

QUERY	1	10	20	30	40
UniRef90_I9DT21	M	L	N	L	L
UniRef90_L0EFU5	E	V	H	H	L
UniRef90_A0A023DAX5	D	S	K	K	L
UniRef90_E4PP86	T	I	R	F	L
UniRef90_UPI0004655362		G	R	F	L
UniRef90_C4LBL4		I	R	F	L
UniRef90_U1YHH9		N	R	F	L
UniRef90_C8W5F0		H	R	F	L
UniRef90_Q3A008		V	K	F	L
UniRef90_F6CIY0		V	R	F	L
UniRef90_UPI0003B7532		V	R	F	L
UniRef90_C0ZAG9		V	R	F	L
UniRef90_D5XEC7		H	R	F	L
UniRef90_N6W2J1		H	R	F	L
UniRef90_N9VL02		L	R	F	L
UniRef90_UPI0003F4F1F3		I	R	F	L
UniRef90_UPI0003806749		I	R	F	L
UniRef90_Q9ZGG6		I	R	F	L
UniRef90_UPI00028A3DDE		I	R	F	L
UniRef90_V5F0D9		I	R	F	L
UniRef90_X0U387		I	R	F	L
UniRef90_UPI00041509D9		I	R	F	L
UniRef90_UPI00037BF0C7		I	R	F	L
UniRef90_L8A2F0		I	R	F	L
UniRef90_D5WUM2		I	R	F	L
UniRef90_D0KZK6		I	R	F	L
UniRef90_L8D237		I	R	F	L
UniRef90_UPI0003B6D414		I	R	F	L
UniRef90_Q1JVU1		I	R	F	L
UniRef90_G4QH62		I	R	F	L
UniRef90_A0A031M612		I	R	F	L
UniRef90_V5BET8		I	R	F	L
UniRef90_UPI0004278E12		I	R	F	L
UniRef90_Q1QXC7		I	R	F	L
UniRef90_W6MA81		I	R	F	L
UniRef90_Q39QM8		I	R	F	L
UniRef90_E8M4H3		I	R	F	L
UniRef90_A4XR60		I	R	F	L
UniRef90_D2UBH4		I	R	F	L
UniRef90_U1KC65		I	R	F	L
UniRef90_A5CW97		I	R	F	L
UniRef90_H8L5B9		I	R	F	L
UniRef90_UPI000363BF23		I	R	F	L
UniRef90_UPI00037814C3		I	R	F	L
UniRef90_F5LJR0		I	R	F	L
UniRef90_A0A023Y6K2		I	R	F	L
UniRef90_UPI00047BCE1A		I	R	F	L
UniRef90_Q8DFF8		I	R	F	L
UniRef90_W4DVB9		I	R	F	L
UniRef90_Z5XS54		I	R	F	L
UniRef90_K8X1Y8		I	R	F	L
UniRef90_UPI0004291616		I	R	F	L
UniRef90_S9SSM1		I	R	F	L
UniRef90_C0N5V3		I	R	F	L
UniRef90_Q2SL96		I	R	F	L
UniRef90_UPI0004780C0D		I	R	F	L
UniRef90_F6DSA6		I	R	F	L
UniRef90_UPI00037E45FC		I	R	F	L
UniRef90_K8GH50		I	R	F	L
UniRef90_F8A990		I	R	F	L
UniRef90_F8FNS4		I	R	F	L
UniRef90_UPI00036B5997		I	R	F	L
UniRef90_B1I4J1		I	R	F	L
UniRef90_E1VKV2		I	R	F	L
UniRef90_UPI00047E3E05		I	R	F	L
UniRef90_K0NE20		I	R	F	L
UniRef90_A1SV88		I	R	F	L
UniRef90_M4NBS6		I	R	F	L
UniRef90_UPI00036FDD59		I	R	F	L
UniRef90_M5DPB6		I	R	F	L
UniRef90_A4CFK7		I	R	F	L
UniRef90_B8PZU6		I	R	F	L
UniRef90_F9ZXN7		I	R	F	L
UniRef90_C6CHL6		I	R	F	L
UniRef90_G2DT12		I	R	F	L
UniRef90_I1YJZ0		I	R	F	L
UniRef90_F6CRJ6		I	R	F	L
UniRef90_UPI0003815F69		I	R	F	L
UniRef90_UPI00031556A5		I	R	F	L
UniRef90_UPI00046F20F2		I	R	F	L
UniRef90_UPI0003B6A19C		I	R	F	L
UniRef90_W4CK51		I	R	F	L
UniRef90_W0SBL4		I	R	F	L
UniRef90_UPI00046FD92C		I	R	F	L
UniRef90_P48077		I	R	F	L
UniRef90_R6AA87		I	R	F	L
UniRef90_G4CJB8		I	R	F	L
UniRef90_Q3JDR3		I	R	F	L
UniRef90_Q12QR9		I	R	F	L
UniRef90_V5CCX4		I	R	F	L
UniRef90_Q65GJ9		I	R	F	L

QUERY
UniRef90_I9DT21
UniRef90_L0EFU5
UniRef90_A0A023DAX5
UniRef90_E4PP86
UniRef90_UPI0004655362
UniRef90_C4LBL4
UniRef90_U1YHH9
UniRef90_C8W5F0
UniRef90_Q3A008
UniRef90_F6CIY0
UniRef90_UPI0003B37532
UniRef90_C0ZAG9
UniRef90_D5XEC7
UniRef90_N6W2J1
UniRef90_N9VL02
UniRef90_UPI0003F4F1F3
UniRef90_UPI0003806749
UniRef90_Q9ZGG6
UniRef90_UPI00028A3DDE
UniRef90_V5F0D9
UniRef90_X0U387
UniRef90_UPI00041509D9
UniRef90_UPI00037BF0C7
UniRef90_L8A2F0
UniRef90_D5WUM2
UniRef90_D0KZK6
UniRef90_L8D237
UniRef90_UPI0003B6D414
UniRef90_Q1JVV1
UniRef90_G4QH62
UniRef90_A0A031M612
UniRef90_V5BET8
UniRef90_UPI0004278E12
UniRef90_Q1QXC7
UniRef90_W6MA81
UniRef90_Q39QM8
UniRef90_E8M4H3
UniRef90_A4XR60
UniRef90_D2UBH4
UniRef90_U1KC65
UniRef90_A5CW97
UniRef90_H8L5B9
UniRef90_UPI000363BF23
UniRef90_UPI00037814C3
UniRef90_F5LJR0
UniRef90_A0A023Y6K2
UniRef90_UPI00047BCE1A
UniRef90_Q8DFF8
UniRef90_W4DVB9
UniRef90_Z5XS54
UniRef90_K8X1Y8
UniRef90_UPI0004291616
UniRef90_S9SSM1
UniRef90_C0N5V3
UniRef90_Q2SL96
UniRef90_UPI0004780C0D
UniRef90_F6DSA6
UniRef90_UPI00037E45FC
UniRef90_K8GH50
UniRef90_F8A990
UniRef90_F8FNS4
UniRef90_UPI00036B5997
UniRef90_B114J1
UniRef90_E1VKV2
UniRef90_UPI00047E3E05
UniRef90_K0NE20
UniRef90_A1SV88
UniRef90_M4NBS6
UniRef90_UPI00036FDD59
UniRef90_M5DPB6
UniRef90_A4CFK7
UniRef90_B8PZU6
UniRef90_F9ZXN7
UniRef90_C6CHL6
UniRef90_G2DT12
UniRef90_I1YJZ0
UniRef90_F6CRJ6
UniRef90_UPI0003815F69
UniRef90_UPI00031556A5
UniRef90_UPI00046F20F2
UniRef90_UPI0003B6A19C
UniRef90_W4CK51
UniRef90_W0SBL4
UniRef90_UPI00046FD92C
UniRef90_P48077
UniRef90_R6AA87
UniRef90_G4CJB8
UniRef90_Q3JDR3
UniRef90_Q12QR9
UniRef90_V5CCX4
UniRef90_Q65GJ9

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

QUERY	E A L K L V F R R A I N G K R A R E	130	140	E T R
UniRef90_I9DT21	P Q F E R L F L F Q K T F A V A K E V R T E T D I			
UniRef90_L0EFU5	T L I F N M L F F K Q A V T L A G K R R A H S E T E S I			
UniRef90_A0A023DAX5	T L I F N H L F F K Q A V T F A K R R A H S E T E			
UniRef90_E4PP86	S F L S R L F F E H T F S V A K R R V R T Q T A R I			
UniRef90_UPI0004655362	G N L D R R L F Q Q T F S V A K R R A R T D T R E I			
UniRef90_C4LBL4	G L L N R R L F Q Q R T F S V A K R R V R T E T E I			
UniRef90_U1YHH9	T V F N K L F Q Q Q A I T L A K R R A H S E T E I			
UniRef90_C8W5F0	R V I N T L F L Q Q A L A V G K K V R S E T G I			
UniRef90_Q3A008	P V L N R L L P R A F A A A K R V R N E T A I			
UniRef90_F6CIY0	R V L N T L F Q Q Q A I T V G K R V R T E T G I			
UniRef90_UPI0003B7532	K T L N R L F Q Q H T F S A A K K V R T D T A I			
UniRef90_C0ZAG9	T V F N T L F K Q A I T F A K R R A H T E T A I			
UniRef90_D5XEC7	G V L N T L F L R A I T V G K R V R T E T E I			
UniRef90_N6W2J1	S L L S R L F F E Q S F S V A K R V R T E T A I			
UniRef90_N9VL02	A I L E R L F Q K A F S V A K R V R T D T E I			
UniRef90_UPI0003F4F1F3	T R L D R L F Q H A F S T A K R A R T D T R I			
UniRef90_UPI0003806749	T V E N T L F K Q A V T L A K R R A H T E T A I			
UniRef90_Q9ZGG6	G I V N T W F Q Q A I T V G K R V R T E T G I			
UniRef90_UPI00028A3DDE	V L F N T L F K Q A I T M A K K A H S E T G I			
UniRef90_V5F0D9	G N L D K L F Q K A F S V A K R V R T E T D I			
UniRef90_X0U387	P T I L N R L F H H A F R V G K L I R N N T S I			
UniRef90_UPI00041509D9	T I Y N E L F K Q A V T L A K R A H K E T E I			
UniRef90_UPI00037BF0C7	P L L G R L F Q A T F N T A K R L V R T D T A I			
UniRef90_L8A2F0	T I F N H L F K Q A V T F A K R R A H S E T G I			
UniRef90_D5WUM2	A V L N Q L F R R A I T G A K R G H T E T E I			
UniRef90_D0KZK6	P V L S R L F Q K T F S V A K Q V R T D T Q I			
UniRef90_L8D237	L Q F E R L F Q K T F S V A K Q V R T E T E I			
UniRef90_UPI0003B6D414	P L L G R L F Q A T F S T A K T V R T D T A I			
UniRef90_Q1JVVU1	L L L N R F L H K A F S V A K R V R T E T N I			
UniRef90_G4QH62	T E F E K L F Q S T F S V A K Q V R T E T E I			
UniRef90_A0A031M612	P S L D R L F Q S T F N T A K Q V R T D T A I			
UniRef90_V5BET8	K D L G K L F Q Q T F T A A K K V R T D T A I			
UniRef90_UPI0004278E12	T I F N H L F K Q A I T F A K R R C H S E T E I			
UniRef90_Q1QXC7	G E L E R L F Q H T F S V A K Q V R S E T G I			
UniRef90_W6MA81	T I L D R L F H H T F A V A K Q V R T D T R I			
UniRef90_Q39QM8	I L L N R F L H K A F S V A K R V R T E T K I			
UniRef90_E8M4H3	A A M E K L F Q K T F S V A K R V R T E T D I			
UniRef90_A4XR60	P L L G R L F Q A T F S T A K T V R T D T A I			
UniRef90_D2UBH4	N R L D R L F Q Q T F A V A K R A R T D T R I			
UniRef90_U1KC65	P T F E R L F Q K T F S V A K Q V R T E T D I			
UniRef90_A5CW97	K L L E K L F Q H A F S T A K K V R T D T Q I			
UniRef90_H8L5B9	T G M E R L L Q H T F A V A K R V R T D T Q I			
UniRef90_UPI000363BF23	K H L G K L F Q H T F T A A K K V R T D T A I			
UniRef90_UPI00037814C3	T I F N H L M K Q A V T L A K R R A H S E T D I			
UniRef90_F5LJR0	T I F N T L F K Q A V T M A K R R A H S E T S I			
UniRef90_A0A023Y6K2	Q R L D R L F Q Q T F S V A K R A R T D T R I			
UniRef90_UPI00047BCE1A	A N E L D R L F Q K A F V T A K R V R T E T R I			
UniRef90_Q8DFF8	A S L E K L F Q K T F S V A K R V R T E T D I			
UniRef90_W4DVB9	T W F N R L F K Q A V T L G K R A H S E T S I			
UniRef90_Z5XS54	V T F D R L F Q K T F S V A K Q V R T E T D I			
UniRef90_K8X1Y8	S E L E R L F Q K S F S V A K R V R T E T E I			
UniRef90_UPI0004291616	G Q L D R L F Q H A F V T A K R A R T E T R I			
UniRef90_S9SSM1	T W L N T V F K Q A I T L A K R R A H A E T S I			
UniRef90_C0N5V3	K S L G R L F Q H A F A V A K Q V R T D T A I			
UniRef90_Q2SL96	G P L D R L F Q H A F A V A K Q V R T E T A I			
UniRef90_UPI0004780C0D	A E L G R L F Q Q T F A V A K Q V R T D T A I			
UniRef90_F6DSA6	V V L N T F F Q Q A I T T G K R I R T E T G I			
UniRef90_UPI00037E45FC	P A L N R L F Q H S F T T A K Q I R T E T A I			
UniRef90_K8GH50	R T L N Q L F K Q A I T A G K R V R T E T S I			
UniRef90_F8A990	V I L N R L L H K T F S V A K R I L R S E T G I			
UniRef90_F8FNS4	V L F N T L F K Q A I T M A K R A H T E T G I			
UniRef90_UPI00036B5997	R E L G R L F Q Q A F S V A K N V R T S T A I			
UniRef90_B1I4J1	W L L N C A F Q Q A L A V G K R V R T E T G I			
UniRef90_E1VKV2	P N L G R L F Q Q A F S V A K Q V R T D T D I			
UniRef90_UPI00047E3E05	T V E N H L F K Q A V T V A K R G H S E T D I			
UniRef90_K0NE20	V L L N R L M H K S F S I A K K V R K E T G I			
UniRef90_A1SV88	K I V Q K W F Q H T F T V A K R V R T E T Q I			
UniRef90_M4NBS6	A P M D R L L Q H T F A V A K R V R T D T R I			
UniRef90_UPI00036FDD59	T I F N E L F K Q A V T F A K R R A H S E T A I			
UniRef90_M5DPB6	A E L G R L F R Q T F S I A K R V R T D T A I			
UniRef90_A4CFK7	V M L E R L F Q K T F A V A K H V R T E T E I			
UniRef90_B8PZU6	S Q L D R L F Q H A F V A A K R A R T D T R I			
UniRef90_F9ZXN7	K T L S K L F Q H T F S A A K K V R T D T A I			
UniRef90_C6CHL6	G D L E R L F Q K S F S V A K R V R T E T D I			
UniRef90_G2DT12	S S L N A L F Q K T F S V A K E V R S G T A I			
UniRef90_I1YJZ0	K S L G R L F Q H A F T V A K Q V R T D T A I			
UniRef90_F6CRJ6	P E L E S L F Q R T F S V A K R V R T D T A I			
UniRef90_UPI0003815F69	S E L H R V F Q R V F T V A K K V R T E T A I			
UniRef90_UPI00031556A5	T V F N Q L F K Q A I T L A K R R A H S E T D I			
UniRef90_UPI00046F20F2	T L F N E L F K Q A I T V A K R R A H A E T A I			
UniRef90_UPI0003B6A19C	T A I N R L F H H A F Q V G K N I R N A T S I			
UniRef90_W4CK51	T W F N M L F K Q A V T L G K R A H S E T S I			
UniRef90_W0SBL4	T L L G K L F Q R T F A V A K E V R S T T A I			
UniRef90_UPI00046FD92C	G S L E K L F H K T F A V A K R V R T E T E I			
UniRef90_P48077	P V L N N I F K Q A I S A G K R V R T E T Q I			
UniRef90_R6AA87	T I L N T L F H R A I R T G K R V R T E T Q I			
UniRef90_G4CJB8	S L L N A L F Q K T F A I A K E V R T S T A I			
UniRef90_Q3JDR3	R V L G R L F Q H T F Y V A K Q V R T D T A I			
UniRef90_Q12QR9	L T I D R L F Q N T F S V A K K V R T E T E I			
UniRef90_V5CCX4	S E L E R L F Q K S F A V A K R V R T E T E I			
UniRef90_Q65GJ9	T V F N Y L F K Q A V T V A K R C H A E T D I			

