90_A4BHE4
UniRef90_G4E888
UniRef90_K2KPD9
UniRef90_C5BHY9
UniRef90_A4BM29
UniRef90_T0ZC52
UniRef90_UPI0004194404
UniRef90_F7S0Q6
UniRef90_W9A9T1
UniRef90_UPI00046A2F52
UniRef90_UPI0003748BC5
UniRef90_F9QBT4
UniRef90_C9PM09
UniRef90_S6GFZ2
UniRef90_L8JC91
UniRef90_K2D290
UniRef90_K2BV21
UniRef90_B8KS72
UniRef90_U1R2W6
UniRef90_Q2YBB8
UniRef90_L0DVT3
UniRef90_UPI000414550F
UniRef90_M4R463
UniRef90_W0E0R9
UniRef90_M5DQD8
UniRef90_L0WEP9
UniRef90_K0FV45
UniRef90_B9CWM0
UniRef90_S6ACD4
UniRef90_A1WY81
UniRef90_S6EC89
UniRef90_Q7VMX6
UniRef90_E1W3F8
UniRef90_F3L4U0
UniRef90_UPI0003B439BE
UniRef90_B8F313
UniRef90_UPI0003785D11
UniRef90_F9UBP5
UniRef90_Q0I2I2
UniRef90_F8GJ99
UniRef90_Q4QLI9
UniRef90_I3DIX6
UniRef90_M4U4X7
UniRef90_G7UTX3
UniRef90_I2NDE0
UniRef90_R4VES9
UniRef90_A0A011NDQ5
UniRef90_Q82SM8
UniRef90_UPI0003666D32
UniRef90_U1L1F6
UniRef90_H0PTY9
UniRef90_K2DU25
UniRef90_F4HCT1
UniRef90_Q0AAV3
UniRef90_A6VR17
UniRef90_UPI00035FE5DE
UniRef90_G2DFI4
UniRef90_UPI0004717E60
UniRef90_I3YH17
UniRef90_M7PPE5
UniRef90_A1SX62
UniRef90_A0A011QHG7
UniRef90_Q5NYU2
UniRef90_U2EK86
UniRef90_L0GUR3
UniRef90_A0A011NJL4
UniRef90_G8QPF1
UniRef90_A0A009ZDR3
UniRef90_UPI0003B6C3EB
UniRef90_D3RSW1
UniRef90_Q604U7
UniRef90_I3CKQ7
UniRef90_V2USA9
UniRef90_N6XRY4
UniRef90_N6Z6V2
UniRef90_M5DNN8
UniRef90_UPI00040B88BC
UniRef90_I1XK02
UniRef90_G4SZG7
UniRef90_S9ZH41
UniRef90_S6BZA3
UniRef90_C4ZJU0

UniRef90_Q6LTU6 H R H A D L A G T E P V L F S A T N M V Q P G N F P E D G G N F E T P G V S F F Y
UniRef90_Q5QUK0 H R Y E N T A G T E P M L F S V A N M F N Q P G G T F D L D M E E F F E T E G G V A F F F
UniRef90_K0CEL7 H C H R Q Q G D E Y Q P E F S V A N M A V L E P G G T F D L D T A A A H L Q E R S T P F A G L S T F F F
UniRef90_H8KYP9 H R L Q D G G K R D Y G P I F S V A N M L K P G G S F F D M G I D S L Q T P P G V L S T F F F
UniRef90_UPI0004756F4E H R L V A G R P E A G P I F S M A N M V K P G G F F D M G I D S L Q T P P G V L S T F F F
UniRef90_W2UBM7 Q R R H L H E P D S G S G P V L F S M A N L V N P G G T F D L D T D M E Q F M S T A G G V I S L L F F
UniRef90_U1LFN8 N R H L E P A S D K R Q P L F S V A N M V A P G G T L D E D L A D M M T P T A G I V I S L L F F
UniRef90_UPI0004170C07 H Y H E P A S D K R Q P L F S V A N M V A P G G T L D E D L A D M M T P T A G I V I S L L F F
UniRef90_D0YZB9 H R H L D R A G T Q P V L F S V T N L V A P G G N F P D D N D A H F E T P G I V I G F F F
UniRef90_UPI0003641135 H R F E A E N P R G V T E F S L A N C V Q P G G V F D E D N D A H F E T P G I V I G F F F
UniRef90_A4BHE4 H Y R A S S A G T G A V L F S L A N M V K P G G T F D P D M N Q V N T P P G V L T L F F
UniRef90_G4E888 H R M V E H H Q T G A M T L F S V A S M V K P G G A L N P E M E N F F T T P G G V L A L L F
UniRef90_K2KPD9 H R H A S S A G T G A V L F S M A N M F N P G G T F D L D M E N F F T T P G G V L A L L F
UniRef90_C5BHY9 H R H L R E H S G D G P I L F S L A N M V V P G G T F N L D S M A D F F Q T P G G V S L L F F
UniRef90_A4BM29 H R L L D T H S S A L G V L F S A A N L L E P G G W F D L E I A N A S T P P G V V F F F
UniRef90_T0ZC52 H R L D D R S S A A L G P V F S V A N M V K P G G S F D L E I A D T A S T P G G L G F F F
UniRef90_UPI0004194404 N R H L D P A G Q G P V L F R L V N M Y N P G G T F D L D M E Q F S T A G V S L L F F
UniRef90_F7S0Q6 H R Y E Q P T A G R G P L L F F R M A N M Y N P G G T F D L D M E Q F S T A G V S L L F F
UniRef90_W9A9T1 H R H A D L A G T E P V L F S V T N L V N P G G T F P E N Y Q H F E T P G I V I G F F F
UniRef90_UPI00046A2F52 L R H E E S E D S P L Q F A M A N V V K P G G I F D P E M V D S Q L D G V I T F L F
UniRef90_UPI0003748BC5 H R H L H S D G T G P V L F S I A N M M A P G G L F E P E M E Q F N S E G V S F F F
UniRef90_F9QBT4 H R H L D L S I A S P I L F S L A N L E Q P G G T F D P N M A E F T T E G V V L L F F
UniRef90_C9PM09 H R H S D L S V N S P I L F S V A N L Q Q P G G T F D Y N M N D F S T I G I A L L F F
UniRef90_S6GFZ2 H R F E D G K A E G A I Q F S M A N A T H K P G G T F D L D M D E F T P P G I A F F F
UniRef90_L8JCV1 H R H A E N A G T G A I I F S V T N M V P A Q F P E G G D D F T S S G L C L F F
UniRef90_K2D290 H R H E Q K D G R G K V L F H C A S A V A P G G T F D L S M G S F T Q C S G L C L F F
UniRef90_K2BV21 H R H A H K A D G R G D I L F H C A S A V A P G G T F D L T M G S F Q C S G L C L F F
UniRef90_B8KS72 H R H E Q A A G R G P I Q F S V A N M M K P G G V F D L D M D E F T S T R G L M F F F
UniRef90_U1R2W6 H R H L D L T P S S P V L F S L A N L R Q P N T F N P D M E N F S T V G I V L L F F
UniRef90_Q2YBB8 H Y R D E N N V V L F S L G N Y E P S P G L P D D N I R T L M T T R G I T L L F F
UniRef90_L0DVT3 H Y R E A S S P D S A P L F S V A N M V A P G G T T D D D I A S M M T P G I T L L F F
UniRef90_UPI000414550F H R H E H S N G T S E V L F S I A N M M A P G G T F D V D M E Q F N S P G I S F F F
UniRef90_M4R463 H R H L D N T D S P L F S V A N M M Q P G G V F D L N I E N F A S T V G L V L F F
UniRef90_W0E0R9 H Y T D T L D G E P R Y A F S M A N M V K P G G I F P F D M E T F S T P G L L L F F
UniRef90_M5DQD8 H R F E D A D G G N I Q F S V A Q S H E P G G V F A P Q M A E Q M F T G L S F F F
UniRef90_L0WEP9 H R H V D Y R G S A S P V L F S M A N A V E P G G T F D L D M E D M T F A G V T F F F
UniRef90_K0FV45 H R H Q H G N N T T P V I F S V A N M V Q P G G V F D L T L E Q F S T V G L V L F F
UniRef90_B9CWM0 H R H Q H G N N T T P V I F S V A N M M Q P G G V F D L E M D L F S T V G L V M F F
UniRef90_S6ACD4 H Y F N D D G A D L F S L A N L D P T P F S A E N I R Q L S T H G I V F F F
UniRef90_A1WY81 H R R G Q S E T G R V T L F S A A S M V E P G Y L D P E L P T L E T P G L V L F F
UniRef90_S6EC89 H R H L D L N S T S P V L F S A A N I Q Q P G G T F E P N M A D F Y T V G I A L L F F
UniRef90_Q7VMX6 H R H Q H L N N D T P V I F S V A N M M Q P G G L F D L N L D S Y A T V G L V L F F
UniRef90_E1W3F8 H R H F D L N S V A S P V L F S V A N I E Q P G G T F D Y N M A E F S T M G V L L F F
UniRef90_F3L4U0 H R H E Q S G G R G P I Q F S V A N L L K P G G V F D I D M S T L Q Q T A G V V F F F
UniRef90_UPI0003B439BE H R H E F P T G H G M T L F S M A Q A L E P G G T F N D E L S R L Q V P G V S F F F
UniRef90_B8F313 H R H L D N P A S P V L F S V A N M M Q P G G V F D L A M E Q F S T V G L V L F F
UniRef90_UPI0003785D11 H R H T D E N G S G P V L F S M A N L L N P G G T F D L T I G R Q E L V G V T L L F F
UniRef90_F9UBP5 H C L D E F D D T T R I Y F S M A N M V K P G G T F P F D M D D F A T P G L M L F F
UniRef90_Q0I2I2 H R H V D L S I T S P V L F S V A N I E Q P G G T F D N I A D F Y T V G I A L L F F
UniRef90_F8GJ99 K Y R D D N N N V L F T L N N Y E S P P F L P D N I K S L T T H G V T F L F
UniRef90_Q4QLI9 H R H L D L S V A S P V L F S V A N I E Q P G G T F N A N L A E F N T I G I V L L F F
UniRef90_I3DIX6 H R H L D L S V A S P V L F S V A N I T Q P G G T F N P A L Q E L Y T V G V A I L F F
UniRef90_M4U4X7 H R H Q H S D G T G P V L F S I A N M M L P G G T F D P N M K Q E L D C P G V S F F F
UniRef90_G7UTX3 H R L T E H H P E R G P V I F S M A N I M Q P G G S F D A A I R E L E T P A I A F F F
UniRef90_I2NDE0 H R H K H L N N S P V I F S V A N M M Q P G G V F D A N L K D F S T V G L V I F F
UniRef90_R4VES9 R R G L D T G S G T V A L Y T V A N I L E P G G T F E A E P E S A S T P G V A L I F F
UniRef90_A0A011NDQ5 H R H Q H L D D F S P T I L F S A A N L M N P G G T F D H N I A N F S T V G L V L L F F
UniRef90_Q82SM8 K Y R D S E T N E V M F S L G N F E S A P F L P A N M R T L T T H G I T L L F F
UniRef90_UPI0003666D32 H R H F D L S V A S P T L F S V A N L Q D D G S F N P Y N T E F S T I G I V L L F F
UniRef90_U1L1F6 N R H E D A S G D G P V L F R L A N M F N P G T F D L D M E Q I A T E G V S L L F F
UniRef90_H0PTY9 H R H A C D E D G N T L F T L S N M E A N I F A A D T M R N L Q T H G M T L L F F
UniRef90_K2DU25 H R Y E S E E G G S V W F S I A A A T P E G S F T D D M G A F Q C V G L V M F F
UniRef90_F4HCT1 H R H L D V N T E R G P L I F S V A N M V Q P G G T F D P N M E N F S T I G L L T L F F
UniRef90_Q0AAV3 H R H V R T E R G P A R V F S V A N M I K P G G W F D L D R A E D E T P G A A F F F
UniRef90_A6VR17 H R H L D L T V A S P A I F S V A N I N Q P G G T F N P H M Q D F S T V G V A L L F F
UniRef90_UPI00035FE5DE N K Y S D L D G S G E V Q F S M A N L V N P G G T F D L T I R Q Q T V P G V T L L F F
UniRef90_G2DFI4 H R L T G D G S R R V Y T V A N L A E P G G T F P L Q I M R G G F K T P G L A F F F
UniRef90_UPI0004717E60 H R F E T E A A D S P L Q F S V I N A L K P G R F P F D M E K F S T R C V S F L F
UniRef90_I3YH17 H C L D E F D D E T R V Y F S M A N M V K P G G T F P F D M E D F S T P G L M L F F
UniRef90_M7PPE5 H R Y I S A N R K Q P V I F S V A N I L D P G T L P P F D M E D F S T P G I L L F F
UniRef90_A1SX62 H R H L H S D G N G P T L F S I A N M L L E P G G I F D P D M G R I S C E G V S F F F
UniRef90_A0A011QHG7 V R C D D D G D V L Y M L L C N Q Q A D G F S A E S M K T L T H G V T F L F
UniRef90_Q5NYU2 H R A R D E S G H T L Y T L C N M E P A L F A A D E M R N L M T N G L T F V F
UniRef90_U2EK86 H R V T E T H G V P E S V F A V A N M L K P G T L D P D Q D H L H T P G L V L F F
UniRef90_L0GUR3 H C Y L G D E Q E Q R T L F R V A N L V K P G T F P F G M E D F S T P G M V L L F F
UniRef90_A0A011NJL4 V R L D E D G R V L L Y A L L N Q E T Q G G T G E S I R S L T T H A I T F L F
UniRef90_G8QPF1 V R R L D D D G R V L Y T L S H Q S Q Q P F T A E A M K T L S C H G L T F L F
UniRef90_A0A009ZDR3 H R Y D K T D E P S P L Q F S V L R M T D N G P A G F D L E T L S V I Q G L A F F F
UniRef90_UPI0003B6C3EB H A Y Q G D E I Q M F S V A S L V K P G T F P I D M D D F S T P G L T L L F F
UniRef90_D3RSW1 H C L D E F E D E T R V Y F S M A N M V K P G R F P F D M D G F S T P G L V L L F F
UniRef90_Q604U7 H R Y D S A Y R E P L F S V A S L V E P G G T F P N D M E N F S T P G V V F F F
UniRef90_I3CKQ7 H Y L G E S K T H P I F S I A N L M E P G G V F N P E D A H F R S Q G L A L F F
UniRef90_V2USA9 H R Y E N T E E E S P L M F S V L R V T D E G P A G F D L E T L S V I Q G G F A F F F
UniRef90_N6XRY4 H A L A D E R G A S L F S L A N L E A G L F A P D A M R Q I V T Q G G L T L V F
UniRef90_N6Z6V2 S Y R A D D G T P L F A L N L E A G L F A D G E L S S I A T R G V T L V F
UniRef90_M5DNN8 H R L I E R Q P E R G P L F S V A N I V K P N S F D A A I Q D V E T P A I A F F F
UniRef90_UPI00040B88BC H R Y T V N R R R Q T L F S V A N I L D P G T L P D L I S M K T P G L L M F F
UniRef90_G4SZG7 E R L D S R G L V D F G V A S M V E P G I F P D D M E K F T T P G L V F F F
UniRef90_S9ZH41 H R A L D E D G A T L F A L S N L E A G V F V G E A M S L M S T P G V T L V F
UniRef90_S6BZA3 H R E N D R G Q V L F S L A N V L E P G T F P K E A A D D F S T P G L V L F F
UniRef90_C4ZJU0 H M V D G E H S V F T V A N L E S G R F S P E S I L K G L V T R G L T L V F