UniRef90_F9U5T9
 UniRef90_W8A970
 UniRef90_W1NCX2
 UniRef90_UPI0002625168
 UniRef90_L0H2J7
 UniRef90_UPI000363BB81
 UniRef90_UPI0003F79590
 UniRef90_UPI00047BEF3C
 UniRef90_Q15SQ8
 UniRef90_U7FXD9
 UniRef90_UPI000376EF2B
 UniRef90_D4K115
 UniRef90_UPI00036A8BF9
 UniRef90_G8QM28
 UniRef90_C4L4J5
 UniRef90_UPI00040BDABA
 UniRef90_R1GM33
 UniRef90_E0NW12
 UniRef90_E3BMD0
 UniRef90_U5T4R4
 UniRef90_UPI0002D5823B
 UniRef90_K6CHH9
 UniRef90_UPI0003813B29
 UniRef90_UPI0003FD6EEC
 UniRef90_UPI00036B8EB4
 UniRef90_L1NY31
 UniRef90_G4SU87
 UniRef90_UPI0002558802
 UniRef90_K9RQH3
 UniRef90_A4VPC0
 UniRef90_A1WVQ7
 UniRef90_UPI00036CE448
 UniRef90_UPI0002D3DB53
 UniRef90_V4JLI7
 UniRef90_X2MDT2
 UniRef90_K2GD45
 UniRef90_UPI00040D7B88
 UniRef90_O67314
 UniRef90_UPI0002D60609
 UniRef90_UPI0003641FCA
 UniRef90_F2F2F8
 UniRef90_F7RV90
 UniRef90_Q6LNB3
 UniRef90_UPI0003498B10
 UniRef90_Q1GYE9
 UniRef90_Q1NMM6
 UniRef90_R5SV52
 UniRef90_UPI000255A1EA
 UniRef90_C6WT80
 UniRef90_A0A011NUT0
 UniRef90_S6GFT0
 UniRef90_C1F252
 UniRef90_F7NJ61
 UniRef90_X5JT67
 UniRef90_B1XLK6
 UniRef90_Q2JWU6
 UniRef90_UPI00018510C5
 UniRef90_R4KPF8
 UniRef90_B8FL11
 UniRef90_K9PGV8
 UniRef90_L0DZ42
 UniRef90_M4U5D1
 UniRef90_R7CNI5
 UniRef90_UPI0003B7330F
 UniRef90_K9UPV3
 UniRef90_UPI0003629C8E
 UniRef90_V6IXU3
 UniRef90_W7C1G3
 UniRef90_UPI000348112E
 UniRef90_W0PFJ1
 UniRef90_C9LXX7
 UniRef90_H5V4Z0
 UniRef90_Q1AUK2
 UniRef90_UPI00046F2B30
 UniRef90_A9A0C2
 UniRef90_UPI000421E521
 UniRef90_M1YP13
 UniRef90_UPI00037A644B
 UniRef90_A6F6J9
 UniRef90_K9WNJ4
 UniRef90_B8KJ93
 UniRef90_UPI00046F58FF
 UniRef90_UPI00028967B2
 UniRef90_A0A024Q3N0
 UniRef90_UPI0002E7FA8A
 UniRef90_A0A014NJQ7
 UniRef90_A7Z7A7
 UniRef90_J7ISR3
 UniRef90_A3YI10
 UniRef90_Q8EPM7
 UniRef90_Q9KW52
 UniRef90_B6EHH4

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

UniRef90_F9U5T9
UniRef90_W8A970
UniRef90_W1NCX2
UniRef90_UPI0002625168
UniRef90_L0H2J7
UniRef90_UPI000363BB81
UniRef90_UPI0003F79590
UniRef90_UPI00047BEF3C
UniRef90_Q15SQ8
UniRef90_U7FXD9
UniRef90_UPI000376EF2B
UniRef90_D4K115
UniRef90_UPI00036A8BF9
UniRef90_G8QM28
UniRef90_C4L4J5
UniRef90_UPI00040BDABA
UniRef90_R1GM33
UniRef90_E0NW12
UniRef90_E3BMD0
UniRef90_U5T4R4
UniRef90_UPI0002D5823B
UniRef90_K6CHH9
UniRef90_UPI0003813B29
UniRef90_UPI0003FD6EEC
UniRef90_UPI00036B8EB4
UniRef90_L1NY31
UniRef90_G4SU87
UniRef90_UPI0002558802
UniRef90_K9RQH3
UniRef90_A4VPC0
UniRef90_A1WVQ7
UniRef90_UPI00036CE448
UniRef90_UPI0002D3DB53
UniRef90_V4JLI7
UniRef90_X2MDT2
UniRef90_K2GD45
UniRef90_UPI00040D7B88
UniRef90_O67314
UniRef90_UPI0002D60609
UniRef90_UPI0003641FCA
UniRef90_F2F2F8
UniRef90_F7RV90
UniRef90_Q6LNB3
UniRef90_UPI0003498B10
UniRef90_Q1GYE9
UniRef90_Q1NMM66
UniRef90_R5SV52
UniRef90_UPI000255A1EA
UniRef90_C6WT80
UniRef90_A0A011NUT0
UniRef90_S6GFT0
UniRef90_C1F252
UniRef90_F7NJ61
UniRef90_X5JT67
UniRef90_B1XLK6
UniRef90_Q2JWU6
UniRef90_UPI00018510C5
UniRef90_R4KPF8
UniRef90_B8FL11
UniRef90_K9PGV8
UniRef90_L0DZ42
UniRef90_M4U5D1
UniRef90_R7CNI5
UniRef90_UPI0003B7330F
UniRef90_K9UPV3
UniRef90_UPI0003629C8E
UniRef90_V6IXU3
UniRef90_W7C1G3
UniRef90_UPI000348112E
UniRef90_W0PFJ1
UniRef90_C9LXX7
UniRef90_H5V4Z0
UniRef90_Q1AUK2
UniRef90_UPI00046F2B30
UniRef90_A9A0C2
UniRef90_UPI000421E521
UniRef90_M1YP13
UniRef90_UPI00037A644B
UniRef90_A6F6J9
UniRef90_K9WVJ4
UniRef90_B8KJ93
UniRef90_UPI00046F58FF
UniRef90_UPI00028967B2
UniRef90_A0A024Q3N0
UniRef90_UPI0002E7FA8A
UniRef90_A0A014NJQ7
UniRef90_A7Z7A7
UniRef90_J7ISR3
UniRef90_A3YI10
UniRef90_Q8EPM7
UniRef90_Q9KW52
UniRef90_B6EHH4

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

		130	140
UniRef90_F9U5T9	K	L	L
UniRef90_W8A970	T	V	F
UniRef90_W1NCX2	G	E	L
UniRef90_UPI0002625168	P	V	L
UniRef90_L0H2J7	K	L	L
UniRef90_UPI000363BB81	P	T	F
UniRef90_UPI0003F79590	S	I	L
UniRef90_UPI00047BEF3C	T	V	F
UniRef90_Q15SQ8	S	D	F
UniRef90_U7FXD9	G	E	L
UniRef90_UPI000376EF2B	L	E	L
UniRef90_D4K115	T	L	L
UniRef90_UPI00036A8BF9	L	M	F
UniRef90_G8QM28	T	M	L
UniRef90_C4L4J5	T	V	F
UniRef90_UPI00040BDABA	K	T	L
UniRef90_R1GM33	G	S	L
UniRef90_E0NW12	T	L	L
UniRef90_E3BMD0	S	A	M
UniRef90_U5T4R4	Q	T	L
UniRef90_UPI0002D5823B	T	V	F
UniRef90_K6CHH9	T	I	F
UniRef90_UPI0003813B29	S	S	L
UniRef90_UPI0003FD6EEC	K	S	L
UniRef90_UPI00036B8EB4	T	T	L
UniRef90_L1NY31	S	W	L
UniRef90_G4SU87	K	Y	L
UniRef90_UPI0002558802	V	E	L
UniRef90_K9RQH3	P	T	L
UniRef90_A4VPC0	P	L	L
UniRef90_A1WVQ7	A	V	L
UniRef90_UPI00036CE448	K	R	L
UniRef90_UPI0002D3DB53	R	L	L
UniRef90_V4JLI7	R	M	L
UniRef90_X2MDT2	S	A	L
UniRef90_K2GD45	T	V	F
UniRef90_UPI00040D7B88	T	I	F
UniRef90_O67314	K	L	L
UniRef90_UPI0002D60609	R	Q	L
UniRef90_UPI0003641FCA	L	V	L
UniRef90_F2F2F8	T	V	F
UniRef90_F7RV90	S	V	F
UniRef90_Q6LNB3	G	T	L
UniRef90_UPI0003498B10	R	L	L
UniRef90_Q1GYE9	T	L	L
UniRef90_Q1NMF6	P	I	L
UniRef90_R5SV52	T	L	L
UniRef90_UPI000255A1EA	P	T	L
UniRef90_C6WT80	T	L	L
UniRef90_A0A011NUT0	T	T	L
UniRef90_S6GFT0	G	E	L
UniRef90_C1F252	S	Q	L
UniRef90_F7NJ61	T	M	L
UniRef90_X5JT67	T	L	L
UniRef90_B1XLK6	R	L	L
UniRef90_Q2JWU6	R	I	L
UniRef90_UPI00018510C5	T	V	F
UniRef90_R4KPF8	K	V	I
UniRef90_B8FL11	A	V	L
UniRef90_K9PGV8	T	L	L
UniRef90_L0DZ42	L	S	L
UniRef90_M4U5D1	K	V	L
UniRef90_R7CNI5	T	L	L
UniRef90_UPI0003B7330F	A	T	L
UniRef90_K9UPV3	S	I	L
UniRef90_UPI0003629C8E	R	L	L
UniRef90_V6IXU3	T	F	F
UniRef90_W7C1G3	T	I	L
UniRef90_UPI000348112E	S	I	L
UniRef90_W0PFJ1	T	L	L
UniRef90_C9LXX7	T	V	L
UniRef90_H5V4Z0	S	E	L
UniRef90_Q1AUK2	P	V	L
UniRef90_UPI00046F2B30	V	T	L
UniRef90_A9A0C2	V	T	L
UniRef90_UPI000421E521	M	H	L
UniRef90_M1YP13	K	T	F
UniRef90_UPI00037A644B	S	L	L
UniRef90_A6F6J9	Q	T	L
UniRef90_K9WNJ4	R	L	L
UniRef90_B8KJ93	S	E	L
UniRef90_UPI00046F58FF	T	I	F
UniRef90_UPI00028967B2	T	V	F
UniRef90_A0A024Q3N0	T	I	F
UniRef90_UPI0002E7FA8A	T	V	F
UniRef90_A0A014NJQ7	S	E	L
UniRef90_A7Z7A7	T	I	F
UniRef90_J7ISR3	K	V	I
UniRef90_A3YI10	Q	S	L
UniRef90_Q8EPM7	T	I	F
UniRef90_Q9KW52	V	V	L
UniRef90_B6EHH4	G	V	E