UniRef90_Q6LTU6
UniRef90_Q5QUK0
UniRef90_K0CEL7
UniRef90_H8KYP9
UniRef90_UPI0004756F4E
UniRef90_W2UBM7
UniRef90_U1LFN8
UniRef90_UPI0004170C07
UniRef90_D0YZB9
UniRef90_UPI0003641135
UniRef90_A4BHE4
UniRef90_G4E888
UniRef90_K2KPD9
UniRef90_C5BHY9
UniRef90_A4BM29
UniRef90_T0ZC52
UniRef90_UPI0004194404
UniRef90_F7S0Q6
UniRef90_W9A9T1
UniRef90_UPI00046A2F52
UniRef90_UPI0003748BC5
UniRef90_F9QBT4
UniRef90_C9PM09
UniRef90_S6GFZ2
UniRef90_L8JC91
UniRef90_K2D290
UniRef90_K2BV21
UniRef90_B8KS72
UniRef90_U1R2W6
UniRef90_Q2YBB8
UniRef90_L0DVT3
UniRef90_UPI000414550F
UniRef90_M4R463
UniRef90_W0E0R9
UniRef90_M5DQD8
UniRef90_L0WEP9
UniRef90_K0FV45
UniRef90_B9CWM0
UniRef90_S6ACD4
UniRef90_A1WY81
UniRef90_S6EC89
UniRef90_Q7VMX6
UniRef90_E1W3F8
UniRef90_F3L4U0
UniRef90_UPI0003B439BE
UniRef90_B8F313
UniRef90_UPI0003785D11
UniRef90_F9UBP5
UniRef90_Q0I2I2
UniRef90_F8GJ99
UniRef90_Q4QLI9
UniRef90_I3DIX6
UniRef90_M4U4X7
UniRef90_G7UTX3
UniRef90_I2NDE0
UniRef90_R4VES9
UniRef90_A0A011NDQ5
UniRef90_Q82SM8
UniRef90_UPI0003666D32
UniRef90_U1L1F6
UniRef90_H0PTY9
UniRef90_K2DU25
UniRef90_F4HCT1
UniRef90_Q0AAV3
UniRef90_A6VR17
UniRef90_UPI00035FE5DE
UniRef90_G2DFI4
UniRef90_UPI0004717E60
UniRef90_I3YH17
UniRef90_M7PPE5
UniRef90_A1SX62
UniRef90_A0A011QHG7
UniRef90_Q5NYU2
UniRef90_U2EK86
UniRef90_L0GUR3
UniRef90_A0A011NJL4
UniRef90_G8QPF1
UniRef90_A0A009ZDR3
UniRef90_UPI0003B6C3EB
UniRef90_D3RSW1
UniRef90_Q604U7
UniRef90_I3CKQ7
UniRef90_V2USA9
UniRef90_N6XRY4
UniRef90_N6Z6V2
UniRef90_M5DNN8
UniRef90_UPI00040B88BC
UniRef90_I1XK02
UniRef90_G4SZG7
UniRef90_S9ZH41
UniRef90_S6BZA3
UniRef90_C4ZJU0

90 100 110 120
LMLP C Y G S A K N N F N L M L Q T V Q R I A D D L N A D V L D H E R R A M V T
MALP M K F D D G Q Q A A F N M M L N A A K R K L A T E I L Q G G D V L D D E E Q R R Q L L T T
MQLP P G P Q P A L D A W D R M L T T T A Q R R M A E E G L Y G G D L R D D E E H S N A L T G
UniRef90_H8KYP9 MTL P A P V Q P A L D A W D R M L T T T A Q R R M A E E L L G A N V L L D D E E T R R S V L G
UniRef90_UPI0004756F4E MALP P G P L P A L D G W D A L L P T A Q R R M A E E L L G A N V L L D D E E T R R S V L G
UniRef90_W2UBM7 MALP D D D D D P V L A F D I M V H S A S V D S M A S V F M N L S V L L D D D E E T R R S S M T
UniRef90_U1LFN8 MTL P C E G D N L V A F N M L H S A S V D S M A E E F F G A T V L L D D K D R E S P L T T
UniRef90_UPI0004170C07 T Q V H Y S A H P Q R A F E A L L E N A H A L A R D D L G G T I V L L D D A Q R S T A T T
UniRef90_D0YZB9 LMLP C P S A D S D D D A F E N T M L Q T A Q R I A D D D L N A D V L L D D E H E N N M I T
UniRef90_UPI0003641135 MQLP P S G R S R D A F E A M F E T A M V L V R N L G G E L L K D D E D H S V M T
UniRef90_A4BHE4 MQLP N G A D D A M E A F E H M F E M A R F L A Q H L D G G E L L D D E D H S S V T
UniRef90_G4E888 LRLP P G P W D G V M A F D A M L V C A E E L A A D A F L G G G L L L D D Q H H R E N P L A S
UniRef90_K2KPD9 MTL P L K Y D A I Q A F N M M H N A A E K L A A A F K G G L V L L D D Q H H R N P L T
UniRef90_C5BHY9 LSLP L P G L S I R A F D T M A G T A K A L A A A L D G G E L L K D D E N R R S V M T T
UniRef90_A4BM29 MRLP P G P Y L D S A L V T F E A Q M L T T A R T V A E R V L G G Q L L D D S R R H C D N L G
UniRef90_T0ZC52 MTL P G P L S A L D A W D A M L P T A A Q R M A E L L D G G V L L L D D S R R E R N D L G
UniRef90_UPI0004194404 MTL P C E G D G L A A F N M L H S A A K K L S D E F G A Q I V L L D D A G R R N Q E M T
UniRef90_F7S0Q6 MTL P L K Y D G H K A F T M M Y N A A N K I A D A M R A A V L L D D A G N R N P M T
UniRef90_W9A9T1 LMLP C Y G K A S S N F N M M L Q T A Q R I A D D Q L N A D V L M D D Q D R V M I T
UniRef90_UPI00046A2F52 MPLP P G A D D T S A A F E T M V E I A M L L V R R L G G E L L K D D E N H S V M T
UniRef90_UPI0003748BC5 LTV P N E I N V K E A F D M M L T A V E Q M A E E F N G C L V L N A E E E E P L T
UniRef90_F9QBT4 MQLP P S P G S D L A N L K M M L R A A K T L A E D L G G G A V L L T D K Q E E I F D
UniRef90_C9PM09 MQLP S E G N D L A N L R M M L R A A K S I A T E D L G G G F V L L T D K Q E S I F D
UniRef90_S6GFZ2 MSMD E P L D P K N A L E C M M A T A E T V A T H L N G A D V L L D D D R R S V I R
UniRef90_L8JC91 LMLP C P G R A D Y N F N M L Q T V Q R I A D E L L G A D V L L D D H E R R A M I T
UniRef90_K2D290 F S V N N T D D S L A V F D A M L A T I D Q L V E D L S G G E V L L D D E H R K P F N
UniRef90_K2BV21 F S A N D V A E D P L A T L D C L E T L D Q L V E D L S G G Q V L L D D D K R M T F T
UniRef90_B8KS72 V T L P G P E D M L K A F D Y M Y E T A K A V A K N L H G G D V L L D D D K T R S V V T
UniRef90_U1R2W6 MELP S P G N D I V N L K T M I R A A R N L A D E L L G G F V L L T D K Q E S I F N
UniRef90_Q2YBB8 L D V P R V A N G E R F N Q M V H L A E T F S E A R D L G G S F M V L D D A N Q R V P L S
UniRef90_L0DVT3 L Q L H A C D Q P H R A F E A L L E T S H V L A E A R D L G G S I L D D A Q Q S T A T
UniRef90_UPI000414550F F T A P N H K I S V K S F D M M L R A V I E Q V A E E F D C E V L L N E K Q R E Q F T
UniRef90_M4R463 M H L P E P T N D L A N L R I M I A T A D S L A Q S L L G G F V L L D D H N D D Q R E F D
UniRef90_W0E0R9 A Q L E G E P E D M A V F D E M I A T A R K L A T M L G D G E V H D D D H R K P L S
UniRef90_M5DQD8 M S L P G A K R P L E A Y E A M S E M A M V V S R N L K A D V L L D D G T H S A M T
UniRef90_L0WEP9 L K L P G A S D A L G A L D K M L S V C R R L A T A L E G E V L K D D G T H S V L T
UniRef90_K0FV45 M H L P S E G N D A V N L K L L K T T E N L A Q A L G G G F V L L N D R R E I F D
UniRef90_B9CWM0 H H L P S E G N D V A N L K L M L Q S A E R L A S S L G G G F V L L N D R R R E I F D
UniRef90_S6ACD4 F D V P K V A D G V R V F N Q M L M V A R Q M A S S L G G G Q V L L D D S T R R S P L S
UniRef90_A1WY81 M Q L P L P V D G E Q V L D A M L A T A Y Q V S V E L G G D L L L D D S T R S T M T
UniRef90_S6EC89 M Q L P S P G N D L V N L R M M I R A A K T I A E E L G G G F V L L T D Q Q E I F D
UniRef90_Q7VMX6 M H L P S E G S D L V N L K L M L K A A E S L A E A L G G G F I L L N E Q Q E I F N
UniRef90_E1W3F8 M Q L P S P G N L A N L R M M I R A A K T I A E A L G G G V L L T D Q Q E I F D
UniRef90_F3L4U0 M R V P G P K D L L T S Y E A M L E T A R A V V I Q H L G G G T L L D H S H S V L T
UniRef90_UPI0003B439BE M A V P G Y K S L T A F D L M M D T A R R L A A A D V D G G E M L D D S G S A L V T
UniRef90_B8F313 M H L P S V G N D L A N L K L M I R T V E S F A Q S V L G G G F V L L D D E Q H Q I F N
UniRef90_UPI0003785D11 M V P S D L E K P A E V F D L M I E T A E Y L S E K L Q L N M M D E S R R S S M T
UniRef90_F9UBP5 A Q L D G R P E D T V L E E M I A T A R K L A S E L D D G D V L L D D E T R R E P L T
UniRef90_Q0I2I2 M Q S P S Y G N A T A N L R M M L R A A K T I A Q D L D G V V V T E E Q Q E I F D
UniRef90_F8GJ99 L D V P R V A H G E R V F D Q M T H L A K I F S N T L G G I M V D D N R V P L S
UniRef90_Q4QLI9 M Q L P S P G N L A N L R M M R A A H T L A E A Q L Q G G V I L L T E E Q Q E I F D
UniRef90_I3DIX6 M R L P S P G N N L T L K I M M R A A K T L A E Q L G G F V L L T E E Q Q E I F T
UniRef90_M4U4X7 L S A P D P D N V K E A F D L M L J A V I E Q M A E E F D C L V L L N A Q R E K L T
UniRef90_G7UTX3 L T L P A P L T A L D A W E M M L P N V Q R M A E L L N G V V L L D D S R R N A L G
UniRef90_I2NDE0 M H L P T D G N P Q T N L R L M L Q S T E R L A S A L N G F V L L D D R R E I F D
UniRef90_R4VES9 M Q L P G P F D G L V T F E Q M L A T A Q R I A D Q L G G H V L L D D S R R Q D L T
UniRef90_A0A011NDQ5 M Q L P S E G S D L A N M K L L I N N A E H L A S S L G G F L Y D D D N Q P F D
UniRef90_Q82SM8 L D V P R V A N G E R V F D Q M A H I A R L F S S T L N G G I L V D D N R V P L S
UniRef90_UPI0003666D32 M K L P S P G S D L A N L K L M I R A A K T L A E D L G G T V L L T E D E K I F D
UniRef90_U1L1F6 M T L P C A G D S L P S F N M L H S A A K K I A D E F S A T V L L D H N R S E L D
UniRef90_H0PTY9 I D V P R V A P N G V L A F F E R M M Q A S Q M A D A L Q G G V V V D D N R S P L G
UniRef90_K2DU25 M R L D S K Q K L M A R F D L M L D V A R Q L V I E L G G E I C D D D L H Q P I N
UniRef90_F4HCT1 M R L P S P A S D G L V N F R M L C R A A E R L A E K L N G F V L L N D K R R E I F D
UniRef90_Q0AAV3 L Q L P G P V D G M A F D M L G V A R R V A D E L G G R L L D G R R C D L S
UniRef90_A6VR17 M Q L P V A G N P R A N L K M M I Q A A K N L A S Q L G G F V L L T E Q Q E E F D
UniRef90_UPI00035FE5DE M T L P E D Q Q D G K A S F D E M M R V V S L L S Q A L D L N V M D D T R S T M T
UniRef90_G2DFI4 A Q L P G P Q D G Q A I F N D M L K T A E Q L A A R L G G E L H M D D S R S V L T
UniRef90_UPI0004717E60 L P L P S A E H I G E A F D A M Y E T A K A I V R N L D G G E L R D D E N Q S S V M T
UniRef90_I3YH17 A Q L E G P E D M T I L D E M I A T A R K L A L S L N G D V L L D D T R R S L T
UniRef90_M7PPE5 A R L P G P M N G M A L F D L L E S A E Q M A D Q L E G V L C D D Q R Q P L T
UniRef90_A1SX62 V V A P N E I N I K T A F D M M L T A V I E Q M T E E F D C V V L N A Q R E P L T S
UniRef90_A0A011QHG7 L D V P R V A N G D R V L T Q M F E L A R R F A E A L N G A L V D D N R H P L S
UniRef90_Q5NYU2 I D V P R V A N G V V F D H M M Q Q A N H M A L N G N V V D D N R A P F G
UniRef90_U2EK86 T V V P G P I E G A V A L R D M M E T A N G L A Q A L G G E V L L D D K R A L L K
UniRef90_L0GUR3 A S L E G E A D D L G V V D E L V A T A R C L A E E L D G G E I R D D R R N P F T
UniRef90_A0A011NJL4 L D V P R V A N G D R V L G Q M V E Q A R R F A D S L H G Q L V D D N R R P V S
UniRef90_G8QPF1 L D V P R V P N G D R V F N Q M G D L A R R F A D S L H G V V V D D N R Q P L T
UniRef90_A0A009ZDR3 L A L P H Q K A R L K G F D M M T S I A G L T A R E V D G G K V F D E N N Q E F T
UniRef90_UPI0003B6C3EB L Q P P L V K D P S E A F E R M I S A C H T L A Q R E V G G S E W D D R R Q P L T
UniRef90_D3RSW1 A Q L E G D P E D M T I L D E M V A T A R K L A L S L N G D V L D A A R R P L T
UniRef90_Q604U7 F Q P A K V P D P L E V F D D L V N T C A R G L A G A L E G R V L D E H R A E L T
UniRef90_I3CKQ7 S Q L P G P F G R V A F E L M L N T A Q R V A E T L G G I V E N D R H Q P L T
UniRef90_V2USA9 I T L P N P H A Q A G F D M M V S I A N L I A R D I D G G K V F D E N S C E L T
UniRef90_N6XRY4 I D V P R V S D G R A V F D R M M E I A V D L A E Q L G G V V V D D N R A P F G
UniRef90_N6Z6V2 I D V P C V R D G V A F D R M M E I A N G F A R Q L G G T V V D D N R A P F G
UniRef90_M5DNN8 L D V P R V A N G E K I F D E M T H L A E I F S D A L G G M M V D D N H T P L S
UniRef90_UPI00040B88BC L T L P A P V S A M D A W D A M L P T A E R M A E L L G G L L L D D E Q R N A L G
UniRef90_I1XK02 A R L P G P V N G L T V F D S M L D T A Q L T A Y L G G I L C D D E K R P I T
UniRef90_G4SZG7 M Q P R E V D D P V A V F D D F I E T I D I L A E E L D G G V P W D D K R Q P L T
UniRef90_S9ZH41 L D V P C V R D G M T A F D R M M E F A N D F A R Q L G G V V V D D N R A P F G
UniRef90_S6BZA3 T Q L P G V Q D G V A I Y S D M L F T A E R L V A L L D G G E L R D E A R N P L T
UniRef90_C4ZJU0 I D V P R V S N G G A A F D R M M K M A T T L A G E L G G D V V D D N R A P F G