UniRef90_E6QMA2
UniRef90_G9Y2E8
UniRef90_F5RHJ3
UniRef90_UPI000362E705
UniRef90_S3E190
UniRef90_C0GG59
UniRef90_Y0KKF6
UniRef90_UPI000380F6EE
UniRef90_F8C2X8
UniRef90_UPI000362E43B
UniRef90_UPI000373D6B2
UniRef90_Q1INI5
UniRef90_UPI00030F793E
UniRef90_K2GGD9
UniRef90_Q11714
UniRef90_K2ADE1
UniRef90_K9R941
UniRef90_W4QFR5
UniRef90_K0CK15
UniRef90_B5JU12
UniRef90_C8N8R9
UniRef90_UPI00037A2539
UniRef90_I0GTK4
UniRef90_UPI00046D1F00
UniRef90_C8X2V5
UniRef90_UPI000248D0DE
UniRef90_D5CLA9
UniRef90_K2B222
UniRef90_UPI0003FD905F
UniRef90_A0A033V2J6
UniRef90_B5IKA0
UniRef90_UPI0002627011
UniRef90_B2IA84
UniRef90_W7DSY2
UniRef90_Q2KZZ5
UniRef90_G2FVW2
UniRef90_D3DG42
UniRef90_UPI000381BFA1
UniRef90_I4C6T5
UniRef90_T1CDM7
UniRef90_S6EJA2
UniRef90_M7N9A5
UniRef90_UPI0003711560
UniRef90_D3EQ68
UniRef90_W0DE58
UniRef90_B4VVG2
UniRef90_B6WSE2
UniRef90_M7NNTK9
UniRef90_A4BMQ4
UniRef90_G4E2C1
UniRef90_M1Z1B9
UniRef90_E8X352
UniRef90_E4T7M3
UniRef90_E1SS96
UniRef90_UPI0001FFDF92
UniRef90_Q6AIM2
UniRef90_U2FV49
UniRef90_UPI00030DFC1B
UniRef90_J9ZEX1
UniRef90_Q0AHU2
UniRef90_X2HB18
UniRef90_I2JGQ0
UniRef90_K9SQ56
UniRef90_UPI000305DC43
UniRef90_C5BSZ7
UniRef90_UPI000366C658
UniRef90_X2H928
UniRef90_V6KJ92
UniRef90_UPI0002FC4665
UniRef90_UPI00034C93AB
UniRef90_UPI00026C791F
UniRef90_B9DND0
UniRef90_F8IDJ9
UniRef90_S7VCZ5
UniRef90_K9T461
UniRef90_K1KIR0
UniRef90_P95525
UniRef90_E4ND91
UniRef90_UPI00037B1E81
UniRef90_Q7U769
UniRef90_S7V5Q6
UniRef90_A8FYZ1
UniRef90_UPI000470A44A
UniRef90_L9PJN9
UniRef90_D8HXP1
UniRef90_B4V348
UniRef90_C7MT06
UniRef90_Q0K6G3
UniRef90_B9E745
UniRef90_Q3SG11
UniRef90_Q49YA4
UniRef90_R7WPF7

1 10 20 30 40

T
M E N
M N S
M D R
S
K
M L
N
D
S

N L L L I G I N N H K T A P I V E L R R E R E R V A V P R E D A A R L L A G T Q A G V R
S L L A L G I N N H K T A P I V E L R R E R E R V A V P R E D A A R L L A G T Q A G V R
L L Y A L G L N N H H Q T A P L L A V L R R E R Q V M T F F S P E H A L L E R S L L R Q Q P L V R Q
S Q L F A F G L N N H H Q T A P L L A V L R R E R Q V M T F F S P E H A L L E R S L L R Q Q P L V R Q
P L L V I G I N N H N T A P V I E L R R E R M V F F E P C Y R A L L K A Q L L N V N P C V N S
I V L I G I N N H K T A H V I E L R R E R K L A F F N G E S Q T L L A F A D R E N S R N A A
Q L Y T I G V N N H K T A P I V E L R R E R N V A F N A S E G E Q T L L R H A D L T A N C P I V N S
Q L F C L G L N N H H T A P V I E L R R E R F A V A F A S E S Q Q A K R I A E L A G V I G
I L L I G L N N H K T A G V I E V R E R K L T F K N T S E N F E Q T L A N C P I V K K E
M E N L L T L G I N N H K S A T V E V R E R Q V A F S T S E Q A L E S L C A L D E V I E
N F F V I G V N S Y K T A P V V S I R E R K V A F S P E E A T K L L K A S Q Q Y A V N
L F S F G I N N H K T A P V V S I R E R K V A F S P E E A T K L L K A S Q Q Y A V N
L L A T G V N H T T A E V S L R E R K L T F P E E A Q A L S Q D L R R L P G V V
N I A V I G L N H K T A P I V E L R R E R K L S L P E E K A I L S Q D L R R L P G V V
P I L A C G I N H H K T A P I V E L R R E R K V T F S P E E K L L S Q D L R R L P G V V
H I A V V G L S H K T A P V I E L R R E R K L S P E P Q A I A H L L L T S Y P S I E
H I V A G F N Y K T A P V E M R E R K F T F Q S S E A L L Q L R Q M K S I L
N L F A V G V N H T T A D V E L R R E R I A Y E S G E A L L H Q L L N N A T P G V E S
P L S V L G L N H H T S A P V D V L R R E R I A Y E S G E A L L H Q L L N N A T P G V E S
I T A F G L N N H H T A D A A L R R E R K F A F T P E E Q A L L A N C C E A T K S G A S
H I M V V G I N N Y R T A P V A D I R R E R F T I A E Q E A L L A N C C E A T K S G V L
E L L M L G L N H K T A P V D D V R R E R F S I P K A A V L A N C K E Y E G S V I L
M N S I V L I G T N H N T S P Q D D I R R E R L A F D S N P D R Y L A R E L V D K S I D D G V R
S I Y L L G L N H H K T A P V S I R E R Q F F A L T S P D Q L L G L V D K S R K E T K A V M
H I V V A G L N N Y R T A P V S I R E R K F T F A N G S D A L L K E L V K E T K A V M
Q L F A T F G I N H H K S A P L L A V L R R E R Q V A L D K Q D S L R Q N L K Q C P H I E
S L L V I G I N H H N T A S V A L R R E R Q V A F S P E Q S A E A M L A A N Q Q L
UniRef90_B5IKA0
H I A V V G L S H K T A P V I E L R R E R K L S I P E D D A S L Q T L L N N Q D K S I L
H L L K V G F N Y K S A P L E I R R E R F M I S E D E A M V H L K Q Q K S I L
L W V L G L N H H K T A P M E I R R E R A S F V D G K D R A L D S A L R N K P S N I L
Y I L S V G L N H H K T A P M E I R R E R K L A F D E K A A L K S A L R N K P S N I L
V L A F G L N H H T S A P V S I R E R V S M P V D P A L A G L R S A F G V R E E
V A I G L N H H R S A P V S I R E R K M S F H P S Q E L L R E L K S Y P G G L V
M D R I F V W G I N N F K T A P V E Y R E R G L A C Y S R E I L L R L K T Y K G V E
L L I V G L N H K T A P I E V R R E R L A F F G P D G A L R D L R G R E G V H
S I L V I G L N H H T A P V I E L R R E R K V T F P G D D Q A L H E L R A Q P D G L I E
L I A Y G L N H H T A P V V A L R R E R K V A F S D E Q A L L Q Q I L E Q S A L A D
I V V G V N N Y R T A P V V D V R R E R L V A F S D D E Q A L L Q Q I L E Q S A L A D
N I A V V G L S H K T A P V E I R R E R K L S Q E E E A I I H L R S Y S P H I E
M F A W G Y N F K T A P V E I R R E R K L S C S K E E A L T A V L K S Y P H I E
N L A V V G L S Y K T T P V E I R R E R K L S I S E E Q A L I A V C T Y P H I E
D I V L V G L N H R T A G V D V R R E R F A L V D S R E N W A L P C D D V I G
H L V T Y G I N N H T A P V A V R R E R F A F D A S E A A Q S L M Q H P E A V V
M V T L G L N H H K S A P V E I R R E R I V F P L E A V C N L V R E P H P G V D
L Y T L G I N H K T A P V E I R R E R V V F P P D K A L Q E L I S A P H L P
S N L V I V G V N H K N T A P I E I R R E R L A F T Q E A S S E R K L N Q Y P E I R
L V L L G V N H N T A P I D I R R E R L A P P A E A D A T R S L A H S P G I E R
H L L V V G I N N Y K T A D V S L R E R K L H F S D E E A Y N L K T Y K S I K
L V A I G I N H K T A S V S L R E R K V A F G P P D D A L K S L A D Q R T R T G E
K S V L V V G L N H H R S A P V E V L E R K L A V A P P K L L E E M L D R T H V E
Q V F L F G V N H K T T P V A V R E R K A F T D E T A L T R L Q E E V G C D
L L T V G L N H H T A P L S E I R R E R A A F T P E E Q A L D D F L R L P H V I
N F V V T I G V N Y R T A P V I E I R R E R K L A F S P E E Q E A M L N E R E K S I L
M L K L T L A G V N H K T T P I E I R R E R L A Y P K E D A L K A L L S R R E G V I L
Q L F A F G V N H H T A P L S D I R R E R H V A F T E E H A L H A L V G H Q L V K
S L T V I G L N H H Q T A P V L S V R E R V L A F P P A E A L T A L G S Q E I A
N L L V I G I N H N S A P V V A V R E R V A F V P E E A L R D A L T C I G V S E
N I A V V G L S H K T A T V E S V R E R K L S M P E E S A I A D G L K S G F G V R
D V L T F G L N H H V S A P V V S V R E R V S M P L D P A I A D G L K S G F G V R
L L A L G I N H N T A T L D V R E R K V A F S P A E A L C A L R E S G L A E
V L L V G L N H H K S A S L A D V R E R K L H F N P E E K K Y S L T S G F D I E
S I T I L G V N H H K T A P S L A L R E R K L A F P N D K A L Y S L Y G H P I I E
S L L V V G L S H H R S A P V I S V L R E R A A L D P S K L L H D T V G T E P A T
L L G L N H H R T A P I D L R R E R F A F A S D E H L V T S R R S L E T H K
N I V V V G L S H H K T A S V I E V R R E R K L S I P E E E A I A T L R S Y P H I Q
H I F A C G L N H K T A P I E V R R E R K V A L S P D F V L E S F L N L P E V S
I I A I S I N H R T A D V A L R R E R V A F K A D A I R E S H L E T K S I L
I F V V G L N H H K T A P V E L R R E R V S L G E A E V L T Q L R D S R T S V L
N D I F L I G L N H K T A D V E I R R E R F A L S D K P D T A R R L V S G P V R
N I A V V G L N H K T A P V E I R R E R K L S L Q E E S A L A H L R S Y P H I I
H L L A I G L N H H T T A P V S I R E R K V A F G P E E E L A E S S T O M G G L I
I L V I G I N H K T A S V A I R R E R K V A F S A E E A L A Q I Q Q Q A L A E
S L L V V G L S H H R T A P V V G V L R E R A A L T P T G E L L H R L H A A S A T V G R
H I A V A G L N H H R T A P V E I R R E R V A F R T R E A L L H R L H A A S A T V G R
D I V L L G L N H H K T A E V A L R R E R L S I P E E T S L R Q S L R G H E Q V L
S L V A I G I N H H K T A T V D L R R E R K V A F S P D D T A L R H F Q A L A V I R
S I I A L G L S H A T A P L S L R R E R Q A G I G A D Q A I Q T L R N C P G V N
Q L L A V G L N H N T A P V S L L R E R L A F A P P E I L G Q E R L D H R G S D
S V L A V G L S H H R S A E P S T L R R E R V A V P P E I L G Q E L Q Q A E H V S
S L L V V G L S H H R S A P V S V L R E R A S L N A D K L L H D T L A A E P A A
S I L A I G L S H H R T A D L S A T L R E R V A V P P A A E V L H E L L Q Q A D D S G T
Q L L A I G I N H H T T A P L L R E R V A F P L E L L S L R S H L S G R S S G T
H I V V V S V N H K T A D V S L R R E R K L T F S E Q Q A L S A L I N Q K S I L
Q L L T L G V N H H T A P L A I R R E R K V A F G P D D A A N H L E L T L S K R A S
H L I A V S I N H H R T A D V A L R R E R K V A F K Q D D A A N V D L Y E T K S I L
S V L V V G I S H R T A P V V L E R V A A A D S D L T D R L L D S E H I S