UniRef90_Q6LTU6 P N R I A Q Y R E K A K L Y
UniRef90_Q5QUK0 R Q S L H E A R Q R I R E F E R K H S
UniRef90_K0CEL7 P Q T M E H L R Q R V Q E F E R R Q
UniRef90_H8KYP9 R Q R I A H I R D E L R S W D R
UniRef90_UPI0004756F4E R Q R I A H I R D E L R A Y D R
UniRef90_W2UBM7 R Q T I D H Y R Q R A R D V S F R R S
UniRef90_U1LFN8 V E A V R G Y V E K V R E F
UniRef90_UPI0004170C07 N Q T L A H M R E D L N Q W L L R N
UniRef90_DOYZB9 P Y R I T A Y R D K A K L Y A N A
UniRef90_UPI0003641135 A Q T V E F A R Q R V H E F E R R
UniRef90_A4BHE4 P Q R V E Y Y R E K I R S F E R
UniRef90_G4E888 R Q V L D Y T R E E I R S W E L R
UniRef90_K2KPD9 R Q A V Q H T H Q R I R E F E R
UniRef90_C5BHY9 Q Q T I E H A R Q R V V E Y E R K R
UniRef90_A4BM29 Q Q A I E H I R E D L L E Y R R R
UniRef90_T0ZC52 R Q G I Q H I R D D L R G W D R R H
UniRef90_UPI0004194404 V D R I R L Y V E Q V R A F S A
UniRef90_F7S0Q6 K Q S V Q H T Y Q K I R E F E R R M
UniRef90_W9A9T1 P N R I A A Y R E K S V K Y N
UniRef90_UPI00046A2F52 A Q T L E F K R Q Q V H E F E R R N
UniRef90_UPI0003748BC5 E Q Q F R N Y H E R L L H Y
UniRef90_F9QBT4 E Q T E A A Y L A R V
UniRef90_C9PM09 D A S E Q A Y L S R V K
UniRef90_S6GFZ2 P Q T K E H Y R E R V R M H E R R R A
UniRef90_L8JC91 P H R I D E Y R E K A K L Y S R A
UniRef90_K2D290 K E K M I Q L R Q I R S A E
UniRef90_K2BV21 K E K M I S Y R Q Q L R E V E S S Q
UniRef90_B8KS72 Q Q S
UniRef90_U1R2W6 D H T E Q E Y L A S V
UniRef90_Q2YBB8 D T G I R K I K Q Q L S S Q S V M
UniRef90_L0DVT3 N Q T L A H M R E E M N Q W L L R H
UniRef90_UPI000414550F Q E Q F I E Y R K R L E K Y K
UniRef90_M4R463 E R S R Q E Y V Q R I R A
UniRef90_W0E0R9 I K K E E E M R R A V R E N E R
UniRef90_M5DQD8 S Q T R E H E R Q Q I L D Y E R
UniRef90_L0WEP9 R Q T M E H L R Q R V Q E F E R R Q
UniRef90_K0FV45 E N S R Q A Y L A R V
UniRef90_B9CWM0 E N S R L E Y L N R L R
UniRef90_S6ACD4 D A G I A K I K Q Q L A D L Y A R M
UniRef90_A1WY81 Q Q I A E H M R E Q L R E H R R
UniRef90_S6EC89 E N A E K A Y L A K V
UniRef90_Q7VMX6 E T D R Q A Y F A R V
UniRef90_E1W3F8 D M A E Q D Y L S R I
UniRef90_F3L4U0 K Q A I E H D K T L L R E Y A R K Q
UniRef90_UPI0003B439BE P E L M A Q W R D E L A A F E R H R
UniRef90_B8F313 D E S R Q N Y L L R V
UniRef90_UPI0003785D11 K Q T I E H Y R Q R A Q Q
UniRef90_F9UBP5 V R K E E D L R R A V L E N E R R
UniRef90_Q0I2I2 E Q A E R D Y L A R V
UniRef90_F8GJ99 D S G I L R S K Q Q L I E I Q T S M
UniRef90_Q4QLI9 A N A E Q A Y L A R V
UniRef90_I3DIX6 E A S E Q E Y F D R V K
UniRef90_M4U4X7 E A E F R N Y H E R L A H Y
UniRef90_G7UTX3 R Q R I Q H I R E E L R G Y D R
UniRef90_I2NDE0 E N S R I E Y L K R V
UniRef90_R4VES9 A Q S I E H I R E D L L E Y R R R
UniRef90_A0A011NDQ5 E Q S R Q R Y M Q R V
UniRef90_Q82SM8 E N G V K R S R Q R L A D I Q S T M A
UniRef90_UPI0003666D32 D Y Q E Q R Y L E R V
UniRef90_U1L1F6 V A T V R Q Y V E K I R E F D
UniRef90_H0PTY9 P E A A N M I R N Q I Q H F Q A Q M A
UniRef90_K2DU25 A A V I R R L R E K I C T V E T S N
UniRef90_F4HCT1 D N S R D R Y L Q M L
UniRef90_Q0AAV3 R Q A
UniRef90_A6VR17 V M A E A A Y L A R V
UniRef90_UPI00035FE5DE P Q T A E H Y R Q R A K A
UniRef90_G2DFI4 R Q T I E H M R E Q I I E
UniRef90_UPI0004717E60 V Q T V G F L R Q R V G D F E R R M
UniRef90_I3YH17 V K K Q D E M R K A V
UniRef90_M7PPE5 D S T I E S L R S R I F E F N
UniRef90_A1SX62 E Q E Y R D D H Q R L M R Y
UniRef90_A0A011QHG7 E A A L E P I R Q Q V A Q F Q A A M A
UniRef90_Q5NYU2 P D A A L L I R S Q I Q Q F Q A Q M A
UniRef90_U2EK86 A Q T A Q Y M L J D Q V A D I D R R
UniRef90_L0GUR3 S E K E E A L R A R V A R M Q A H D A
UniRef90_A0A011NJL4 E S S I E P I R R Q V V I Q Q L A M A
UniRef90_G8QPF1 E A L L E P I R K Q V A Q Y Q G A M A
UniRef90_A0A009ZDR3 P Q L K E H W R H V I D Y R S
UniRef90_UPI0003B6C3EB A V K I S L W R R Q L K
UniRef90_D3RSW1 V K K E E E L R Q A V T D N E L R
UniRef90_Q604U7 E A R V I E M R E L L A E
UniRef90_I3CKQ7 S E L I D E L R Q R I N E F E Q R
UniRef90_V2USA9 Q Q L K E H W R H Q I I D Y K
UniRef90_N6XRY4 D E A A N L I R V Q I E Q F Q G R M A
UniRef90_N6Z6V2 T E A A E L I R S Q I R Q F Q D R M A
UniRef90_M5DNN8 D S G I G K I K Q Q L S A I Q A L M
UniRef90_UPI00040B88BC R Q R I G H I R E E L R A Y D R
UniRef90_I1XK02 D K H L E A T R N R I F E
UniRef90_G4SZG7 D D T V E V L R N R L
UniRef90_S9ZH41 T E S S D L I R A Q I R Q F Q D R M A
UniRef90_S6BZA3 R Q A I E H T R D R I L E H R R
UniRef90_C4ZJU0 A E A A T I I R N Q I G Q F Q S R M A

UniRef90_Q5X1S1
UniRef90_UPI0003F63371
UniRef90_S3NNC8
UniRef90_R4YNG9
UniRef90_CON201
UniRef90_F5RAF1
UniRef90_A1K714
UniRef90_N9QPY9
UniRef90_UPI00047EFB65
UniRef90_UPI0003809504
UniRef90_I1YE84
UniRef90_F5SXH3
UniRef90_U5T346
UniRef90_V4JTG2
UniRef90_Q3SL41
UniRef90_K1ZYT0
UniRef90_J5HP20
UniRef90_A0A011QY40
UniRef90_UPI0004774892
UniRef90_UPI0003FF095B
UniRef90_B8KG27
UniRef90_UPI0003747D50
UniRef90_K2A6M2
UniRef90_UPI00047BD0EE
UniRef90_W0B6G9
UniRef90_UPI00035D7DE9
UniRef90_D0KWM9
UniRef90_K2AX89
UniRef90_E4QP62
UniRef90_A8PNE3
UniRef90_Q47FA1
UniRef90_F5SP59
UniRef90_Q1H1G7
UniRef90_V5C619
UniRef90_N9DNR7
UniRef90_R9B9S9
UniRef90_UPI00036C7654
UniRef90_V2TXG3
UniRef90_N6YCY1
UniRef90_G3IQF7
UniRef90_D4E3B2
UniRef90_W6LU78
UniRef90_D9SFC9
UniRef90_H8GNM5
UniRef90_UPI0003829E24
UniRef90_UPI000379677C
UniRef90_B5JW18
UniRef90_E6QRB3
UniRef90_W6MD14
UniRef90_Y0KHF7
UniRef90_D5C142
UniRef90_H8Z3Z8
UniRef90_I7Z9T0
UniRef90_K0C4Y4
UniRef90_I3BY52
UniRef90_UPI0003B44C8E
UniRef90_R5E124
UniRef90_UPI0003655F6E
UniRef90_E6RMS1
UniRef90_E8LJS9
UniRef90_UPI00038226F0
UniRef90_C8PX19
UniRef90_D7DI78
UniRef90_UPI00036F4A21
UniRef90_UPI000376CA7A
UniRef90_W1XZ28
UniRef90_K2C006
UniRef90_C1D4R6
UniRef90_UPI00036A5776
UniRef90_D3A515
UniRef90_UPI00037EFEE1
UniRef90_C6WVP3
UniRef90_V71982
UniRef90_W0SEZ1
UniRef90_L2F6Z2
UniRef90_D5CRE2
UniRef90_UPI000476285C
UniRef90_C8N9F3
UniRef90_X2HIJ2
UniRef90_W8U0I2
UniRef90_G4CNX6
UniRef90_UPI0003B5FA06
UniRef90_E6N0G1
UniRef90_A4G4R3
UniRef90_UPI0003818051
UniRef90_UPI00034A9DB4
UniRef90_D7N0K9
UniRef90_F1W2Z5
UniRef90_UPI000262CA50
UniRef90_K9DTB4
UniRef90_D5V9R3
UniRef90_UPI00046E59CE

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

UniRef90_Q5X1S1 H R H Q F T N G Q Q 50 60 70 80
UniRef90_UPI0003F63371 H R Y D S E E L R K P L F S V L A S L V K P G T F P D D M A S Y Q V P G V V L F
UniRef90_S3NNC8 H R Y E E E S E E S N T L R L F S V L A S L V K P E G T F P D D M A S Y Q V P G V V L F
UniRef90_R4YNG9 H R F E E E E G E G C L I E F S V M A N S F N P G T F D P E L L H E R L Y Q V G L V L F
UniRef90_CON201 H R Q T A G S Q K Q T L F S V I A N I L D P G T L L P D F V S M T T P P G V L L F
UniRef90_F5RAF1 H A R D D A G V T H Y F T L V S N Q D A A Q F A P E T M K S L Q T T P G V L L F
UniRef90_A1K714 H M R D E A G N T V F T L V S N Q D E P T L F T A E N L R T L V Q T H G I T L L V
UniRef90_N9QPY9 H R Y S E D D G S K L L F S V L Q M T D T G M E G F D L E T L S T K G L A F F
UniRef90_UPI00047EFB65 T R R H D D D G R A L F S V L Q N F E A S G F A A D T L K S L T H G I V L F
UniRef90_UPI0003809504 E R L D A N R L V D F G V I A S M V E P G T F P T D L D T F Y C P G I V F F
UniRef90_I1YE84 H R F S L G S R K Q S L F S I A S I I D P G T F P A E L T S M K T P P G I L L F
UniRef90_F5SXH3 H R F T Q G S R K Q S L F S V A N I I D P G T L L P D F V S M K T P P G I L L F
UniRef90_U5T346 Q R T L E T D D G P V A L F T V A N I V E P G T F D A N P G A T Q T P G I V L F
UniRef90_V4JTG2 H R Q A P D D G T R A P L Y S M A N L V K P G S F P M N M R D F K T P G L A L F
UniRef90_Q3SL41 Q L L D S R G K L F L Y A L C H D A E P F G G E P V E G R N S C Q G V T L Q
UniRef90_K1ZYTO H Y Y Q T T V N G K T K L F S V L A S A N K P G D F G D N N I G N F S C T P G V L F
UniRef90_J5HP20 H R H Q H A D D N S P I M F S V A N M T A P G T F D L N L D R F M T V G L V M F
UniRef90_A0A011QY40 A R F D D E G K L F V L I N Q E T Q G F S A E S M R T M T H G V T F L
UniRef90_UPI0004774892 H R Q R D E V G N V Q F T L T N L E P L P F T P E Q L R H L Q S K G V V L S
UniRef90_UPI0003FF095B H R Y E Q K D G T G M L W F S M M G I T D N G I A P F D P H S V A T S G V L F
UniRef90_B8KG27 H R H E Q Q A G R G P L Q F S V A N M L Q P G V F D L D M D S M F T R G L V F F
UniRef90_UPI0003747D50 H R L A D S G N T L F S V L A S A D Q T P F T L H T L D K Q F P A L T L M
UniRef90_K2A6M2 H R Y D D S G K G N V L F S V L A A A T P S G A F A E D M G A F K C G G L L F
UniRef90_UPI00047BD0EE E R V D A N R M V D F A V A S M V D P G T F P D T L I G A D F Y C P G I V F F
UniRef90_W0B6G9 H R H Q H P N G Q G P V L F S V L A A A T K T G V F D L N I G A F S V R G L C I F
UniRef90_UPI00035D7DE9 E R L D G N R L V D F G V A S M V P P G T F P E D L D S F Y C P G I V F F
UniRef90_D0KWM9 H Y P G E L G E T L F S L A N G V K P G T F D G N S A S F A T P V L A L F
UniRef90_K2AX89 H Y Y Q A T I S G K I K L F S L A S A N K P G D F D I N M G S F S C T G L M F
UniRef90_E4QP62 H Y R D E Q Q H T S F S L I N Q D S N P F N A D M L R T V V T K G V V F Q
UniRef90_A8PNE3 H F Y A D P F T Q K E V L F S L A S A E T P G T F D L D I G E I V C P G L C L F
UniRef90_Q47FA1 T R Y D D N G R A Q F S L Q S A Y E S T P F S A D A L R T V T T H G L T L F
UniRef90_F5SP59 H R Y E N K D G S G I L W F S M M G I N H D G I T P F D L N L L P T S G L V L F
UniRef90_Q1H1G7 H Y I E D S N G D R H V L F S V V N H D K L P F S T E M L R T S V T R G V T F Y
UniRef90_V5C619 E R I N K Q G D V D F G V A C M V E P G T F P D M L A S F N C P G I V F Q
UniRef90_N9DNR7 H R Y S E D G G K L L F S V L Q I S N D G A A A F D L E T L S T K G L A F F
UniRef90_R9B9S9 H R Y D E E H K L S F S V A S I T E E G P A G F D L E T L Q V K G L A F F
UniRef90_UPI00036C7654 H R L L G E Q P V F S V A S L I K P G T L D P E Q Q S F S T P G L T V F F
UniRef90_V2TXG3 H R Y K N L D E T Q P L M F S V L K I S D E G P V G F D L E T L S T H G L A F F
UniRef90_N6Y CJ1 H A L A D D G S T L F T L A N L E P G L F A A E T L P A M A T G G L T L V
UniRef90_G3IQF7 E R L D A N R L V D F G V A C L V E P G T F P D D L E N F Y C P G I V F F
UniRef90_D4E3B2 E R F P D G A D A D T P V L F L A H L R E P G S F D P D M S D F S T P G V S M F
UniRef90_W6LU78 E R L S N S S G N S Q L T L I N K D T K P F Q H H L L A Q F T T G G I T L M
UniRef90_D9SFC9 H R L D S S K R L V D F G V A S M Q P P G T F P E D L E D F Y C P G I I F F
UniRef90_H8GNM5 H R Y E H K D G S G I L W F S M M G I T E D G I A P F D L N S S R Y N G L V L F
UniRef90_UPI0003829E24 H R M V L T D E G E V S L F S V A N G V P P W T L D P I D L K Y G A T P G L S L I
UniRef90_B5JW18 H Y Q S A G Q R I V S V A N I E K P G T F D P D M T G M T T P G L A L F
UniRef90_E6QRB3 Y R R D E H G D L Y T L C N Q E E P F S F Q G H M D A L R T H G V T L F
UniRef90_W6MD14 E R Y T K E S G A D N P V F S L A H L R K P G S F A Q T L A Q L S T P G L L F
UniRef90_Y0KHF7 H H L Q T V K P H Q L E F A I K N Y E G N A F S A E M L K S S V M H G I T F Q
UniRef90_D5C142 H A Y S P G G R A V F S V A N I M E P G S F D L E I D H L L P T P G L A L F
UniRef90_H8Z3Z8 H R I D G D P S Q P C A T L F S V A N L V Q P G N F P E A M A D F E T R G I A L F
UniRef90_I7Z9T0 H R L A R N E A T L F S V A S L V K P G V L L P E A D Q F S T R G L Q V F
UniRef90_K0C4Y4 H Y Y Q R H D G V E A Q Q F H V A N G L E P G T F P G N M T E F E S T G I L L F
UniRef90_I3BY52 H R M V L T D T G E T S L F S V A N G V K P W T L P E E M V A Q S T P G L S M I
UniRef90_UPI0003B44C8E H R L L G A D A V F S V A S L L K P G H L D P A A A T F A T P G L T L F
UniRef90_R5E124 C V Y E N P Q L K D R I V F R L C S L E A P Y A F P D N M E S F S T S L A L Y
UniRef90_UPI0003655F6E R F E L F N T L G Q L E F S V R N Y E G K P F S A D M L K S A V M T G M T F Q
UniRef90_E6RMS1 N R H L D P A G Q G P V L F R L V N M Y N P G T F D I D M E Q F S T A G V S L F
UniRef90_E8LJS9 Y V Y E D P S R R L G N E V F R I C S L K A P Y S F P Q Q D M R G F T T P A M A L L
UniRef90_UPI00038226F0 H L L N I Q G H S L F S L I N Q K N E L F Q H H N L H N L K T G V T L L F
UniRef90_C8PX19 H R Y E N K D G T G L L W F S L M M I D N E G I S P F D L N R L P T K G L V L F
UniRef90_D7DI78 K Y Y D Q S S D D Q H P S F V M F N R D D H P F S P E M L R T S V V K G I T F F
UniRef90_UPI00036F4A21 E R F D A N H L V D F G V L C M V D P G T F D H L D Q F Y C P G L V F F
UniRef90_UPI000376CA7A H R L V L G P Q G E Q S L F Y V A N G I K P W T L P E E M A I S T P G L S L I
UniRef90_W1XZ28 H R H L S P D G S G P A L F S V A N M V K P G T F P E M K D F T T P G
UniRef90_K2C006 H Y Y D E Q G N L F S V A Q A N E T G D F N L D I G S L A C P G S L V L F
UniRef90_C1D4R6 H A Y S D S G S H L Y T L M S S D S R P F V S Q E L L E K R F S Q V T L L F
UniRef90_UPI00036A5776 H M V N D K G L H L F S V V N F D N S P F P H P G Q R D T S E G V T F L
UniRef90_D3A515 H F G D N N N P Q L F S I H T L D N K P F T N P L L D N Q A Y R G F S M L
UniRef90_UPI00037EFEE1 H F L D P R T G H S R F T M A N R F E P G S F D P A L Q T F S T R G L T L F
UniRef90_C6WVP3 K Y Y D E S D P S P S V S F A M F N R D N Y P F S P E M L R T S V V K A V T F Q
UniRef90_V71982 Y L N D A K G E P L F A I S T L D N S A F T A T L S T Q N Y R G I S M L
UniRef90_W0SEZ1 H R A R A D A G G E L F T V A N L G T E R L D A E S I K S L A T H G L T L S
UniRef90_L2F6Z2 H R Y A N K D G T G L L W F S V L M M V T E E G L L P F D L N N Q S R V K G L V M F
UniRef90_D5CRE2 H L L D E S G E T L F S V L G S S D G S P F Q H H T L N N Q S R V D S L T L L
UniRef90_UPI000476285C G R F V M P D G E G G V L F T L S T N V T L G A D T T S R L T L L
UniRef90_C8N9F3 H T Y E L L T A G G Q E I F T L N V R R P P T F P E Q L D D A S Y E G L L V
UniRef90_X2HIJ2 F Y A D T D G E P L F N I V L T L D N T P F T S T L L A N Q N Y R G F S M L
UniRef90_W8U0I2 H A H H H G P G G Y D E L F S V H T G T D P G F F L S T L A E D R F A D L I F S
UniRef90_G4CNX6 H L Q D D N G E P L F S I V T V D G S P F T A S L L S S Q A Y R G F S M L
UniRef90_UPI0003B5FA06 H Y P V E D N G V P A N L F T V A N G I K P W T L S P D L K G S E T P G L S I M
UniRef90_E6N0G1 H Y T D T S G S T M F S I C S L N N E P F T N A L L D N Q S Y K G F S M L
UniRef90_A4G4R3 G R L V M P D G D G G V L F S L S T N V T L A E D T T S R L T L L
UniRef90_UPI0003818051 Y Y Q D F S A K Y P L F S A I E A N H Q A F T A D S L A R N S V L K A I T F Q
UniRef90_UPI00034A9DB4 G R Y V M P D G D G A F L F S L S T N V T L A E E T T A R L T L L
UniRef90_D7N0K9 H F P G N N D T M F S L S T L D N S P F T P S L L H Q P Y R G F S M L
UniRef90_F1W2Z5 G R L V M P D G E G D V L F S L S T N V T L A A D T T S R L T L L
UniRef90_UPI000262CA50 Q R F P L D D A E H P L F S L V N G I E P G T F D D D A Q S I D T P V I F L F
UniRef90_K9DTB4 A M P D K E S A G G V L F T L S T N V T L G A D T T S R L T L L
UniRef90_D5V9R3 H R Y E N E D G T G D L W F S M M G V G Y E G V C A F D L N S L H F M G L T L F
UniRef90_UPI00046E59CE H Y R F F P D A S P P L V F S I A N A T E P G V L D P T L H E E R L P G L V I F