UniRef90_E6QMA2
UniRef90_G9Y2E8
UniRef90_F5RHJ3
UniRef90_UPI000362E705
UniRef90_S3E190
UniRef90_C0GG59
UniRef90_Y0KKF6
UniRef90_UPI000380F6EE
UniRef90_F8C2X8
UniRef90_UPI000362E43B
UniRef90_UPI000373D6B2
UniRef90_Q1INI5
UniRef90_UPI00030F793E
UniRef90_K2GGD9
UniRef90_Q11714
UniRef90_K2ADE1
UniRef90_K9R941
UniRef90_W4QFR5
UniRef90_K0CK15
UniRef90_B5JU12
UniRef90_C8N8R9
UniRef90_UPI00037A2539
UniRef90_I0GTK4
UniRef90_UPI00046D1F00
UniRef90_C8X2V5
UniRef90_UPI000248D0DE
UniRef90_D5CLA9
UniRef90_K2B222
UniRef90_UPI0003FD905F
UniRef90_A0A033V2J6
UniRef90_B5IKA0
UniRef90_UPI0002627011
UniRef90_B2IA84
UniRef90_W7DSY2
UniRef90_Q2KZZ5
UniRef90_G2FVW2
UniRef90_D3DG42
UniRef90_UPI000381BFA1
UniRef90_I4C6T5
UniRef90_T1CDM7
UniRef90_S6EJA2
UniRef90_M7N9A5
UniRef90_UPI0003711560
UniRef90_D3EQ68
UniRef90_W0DE58
UniRef90_B4VVG2
UniRef90_B6WSE2
UniRef90_M7N7K9
UniRef90_A4BMQ4
UniRef90_G4E2C1
UniRef90_M1Z1B9
UniRef90_E8X352
UniRef90_E4T7M3
UniRef90_E1SS96
UniRef90_UPI0001FFDF92
UniRef90_Q6AIM2
UniRef90_U2FV49
UniRef90_UPI00030DFC1B
UniRef90_J9ZEX1
UniRef90_Q0AHU2
UniRef90_X2HB18
UniRef90_I2JGQ0
UniRef90_K9SQ56
UniRef90_UPI000305DC43
UniRef90_C5BSZ7
UniRef90_UPI000366C658
UniRef90_X2H928
UniRef90_V6KJ92
UniRef90_UPI0002FC4665
UniRef90_UPI00034C93AB
UniRef90_UPI00026C791F
UniRef90_B9DND0
UniRef90_F8IDJ9
UniRef90_S7VCZ5
UniRef90_K9T461
UniRef90_K1KIR0
UniRef90_P95525
UniRef90_E4ND91
UniRef90_UPI00037B1E81
UniRef90_Q7U769
UniRef90_S7V5Q6
UniRef90_A8FYZ1
UniRef90_UPI000470A44A
UniRef90_L9PJN9
UniRef90_D8HXP1
UniRef90_B4V348
UniRef90_C7MT06
UniRef90_Q0K6G3
UniRef90_B9E745
UniRef90_Q3SG11
UniRef90_Q49YA4
UniRef90_R7WPF7

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

UniRef90_E6QMA2
UniRef90_G9Y2E8
UniRef90_F5RHJ3
UniRef90_UPI000362E705
UniRef90_S3E190
UniRef90_C0GG59
UniRef90_Y0KKF6
UniRef90_UPI000380F6EE
UniRef90_F8C2X8
UniRef90_UPI000362E43B
UniRef90_UPI000373D6B2
UniRef90_Q1NI5
UniRef90_UPI00030F793E
UniRef90_K2GGD9
UniRef90_Q11714
UniRef90_K2ADE1
UniRef90_K9R941
UniRef90_W4QFR5
UniRef90_K0CK15
UniRef90_B5JU12
UniRef90_C8N8R9
UniRef90_UPI00037A2539
UniRef90_I0GTK4
UniRef90_UPI00046D1F00
UniRef90_C8X2V5
UniRef90_UPI000248D0DE
UniRef90_D5CLA9
UniRef90_K2B222
UniRef90_UPI0003FD905F
UniRef90_A0A033V2J6
UniRef90_B5KA0
UniRef90_UPI0002627011
UniRef90_B2IA84
UniRef90_W7DSY2
UniRef90_Q2KZZ5
UniRef90_G2FVW2
UniRef90_D3DG42
UniRef90_UPI000381BFA1
UniRef90_I4C6T5
UniRef90_T1CDM7
UniRef90_S6EJA2
UniRef90_M7N9A5
UniRef90_UPI0003711560
UniRef90_D3EQ68
UniRef90_W0DE58
UniRef90_B4VVG2
UniRef90_B6WSE2
UniRef90_M7N7K9
UniRef90_A4BMQ4
UniRef90_G4E2C1
UniRef90_M1Z1B9
UniRef90_E8X352
UniRef90_E4T7M3
UniRef90_E1SS96
UniRef90_UPI0001FFDF92
UniRef90_Q6AIM2
UniRef90_U2FV49
UniRef90_UPI00030DFC1B
UniRef90_J9ZEX1
UniRef90_Q0AHU2
UniRef90_X2HB18
UniRef90_I2JGQ0
UniRef90_K9SQ56
UniRef90_UPI000305DC43
UniRef90_C5BSZ7
UniRef90_UPI000366C658
UniRef90_X2H928
UniRef90_V6KJ92
UniRef90_UPI0002FC4665
UniRef90_UPI00034C93AB
UniRef90_UPI00026C791F
UniRef90_B9DND0
UniRef90_F8IDJ9
UniRef90_S7VCZ5
UniRef90_K9T461
UniRef90_K1KIR0
UniRef90_P95525
UniRef90_E4ND91
UniRef90_UPI00037B1E81
UniRef90_Q7U769
UniRef90_S7V5Q6
UniRef90_A8FYZ1
UniRef90_UPI000470A44A
UniRef90_L9PJN9
UniRef90_D8HXP1
UniRef90_B4V348
UniRef90_C7MT06
UniRef90_Q0K6G3
UniRef90_B9E745
UniRef90_Q3SG11
UniRef90_Q49YA4
UniRef90_R7WPF7

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

UniRef90_E6QMA2 S H L E P L L Q C A F A A K K V R T E T E I
UniRef90_G9Y2E8 A D L E R L F Q K T F S V A K K R V R T E T E I
UniRef90_F5RHJ3 A L L H T L F Q Q R S F S V A K K E V R R T E T A I
UniRef90_UPI000362E705 F L L H K L F Q Q R T F S V A K K D V R R T Q T E I
UniRef90_S3E190 S L M E K L F Q K T F F V A K R V R T E T E I
UniRef90_C0GG59 S T F H A L F R Q R S V T A K K E V R Q T E T A I
UniRef90_Y0KKF6 T M L H K L F Q R T F E V A K K E V R T N T D I
UniRef90_UPI000380F6EE S V L N K L F Q K S F S V G K K V R T E T R I
UniRef90_F8C2X8 I V L N R L L H K C F F S V A K K V R T E T G I
UniRef90_UPI000362E43B V V V N R L L H K A F S V A K R V R T E T A G
UniRef90_UPI000373D6B2 S E L E R L F Q H S F A V A K Q V R T E T G
UniRef90_Q1IN15 S Q L D A L L T R A F S V A K R V R T D T
UniRef90_UPI00030F793E G I L S R L F Q S S F S I A K K D V R T N T E I
UniRef90_K2GGD9 G E L A R T F Q Q V F S V A K R I R T D T G I
UniRef90_Q11714 R I L N R L F K Q A V T A G K R V R T E T A I
UniRef90_K2ADE1 T L F N R L F Q Q V F S V A K D V R T H T E I
UniRef90_K9R941 T V L N K L F K Q A I T A G K R V R S E T S I
UniRef90_W4QFR5 T I F N Q V F K Q A I T L G K R A H T E T E I
UniRef90_K0CK15 S E L G R V F Q D V F S V A K R I R T E T G I
UniRef90_B5JU12 S A L G P L F E Q A F S V A K L V R S E T D I
UniRef90_C8N8R9 G I L E R L F Q Q S F S V A K Q I R H S T A I
UniRef90_UPI00037A2539 T W F N M L F K Q A V T L G K R A H S E T S I
UniRef90_I0GTK4 T V L N T L F H R A I A T G K R V R T E T R I
UniRef90_UPI00046D1F00 A T I N R L M R R A F H A A K V V K A N T D I
UniRef90_C8X2V5 T V V N R L M H K A F S V A K R V R T E T R I
UniRef90_UPI000248D0DE V L F N T L F K Q A V T M A K R A H F E T G I
UniRef90_D5CLA9 F L L H K L F Q R T F S V A K D V R T Q T E I
UniRef90_K2B222 K H L H Q L F Q Y T F A S T K Q I R T Q T A I
UniRef90_UPI0003FD905F S V M E R L F Q K A F S V A K Q I V R T E T D I
UniRef90_A0A033V2J6 T M F N R L F K Q A I T L A K R A H H E T D I
UniRef90_B5IKA0 P I L N R L L N Q A V S T G K R V R T E T N L
UniRef90_UPI0002627011 T I F N E L F K Q A I T F A K K A H K D T A I
UniRef90_B2IA84 N T L D R L F K H S F S V A K H A R T N T R I
UniRef90_W7DSY2 T L L N Q L F K E V I R F A K K M H H E T R I
UniRef90_Q2KZZ5 T L L H Q L F Q R T F A V A K E V R S Q T E I
UniRef90_G2FVW2 K T I N V L F Y E T A L A V G K R V R T D T L
UniRef90_D3DG42 K V L H R L F Y E K A L R T A K R V R T E T G I
UniRef90_UPI000381BFA1 K L L C R L F Q H A F S V A K T V R T D T A I
UniRef90_I4C6T5 P I L N R L M H R S F F S A K R V R T E T R I
UniRef90_T1CDM7 I T L E R L L Q H T F A V A K R V R T D T R I
UniRef90_S6EJA2 G Q L S R L F Q K T F S T A K R V R T E T R I
UniRef90_M7N9A5 T V E N E L F K R A I T N A K R A H S E T E I
UniRef90_UPI0003711560 Q I L N A L F Q H I F K T A K Q V R T D T A I
UniRef90_D3EQ68 R L L D R L F K Q A I T S G K R V R S Q T N I
UniRef90_W0DE58 K I L N R V F E K A L R T A K K V R T E T G I
UniRef90_B4VVG2 C I L N Q L F K H A I T A A K R V R N E T K I
UniRef90_B6WSE2 V I L N R L L H K A F S V A K R V R T E T A V
UniRef90_M7NNTK9 K S L G R L F Q H A F S V A K Q V R S E T A I
UniRef90_A4BMQ4 Y T L D R L F Q Y A F S V A K Q V R S E T E I
UniRef90_G4E2C1 R E L G R L F Q H A F S V A K N V R E E T G I
UniRef90_M1Z1B9 I F L N Q L F E K A F N V A K R I R E E T G I
UniRef90_E8X352 G T L D T L L Q K A F T V A K K V R S E T Q I
UniRef90_E4T7M3 G L L N K V F Q T A I Q I G K K V R S E T K I
UniRef90_E1SS96 H T L D R L F Q H T F K V A K R I R T E T E I
UniRef90_UPI0001FFDF92 K V L H E L V Q Q A L R V G K R V H A G T G I
UniRef90_Q6AIM2 P L L N R L L H K S F S V A K R V R T E T A I
UniRef90_U2FV49 P L L T R L F E H S F A V A K Q I R S Q T E I
UniRef90_UPI00030DFC1B L M F N Q L F K Q V I T T A K R A H K E T E I
UniRef90_J9ZEX1 P M L N Q V F Q R A I S S S K R V R T E T G I
UniRef90_Q0AHU2 L L L H K M F Q K T F F V A K E V R T S T E I
UniRef90_X2HB18 Q Q L N A L F E K T F A A A K E I R N E S A V
UniRef90_I2JGQ0 G A L H R T F A Q V F S V A K R V R T D T G I
UniRef90_K9SQ56 R I L N Q L F K Q A L A A G K D V R T K T D I
UniRef90_UPI000305DC43 T L L H Q L F Q R T F S V A K K E V R S Q T A I
UniRef90_C5BSZ7 R G L H D A F Q R V F A V A K R V R S E T A I
UniRef90_UPI000366C658 K V L N R L F K Q A I T A G K R A H T M T G I
UniRef90_X2H928 M T L E K L F Q N I F H V A K L V R S Q T D I
UniRef90_V6KJ92 R L L N D L F Q Q A L R A G K R A H T E T G I
UniRef90_UPI0002FC4665 T T L N Q L F Q R S F A V A K E V R T A T S I
UniRef90_UPI00034C93AB R L L D R L F K Q A I S T G K R V R S E T S I
UniRef90_UPI00026C791F T E L R P I F E Y V F S A S K R I R T Q S G I
UniRef90_B9DND0 T I E N H L F K Q A I T F A K R A H H E T S I
UniRef90_F8IDJ9 S V L N R L F R E V I H V G K R A Q T E T S I
UniRef90_S7VCZ5 V I V N R L L H K A F F V A K R V R T E T E V
UniRef90_K9T461 Q I L D R L F K Q A M T A G K R V R S E T N I
UniRef90_K1K1R0 T M L N H L F Q S T F V A K E V R T A T A I
UniRef90_P95525 S E F S R L F Q K T F S V A K R V R T E T N I
UniRef90_E4ND91 R G L N E L F Q Q A L R V G K R A H S E T G I
UniRef90_UPI00037B1E81 S Y L D A V L T R A F S V A K R V R T E T E I
UniRef90_Q7U769 P I L N R L L T Q A V S T G K R V R S E T N L
UniRef90_S7V5Q6 V I L N R L L H K T F F V A K R V R T E T G I
UniRef90_A8FYZ1 I T M D R L F Q N T F S V A K K I R T E T E I
UniRef90_UPI000470A44A T V L D R L F Q R S F A V A K R I R S D T A I
UniRef90_L9PJN9 T Y L H Q L F Q R S F S V A K E V R S T E T E I
UniRef90_D8HXP1 R T L H E L I Q T A L R V G K R V H T E T G L
UniRef90_B4V348 R L I N D L F Q Q A L R V G K R A H S E T G I
UniRef90_C7MT06 S T L H E L I Q T T L R V G K R V H T E T G L
UniRef90_Q0K6G3 T Y L N Q L F Q R T F A V A K E V R G Q T E I
UniRef90_B9E745 T V F N K L F K D A I T L A K R A H A E T D I
UniRef90_Q3SG11 L L L H K L F Q R T F S V A K E V R S S T E I
UniRef90_Q49YA4 T I F N H L F K Q A I T F A K K A H N E T D I
UniRef90_R7WPF7 R T L H E L A Q Q A L R V G K R V H T E T G I

UniRef90_A4SV44
UniRef90_UPI0003A3A928
UniRef90_Q63QF1
UniRef90_H5WMJ7
UniRef90_UPI00034D86CF
UniRef90_M1WP17
UniRef90_UPI00028904AE
UniRef90_G8NVP2
UniRef90_UPI00037491FA
UniRef90_K9DIF6
UniRef90_D7WVB54
UniRef90_U1S3Q7
UniRef90_UPI000310F32D
UniRef90_B9XN62
UniRef90_V8CVM5
UniRef90_F8E8Q2
UniRef90_W9A8A4
UniRef90_Q21FM2
UniRef90_A1VKB7
UniRef90_W4VHL9
UniRef90_S6GM97
UniRef90_D8IUL1
UniRef90_I3DIB2
UniRef90_D7UY1
UniRef90_UPI00033HPS9
UniRef90_Q31IN7
UniRef90_A5EWW4
UniRef90_M1QIH1
UniRef90_UPI00037A93D4
UniRef90_G8S658
UniRef90_C6WNG3
UniRef90_B1MHI6
UniRef90_G2LIN1
UniRef90_UPI000369D1FC
UniRef90_H6RPM3
UniRef90_F5S4J0
UniRef90_UPI000262CF47
UniRef90_R6I955
UniRef90_D1A493
UniRef90_A3PCH6
UniRef90_A4G1N3
UniRef90_Q9RRE5
UniRef90_H3KDN2
UniRef90_UPI0003B51478
UniRef90_L0K9I5
UniRef90_UPI00037BCF54
UniRef90_E6J9T1
UniRef90_C0QS44
UniRef90_I8T8N0
UniRef90_UPI0003673F3E
UniRef90_UPI0004706680
UniRef90_UPI0003718CE9
UniRef90_A0A016XL25
UniRef90_UPI0004755434
UniRef90_A0LIM5
UniRef90_D3PCG4
UniRef90_A0Z9B8
UniRef90_F5BT16
UniRef90_M0QHH8
UniRef90_F8IBM8
UniRef90_E5Y617
UniRef90_F0SYT1
UniRef90_E9UQI6
UniRef90_I2NK07
UniRef90_UPI0004643B32
UniRef90_UPI0003B2F658
UniRef90_A6VND5
UniRef90_F9QB53
UniRef90_UPI000367B14A
UniRef90_V2TJK1
UniRef90_UPI00037EB238
UniRef90_UPI000237D38B
UniRef90_UPI00035FA978
UniRef90_UPI00037ED455
UniRef90_D4H6I3
UniRef90_UPI00047D09E9
UniRef90_UPI000476A314
UniRef90_A2C1K4
UniRef90_D5MN37
UniRef90_UPI000367B7DE
UniRef90_I4D533
UniRef90_Q7NLA8
UniRef90_M1MOF5
UniRef90_UPI00036468BE
UniRef90_K4KJ35
UniRef90_R4LP21
UniRef90_K2BE27
UniRef90_R5GK31
UniRef90_W7DJ24
UniRef90_F4FEJ6
UniRef90_UPI0004182278
UniRef90_C4N417

UniRef90_A4SV44
UniRef90_UPI0003A3A928
UniRef90_Q63QF1
UniRef90_H5WMJ7
UniRef90_UPI00034D86CF
UniRef90_M1WP17
UniRef90_UPI00028904AE
UniRef90_G8NVP2
UniRef90_UPI00037491FA
UniRef90_K9DIF6
UniRef90_D7WB54
UniRef90_U1S3Q7
UniRef90_UPI000310F32D
UniRef90_B9XN62
UniRef90_V8CVM5
UniRef90_F8E8Q2
UniRef90_W9A8A4
UniRef90_Q21FM2
UniRef90_A1VKB7
UniRef90_W4VHL9
UniRef90_S6GM97
UniRef90_D8IUL1
UniRef90_I3DI1B2
UniRef90_D7UY1
UniRef90_D3HPS9
UniRef90_Q31IN7
UniRef90_A5EWW4
UniRef90_M1QIH1
UniRef90_UPI00037A93D4
UniRef90_G8S658
UniRef90_C6WNG3
UniRef90_B1MHI6
UniRef90_G2LIN1
UniRef90_UPI000369D1FC
UniRef90_H6RPM3
UniRef90_F5S4J0
UniRef90_UPI000262CF47
UniRef90_R6I955
UniRef90_D1A493
UniRef90_A3PCH6
UniRef90_A4G1N3
UniRef90_Q9RRE5
UniRef90_H3KDN2
UniRef90_UPI0003B51478
UniRef90_L0K9I5
UniRef90_UPI00037BCF54
UniRef90_E6J9T1
UniRef90_C0QS44
UniRef90_I8T8N0
UniRef90_UPI0003673F3E
UniRef90_UPI0004706680
UniRef90_UPI0003718CE9
UniRef90_A0A016XL25
UniRef90_UPI0004755434
UniRef90_A0LIM5
UniRef90_D3PCG4
UniRef90_A0Z9B8
UniRef90_F5BT16
UniRef90_M0QHH8
UniRef90_F8IBM8
UniRef90_E5Y617
UniRef90_F0SYT1
UniRef90_E9UQI6
UniRef90_I2NK07
UniRef90_UPI0004643B32
UniRef90_UPI0003B2F658
UniRef90_A6VND5
UniRef90_F9QB53
UniRef90_UPI000367B14A
UniRef90_V2TJK1
UniRef90_UPI00037EB238
UniRef90_UPI000237D38B
UniRef90_UPI00035FA972
UniRef90_UPI00037ED455
UniRef90_D4H6I3
UniRef90_UPI00047D09E9
UniRef90_UPI000476A314
UniRef90_A2C1K4
UniRef90_D5MN37
UniRef90_UPI000367B7DE
UniRef90_I4D533
UniRef90_Q7NLA8
UniRef90_M1M0F5
UniRef90_UPI00036468BE
UniRef90_R4KJ35
UniRef90_R4LP21
UniRef90_K2BE27
UniRef90_R5GK31
UniRef90_W7DJ24
UniRef90_F4FEJ6
UniRef90_UPI0004182278
UniRef90_C4N417

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

UniRef90_A4SV44 A V R H A F R V A C G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI0003A3A928 A V Q H L F S V A C G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_Q63QF1 A V R H A F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_H5WMJ7 A A R H A F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI00034D86CF A T M H L M R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_M1WP17 A V E H I F T V A C S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI00028904AE S M N H L F K V T A G I L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_G8NVP2 A T R H L F R V A S S L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI00037491FA A V R H L F S V A C G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_K9DIF6 A V R H A F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_D7WVB54 A A K H L M R V A A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_U1S3Q7 A A V N H L M E V A C G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI000310F32D G I R H T L R V A S G L D D S M M L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_B9XN62 S V E H L F K V A C G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_V8CVM5 V V R H L F S V A A G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_F8E8Q2 A V R H I F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_W9A8A4 A L E Q L F R V T T G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_Q21FM2 A A S H M M K V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_A1VKB7 A A R H A F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_W4VHL9 A T E H L F R L A C G L E S M I M G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_S6GM97 A A A H M M R V A C C G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_D8IUL1 A V R H A F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_I3DI B2 A V N H L M R V A S S G L D D S L I L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_D7UY Y1 A V K H L Y E V A A G L D D S L V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_D3HPS9 G I R H T L R V A S G L D D S M M I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_Q31IN7 A I K H M M R V A S S G L N S L V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_A5E V V4 A V Q H L Y R V A C G L D D S L I L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_M1QIH1 A V A H I F K V A S G L D D S M V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI00037A93D4 A V E H L R V T S S G L D D S L V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_G8S658 A V R H S F R V A S S G L E S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_C6WNG3 A V D H L F S V A A G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_B1MHI6 A V E H L F A V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_G2LIN1 A V R H V L R V A A S L D D S M I V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI000369D1FC C A V A H L F T V A A G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_H6RPM3 T L A A H A F R V A C G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_F5S4J0 A A Q H M M R V A S G L D D S L V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI000262CF47 C V R H L F K V A S S L D D S L V I G E T G Q Q L L S Q Q I K N A Y Q T A R E N S M T G G
UniRef90_R6I955 A V Q H V F S V C G L E S M V I G E T G Q Q L L G Q Q I R E A F K L A K A E N G S T V G
UniRef90_D1A493 A V L H L M K V S A G L D D S L V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_A3PCH6 A V R H A F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_A4G1N3 A V R H A F R V T A G L D D S L V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_Q9RRE5 A A R H T F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_H3KDN2 A A R H A F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI0003B51478 A A R H A F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_L0K9I5 V G K H L Y K V I S S G L D D S L V V M G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI00037BCF54 A I R H M I R V A S S G L D D S L V M G E T G Q Q L L G Q Q I K S A Y S V A K A E T I V S
UniRef90_E6J9T1 A A E H L F S V A S S L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_C0QS44 A T K H L F K V A S S L D D S M V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_I8T8N0 A V L H S L R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI0003673F3E A I T H L Y R V A S G L D D S L V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI0004706680 V A N R H L F E V I A G F D D S M V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI0003718CE9 A A N H L M R V A C G L D D S L I L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_A0A016XL25 A A R H A F R V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI0004755434 A V E H L F S V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_A0LIM5 A V R H V F R V A S S L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_D3PCG4 A L K H L F K V A C G L D D S L V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_A0Z9B8 A L T H L V R V A A G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_F5BT16 A V D H I L Q V S A G L D D S L I V G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_M0QHH8 A V E H L F T V A A G L D D S L V V G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_F8IBM8 A I R H L F M R V A A G L D D S K V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_E5Y617 A I A H L F T V A S S L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_F0SYT1 A I R H L F R V T S G L D D S M L V G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_E9UQI6 A V S H L F K V A A G L D D S M A V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_I2NK07 A A Q H L M R V A C G L D D S L I L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI0004643B32 A V S H L M R V A C C G L D D S L I I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI0003B2F658 G A R H A Y R V A C C G L D D S M V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_A6VND5 A V T H L M R V A C C G L D D S L I L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_F9QB53 A A N H L M R V A C C G L D D S L I L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI000367B14A A V E H L F A V A S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_V2TJK1 A V S H L M R V A S S G L D D S L M L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI00037EB238 T T E H L M R V A C G L D D S M V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI000237D38B A V T H L F R L I S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI00035FA972 A A E H M M E V A S S G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI00037ED455 A V R H V F R V A A G L E S M V A G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_D4H6I3 S V H I F F R V A S S L D D S L V M G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI00047D09E9 G V K H L F E V A C G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI000476A314 A A A H L M K V A A G L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_A2C1K4 A V S H V M R V A S G L D D S L V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_D5MN37 A I R H L F R V A S S L D D A M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI000367B7DE A V R H A Y R L A S S L D D S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_I4D533 A I R H L F R V T A G L D D S M V R G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_Q7NLA8 A V M H L M R V A A G L D D S L V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_M1M0F5 A V K H I F S V A C G L N S L V I G E T G Q Q L L S Q Q M K K S V S L A N E A G S L G
UniRef90_UPI00036468BE A V A H L F Q V A V G L N S M I V I G E T G Q Q L L G Q Q M K K E S L R V Q C D L E T I G
UniRef90_K4KJ35 A I N H M M Q V A C G L D D S L V L G E T G Q Q L L G Q Q M K S A Y A V A C D A G T V A
UniRef90_R4LP21 A V R H S F R V S S G L E S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_K2BE27 A I S H M M E V A C G L D D S M I L G E T G Q Q L L G Q Q M K E A F S E S C T V N A V G
UniRef90_R5GK31 A I H H L F Q V T A G L D D S M V I G E T G Q Q L L G Q Q M K T A A F K Q A R E A N G T V G
UniRef90_W7DJ24 A V K H L Y R V T S G L D D S L I L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_F4FEJ6 A V D H V F R V A A G L D D S M V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_UPI0004182278 A V R H L F R V A T G L D D S L V L G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G
UniRef90_C4N417 A A R H I F R V A A S L E S M V V I G E T G Q Q L L G Q Q M K D A A V R T A N D A G V L G