UniRef90_Q5X1S1 MQLLSNNP ENAERF SVMLDT 100 AKQLSEGL D A Y L L D D D Q R K P L T T
UniRef90_UPI0003F63371 F Q P A T V D D P L R V F D D L V D T C H E L A I R I D G G I E W D E T R R R P L L T T
UniRef90_S3NNC8 L A L P H K D V Q K G F E S T M A S I A G L I A R N E L D G G A V Y D E N T R R R L E I M A
UniRef90_R4YNG9 M S L P G P V K A M N A F E S M T E M A S V I A R N L D G G D V H D E T H S I M A
UniRef90_CON201 A K L P G P V N G M A L F D D L L D T A R G M N E E L G G G V L C D E T R R R P L V S S
UniRef90_F5RAF1 L D V P T V P D G A R A F D R M M Q L A E Q L A H A L G G A R V V D D D N N R A E P L V S
UniRef90_A1K714 I D V P R V A N G A A C F E R M M Q L A T H L A G A L Q G G V V V D D D N N R A E P L F G
UniRef90_N9QPY9 L A L P H S D V Q N A F D T M D S I S R L I A R E A V D G G L V Y D D Q N N R Q Q E F F T
UniRef90_UPI00047EFB65 L D V P R T P R G A H V I F T Q M V D I L A K R F A E A L N G G A L V D D Q N N R Q Q P L A T
UniRef90_UPI0003809504 M Q P E A V D D A Q A V V F D D Y V Q T I Q L L A A E A L N G V I R D H Q R R Q P L L T S
UniRef90_I1YE84 A R L P G P A N G L T V L D A M V E C A T Q M A E E Q L D G G I V C D E T Q R R Q P L L T S
UniRef90_F5SXH3 A R L P A P F N G L A L F D D L L D T A R N M T Q Q S L G G G L L C D E D E T R R R C D L V S T
UniRef90_U5T346 M Q L P A P F D N G L A L F E M M L T T A R R R V A G E L G G G Q L L Q D E T G R R C D L L T T
UniRef90_V4JTG2 A Q L E G D P S D L M V Y D D L L H V A R R A L A S E V L G G G Q L Q E K G R R R C D L L T T
UniRef90_Q3SL41 F D V P R V P D D P L K Q V F D G M V A F G R R L A N E V L G G G V L V D D D N N R Q P L L T T
UniRef90_K1ZYT0 M N K T D V P D P Q Q T F K M L M L D T A R K L L T E D L D G M L H A D P M T P W S D
UniRef90_J5HP20 M H L P S S D I A K M K S M I S A A E G L A Q L L G G F V L D E H Q R N L F D S
UniRef90_A0A011QY40 L D V P R V A N G D R V L Q M I E L A R R F A D S L H G A L V D D D N N R R P L L S S
UniRef90_UPI0004774892 L D I P R T L N P A H T F D R M I A F A Q H L A D A L D G V L V D D D N N R V P L L S S
UniRef90_UPI0003FF095B L S L P H P Q A V R S F D S M M S I A Y M M A S D L D A I M L D E N N E P I L T T
UniRef90_B8KG27 V T L P G P E D M I Q A F D Y M L E T A R V V A R N E L G G E L L D D E S R R V L L S
UniRef90_UPI0003747D50 F D V P R V A G G V A V F D R A V Q F A K H V L S Q E F D A Q L V D D E S R R R V L L S
UniRef90_K2A6M2 M R L D A K Q K K L M S F D L M L D T A R Q L T E E L G G E I Y D D L Q Q Q S I L N T
UniRef90_UPI00047BD0EE M Q P R E V D A P L A V F D D F M E T I D T L A D E L D D T H V L D D D K R R Q P L L S
UniRef90_W0B6G9 M Q A S G P V V D R E R F S I M L D T A K L S E G L D D T H V L D D D K R R Q P L L S
UniRef90_UPI00035D7DE9 M Q P A E L E D A S V F E D Y L D T I E Q V A A E L D D G R I L D H Q R R Q P L L T T
UniRef90_D0KWM9 M Q L L D G P S E S L D Q M I D I A R D I A D Q L G G E V L D D D N R R L P L L T T
UniRef90_K2AX89 M N I A E V P D P Q H T F K L M L E T A E G L V E S L D G G L H A D P L T P W N T
UniRef90_E4QP62 L D I P H V K N C T E V F N Q M V L A A R Q M S H S L N A N L V D D N Y R Q L T
UniRef90_A8PNE3 M S L H H V K S A G E R T A L D R M S E T A Q T L H D L G G T I C D D N R F Q Q P L L S
UniRef90_Q47FA1 L D V P R V D H G A L V F M Q M S E I A K R F A D T L G G A L V D D D N R R V L L S
UniRef90_F5SP59 L S L P H P K A M Q G F D T M M S V V N L I S N D L N A V I L D D E N N E I V T S
UniRef90_Q1H1G7 L D L P R V Q N C S E A Y N H M V L L A R Q M E H G L G A R L V D D E N N E H E L S
UniRef90_V5C619 L Q H Q D L E D A Q N V F D D V D T I K T V A K E L D G V I W D H Q R R Q P L L T
UniRef90_N9DNR7 L A L P H S D V Q I A F D T M D S V S R L I A R E I E G T V Y D Q N N Q Q E F T
UniRef90_R9B9S9 L A L P H N D V Q N A F D T M V S L S N L A R E I D G T I Y D Q N N Q Q E F T
UniRef90_UPI00036C7654 M V L P N E A R P R A A L D D L V A T T R A L A E Q L N A E V F D A N R Q V F T
UniRef90_V2TXG3 L A L P N A Y A Q E G F D T M A S T A G L I A R E I D G K V F D D E N N D E L S
UniRef90_N6Y CJ1 L D V P W V Q D G V A V F D R M M R I A N D E A A H F G G H V L D D D N R R A A F G
UniRef90_G3IQF7 M Q P E A L D D D A P A V F D D Y I E T I N L L A E K L D G V V L D H R R R Q P L L T
UniRef90_D4E3B2 M M V P S Y G D A N Q N F K L M L Q S A Q R I A D D V G G V V L D D E R R R M M T
UniRef90_W6LU78 M H L P G P L E G T Q A L N L L V F A A D R Q W A R K L G G V I C D G R R N R M N
UniRef90_D9SFC9 L D V P R V E N P A A S F D L M V Q I A R D L A R D L Q V N L V D D H R V Q L T T
UniRef90_H8GNM5 M Q P G E L E D A V P V F D D F V Q T A V F M A A E L D G T V L D H E H R P L L S
UniRef90_UPI0003829E24 L S L P H S P K A L Q G F D S M M S V V N L I S N D L N A L L L D E N N E I V L T
UniRef90_UPI000379677C I N L P S P L D D S E A I H D F J Y T A E R I N Q A L G G L L K D Q N Y Q E V F T
UniRef90_B5JW18 L Q L R P E S D F E F S E Q V L V K S A K Y M A S Q L K A T V L D G Q R K P L D
UniRef90_E6QRB3 F E V P R V D N G V A I F E M A Q L G M H M A Q T L G G R L V D D D N Q R P L S
UniRef90_W6MD14 M S L P G P L D G T K A L D L V L A A D R V A R K L N G V I C D E D Q G H R M T
UniRef90_Y0KHF7 L D I P T A K N S A D V F D N M V Q I A K H I A K S L D A S I V D D N R R K V L G
UniRef90_D5C142 L R L P G P A G G F A A F D A M L E T A E L L A E K L N G E V R D E R R N V L T S
UniRef90_H8Z3Z8 T Q M H G E Y Q D I E A L D A M L T T A K S L A R E L N A E I E D A Q H R P L S
UniRef90_I7Z9T0 M V L P G P V K P L T A L H D M L A T T Q S L A R A L N A D V F D G S K Q P L S
UniRef90_K0C4Y4 F Q V S D V A I P S E A F E N M L N V A R E L S Q R L E A R L V D A E M Q N E L R T
UniRef90_I3BY52 L N L P S P I D N G E A I H D F L R T A E R L A A D L N G I L K D Q G Q P V T
UniRef90_UPI0003B44C8E M V L P G P V R A P D A I R D M I G T A E K L A R A L N A E V F D A K K Q P F S
UniRef90_R5E124 M Q L P T P K G K A F L Y Y R A M H V I A K C L V E H L G G V I K D N N N K E M T
UniRef90_UPI0003655F6E L D I P T T P N S L Q V F H M V E I A H N M A S S L S A S L I D V N R K P L G
UniRef90_E6RMS1 M T L P C D G D G L A F N M L H S A A K K M R M N L
UniRef90_E8LJS9 M N L P E R G K G V A G Y I R A M R M A N L F A Q N L G G T I Q D N Y H H N I T
UniRef90_UPI00038226F0 L D V P R A S D P L A G Y Q F D L M N V A L Q L A Q D E L N L N L V D D Y L V L T D
UniRef90_C8PX19 L S L P H P R P V Q G F D S M M S I A G L L A N D L N A T V Y D D T G E P I N
UniRef90_D7DI78 L D L P H V K Q S A E T F N Q M I Q V A R Q M E I G L N A T L V D S S N N K V L G
UniRef90_UPI00036F4A21 M Q P A L L D D A Q E T F D D F L E A I N I V A V E L D G S L V D H E K N P L T
UniRef90_UPI000376CA7A L N L P S A I P N H E A I R D F V H T A Q Q V N Q L L G G I L K N Q N Q Q V V S
UniRef90_W1XZ28
UniRef90_K2C006 L K P Q E K N I N I A L E K L L E T A Y Q L A E D L G G Q L Q D I Q H R P L T
UniRef90_C1D4R6 F D V P R V V A G C A T V F D R A V L F A Q Q L A R S L K A D L V D D A G R P L T T
UniRef90_UPI00036A5776 F D V P R V V G D G V N V F G Q L S D L A F E I S T Q L S G A K L V D D N R K P L T
UniRef90_D3A515 L D I P R V P A G E K T F D K F M D L A V K L S G Q L S G L S D L V N D Q M E E V S
UniRef90_UPI00037EFEE1 M S M P R A P D P L A A F D E M I A V A Q Y A A S E L S G E L
UniRef90_C6WVP3 L D I P H V V H C T E A F N H M V Q I A R H M E T G L N A V L V D D N N R P L G
UniRef90_V71982 F D A P H I P D G E K N F N R F M D L A V K L S S M L G L D L V N D K Q L E E L S
UniRef90_W0SEZ1 L D V P R V A D G A Q A F D R M L A T A R Q L A A T M G G E L V D A K R E E L S
UniRef90_L2F622 V S L P H P E A S R G F D S M V S I L A Q L L S A R D L Q A Y L Y D E T G E P L N S
UniRef90_D5CRE2 L D I P R V D E P V R H F D Q M V V L A Q E L A Q T L R A S M V D D Q R V A L S
UniRef90_UPI000476285C L D V P C V A P A R D G F G A M V A C A K A L E Q R L D A T I V D D G D Q P L P
UniRef90_C8N9F3 L Q L P V S Q K P V E I D W E T Y L A L A H E M S N C G G K L S D H N R R R E L S
UniRef90_X2HIJ2 F D L V H I P N G E K C F D Q F M D M A V K L S S Q L G L D L V N D K K V E L S
UniRef90_W8U0I2 M D A V R T V Q P Q A V F E A M W K G A E Y A R A R L G G T L V N E Q E L P
UniRef90_G4CNX6 F D I T R V P A G E K Y F N R F M D I A V N F S G S L G L D L V D D N M N Q L S
UniRef90_UPI0003B5FA06 M Q L P S P I D D I D A I E I L S T Q M V A E E L G G T L V N D T D Q E T F S
UniRef90_E6N0G1 L D I P H S P A G E K T F D L F M D L A V R L S G Q L N L N L V N D K M E E V S
UniRef90_A4G4R3 L D V P V V A P E R D G F G A M I A C A R L S S R L D G T L V D D S N Q P L S
UniRef90_UPI0003818051 L E I P K V P N C E Q A F N Q M I A Q S L S M S L T A D L V D D N N Q P L G
UniRef90_UPI00034A9DB4 L D V P C V A P A R D G F G A M V A C A R S L V G R L D A T I V D D S N Q A L S
UniRef90_D7N0K9 F D I P H I P A G E K T F D R F M D L A V K L S G Q L S G L D L V N D K M E E L S
UniRef90_F1W2Z5 L D V P R V A Q A H N G F G A L I A C A R S L S R M D S G T V V D D G N Q P L P
UniRef90_UPI000262CA50 T E L P K Q S D P V F A V N E L I S G A R S I A R D V G G D V F D Q H G T P I S
UniRef90_K9DTB4 L D V P C V A P A R D G F G R M V E T A R G L T Q R L D A T I V D D F D Q L V
UniRef90_D5V9R3 L A L P H P H A R L G F D S M V S V A H M I A Q R L S A D M L V D E F O G N L F D
UniRef90_UPI00046E59CE M N A S D P A H T M R T L D A M L G V G V R L A R R L D A L G D A Q R N Y L T

UniRef90_Q5X1S1 E E R I A R Y H R Y L K
UniRef90_UPI0003F63371 E E K I A Q M R R G L I E
UniRef90_S3NNC8 P Q L K E H W R H K A I D Y R A
UniRef90_R4YNG9 L Q T I E H N R Q L V R D F V R K Q
UniRef90_C0N201 D A L L E S M R A R I L E Y Q M A
UniRef90_F5RAF1 P A S L G L I R G K I A E F Q A R M
UniRef90_A1K714 V D A A G M I R S Q L A Q F Q D R M A
UniRef90_N9QPY9 P Q L R E F W R H Q A I D Y R A G Q
UniRef90_UPI00047EFB65 E P Q L A H I R Q E
UniRef90_UPI0003809504 E T T T R L I R Q S L
UniRef90_I1YE84 E S T
UniRef90_F5SXH3 E D A V E A M R T K I F E Y Q
UniRef90_U5T346 T Q A
UniRef90_V4JTG2 E E R A Q A L R A Q V
UniRef90_Q3SL41 D S G I E K I R S Q L T E I Y A R M
UniRef90_K1ZYT0 E K M A W Q Y Q K R L
UniRef90_J5HP20 E N A R H A Y L K V Q
UniRef90_A0A011QY40 E G G I E P I R R Q V V I Q Y Q T A M A
UniRef90_UPI0004774892 E R S I S L I R S Q I Y Q F E
UniRef90_UPI0003FF095B P D Y K Q Q L R N Q V R D Y D S
UniRef90_B8KG27 Q Q A V E H S R Q Q I R E L E R R
UniRef90_UPI0003747D50 D Q G L A Q I R D Q L I R I Y G N M
UniRef90_K2A6M2 A E V I K R L R E K I C T I E T H N
UniRef90_UPI00047BD0EE A E T V A Q F R Q
UniRef90_W0B6G9 D T S L Q R Y Y R Y L
UniRef90_UPI00035D7DE9 D D T V R L I R Q S L
UniRef90_D0KWM9 S E S I D R Y R E Q L
UniRef90_K2AX89 E K V A W Q Y Q K K L F N L K S R
UniRef90_E4QP62 D T Q I D R I R Q Q L K
UniRef90_A8PNE3 E D L T R F H S Q L H T Y
UniRef90_Q47FA1 E S Q L D H I R R E
UniRef90_F5SP59 R E R R Q Q L R A Q V Q E Y Q A A M
UniRef90_Q1H1G7 D A Q I D K I R H Q I K L I H D K M
UniRef90_V5C619 D E T I Q A I R R S L
UniRef90_N9DNR7 P Q L R E H W R H Q A I D Y R P G Q A
UniRef90_R9B9S9 A Q S R E F W R H Q A I D Y R S G Q
UniRef90_UPI00036C7654 A E A Q R V L A A E V D A W T K R N
UniRef90_V2TXG3 M Q L K E Y W R R Q V I D F K
UniRef90_N6YJC1 T E A A D L I R A Q I R Q F Q G R M A
UniRef90_G3IQF7 D A T V Q S I R Q S L
UniRef90_D4E3B2 P Q K L E T Y K A R I R E V L E N N A
UniRef90_W6LU78 N Q A L M H L R A E V S D L E R R
UniRef90_D9SFC9 D A G L A K I R A Q I V E V E T K M
UniRef90_H8GNM5 E K T V E L I R R S L
UniRef90_UPI0003829E24 R E R R H Q L R A Q V Q Q Y Q A A
UniRef90_UPI000379677C P E M R D Q V L H F
UniRef90_B5JW18 A K G E Q A L R L R I R T I Q S
UniRef90_E6QRB3 P A G T D K I K V Q L
UniRef90_W6MD14 N Q G L L A L R D K V
UniRef90_Y0KHF7 D I Q L E K I R Q Q L K V I N A T M
UniRef90_D5C142 A Q A I E Q I R E R I L G F N R
UniRef90_H8Z3Z8 V K R I E S L R N A V I D Y A D P D S
UniRef90_I7Z9T0 S E A M R A L Q A D V E E W
UniRef90_K0C4Y4 P D N I M N I Q S Q L
UniRef90_I3BY52 A D T R A
UniRef90_UPI0003B44C8E P S S A R A L Q Q E V E A W A R S H
UniRef90_R5E124 D E S L E Q T E L L L K K Y D K S D A
UniRef90_UPI0003655F6E D V I Q L D K I R Q Q L R N I S N A M A
UniRef90_E6RMS1
UniRef90_E8LJS9 D E D F D K M E E A L A A Y D A
UniRef90_UPI00038226F0 E A A L S A I R T Q I A E V I E A Q M
UniRef90_C8PX19 K E N T Q A M R E L A I N F G R
UniRef90_D7DI78 D I Q V E K I R Q Q I K V L Q A T M
UniRef90_UPI00036F4A21 N A T I K M I R Q S L
UniRef90_UPI000376CA7A D A E L N A Y
UniRef90_W1XZZ8
UniRef90_K2C006 Q E T L D I Y K N K
UniRef90_C1D4R6 E A G L Q T I R Q Q L K A I H S R M
UniRef90_UPI00036A5776 D H G I A S I R Q Q L R A I
UniRef90_D3A515 T Q W L K D V R N Y V
UniRef90_UPI00037EFEE1
UniRef90_C6WVP3 D M Q I E K I R Q Q L K V L Y A T M
UniRef90_V71982 T Q W L K E I R S Y V V A R Q D E M
UniRef90_W0SEZ1 V A M I D A I R A R T V E L I Q
UniRef90_L2F6Z2 K E N I Q Q M R E
UniRef90_D5CRE2 D G A I A Q I R A Q V A A T E A L M
UniRef90_UPI000476285C D A T L E E I K G Q V A E F
UniRef90_C8N9F3 E R D L E R L R K S V E A Y E
UniRef90_X2HIJ2 T E W L R E V R R Y V V D R Q K E M
UniRef90_W8U0I2 A V Q E D Y L R Q I Q E M E D R
UniRef90_G4CNX6 P E W L K N V R S F V
UniRef90_UPI0003B5FA06 H D D A S A L I E S L
UniRef90_E6N0G1 T Q W L K D V R T Y V L A R Q S E M
UniRef90_A4G4R3 D A S L N E I G G Q I A D M E A A D
UniRef90_UPI0003818051 D L Q V E K I R Q Q L K
UniRef90_UPI00034A9DB4 D A L A E I A G Q V Q E M E A A D
UniRef90_D7N0K9 T Q W L K D V R S Y V
UniRef90_F1WZZ5 E Q A L S D I A V Q V D E F Y A N M
UniRef90_UPI000262CA50 K E W I D L A R A Q A
UniRef90_K9DTB4 D E A L D E I K S Q V G E F
UniRef90_D5V9R3 D T Y F A K L R S V V A E
UniRef90_UPI00046E59CE P R A R E A L R E H A L N L A R N R