		130	140
UniRef90_A4SV44	T Y L	N Q L	F Q K T F A V A K E V R G S T E I
UniRef90_UPI0003A3A928	R V L	N E L	T Q Q A L R V G K R A H T S E T G I
UniRef90_Q63QF1	T Y L	N Q L	F Q R S T F A V A K E V R G T S T E I
UniRef90_H5WMJ7	T T L	H Q L	F Q R S F S V A K E V R T S T E I
UniRef90_UPI00034D86CF	R I L	N R L	L F K S A I T A G K R V R T D T D I
UniRef90_M1WP17	T I L	N R L	L H K S F S V A K R V R T E T A S I
UniRef90_UPI00028904AE	T I F	N H V	F K Q G I T F A K R R A H D E T S I
UniRef90_G8NVP2	S T L	D P L	L Q R A F S V A K K V R T E T Q I
UniRef90_UPI00037491FA	R L L	N D L	F Q Q A L R V G K R A H S E T G I
UniRef90_K9DIF6	T Y L	H Q M	F Q R T F A V A K E V R T T T E I
UniRef90_D7WB54	P A L	H A L	V Q S A L H A G K R V H T E T D I
UniRef90_U1S3Q7	G E L	S R L	F Q K T F S T A K R V R T E T N I
UniRef90_UPI000310F32D	T N L	R S V	F Q Y I F S A S K R I R N R S G I
UniRef90_B9XN62	S R L	N K A	F Q K A F N V A K H I R T E T N I
UniRef90_V8CVM5	R V L	H E L	A Q Q A L R V G K R V H S E T G I
UniRef90_F8E8Q2	K L L	K K L	D E F T I K T S G K V R T N T G I
UniRef90_W9A8A4	T V L	N E L	F K Q A I T F G K R A Q K D T A I
UniRef90_Q21FM2	G H L	H D V	F Q R V F S V A K R V R S E T A I
UniRef90_A1VKB7	T T L	H Q L	F Q R S F A V A K E V R T S T E I
UniRef90_W4VHL9	T I F	N E L	F K Q A I T H G K R S Q R E T M I
UniRef90_S6GM97	G E L	G K L	F Q Q A F S V A K K V R T D T A I
UniRef90_D8IUL1	T Y L	H Q L	F Q R T F A V A K E V R S T T E I
UniRef90_I3DIB2	S E L	S R L	F Q K N F S V A K R V R T E T N I
UniRef90_D7UY1	T L L	N Q L	F K M T I T F A K S V H S Q T K I
UniRef90_D3HPS9	A E L	R S I	F E Y I F S A S K R V R T R S G I
UniRef90_Q31IN7	Q T L	H A L	F Q Y I F K T A K Q V R T D T A I
UniRef90_A5EWW4	S W L	E R L	F Q H S F A L A K H V R H Q T D I
UniRef90_M1QIH1	K V M	N R L	L C Q N A L H A S K R V R Y E T G I
UniRef90_UPI00037A93D4	T I F	N H L	F K Q A I T F A K K A H S E T D I
UniRef90_G8S658	R L L	H E L	M Q Q A L R V G K R A H A E T G I
UniRef90_C6WNG3	R A L	H E L	V Q Q A L R V G K R V H S D T G I
UniRef90_B1MHI6	R V L	H E L	S Q S A L R V G K R V H S E T G I
UniRef90_G2LIN1	R H L	H R L	F E R A F A V A K R V R T E T G I
UniRef90_UPI000369D1FC	T V L	N T L	M H R A I K T G K R V R A E T R I
UniRef90_H6RPM3	R A L	H P V	A Q R A L R V G K R V H S E T G I
UniRef90_F5S4J0	T W L	N A L	F Q R T F A A A K D V R S
UniRef90_UPI000262CF47	T E L	E Q A	F S K V L S L A K R V R T E T A I
UniRef90_R6I955	T I F	N T I	F N R A I A T G K R V R T E T K I
UniRef90_D1A493	R D L	H E L	I Q H A L R V G K R A H S E T G I
UniRef90_A3PCH6	P I L	N R L	L T Q S V S T G K K V R S E T N I
UniRef90_A4G1N3	T Y L	H Q M	F Q R T F A V A K E V R S N T E I
UniRef90_Q9RRE5	T L M	N K V	V Q G A L A A G K R V R S H T G I
UniRef90_H3KDN2	V M L	N H L	F Q A T F T V A K E V R T A T A I
UniRef90_UPI0003B51478	T T L	H Q L	F Q R S F S V A K E V R T S T E I
UniRef90_L0K9I5	S Y L	H N L	F T N A F R V A K R V R A E T N I
UniRef90_UPI00037BCF54	V H L	N A A	F Q W A F A V A K R V R S E T A I
UniRef90_E6J9T1	S T L	H R L	A Q Q A L H V G K R V H T E T G I
UniRef90_C0QS44	H I L	T R L	F D K A L N V S K K I R T S T G I
UniRef90_I8T8N0	P V L	S R L	F Q H A F A V A K L A R S R T Q I
UniRef90_UPI0003673F3E	S Y L	Y K I	F T D A F R V A K Q V R T E T K I
UniRef90_UPI0004706680	A V L	M R L	F Q K S F E A G K R V R T E T A I
UniRef90_UPI0003718CE9	S E F	S R L	F Q K T F S T A K R V R T E T D I
UniRef90_A0A016XL25	Q T L	N Q L	F Q R S F A V A K E V R S S T E I
UniRef90_UPI0004755434	T V L	H E V	A Q Q A L R V G K R V Q S E T G I
UniRef90_A0LIM5	V I L	N R L	L H K T F S V A K R V R S E T C I
UniRef90_D3PCG4	T Y L	K Q L	E Q Y T L K T A K K V R T H T G I
UniRef90_A0Z9B8	S R L	Q R L	F P E A F R I A K K V R T D T A I
UniRef90_F5BT16	Q Y L	S A L	F N Q A I T A G K R V R S E T N I
UniRef90_M0QHH8	R V L	H E L	A Q Q A L R V G K R V H T E T G I
UniRef90_F8IBM8	R L L	H R V	E H Y A L R A G K R A H A E T D I
UniRef90_E5Y617	T I L	N R L	L H K S F S V A K R V R T E T G I
UniRef90_F0SYT1	R T I	N V S	F Q K A L A V G K K I R L E T G I
UniRef90_E9UQI6	P A L	N S L	F Q Q A L R V G K R S R A E T D I
UniRef90_I2NK07	T K L	S R L	F Q R T F A T A K R V R T E T D I
UniRef90_UPI0004643B32	L S L	D K L	F Q R V F H V A K R V R T E T Q I
UniRef90_UPI0003B2F658	T L L	N H L	F Q N A F S V A K T V R S Q T A I
UniRef90_A6VND5	K E L	S R L	F Q K T F S T A K R V R T E T N I
UniRef90_F9QB53	G E L	S R L	F Q K T F A T A K R V R T E T D I
UniRef90_UPI000367B14A	R V L	H E L	S Q Q A L R V G K R V H T E T R I
UniRef90_V2TJK1	S A L	N G I	F D Y A F Y A A K R V R S E T A I
UniRef90_UPI00037EB238	T S L	S R L	F E H S F S V A K R V R T E T G I
UniRef90_UPI000237D38B	K I L	N R L	L F K A L E V G K K V R S Q T G I
UniRef90_UPI00035FA972	P A L	H A L	T Q A A L H T G K R V H S E T G I
UniRef90_UPI00037ED455	K T L	H E L	M Q Q A L R V G K R A H A E T G I
UniRef90_D4H6I3	T F I	R K L	E E F T I K T T K K V R T A T T G I
UniRef90_UPI00047D09E9	K V L	S R M	F L D A I S L G K K V R A T T G I
UniRef90_UPI000476A314	P A L	H A L	A Q S A L H A G K R V H T E T G I
UniRef90_A2C1K4	P I L	N R L	L T Q A V S T G K R V R S E T N I
UniRef90_D5MN37	Q I L	N A L	M D R A L R V A K R V R T E T G I
UniRef90_UPI000367B7DE	R V L	H E L	L Q T A L R V G K R V H A E T G I
UniRef90_I4D533	K A I	N V F	F Q T A L A V G K R I R T E T Q I
UniRef90_Q7NLA8	R V L	N Q L	F K T A I T A G K R V R S D T N I
UniRef90_M1M0F5	T Y L	Y K L	F Q F S F S V S K E V R T H T D I
UniRef90_UPI00036468BE	T G L	N A L	F Q H A L R V G K R A R A E T G I
UniRef90_K4KJ35	S P L	H A A	F Q Q V F S I A K K V R T E T A I
UniRef90_R4LP21	R L L	H E L	M Q Q T L R V G K R A H A E T G I
UniRef90_K2BE27	S L F	H R L	F Q Q V F S V A K E I R T V T A I
UniRef90_R5GK31	V Y L	N T F	F R M A V T G A K K V K T E T E L
UniRef90_W7DJ24	T I L	N Q L	F R D S V H F A K N I H H T M K I
UniRef90_F4FEJ6	R L L	H E L	M Q Q A L R V G K R A H S E T G I
UniRef90_UPI0004182278	T P L	D R L	F Q Q S F A V A K R V R T D T R I
UniRef90_C4N417	P I L	D R C	L T M A F R G A K R V R S E T D V

UniRef90_UPI0002E0D846
UniRef90_UPI000302AE42
UniRef90_UPI00036F6EDA
UniRef90_F4CZS1
UniRef90_D8EW01
UniRef90_G8NA12
UniRef90_E3FXZ7
UniRef90_R7Y197
UniRef90_UPI0003C7EC5B
UniRef90_B8G2M3
UniRef90_Q2JFS1
UniRef90_F1Y1Q9
UniRef90_W9QRH5
UniRef90_F4HE10
UniRef90_UPI0003706F29
UniRef90_E0XY24
UniRef90_N9CJR9
UniRef90_A0YF37
UniRef90_B4WJT3
UniRef90_UPI0003955380
UniRef90_C5CXW2
UniRef90_DPI0004121A1C
UniRef90_D0LUE0
UniRef90_M1UX99
UniRef90_E1Z3K3
UniRef90_UPI000255D927
UniRef90_A6W5L7
UniRef90_UPI00040440DD
UniRef90_M2XF19
UniRef90_UPI0004717ED1
UniRef90_U7K0Z7
UniRef90_E8RB78
UniRef90_UPI00038134A1
UniRef90_UPI000479F4E2
UniRef90_W4LD06
UniRef90_D9R7W2
UniRef90_V7CLW9
UniRef90_Q5X2V4
UniRef90_UPI000369526A
UniRef90_F9N6C2
UniRef90_UPI0003B6ABC7
UniRef90_F5LAK1
UniRef90_UPI000380FB8E
UniRef90_D0J057
UniRef90_E1L4F1
UniRef90_M0U9N4
UniRef90_UPI0002897CE2
UniRef90_K4LIE7
UniRef90_J7L9W4
UniRef90_V4MUX0
UniRef90_R5BZZ1
UniRef90_UPI000370B912
UniRef90_E0DC45
UniRef90_J5HRH8
UniRef90_H6R3C9
UniRef90_UPI00035F998A
UniRef90_R6N719
UniRef90_F8DPR5
UniRef90_UPI000316251B
UniRef90_D6SK08
UniRef90_A1W4B9
UniRef90_B8F4X6
UniRef90_B1VEJ5
UniRef90_UPI00046F88C7
UniRef90_UPI000462F813
UniRef90_C8PYZ5
UniRef90_D3D315
UniRef90_W5XY11
UniRef90_A8UBF4
UniRef90_B2V771
UniRef90_B0K2L3
UniRef90_I3VVW0
UniRef90_R6RUB2
UniRef90_D3F2Z7
UniRef90_UPI00036B0FE9
UniRef90_R7GQW8
UniRef90_E8U4K5
UniRef90_M1D2W4
UniRef90_UPI0003B4E934
UniRef90_A0A022PU77
UniRef90_UPI00039FBBC6
UniRef90_UPI000255EC68
UniRef90_Q8D2K8
UniRef90_C7N5K9
UniRef90_R5XAK6
UniRef90_UPI00046D6986
UniRef90_UPI00037B0920
UniRef90_UPI0000E0E15E
UniRef90_U5CRN4
UniRef90_W0JGE1
UniRef90_R7CM72