UniRef90_F2BFL7 1 RVDQQTIAAMHLVVSRRSTISGS ELLRAAMEERAGFA LSHDGA F 40
UniRef90_G2DTL6 RVDQQTIAAMHLVVSRRSTISGS ELLRAAMEERAGFA LSHDGA F
UniRef90_UPI0002DA6850 D A Q L S I N V L V S R N S S P V W A G T L L S A L E E Q Q G F F D L R P D
UniRef90_F5S951 RVDQQTIAAMHLVVSRRSSS V L V T E L R L A V E E Q A G F V L Q E D G V F
UniRef90_J2W032 D V Q L S V N V R S S S G A P W S L A T L L A A L G R Q G F D R R T E
UniRef90_UPI0004757B13 Q E Q E L V L N L N L V S S M D K T K F D M N Q V L T L L K N L D A K Y S N G F F
UniRef90_K6H172 D A Q L G V N I Q S N G A P W A I S T L L A A L T R Q G F D A R P E
UniRef90_G0AJJ2 RVDQQTIAAMHLVVSRRSTISGS ELLRAAMEERAGFA LSHDGA F
UniRef90_C4GMK1 R P E A V V A L I L R A P D D Q P Y S G Y E V L E T A K Q L K L M V G T D G F L
UniRef90_L8Y0D3 Q E Y E V V A I L V M S T V Q E F S M P Q L N H A L L G V G L I F S D Q G I
UniRef90_UPI000381A298 D V Q L G V N V S D G A P W S A A Y V Q N V A T Q D G L V L S R D G T F
UniRef90_V2IMKO D A Q L S I N V M S D G A P W S A A Y V Q A V A S Q D G L L S R D G T
UniRef90_A3NWN9 K P P E L I V L T I M A P H N H P F S G K T I A R L V Q A F G L Q Y S P N Q T Y
UniRef90_G9ZHR2 D A Q L S V N V S D G A P W S A A Y V Q A V A T Q D G L L S R D G M
UniRef90_UPI0004731B82 K E Q E L V I L N L I S M D R S M F D M D Q L G F L T N Y G A I L K N N
UniRef90_J4KS71 Q E L A I L N L I S V D R S M F D N D Q V Y G F L T N Y G A I L K N N
UniRef90_UPI00037B5C5A E Q K L V V I L N L I S N D K S I F D I E Y G F M K N S N A F L T N G F F
UniRef90_F0SPI2 D Q T V A I L Y L V A D R N K P P G K E I W D F M C L G L Q W G T D M D C F F
UniRef90_UPI0003B4AE7D D V M I G L N V F L R A P V S A S Q I T E F I E R F G L E L H P D G R Y
UniRef90_UPI000382CAC0 P P Q L F A L I V M G T D D F V W P R V N Q T L Q G V G L P N E K G I F F
UniRef90_UPI00047BE8C3 Q V D Q T I A L H L V S R I G F L G A E L R S A L E E A G F Q L L G V F
UniRef90_A5EVZ6 D A Q L S V N V L T D G A P W S G S Y V Q A V A S Q D G M L L S R D G T
UniRef90_UPI00046480ED RVDQQTIAAMHLVVSRRSTISGS ELLRAAMEERAGFA LSHDGA F
UniRef90_V9HEA1 Q E L V V L N L I S M D K S S F D I E Q L L G F M N N S G A K L A H G F F
UniRef90_UPI000382CAC0 RVDQQTIAAMHLVVSRRSTISGS ELLRAAMEERAGFA LSHDGA F
UniRef90_UPI00037C603C RVDQQTIAAMHLVVSRRSTISGS ELLRAAMEERAGFA LSHDGA F
UniRef90_Q470D1 D V Q L G V N V S D G A P W S A A Y V Q S V A T Q D G L V L S R D G F I
UniRef90_UPI00041EBCC1 D T V A L I L S A A P E Q P F T F K E V L S V A H E L D L R V E N G G F I
UniRef90_F6DCB7 R E P E T F A I L V L S I A D E F S I K A I D Q V L K T N G L I Y A E A G I F
UniRef90_UPI000382CAC0 RVDQQTIAAMHLVVSRRSTISGS ELLRAAMEERAGFA LSHDGA F
UniRef90_I9W668 D T Q L G V N V L S D G A P W S A A Y V Q N I A T Q D G L V L S R D G R F
UniRef90_T0ZHI5 D A K L G I S I C S N G A P W Q K V T L N T A L E K Q G F E S R P D G Q F
UniRef90_C3X180 D A Q L G I N I R S N G A P W A L D S L R T M L E K Q G F E Q R P D F
UniRef90_UPI0004730DEB D A K L G I S I R S N G A P W Q V A T L N A A L E K Q G F E L R P D G G C
UniRef90_C3X7J9 Q V D I V G I N V H S P I K S P L G S R L K Y L T Q E G I S L G E D G G C
UniRef90_T1AVM2 Q E L V V F N L I S I D K S F D M D Q L F G F M N N T D A K F N N G F F
UniRef90_J5KKP1 F N L K S K D D K G V S A R E M A E F C D N V G L Q D S D Y I F F
UniRef90_UPI0002556280 K D I L I G L Q S E N G Y N G K E V W D V L Q S V L G L K W G D G D L F
UniRef90_A0A023C1S9 D V Q L S I N A T S D G A P W S A Q Y I Q T I A T Q D G L L S R D G T
UniRef90_UPI00034611FA D A L V G V S V R L L P G P L P A S S V I Q M V K D A G F L P F G
UniRef90_UPI000470F324 D A Q V G L T L L L P S A Q P P A A E V L S V A R E Q G F A A E G
UniRef90_UPI000370C784 D T Q V G L T L L S M S A P Q P M V Q I I G A A Q S L G F V A D G I L
UniRef90_U4TK78 I L N I I E S K S T G F L A Y A L F S L L K R S G L I F N D E I P
UniRef90_UPI00036CC37D P E D F Y Q F N I P E D N G M I P A S L V S Q L C D K Y H F F Q G E H D V Y
UniRef90_Q2KUU8 D T Q V G L T L L L G G A Q P A A E V L D V A R S L G F S P E G S
UniRef90_UPI00046CA640 F A L S I Y A P P G G Y R E R D L W V M C A R L G L K F G S H G S F
UniRef90_UPI00047C81FB D T Q V G L T L L M G A P R S A A E V V G V A R E L G F A P H P
UniRef90_F4LEP7 A E V L A V A R D L G F A A D G A
UniRef90_A0P6P2 V D R A L T L K V L P K S D T A F H P A A L D F F K S S S R S G N E A
UniRef90_UPI00036117EA D A Q L S I N L Q A Q G V A W G L D F L R Q Q A Q G C G F T T G R M A V E
UniRef90_E6PRN2 D A Q L S I N L Q A Q G V A W G L D F L R Q Q A Q A G G F E P G E T D I
UniRef90_D5X187 D A Q L S I T L R A R S V P W G L D F L R Q R A Q A A G F V P G A E R M V
UniRef90_UPI0004757B13 D A Q L G L T L R A R S N A A W S P G Y H Q S A S R L G F V A G V I P
UniRef90_F5XYL2 D A Q L G F T L R A R N A S W S P G Y I H Q N A A R L G F V A G V I P
UniRef90_C9Y5Z4 D A Q L G F T L R A R N A S W S P G Y I H Q N A A R L G F V A G V I P
UniRef90_UPI0004745C27 E V L Q A V K D A G F V Y G S Q
UniRef90_UPI000377EDDE V I Y L S A P R G Y V F N G Q D I L E L F S Q E G L H F N A A E
UniRef90_B1XTT9 D Q L S I N V L F D E S C P W G N F D A L M R Q R G F K L S R N G R Q
UniRef90_UPI00047C9E40 D A Q L G F T L R A R H S A W S P G Y V Q Q N A A R L G F I A G A I P
UniRef90_H5W110 D A Q L A I T L R A R S N S V A W S V G Y I Q Q C A A R H G F I P G A V A G K
UniRef90_UPI0004757B13 D A Q V G L I L R L H D V L T V A E I S G V L K E V G F L P Y
UniRef90_F4GMI4 D T Q V G L T V Q L A Q P H P V R S V I D V A R A K G F T E Y R N G
UniRef90_UPI00034BEEDC A W S V G Y L Q Q C A A R H G F V P G A V G R L
UniRef90_UPI00036A65B6 D A Q L T F S L R A R Q A A W S P G Y V Q Q N A A R L G F V P G V I P
UniRef90_Q21WC9 D A Q L G F V L R A R H A A W S P G Y V Q Q N A A R L G F V A G V I P
UniRef90_E7RVY8 L C A S S A A W S P G Y I Q Q H A G R L G F V P G V M G R M
UniRef90_UPI000474AD82 D A Q L S F M L R A R Q A S W S A G Y V Q Q A A A R E G F V P G S M G R M
UniRef90_UPI000289A076 I K I Q P K T D S S F H F G A F Q D F F N K A N I R L F K N Y
UniRef90_UPI00047E810B D A Q L S F T L R A I K T A W S P G Y V Q Q S A A R L G F I A G S V G R M
UniRef90_B6BTY7 A A W S P G Y V Q Q N A A R L G F V T G I I P
UniRef90_UPI00047BCB6D D A Q L G F T L R A R R A A W S P G Y V S Q H A S R L G F V A G T L G R M
UniRef90_E6VA26 D A Q L G F T L R A R R A A W S P G Y V S Q H A S R L G F V A G T L G R M
UniRef90_UPI0003740A0F D A Q L S F T L C A R A S A W S P G Y I Q Q H A A R L G F V A G V I P
UniRef90_M1SHE2 D Q L S I N V L F D E A T P G A N F D A L M R K R G F R L S R N G
UniRef90_A1TR22 D A Q L A F C L R A R H A A W S P G Y V Q Q N A A R L G F T P G A M P
UniRef90_UPI0003816D03 D A R V G V K L I L N G S Q P V K A V I E I A E R L G Y R E F G L G
UniRef90_UPI0003956ABE D A Q L A F M L R A K R A S W S P G Y V A Q V A A K H G F V P A G P G
UniRef90_A1VN97 A W S P G Y V Q Q S A A S Q G F V P S A T G R M
UniRef90_UPI0003788F53 D A R V G V K L I L N G P Q P V K A V I E I A E R L G Y S E Y G L G
UniRef90_G4QAB5 Q H D A Q L A C R L V A R G A A W S V A F I Q Q H A A R H G F V S G A V P
UniRef90_UPI000373995A D A Q L A F M L R A R Q A A W S I G Y L Q Q T V A R H G F V P G A L P
UniRef90_UPI0003816D03 D A Q L T F M L R A R E A A W S P G Y V Q Q N A A R L G F V P G A M P
UniRef90_A1WRA8 A I L A I A H R L G F V E Y G A G
UniRef90_V8G7X4 D A Q L S F A L R A R Q A A W S P G Y I Q Q S A A P L G F I V G S M P G R
UniRef90_UPI0003FE8197 D A Q L A F M L R A H Q A A W S P G Y V Q Q N A A R L G F V P G V L P
UniRef90_UPI0002377A51 D A Q L A V T L R S N H V A W S V G Y L Q Q T A K R H G F V P G S L P
UniRef90_I0HRW5 D A Q L T V T L R S N H V A W S V G Y L Q Q V S Q R L G F L P G A L G R L
UniRef90_F3LPS1 D A Q L T V T L R S N H V A W S V G Y L Q Q V S Q R L G F L P G A L G R L
UniRef90_UPI0003042830