UniRef90_UPI0002E0D846 A V L H L M K V S A G L D S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI000302AE42 A I H H L Y S V T A G L L E S S M V V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI00036F6EDA A V E H M F A V S A S G L L D S S M V V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_F4CZS1 A V Q H L F A V S A S G L L D S S M V V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_D8EW01 A V T H I F A V S A S G L L D S S M V V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_G8NA12 A L R H L F Y R V A A S G L L D S S M V V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_E3FZX7 A L E H L F R V V A A S G L L D S S M V V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_R7Y197 A V S H L F F N V A A S G L L D S S M V V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI0003C7EC5B A V R H L F F S V A A G L M D S S M I V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_B8G2M3 S V R H L F F R V A A G L L D S S M V M G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_Q2JFS1 A I G H L F F S V V C G L L D S S M L V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_F1YIQ9 A V E H L F F T V A A G L L D S S M V V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_W9QRH5 A T Q H L F F T V A A G L L D S S M V V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_F4HE10 C V T H L M R V V A C G L L D S S L I L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI0003706F29 S V Q H L F F R V A A S G L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_E0XY24 A V R H L F F R V T S S G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_N9CJR9 A V S H L M R V A S G L L D S S L M L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_A0YF37 A L R H M I Q V A S G L L D S S M V M G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_B4WJT3 A V M H L M R V A A G L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI0003955380 A A R H A F R V A S G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_C5CXW2 A A R H V F R V A S G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI0004121A1C A A R H L Y R V V S G L L E S S M I V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_D0LUE0 A V R H A F Q V A S A L L D S S L V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_M1UX99 A A E H M L V V T S G G L L D S S M V V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_E1Z3K3 A T G H L L R V T S G G L L D S S L V M G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI000255D927 A V I H L F R L I S G L L E S S M V F G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_A6W5L7 G V E H L F F K V A C G L L D S S M A V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI00040440DD A V A H V F R V A A G L L D S S M V A G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_M2XF19 A V W H I F R V A G G L L D S S L V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI0004717ED1 A A R H L M R V S C G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_U7K0Z7 A A E H M M V V A S G L L D S S M V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_E8RB78 A V E H L F L V A A S L L D S S M I V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI00038134A1 A V R H A F R V A S G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI000479F4E2 A A R H A F R V A S G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_W4LD06 A V R H L F R V A A S L L D S S L V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_D9R7W2 A L G H L F F K V A C G F L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_V7CLW9 A T R H L F F E V A A G L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_Q5X2V4 G I K H T L R V A S G L L D S S M M I G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI000369526A A L T H W V R V A S S G L L D S S M I L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_F9N6C2 C I S H L F R V A S S L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI0003B6ABC7 A V Q H L Y R V A A G L L D S S L V I G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_F5LAK1 A L E H L F R L A V G L L D S S M V I G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI000380FB8E V A R H A F R V A S G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_DOJ057 V A R H A F R V A S G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_E1L4F1 C I E H L F R V S A S L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_M0U9N4 A T R H L F F E V S A G L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI0002897CE2 G V R H L L R V A S S L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_K4LIE7 V V R H L F R V T V G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_J7L9W4 A V Q H L F S V T C G L L D S S M V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_V4MUX0 V T Q H L F E V S A G L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_R5BZZ1 L L A H L F F N V A S S L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI000370B912 A L R H M V A V A S S G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_E0DC45 A A E H L M L V A A G L L D S S M V T G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_J5HRH8 A A R H L M S V A C G L L D S S L I L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_H6R3C9 A A E H L F A V S S G L L D S S M V I G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI00035F998A A V S H L F S V V C G L L D S S M V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_R6N719 A V M H L F R V V S G L L E S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_F8DPR5 A A S H L F R V I V G L L D S S L I K G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI000316251B V F D H L F R V A A G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_D6SK08 A V R H L F T V A A S L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_A1W4B9 V A R H A F R V A S G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_B8F4X6 A A R H L M S V A C G L L D S S L I L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_B1VEJ5 A V E H M L N V A S G L L D S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI00046F88C7 A V E H L F A T V S G I L N S L V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI000462F813 A V D H L F C V A S G L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_C8PYZ5 A L L H W V R V A S S G L L D S S M I L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_D3D315 A V S H L F S V V C G L L D S S M L V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_W5XY11 A A E H L L T V A A G L L D S S M V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_A8UBF4 A A E H L F N V A T G L L D S S L I I G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_B2V771 A I R H I F R V S S S L L D S S M V I G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_B0K2L3 A V E H I F R V A C G L L E S S M V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_I3VVW0 A V E H I F R V A S G L L E S S M V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_R6RUB2 A I S H L Y N V V S G I L D S S M V I G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_D3F2Z7 A A R H L Y R V T S G L L E S S M I V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_A0LRF2 A V Q H L F A V A A G L L D S S M L V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI00036B0FE9 A A E H M L M V T A G L L D S S M V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_R7GQW8 A V E H L F Y L T S G L L K S Q I L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_E8U4K5 A A T H L F Y R V A A G L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_M1D2W4 A T Q H L F E V A A G L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI0003B4E934 A A E H L M T V T S G L L D S S M V I G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_A0A022PU77 A T Q H L F E V S S G L L D S S L V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI00039FBC6 A A E H M M T V A S G L L D S S M V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI000255EC68 A V A H L F E L A C G L L D S S M A V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_Q8D2K8 A V S H L M R V T S G L L D S S M I L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_C7N5K9 A T E H L F R V V C S G L L D S S Q V L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_R5XAK6 A I Q H L F D V T A G L L D S S L V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI00046D6986 A I D H L F R V V S G L L D S S I A A G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI00037B0920 A V A H L Y R V A A G L L D S S L V I G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_UPI0000E0E15E A L N H I M R V A S G L L D S S L I L G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_U5CRN4 A V K H I F R V A A G L L E S S M V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_W0JGE1 A I R H I F F E L S S G L L D S S Q V V G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G
UniRef90_R7CM72 A V E H L F Y L T S G L L K S Q I I G E T Q Q I L S Q Q V I R R Q A F F T A Q Q R F H S T T G

UniRef90_UPI0002E0D846 P I L N R L L T Q S I S A G K K V R S 130 140
UniRef90_UPI000302AE42 T V F N K L L F K E A I T V A K R R G H S E T N D I L
UniRef90_UPI00036F6EDA K T L H E L A S Q Q A L R V G K R R V H S E T D D I G I
UniRef90_F4CZS1 R V L H E L S Q Q A L R V G K R R V H A S T G I
UniRef90_D8EW01 V I L N R L M H K A F H V A K R R V R S E T D I
UniRef90_G8NA12 G L L E K A F Q S A I A L A K R R A R R S E T
UniRef90_E3FZX7 N V L T R V F A A A F G C A K R R V R T E T A
UniRef90_R7Y197 P A L N V L F Q Q A L R V G K R R S H A E T D I
UniRef90_UPI0003C7EC5B T A L N V L F Q Q A L R I V G K R R G H A E T G I
UniRef90_B8G2M3 K I I H A I F Q N A L A V G K R R V R S E T Q I
UniRef90_Q2JFS1 S A L S G L F Q Q A L R V G K R R A H S E T S I
UniRef90_F1YIQ9 S T L H E L A Q K A L R V G K R R V H S E T G N I
UniRef90_W9QRH5 K R I G G L F K N A L T A G K R V R S E T N I
UniRef90_F4HEI0 T E L S R L F Q K T F S T A K R V R T E T E I
UniRef90_UPI0003706F29 R Q L N K I F Q K A F H V S K H I R R S N T G I
UniRef90_E0XY24 K L L N P I F N K A F R A A K R V R S E T G I
UniRef90_N9CJR9 Q Q L N R I F E Y A F Y A A K R V R S E T A V
UniRef90_A0YF37 G E L S R I E P H V I T V A K K V R T D T A I
UniRef90_B4WJT3 R I L G R L L K D S I K A G K R V R T E T N L
UniRef90_UPI0003955380 T T L N Q L F Q R S F A V A K E V R S A T E I
UniRef90_C5CXW2 S T L N Q L F Q R S F A V A K E V R T A T A I
UniRef90_UPI0004121A1C P M T N R L F T A A L Q T G K R V R S E T A L
UniRef90_D0LUE0 P I L G R C M E R A F G V A K R V R S E T G I
UniRef90_M1UX99 P A L H S L A Q T A L H T G K R V H T E T N I
UniRef90_E1Z3K3 R H L N G L F K Q A V T A G K R V R A E T
UniRef90_UPI000255D927 K V L N R L L F I K A L E V G K Q V R S R T G I
UniRef90_A6W5L7 G T L D R L L Q T A L R V G K R A H S E T R R V
UniRef90_UPI00040440DD R H L H E L F Q Q A L R V G K R V H A E T E V L
UniRef90_M2XF19 K V L K K L L N S A V A A G K R V R S E T G I
UniRef90_UPI0004717ED1 S T L D A L F Q F A F A T A K K V R T D T G I
UniRef90_U7K0Z7 K T L H A L A Q S A L R A G K R V H T E T K I
UniRef90_E8RB78 F I L N K L L H K S F S V A K R V R T E T R I
UniRef90_UPI00038134A1 G T L G Q M F Q R T F A V A K E V R S T T E I
UniRef90_UPI000479F4E2 T T L N Q M F Q R S F A V A K E V R S A T E I
UniRef90_W4LD06 S V F H Q L F D R A L G V G K A V R H E T G I
UniRef90_D9R7W2 Y E M N V L F Q R A F A C A K R I K T D T N I
UniRef90_V7CLW9 R K I G G L F K Q A I S V G K R V R T E T N I
UniRef90_Q5X2V4 T Q L R P V F E Y I F R A S K R I R T R S G I
UniRef90_UPI000369526A S Q L S F I T Q Q V F A T A K Q V R S E T K V I
UniRef90_F9N6C2 S V F N I F Q K A I A V G K R V R T M T G I
UniRef90_UPI0003B6ABC7 P L L N K I A Q Q A L A A G K R V R F E T G
UniRef90_F5LAK1 T I E N T L F K Q V I T L A K R A H S E T Q I
UniRef90_UPI000380FB8E T T L N Q L F Q R S F A V A K E V R S S T E I
UniRef90_DOJ057 T T L N Q L F Q R S F A V A K E V R S S T E I
UniRef90_E1L4F1 T V F N I L F Q R A I L G V G K K V R T N T G I
UniRef90_M0U9N4 K N I D R M F K D A I T A G K R V R S E T N I
UniRef90_UPI0002897CE2 K L L H P L F T R A F S T A K R V R T E T S V
UniRef90_K4LIE7 K V L N T L F Q E A I R L G K R I R T I T G I
UniRef90_J7L9W4 R V L N D L G Q R A L R V G K R A H T E T H I
UniRef90_V4MUX0 R N I S G L F K H A I T A G K R V R T E T N I
UniRef90_R5BZZ1 P I E N I F Q R A I S V G K K V R T V T G I
UniRef90_UPI000370B912 S Q L Y N V F P H V F S L A K K V R T D T A I
UniRef90_E0DC45 P Q L H G L V Q A A L R T G K R V H T E T D I
UniRef90_J5HRH8 T K L S R L F Q R T F S T A K R V R S E T E I
UniRef90_H6R3C9 R T L H E L A Q H A L R V G K R V H S E T G I
UniRef90_UPI00035F998A S V L N G V F Q H A L R V G K R A H T E T E L
UniRef90_R6N719 Y E L N M T F Q S A M A C A K K I K T Q T A L
UniRef90_F8DPR5 V I L N H L F R Q A I T F S K R M H T E Y R V
UniRef90_UPI000316251B S L L H R L F R A A L T V G K R A H A E T A
UniRef90_D6SK08 V I L N R M M H K S F S S A K R T R S E T
UniRef90_A1W4B9 T T L N Q L F Q R S F A V A K E V R T S T D I
UniRef90_B8F4X6 T N L S R L F Q K T F A T A K R V R S E T E I
UniRef90_B1VEJ5 R T L H D L F Q R A L R T G K R V H S E T E I
UniRef90_UPI00046F88C7 P T L N A L F Q H A L A V G K R A R T E T A I
UniRef90_UPI000462F813 V I T N R L C H K A F S V A K K V R T A T G I
UniRef90_C8PYZ5 S K L S W V I Q Q V F A A A K Q V R N E T R V I
UniRef90_D3D315 G A L G A L F Q N A L R V G K R A H S E T S I
UniRef90_W5XY11 P R I H A L A Q S A L H T G K R V H S E T T I
UniRef90_A8UBF4 P I L N S L F N K A I S F S K K M H T K T N L
UniRef90_B2V771 H I L T R L F D K A L N V S K K I R T S T G I
UniRef90_B0K2L3 K I L F K L F R D A V T L G K K A R T D T G I
UniRef90_I3VVW0 K L L N K L F M D A I S M G K K V R T E T G L
UniRef90_R6RUB2 Y E L N T V F Q A A I A C A K R I K T E T A L
UniRef90_D3F2Z7 P L T N H L F R A A L A T G K R V R S E T R L
UniRef90_A0LRF2 R D L H A I V Q D A L H A A R R V R A E T R I
UniRef90_UPI00036B0FE9 P A L H S L T Q T A L H T A G K R V H T E T A
UniRef90_R7GQW8 S V L E V L F R M A V T A G K K I K T E
UniRef90_E8U4K5 A L L N K A A Q G A L A T G K R V R T E T G L
UniRef90_M1D2W4 R K I S E L F K H A I T A G K R V R T D T N I
UniRef90_UPI0003B4E934 P R L H A L A Q A A L H V G K R V H S E T D I
UniRef90_A0A022PU77 R K I C G M F K H A I T V G K R V R T E T S I
UniRef90_UPI00039FBBC6 P G L H A L A Q T S L R A G K R V H A E T E I
UniRef90_UPI000255EC68 S S L N P L L Q Q A L R V G K R A H A E T G I
UniRef90_Q8D2K8 I D L Q K L F E S A F S V A K K I R S E T K I
UniRef90_C7N5K9 D V M T E L F K S A L R L G K R A R T E T G I
UniRef90_R5XAK6 K V F N K L F R D A V T T S K E I K T I T K I
UniRef90_UPI00046D6986 R Q L H D L F Q R A L H T G K R V R T E T D I
UniRef90_UPI00037B0920 T L M N K V A Q G A L A A G K R V R T D T G L
UniRef90_UPI0000E0E15E S Q F Q R I F D H T F Q V A K K V R T D T D I
UniRef90_U5CRN4 K I L N R L F R E A V T L G K R V R A E T G I
UniRef90_W0JGE1 A I L N R I M R K A F T L A K I V R S Q T N I
UniRef90_R7CM72 G V L E V L F R M A T A G K R I K T E