UniRef90_F2BFL7 H L E E D G R T L F S V V T M D N S A F T A A L L A S Q H Y K G F S L L 80
UniRef90_G2DTL6 H Y P K D G E P L F S I I T L D N S P F T S S L L A S S Q A Y T R G F S M L L
UniRef90_UPI0002DA6850 G R L V M P D N G E G G S L F S I S T L D N S V N A P L A A S E T T Y K G F S M L L
UniRef90_F5S951 T L L T M G D V Q Y T L S T L D G T A F T D A L L S S Q P Y K G F S M L L
UniRef90_J2W032 G Y L V M Q D G E G E V L F A V L S T N A S Q A D E T T E R L T L L L
UniRef90_UPI0004757B13 V Y K S E S G K T L F A V L S N Q D Q A G L G P T S T D G L T L L L
UniRef90_K6H172 S Y R D L N G K E I F R V A S G I N P G L L E P D T R T H V L L L L A
UniRef90_G0AJJ2 G R M V M S D G E G G L L F S L S T N A S A V A E T T S R V L T L L L
UniRef90_C4GMK1 A Y L L G S D G D P K Y T I A A L D G S V F F T E A L L S N Q A P Y K G F S M L L
UniRef90_L8Y0D3 Q Q L V T T Y L G D E P M Y S I A A N M I H P G S F D P D I L L E A E P G L L F F
UniRef90_UPI000381A298 Y V K Q D N M G N E I I K V A N L L E P G Y F P K E H E D Y A T P G I A M I
UniRef90_V2IMK0 T R Y Q A P D G L Q R A L F T L Q F G D T N F L R D D L T V K A G S Q I T L L L
UniRef90_A3NWN9 R F V K L D A K Q N P V F M L Q F G D T N F L R D D L T Y K G I T L L V
UniRef90_G9ZHR2 E L I G A G G R E I F C T M L D V R R P G I F P Q N L D N H N Y E G L M L V
UniRef90_V5PSD4 R F V K L D T R K N P V F M L Q F G D T N F L R D D L T Y K G I T M L
UniRef90_UPI0004731B82 Y F A F Y Q D N K E I K F R V I N A L K P G D T F E D E T K S F A I A V S
UniRef90_J4KS71 Y F S Y Q D I N G N E I F R V A N A L N P G T F D N D T K T F A I V A A S
UniRef90_UPI00037B5C5A V I K D T N N K E S F R I A N A L N P G T F E N E T E T F A I L L A
UniRef90_F0SPI2 H W N N P D G A G D Y F F S V E T S T P P G Y F L P E Q G Q L E T R D L I F L L
UniRef90_UPI0003B4AE7D H C V S D S G N S L Y S L P G A F D E E L E G E N V E A L I F L L
UniRef90_UPI000382CAC0 G V K K D T L G N E I L R V A S L L E P G T F P I D N D A H T T A G I V L I
UniRef90_UPI00047BE8C3 G F A D T G G D I K Y T I V T L D G S R R T S S L L A S Q P Y K G F S M L L
UniRef90_A5EVZ6 E R L D D S G S N V L F S V L N A Q R P G T F P E K L E L M T T T G I M L I
UniRef90_UPI00046480ED R F V K L D A Q Q N P V F T M T N M N F L R D D L T Y K G I T L L
UniRef90_V9HEA1 G Y L D Q N G E V K F T A V T L D G S L F T P Q L L A S Q P Y K G F S M L L
UniRef90_UPI000288C0B9 S L K G K S N K E I F R V A N A L N P G T F E E N T K T F A V I M A
UniRef90_UPI00037C603C W F S D E H G K N L F N A V N L D S T P F I N S T A L E N H A Y R G F S M L L
UniRef90_Q470D1 R Y H A N A E G V Q R P L F A L Q F G D T N F L R D D L T V K G I T L L L
UniRef90_UPI00041EBCC1 Q L L T T T H Y G D E P M Y S I A H L L G D G T F D E N L L D D T T P G L I F F
UniRef90_F6DCB7 V K K V N N K T V L R V A N I F E P G I F P A E W E E A S T A G I A I T
UniRef90_F0F080 A T R N K A G D P E Y V V V A N I L D G T A F T E A L L A Q Q S Y K G F S M L L
UniRef90_I9W668 T R H P G S D G V Q R A L L T L H F G D T N F L R D D L T A K A G H Q I T L L L
UniRef90_T0ZHI5 H K P D E T H R A V V S V A S L T R P G T F D L D M D S Q R Y A G L S L F
UniRef90_C3X180 V M R D K E N G G V L F T L S T N E L P A S E T A T R L T L L L
UniRef90_UPI0004730DEB G R F S M P D G D G G N L F L L S A N A P A G A T T A R L T L L L
UniRef90_C3X7J9 V M K D Q N G Q T L F T L S T N E L P A S E T A T R L T L L L
UniRef90_T1AVM2 H A R T A D G Q D R F T L I R Q D G A P F L P V N L D H E P I S A V T L L L
UniRef90_J5KKP1 S V L S S G N E E Y R I A N A L N P G L L N E E T K T F A I I V A
UniRef90_UPI0002556280 F N K D E E N R S I F G V C G N S E P G F F P L N S D N V N Y E I N I
UniRef90_A0A023C1S9 H W N S S D Y A S D Q H F S V W T S T E P G Y F L P E Q G K M N P T N L V F E
UniRef90_UPI00034611FA R F I K L D A Q Q N P I F M L Q F N N I N F L R D D L T F K G I T F L L
UniRef90_J0UW84 Q Q L A W L A D S G Q P R F T A M F D G A Q K D I Q S A S I E R I D L L
UniRef90_UPI000470F324 A R L A W L A D G G E V R F T L A R G D G A A F D A G M G G I E R L S L L
UniRef90_UPI000370C784 R L A W L S E Q N Q V C F T L L R A D S A A M E T G M G A T D R L Y L L L
UniRef90_U4TK78 Q V F E A K N E Q G E V D F Y I T S A V A P G V F D I K N A M V S P A V S V F
UniRef90_UPI00036CC37D E Y R R D G R T L F T V C G N K A P Y G F P K E I L S L N Y K A I I V S
UniRef90_Q2KUU8 R L A W L A D N G A V R F T L A R G D G A P F D A G T G G V E R L Y L L L
UniRef90_UPI00046CA640 D W Q L P G F A H P L L S V T P F G D T D A F A L S N A G A T H L G V T I G
UniRef90_UPI00047C81FB R L A W L A D N G V P R F T L S R G D G A A F D D G M A P V E Q L L M L
UniRef90_F4LEP7 R L A W L A D N G A V R F T L A R A D G A A F D A G M G G I E R L Y L L L
UniRef90_A0P6P2 H R L L N P K N E N E S I C D I V N L S G K P L E I N Q E A F V Q G I T F K
UniRef90_UPI00036117EA S Y A E D A E G Q G E P R Y A V Q L L D A H A E L A D D P A M P V V A R A T L L
UniRef90_E6PRN2 A E P G R P V S M V Q L Q F D A Q A A L A D N P E M P V S R A T L L
UniRef90_D5X187 L L Y Q D V E Q A P T P L V H L Q F D A R A D L S D S A A A V S H A T L L
UniRef90_F5XYL2 G R L V L P A S Q P P V L S L S F D T Q A A L A E D P A Q A A I R E L S L S
UniRef90_C9Y5Z4 G R M V L P A G L P P V L V L S F D S Q A A L A D D P A Q S A I R E L S L H
UniRef90_UPI0004745C27 L A W M S E A G V P R F I L L F D G E P A A D F Q S E G V D L L
UniRef90_UPI000377EDDE N S F Q F I T E D G D V L Y S I V A D E K E P L F S G D T F S S E Y T L L L
UniRef90_B1XTT9 Y E Y L S K G I V L F N S A D L D P N K T V T Q V T L L L
UniRef90_UPI00047C9E40 G R M V L P A T A Q G Q P H L L V L T F D T Q A A L A E D P T Q S A I R E L T L S
UniRef90_H5W110 L V L P S D A G E P L L T L A F D A Q A A L A E D P H I A A V R E V V L W
UniRef90_F4GMI4 G R L A W M S D T G L P R F T A M L D G A P A L D A Q S S G V S R V D L V
UniRef90_V8QQR8 L A W M N H D G L P R F V L L A G E H A D D P A N A G V S R V D L L
UniRef90_UPI00034BEEDC V L P S A D E G A P P V L V L A F D S Q V A L S D D P G Q A A I R E V S L S
UniRef90_UPI00036A65B6 G R M V L P S A G L P P M L G L T Y D A Q A A M A D D P E Q S A L R D I S L H
UniRef90_Q21WC9 G R M V V P A G M P V L G L S F D T Q A A L A D D P A Q S A L R D I V A I S
UniRef90_E7RVY8 R Y E A F A D S G P S L F T L A F L A F N Q T R D Q I D F M
UniRef90_UPI000474AD82 V L P A A E Q G M P P V L A L T F D S H A A L A D D P A L S A I R S F T L S
UniRef90_UPI000289A076 T I A N S Y P P G T L P P D G D D Q P T A G V S I L
UniRef90_UPI00047E810B V L P A A M A G L P P V L V L N Y D P Q A A M A D D L S V V R E F M L S
UniRef90_B6BTY7 H W Y F D P K V D G Q K M F K I M N L N R Q P L K I D S D A F I Q G I T V S
UniRef90_UPI00047BCB6D V L P A S Q T G Q A P L L G L T F D T Q A A M A E D P E Q T A L R E V T L S
UniRef90_E6VA26 G R M V L P T G E A P I L G L A F D T Q A A L A D D P A Q S A I R E L S L S
UniRef90_A0A024IC10 V L P A S Q P G Q P P V L L S F D T Q A A L A D D P A Q S A I R E I T L S
UniRef90_C5CNU4 L S F D T Q A A L A D D P A Q S A I R E F S L S
UniRef90_UPI0003740A0F G R M V L P A A G L P P I L S L T F D T Q A A M A D D P A L S A I R E F S L S
UniRef90_M1SHE2 R A Y E F Y S N G T L I F T S A E I D P N A P V K Q A T L L
UniRef90_A1TR22 G R L V L P A G G Q P V L T L S Y D T Q A A L S E D P E Q S A I R D I T L L
UniRef90_E8UGN0 H V M L D N H N V L F H L M L Q G E Y S A Q V R S A G I E Y V E L I
UniRef90_UPI0003956ABE R M V M P S G E Q M P A I L A L T Y D A Q A A L A D D P E A S A L R D V L L S
UniRef90_A1VN97 L L P A S Q P G Q H G P I L G L S F D S Q A A Q A E D P E Q T A L Y E L T L L
UniRef90_UPI0003788F53 L A W L N N Q G Q V C F Y M L F D G L A S D V E S A S V E R L E L L
UniRef90_G4QAB5 H V M L D E N N V L F H L L L D G E Y S T Q V R S A G V E F V E L I
UniRef90_UPI000373995A G R L V L P H E G D P A I L T L Q F D A Q A A F A E D P N R A A V R E V T L A
UniRef90_UPI0003816D03 G R L V L P S E G A P L L S L E Y D T Q A A L A E D L E Q S A I Y E T L L G
UniRef90_A1WRA8 G R L V L P A S Q P P M L T L S Y D T Q A A L A D D P D Q S A L R D I S L G
UniRef90_V8G7X4 H V R L H E N G K P L F L L L L G G E L S S E V R S A G V D F L
UniRef90_UPI0003FE8197 L V L P A A D A G L P L L T L S Y D A Q A A M G E D E P E R S A L R E V S L A
UniRef90_UPI0002377A51 G R L V L P A S A Q P P L L T L G Y D T Q A A L A E D P E Q S A I R E L T L S
UniRef90_I0HRW5 G R L V L P A E A G A P P M L V L S F D P Q A A L A E D G Q L A V R D C T L A
UniRef90_F3LPS1 V L P G P E A G A P P V L V L S Y D S Q A A L A D D A Q M A V R D C T L T
UniRef90_UPI0003042830 T V A N A F P G D M P D L L R G E T I R G V S L L

UniRef90_F2BFL7 F D I L P H V P V G S R N F D R F M D L T V R F S S E L G L D L V N D K L E E L S
UniRef90_G2DTL6 F D I L P H V P V A G E K Q F N D F M D L A V K M L A S S K L S L D L V V N D K K L E E L S
UniRef90_UPI0002DA6850 L D I V P R V A P A R G E E G F N G A M T A C A K M L A S S R L N D G K L V V D D D Q Q L Q R P L S
UniRef90_F5S951 L D I V P R V A P H G R E E V F N G A Q F I G V A V K L A S A R L N D L D L V V D D D D Q Q L Q R P L S
UniRef90_J2W032 L D I V P R V A P A R D G Y G A L V A C A R S L A S A R L G G G A M V V D D D D D Q Q L Q R P L S
UniRef90_UPI0004757B13 F D V L P R V A G G P L A V F D Y L S D F A Q S N I A A E K L H A S I C D D D S S N G R A P L S
UniRef90_K6H172 L D I L H Q V V T D P L K A F E L L E V A S N I A A E K L H A S I C D D D S S N G R A P L S
UniRef90_G0AJJ2 L D V P R V A P D R D G Y G A M V A C A R S L A A E R L G G V L V D D D D Q Q L Q R P L S
UniRef90_C4GMK1 L D V T R V P D P A E M D T V E N F M N I A A V K L G S Q S I G G T L L D D D H Q R P L S
UniRef90_L8Y0D3 F S I T R G V D P S A Q E D T V E N F M N I A A V K L G S Q S I G G T L L D D D H Q R P L S
UniRef90_UPI000381A298 L E L P S T V R A P A A M H D L I M M A R K V S Q R R L E G R L Y N D M E R R Q L M K T
UniRef90_V2IMKO L D V P Q A S D A V K P L K T M C E Y G D S L A S E R R M G A R R V D D D D Q Q R R P L T
UniRef90_A3NWN9 L D V P V A Q E D I L P F R L M C D Y A K S L A S E R R M G A R R V D D D D Q Q R R P L T
UniRef90_G9ZHR2 L D Q L P V S Q E E D P V K D W E T F S A L A H E M A E H C D G C L S D D H K R R R P L E S
UniRef90_V5PSD4 L D V P V A D E D P L P F R L M C D Y A R S I G G R L G G R V L D D D D Q Q R R P L T
UniRef90_UPI0004731B82 D L N V V D D P L N T V F K Q M I E F S V S E K F Y A T I C C D D E E Q
UniRef90_J4KS71 N L S L T T D P V L D A V K Q M I E F S V S E K F Y A S I C C D D E E Q
UniRef90_UPI00037B5C5A A D L N N V S N P L S V A K R E M V N F A Y Q F S E K F Y A N I C C D D E E Q
UniRef90_F0SPI2 F S V P R T C G P A E V A K R M D K A V Q Y C S Q K R L G G A I H Y R T L G
UniRef90_UPI0003B4AE7D F D V P R V A G G T E V F E R A V Q F A R E L A R T F N G H L V D D N Q R R T L S
UniRef90_UPI000382CAC0 V E L T T V K A P A V A F H D Q L M M A R K L S S T R L N G R L Y D D H Q R H L K S
UniRef90_UPI00047BE8C3 F D I T R V P P G E G N F D Q F M L A V R L S S T L G L E L V D D D Q Q L Q R P L S
UniRef90_A5EVZ6 M Q L P T S Y D A T E S C E N F I A H A K E I A A H L N G R L V L D D F N Q Q H S V L G
UniRef90_UPI00046480ED L D V P V A D E D P L P W R L M C D Y A R S L A S Q R I G A R R L V D D D Q Q R R P L S
UniRef90_V9HEA1 F D I T R V P H G D Q H F E E Y M D L A V S L A S Q T L H L E L V D D D Q Q R R P L S
UniRef90_UPI000288C0B9 T D L N N V E E P L L A V R E M V A F A Y N F S E K F Y A N I C D D G E R L P I T S
UniRef90_UPI00037C603C Y D L T K V P V G E K T F N H F M D L V V K L S S M L G L D L V D D D Q Q R R P L S
UniRef90_Q470D1 L D V P Q A D Q A G K P F K T V C E Y G N S L A Q R M G A Q L V D D D N M R P L T
UniRef90_UPI00041EBCC1 S K I P G P D P D I E Q L L A G T H H F H S T L G G T L L D D A Q R R P M S
UniRef90_F6DCB7 L Q L P T H I K A P R A M D E L I L T A R R V S Q S L R G R M Y D D H M R M L R S
UniRef90_F0F080 F D I T R I A D G A D K F N Q F M A L A V K L S S G A M N L Q L V D D M E V R R Q L
UniRef90_I9W668 L D V P T S D A Q L K P F K L I C E Y A Y S L S Q R M G A R V V D D D N L Q P L T
UniRef90_T0ZH15 V V L P G P S P E Q K A F D E L V D V A L N L C E R L Q G G E L Q D D A R G N Q L T
UniRef90_C3X180 M D V P C C V A P E K E G F S Q M I C C G K A L C I R L D G A L V D D D G N Q L L S
UniRef90_UPI0004730DEB L E V P C C V A P L R D G F G A M T A C A R V M A G K L D G S V V D D D G D Q L L S
UniRef90_C3X7J9 L D V P C C V A P E K D G F G Q M I C C A K A L C V R L D G S V L I D D D G N Q L L N G
UniRef90_T1AVM2 L E V V R V P P V I F K E M F A V A E R L A L V L D D D G N G E R L G
UniRef90_J5KKP1 A D L V T V D D P I L T L K S M V D L S Y L F A E K F H A N I C D D Q E R T P I T
UniRef90_UPI0002556280 M N L P E R G A E S Y F L Q T A N F A Y L L Q Q L D L V L V N N R N G E S E M T
UniRef90_A0A023C1S9 F S I P R S A D P I N V Y R V L V N S I K Y C T Q K R L G G E I J N N R N G E S F N
UniRef90_UPI00034611FA F D V P A A D E E A F P F R L M C N Y A T S L S Q R I G A H L T D D D K Q R A L S
UniRef90_J0UW84 L D L P C S P A D D E H A F S R M A T V A R D L A S R L D G V L V D D D Q Q R P L P
UniRef90_UPI000470F324 L D V P C S P A D D E R A F G R M V D V G R H L A S R L R A E L V D D D Q Q G R P L A
UniRef90_UPI000370C784 L D V P C S P A D P R A F G R M V D V G R G L A S R L G A D L V D D D H G K P L V
UniRef90_U4TK78 A R P D L Q T N P R M S F F K L E E S T H T I A S E L D G R V L N M N R E T L S
UniRef90_UPI00036CC37D M V L P E R G E A E F T Y S E M S K F A Y L C R E V G G K M V D D D Q Q K K P F D
UniRef90_Q2KUU8 L D V P C S P P D P H A F G R M V E V G R D L A A R L R A E L V D D D Q Q C R V L A T
UniRef90_UPI00046CA640 F S L P C S P S P S Q A L G G C F H V A Q D I S R D M G G D V R D D D D D R K L T
UniRef90_UPI00047C81FB L D V P C S P A D P R A F G R M V D V G R D L A A R L Q A E L V D D D Q Q G K P L V
UniRef90_F4LEP7 L D V P C S P A D Q R A F G R M V D V G R D L A A R L R A E L V D D D Q Q G R P L Q
UniRef90_A0P6P2 M D V P N T K N I T H A F N E M I K I T R E A C S Q L N G A T L V D V G G K P M N S
UniRef90_UPI00036117EA L D V P Q Q V P Q A L R P F A R M R E A A R Q L G Q A L D A K Q V D D D N G A P L S
UniRef90_E6PRN2 L D V P Q Q V P Q A A Q K P F G R M R Q A A R E L A T A L D A A I V D D D N N A V L P
UniRef90_D5X187 L E V P Q Q V P R A E Q P F V R M C D V A V T L A A A M D G A I V D D D H G Q V I R
UniRef90_F5XYL2 L D V A Q V D R A E R P F D R M R E T A D A L A A M E G V V T D D D N G Q P L A
UniRef90_C9Y5Z4 L D V P R S Q P D E A F S R M A S V G R D L A A R L G G T L V D D D N G A Q P V L
UniRef90_UPI0004745C27 L D V P R S Q P D E A F S R M A S V G R D L A A R L G G T L V D D D N G A Q P V L
UniRef90_UPI000377EDDE V K L A K F Y D A L I C F E H F S S V S G L N T R L G A T M L N E H K R F F T
UniRef90_B1XTT9 L E V P L V P Q E E R A F E R M L S E G V E I A Q A A H G R L V D D D N G I N L S
UniRef90_UPI00047C9E40 L D V P Q V H R G E Q P F A R M C D A A L A T A M D G V I T D D D N G Q V I Q T
UniRef90_H5W110 L D V P Q S P E S A E P F A W Q S A R A L C A D M D A T A V D D D Q G A V I V T
UniRef90_F4GMI4 L D L P N S P A D E Q A F S R M A S V G R D L S R R L K A E L D D D Q G G H A V S
UniRef90_V8QQR8 L D V P C S P P D D T P F A R M M A V A R D L A L S L D G Q L V D D D S G R V I M
UniRef90_UPI00034BEEDC L D V P Q T P E S G E P F A A W Q E C A R R L A D D L D A T L V D D D R G T V I T
UniRef90_UPI00036A65B6 L D V P Q Q V P R S E Q P F F R Q L R Q V A Q A L A E A M D G V V T D D Q N G N V I P
UniRef90_Q21WC9 L D V A Q V D R S E R A F E R M R E T A L A A D S A M D G V V T D D S N G V L A S
UniRef90_E7RVY8 L D V P R T A R E K Y E A W E G M V A C A Q S M A G L G G R L V D D S N G R G L S
UniRef90_UPI000474AD82 L D V P Q T A R E D E P F T R L R E A A R L L A E A M D G V V T D G E G Q M L N S
UniRef90_UPI000289A076 I H F L S K R S V A R N P D T L R I Q I T Q A I A D I G G H I L D A E R N A V S
UniRef90_UPI00047E810B L D V P L V I A R E E Q P F A R L R E V T Q N L C Q A M D G V L C D A N G Y L P
UniRef90_B6BTY7 L D I P S T N N C I D A F D E M T N L M N E F C I K L N A V M V D G R N K E I D
UniRef90_UPI00047BCB6D L D V P Q V L R S E E Q P F A R M C E A A I A L A T S M D G V I D D D N G N P L R R
UniRef90_E6VA26 L D V P Q V D R A E E P F F R M R E A A A T L A R E M D G V V T D D S D G Q L R
UniRef90_A0A024IC10 L E V T H V A R D E E Q P F S R L R Q A A Q A L A E A M D G L V T D D S A G A P L P
UniRef90_C5CNU4 L D V P Q V D R A E E Q P F F R M R E A A A T L A R E M D G L V T D D S D G Q L R G
UniRef90_UPI0003740A0F L D V P Q I A R E D Q P F G R L R E V A R L A E H M D G V V T D D S N G Q M L G
UniRef90_M1SHE2 L E V P L V S Q E E R A F E R M L G E G I E I A Q A A H G R L V D D D N G I N L T
UniRef90_A1TR22 L D V A Q V H R S E E Q P F A R L R E V A A S L G Q A M D G V L C D Q N G T P L P
UniRef90_E8UGN0 I D V P N S K P I E N P F S N L C D H A F K L A S A L D A S V V D D D N D K P L T
UniRef90_UPI0003956ABE L D V P H V A R S E K P F D K M R T A A E A L C A E M D G V I C D D Q N G T P L P
UniRef90_A1VN97 L D V P Q V L R A E A A F A R M C E V A I A L A G S M D G V I D D D N A I L V R R
UniRef90_UPI0003788F53 L D V P N S P A D R A H A F G K M G E A A R D L A G L R A S I V D D D Q N Q P L R
UniRef90_G4QAB5 L D V P N S K P I E N P F S N L C D H A F K L A S A L D A S V V D D D N D K P L T
UniRef90_UPI000373995A F D V P Q T S A A E S P F L A W Q S A Q A L A E G M E A A V M D D A G Q P L G M
UniRef90_UPI0003816D03 L E V T H V P A E E R P F A R M C E I A L Q L A E D M G G N V T D D G N G I R I M
UniRef90_A1WRA8 L D V A Q I D R T E E Q A F A R L R D V A A A L C E A M D G A L C D D H Q G Q P L P
UniRef90_V8G7X4 I D V P N S Q P V D Q P F T R L R S K A A F E L A K A L N A E V V D D Q G Q P L T
UniRef90_UPI0003FE8197 L D V P Q V A R G E Q P F A R L R E V A K A L G E A M D G V L C D D P D G Q M I P
UniRef90_UPI0002377A51 L D V A Q V Q R A E Q P F V R L R S V A Q A L C T A M D G V L C D D Q N G Q P L P
UniRef90_I0HRW5 L D V P Q T E A R L E P F P T W H R L T T T L A D E M D A T I V D D D Q G Q P V T
UniRef90_F3LPS1 L D V P Q T E A R L E P F P T W H R V T T T L A D E M D A T I V D D D Q G Q P V T
UniRef90_UPI0003042830 V K P P L H K R R N Q Q M H V Y V E L A K E M N E T F S G D M L D A D R E P A S

UniRef90_F2BFL7 ME W L K D V G R Y V A A R Q E E M
UniRef90_G2DTL6 T E W L V E V R R Y V L A R Q D E M
UniRef90_UPI0002DA6850 D A A L E E I A A Q V Y A F
UniRef90_F5S951 T D W L K E V R S Y I H A R Q D E M
UniRef90_J2W032 D V A L A D I A E Q V A A F Y S A M
UniRef90_UPI0004757B13 A A S L D N I R R R Q L A R L Y A T M
UniRef90_K6H172 K Q M I E H I K S K A Q E V
UniRef90_G0AJJ2 D V Q L A E I A G Q V D A F Y R E M
UniRef90_C4GMK1 T E W L K E V R T Y V R Q T E M R R
UniRef90_L8Y0D3 A E Y V Q N L V A Q A R A
UniRef90_UPI000381A298 E S D L Q A M R D T A V A Y E S
UniRef90_V2IMKO E T S F V A I F Q Q L Q A L Y D
UniRef90_A3NWN9 E S T L L A I E Q Q L M K L Y A R
UniRef90_G9ZHR2 E R A F A R Y R K N I E G Y E E H
UniRef90_V5PSD4 D A A L Q N V D K Q L K L Y E R L E A
UniRef90_UPI0004731B82 K Q M I S H I E S R A Q D I A R
UniRef90_J4KS71 K Q M I S H I E S R A Q D I A R
UniRef90_UPI00037B5C5A K Q M I S H I E S Q A Q E I M R
UniRef90_F0SPI2 E D T I S E L I E R V S Q I E A
UniRef90_UPI0003B4AE7D E T G I D T L C R Q L D Q L Y T R M
UniRef90_UPI000382CAC0 E S D L Q A M R D A A V A Y E S
UniRef90_UPI00047BE8C3 T D W L K E V R T Y V
UniRef90_A5EVZ6 E K E L A N Y R H A A E I F Q
UniRef90_UPI00046480ED D A S M Q A I D D R L M T L Y A R
UniRef90_V9HEA1 T E W L K N I R S F V L D
UniRef90_UPI000288C0B9 K Q M I S H I E T K A Q E V T R
UniRef90_UPI00037C603C T Q W L K D I R T Y V
UniRef90_Q470D1 E A S F V A I F N Q L
UniRef90_UPI00041EBCC1 N D D L I A L F H K I N E W E R A
UniRef90_F6DCB7 E T D L Q A M R E R A L D Y E T
UniRef90_F0F080 T D W L K E V R S Y V Q D R Q E E M
UniRef90_I9W668 E S S F V A I Q K K L
UniRef90_T0ZH15 D E S I G L L R E S L
UniRef90_C3X180 D R F L E E I A G Q V N D F Y R E M
UniRef90_UPI0004730DEB G E A L A E I A A Q V A A F Y D D M
UniRef90_C3X7J9 D S F L E E I S G Q V K D F Y S E M
UniRef90_T1AVM2 V R Q C T T I E K Q L A Q V
UniRef90_J5KKP1 K Q M I S H L E N K A Q E L A R
UniRef90_UPI0002556280 T A D F Q S Y V E S I Q E
UniRef90_A0A023C1S9 E Q M L I Q L A E L I K Q M N D
UniRef90_UPI00034611FA A A E L A A I E Q Q L
UniRef90_J0UW84 E S T D Q N I D E Q L R T L Y E R
UniRef90_UPI000470F324 Q G A E Q V I D G Q L Q T F F E R
UniRef90_UPI000370C784 E G A E A S L D E R L Q
UniRef90_U4TK78 E A S V S A
UniRef90_UPI00036CC37D E A
UniRef90_Q2KUU8 E G A E N V I D E R L Q
UniRef90_UPI00046CA640 E K I R Q E L R E N L R
UniRef90_UPI00047C81FB D G A E T V I D E R L Q
UniRef90_F4LEP7 D G A D A V I D E R L Q
UniRef90_A0P6P2 D D Y I S K V Y V Y L K G V E Q K M
UniRef90_UPI00036117EA P A A L D Q I E L Q L Q R L Y A S
UniRef90_E6PRN2 P T S L D Q I E Q Q L Q R L Y A A
UniRef90_D5X187 D A A L D H I E K Q L
UniRef90_F5XYL2 P E A M E V I A A D L Q
UniRef90_C9Y5Z4 A Q T M D V I A A D L Q
UniRef90_UPI0004745C27 E N A D H A L D E K L H E
UniRef90_UPI000377EDDE S S D D A T Y R S K M
UniRef90_B1XTT9 E A A V I S I R Q H L
UniRef90_UPI00047C9E40 A E G M H V I
UniRef90_H5W110 L H A F A N I G Q E L Q Q
UniRef90_F4GMI4 D T A D Q A I D E Q L L E L Y G R
UniRef90_V8QQR8 E G S E H A I D E Q I R
UniRef90_UPI00034BEEDC L H A F A T I G Q E L G R L Y R A
UniRef90_UPI00036A65B6 D Q A M D A I
UniRef90_Q21WC9 P E A M D T I G A E L E Q L Y D
UniRef90_E7RVY8 V G M I G T V R Q L A R R Y
UniRef90_UPI000474AD82 A D A L D Q I G S D L Q Q L Y D A
UniRef90_UPI000289A076 A E E F E A L R Q Q A Q R M A R
UniRef90_UPI00047E810B A M A L D P L A Q D L E Q L Y D
UniRef90_B6BTY7 S V Y V A H M N Q I V K E M E K H N
UniRef90_UPI00047BCB6D P E A M E V I Y A D L E Q L Y D
UniRef90_E6VA26 D E T M D V I
UniRef90_A0A024IC10 A E A M D H I
UniRef90_C5CNU4 E E T M D A I G A D L E Q L Y D
UniRef90_UPI0003740A0F E D V L D Q I A N D L H Q L Y D A
UniRef90_M1SHE2 E A A V I S I R Q H L
UniRef90_A1TR22 A M T M D P I A A D L L Q V
UniRef90_E8UGN0 P N D I P Q I D A Q L L Q V
UniRef90_UPI0003956ABE A Q D L E N L Y D Q L E Q
UniRef90_A1VN97 P E A M E A I H A D L E E L Y D R M
UniRef90_UPI0003788F53 D D L V A A V D E Q I Y E I
UniRef90_G4QAB5
UniRef90_UPI000373995A P Q A F E A I
UniRef90_UPI0003816D03 P E S M E K I A Q E L
UniRef90_A1WRA8 A M A M E P I A A D L E R L Y D
UniRef90_V8G7X4 P N V I E V M D K Q L A E V Y A
UniRef90_UPI0003FE8197 A M A M D P I A A D L E Q L Y D
UniRef90_UPI0002377A51 S M A M D P I A A D L
UniRef90_I0HRW5 L H A F D A I G R E L E Q
UniRef90_F3LPS1 L H A F D A I G R E L Q Q L Y A
UniRef90_UPI0003042830 E S T Y A Q I

UniRef90_V4YGZ2 P Q T L D Q I G Q D V E E
 UniRef90_UPI00036B58AF D A Q L Y E I Y Q R L E E
 UniRef90_A0A059KIU8 A E S F A M I R E D L
 UniRef90_B1Y6E2 P A A F P Q I A E E L A T L Y A K L A
 UniRef90_F3KR93 V E D L D R I G A E L E S L Y D A
 UniRef90_UPI0003480885 D D T Y E A I

130

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm

6 8 9 9 9 9 9 9 9 9 9 9 8 5 1 9 9
 B B B B B B
 B