UniRef90_A6GI40
UniRef90_B2A1G4
UniRef90_L11R65
UniRef90_UPI00029AEA49
UniRef90_S9R465
UniRef90_UPI00037769C7
UniRef90_T0C975
UniRef90_D4L741
UniRef90_G2EF03
UniRef90_R7IBQ5
UniRef90_UPI00047A7E69
UniRef90_D6U6V3
UniRef90_UPI00041479F0
UniRef90_W9DS57
UniRef90_UPI0003732757
UniRef90_E3B7B5
UniRef90_L9M981
UniRef90_M1URF1
UniRef90_E6Q6G1
UniRef90_UPI00047B1531
UniRef90_M1E4W0
UniRef90_UPI00047F3LH14
UniRef90_C9RPT7
UniRef90_B4S921
UniRef90_UPI00047L2FG1
UniRef90_G2Z3B6
UniRef90_F8E2T1
UniRef90_M7D8T5
UniRef90_A9B543
UniRef90_UPI000255B87C
UniRef90_UPI00031BC078
UniRef90_F9MW07
UniRef90_UPI00047E1DB0
UniRef90_H7EPI4
UniRef90_F4BRP7
UniRef90_R5VG64
UniRef90_C0CH98
UniRef90_UPI00037A8E6F
UniRef90_D3RZJ8
UniRef90_K8ESA5
UniRef90_D6Z823
UniRef90_W1NE78
UniRef90_M5A6P6
UniRef90_H8MXH2
UniRef90_F5XF76
UniRef90_C1N0N8
UniRef90_J3JCJ0
UniRef90_E6MI71
UniRef90_UPI00047W9GJ51
UniRef90_A3ZM18
UniRef90_H1LRY7
UniRef90_UPI000479F7F7
UniRef90_R7KR63
UniRef90_UPI000375B13B
UniRef90_I0WJ58
UniRef90_A0A017T095
UniRef90_D7LD09
UniRef90_UPI0003656307
UniRef90_R6MPK7
UniRef90_N0BKA3
UniRef90_D5SUS8
UniRef90_A5ZYE9
UniRef90_UPI000476B8D8
UniRef90_R6NVU9
UniRef90_K7RH84
UniRef90_E4W8H6
UniRef90_N0DYL9
UniRef90_K2JNZ4
UniRef90_D1CE52
UniRef90_A0M6C1
UniRef90_F0GYK4
UniRef90_H8XNM0
UniRef90_UPI00047W5X685
UniRef90_A4S4F6
UniRef90_Q14JR2
UniRef90_L7EKT0
UniRef90_C9KL84
UniRef90_W7U4L8
UniRef90_UPI00047BE40A
UniRef90_J4VPR4
UniRef90_K6Y5M1
UniRef90_K6XCE0
UniRef90_K6W4Z9
UniRef90_K2E3F0
UniRef90_UPI00046EDA8B
UniRef90_I3YUY3
UniRef90_J4TCZ0
UniRef90_UPI00047ECAD1
UniRef90_A3THP5
UniRef90_N2AJW6
UniRef90_A6GVP1
UniRef90_B1ZMU3

1 10 20 30 40

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

UniRef90_A6GI40 A A R H I F R V V A A S G L E S M V I G E P Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_B2A1G4 A V S H I L F K V V T A A G L L N S L V I T G E T G Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_L1IR65 A V W H A L F R V V A A G S L L D S S M V L I G G E T G Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_UPI00029AEA49 A V R H L F L F R V V A S S L L D S S M V L I G G E P Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_S9R465 S L V H L F R F V V S A S S L L D S S M V L I G G E A Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_UPI00037769C7 A V E H L F A F V V A S A G L L D S S A V I V G G E A Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_T0C975 A V A H A M R V V A A S G L L D S S V V V I G G E T Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_D4L741 A L L H L F R F V V A G S G L L E S M V I G G E D E I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_G2EF03 A L A H M F R V V A S S G L L D S S Q I L G G D F T E I V G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_R7IBQ5 V A R H T F R V V A S S G L L D S S M V L I G G E T Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_UPI00047A7E69 T T Y H L F F Q V T N G F K S S M V L I G G E D Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_D6U6V3 A V T H L F S V V A C G L R D S S L V L P G G E P Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_UPI00041479F0 A M V H L Y E V V V T G L G L D S S M I L G G E T Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_W9DS57 A V E H I F S V V A S G L L D S S M V L I G G E T Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_UPI0003732757 A A E H L M V V V A A S G L L D S S M V L I G G E Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_E3B7B5 A V A H L F N V V A A S G L L D S S L A V G G E S Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_L9M981 A V S H L M R V V A S A G L L D S S L M L I G G E P Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_M1URF1 A I W H L L R V V A S A G L L D S S L V V I G G E A Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_E6Q6G1 A V E H L L R V V T T G L G L D S S M L I G G E G A E I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_UPI00047B1531 A V Q H L F T V A A S G L L D S S M V V I G G E S Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_M1E4W0 V A K H L F T V A A S S G L L D S S L V V I G G E S Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_F3LH14 A V K H M M R V V A S S G L L D S S V V L I G G E P Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_C9RPT7 V A H H V M N V V C A G L D S S V A M I G G E D Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_B4S921 T A R H L F E V V S S A T L D S S L V L I G G E G Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_L2F9G1 A L T H W V R V V A S S M I L G G E P Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_G2Z3B6 A L N H I F R V V G T G L L D S S Q I L I G G D F E I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_F8E2T1 A A E H M L N V V A A S G L L D S S M V M I G G E G Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_M7D8T5 A V R H M M R V V A A S G L L D S S M V L I G G E P Q Q I L L G Q Q V K K R A Y W Q L A S A R E R E T V G D
UniRef90_A9B543 A V R H L F R V V A S G L L D S S M A L I G G E A Q I L L S Q I K T A Y N A Q K Q T E L L G
UniRef90_UPI000255B87C A I S H L F F K V G T G L L D S S Q I L I G G D F E I L L S Q I K K E A F Y R A K K L R I G M S T N G
UniRef90_UPI00031BC078 A V R H L F R V V T A S G L L D S S L V I G G E G Q I L L A G Q V K K E A F D A G L R I G M S T N G
UniRef90_F9MW07 A L H H L F Y V A I G L D S S M I I G G E D Q I L L G Q Q V V D A H T T A M D L L N S S Q
UniRef90_UPI00047E1DB0 A L N H L Y R V A G T G L L D S S Q I L I G G D Y E I V G Q Q V L R R E S Y F L R D R N A K K T K T V N
UniRef90_H7EP14 A A G H L F R V V A G G L L D S S M I L I G G E T Q I L L S Q V V K Q A L A T A I E Q H T S G
UniRef90_F4BRP7 A A K H L F N V V A T G L L D S S L I I G G E T Q I L L S Q V V K Q A L A T A I E Q H T S G
UniRef90_R5VG64 A I S Y L F R V V T A G L L E S M V L I G G E D Q I L L T Q V V K D A F E L S R T V F G S T T D
UniRef90_C0CH98 A V E H L F Y L T S G L L E S M V L I G G E D Q I L L T Q V V K D A F E L S R T V F G S T T D
UniRef90_UPI00037A8E6F A I E H L F T V T S G L L D S S M V I G G E P Q I L L G Q Q V R A A Y Q A A I E R G G A G
UniRef90_D3RZJ8 C M E H I L R V V A S G L L E S M M V I G G E D Q I L L G Q Q V K D F Y N L G K Q E H G G I G
UniRef90_K8ESA5 V A T H I F K V V A T G L L D S S L M V I G G E T Q I L L S Q V V K F A L K N A Q K E V J A T A G
UniRef90_D6Z823 A V Q H V F S V V A A S L L D S S M V I G G E Q Q I L L G Q Q V R T A Y A T A T E A G S V G
UniRef90_W1NE78 A T Q H L F F V V A A G L L D S S L V L I G G E S E I L L A Q Q V K V V K V G Q Q E V V G F
UniRef90_M5A6P6 A V T H L F F V V A A S G L L D S S A V L I G G E S E I L L A Q Q V R T A W E V G Q Q A G A A R
UniRef90_H8MXH2 A L V H L F R V V A S S L L D S S M V L I G G E A Q I L L G Q Q V K D A F E R G Q Q A G A V R
UniRef90_F5XF76 A V A H T F A V V S S G L L D S S M V I G G E N Q I L L G Q Q V K S A L T A C Q A H G V G
UniRef90_C1N0N8 A T A H L L K V V S S G L L D S S V V M I G G E G Q I L L A Q V V F A L G E C V D G F
UniRef90_J3JCJ0 A V T H L F R V V A S G L L E S L I V I G G E P Q I L L G Q Q V K R A F F A A Q A N A T T G
UniRef90_E6MI71 A V R H A F T V V C G L D S S M L I G G E D Q I L L G Q Q V K D A L E K A Q Q E Y R G A G
UniRef90_W9GJ51 A V A H A F T V A C G L D S S M A V I G G E S Q I L L G Q Q M R A A A L A Q Q Q S G R V G
UniRef90_A3ZM18 V V R H L F T V A A S L L D S S M V V I G G E A Q I L L S Q V V K Q A Y E L S T Q I D S A G
UniRef90_H1LR7 A V S H L Y M V V A A G L L D S S M L I G G E D Q I L L G Q Q V K D A L E F A M C N T S H
UniRef90_UPI000479F7F7 A V A L Y E V C C G L D S S L V I G G E D Q I L L G Q Q V K D A H N Y A M E I K A T S G
UniRef90_R7KR63 V V E H A F C V A S G L L D S S M V I G G E T Q I L L G Q Q M K K A E K A A R K A K G L G
UniRef90_UPI000375B13B A M R H L M R V V A S A G L L D S S L V L I G G E G F E I L L A Q Q I K T M H K Q A Q K Y K G L G
UniRef90_I0WJ58 A I A H M F R V V G T G L L D S S Q I L G D F F E I L S Q I K Q S F V Q S R E Y E L L G N
UniRef90_A0A017T095 A V L H L F R V V A T S L L D S S L V V I G G E P Q I L L S Q Q L K E A L D L A R G A G T V G
UniRef90_D7LD09 A T Q H L F F Q V V A S A G L L D S S L V L I G G E N Q I L L G Q Q V K Q V E K V V K Q D A Y F G
UniRef90_UPI0003656307 A V E H L F Y L T S G L L K S Q I L A E D Q I T Q V V K D A L T L S R K Q D A G C T D
UniRef90_R6MPK7 C S R H L A L T A S G L L K S M L I G G E D Q I L L G Q Q V K D A H E F A K E H L C C G
UniRef90_NOBKA3 A I M H L M R V V C S S L L D S S M M V I G G E D Q I L L G Q Q V R E Y Y H L C K D L G S G I G
UniRef90_D5SUS8 A V Q H L F Q V V S S L L D S S M V L I G G E P Q I L L A Q V V K D A Y R K A C D E N G S C G
UniRef90_A5ZYE9 A A E H L F Y L A G G L L K S Q I L G G E D Q I L T Q I K D A L N L A R E H F T T D
UniRef90_UPI000476B8D8 A V E H L F Q V T G T G L L D S S Q I L G D F F E I L G Q I K Q S F S L S R D K G L A N D
UniRef90_R6NVU9 A I E H L F Y L T S G L L D S S Q I L A E D Q I T Q V V K D A L S M A R D V Y C T
UniRef90_K7RH84 A V R H L F Y V A A S L L D S S M V V I G G E S Q I L L G Q V K Q A Y E D A T R L G S T G
UniRef90_E4W8H6 A A E H L F A V V A S G L L D S S M V I G E Q Q I L L G Q Q V R T A Y A A A D A R Q Q A A V G
UniRef90_N0DYL9 G V A H A F A V A S S G L L D S S M A I I G E A Q V L L G Q Q L R S A Y A A R G Q A R H H A V G
UniRef90_K2JNZ4 A L R H A F A V A A S S L L D S S E V I G G E P Q Q I L L G Q Q V K A A H R L A R D A G R V G
UniRef90_D1CE52 A V Y H L M S V V A A G L L D S S V V I G G E S F E I L L G Q Q V R Q A W E K A S L G D T T G
UniRef90_A0M6C1 A I T H I F K V G T G L L D S S Q I L G D F F E I L S Q L K J A F V R S K K L G L V N
UniRef90_F0GYK4 A I N H L F S L T C G L D S S L I V I G G E D Q I L L G Q Q V S D A Y E T S L S L G F C K
UniRef90_H8XNM0 A V N H L F R V V T G T G L L D S S Q I L G D F F E I L S Q I K L G F T E S K K H N L G N
UniRef90_W5X685 A A C H L F R V V T S G L L D S S A V L I G G E T E I V A Q I K E A W R S G T T G
UniRef90_A4S4F6 S T G H L L K V S G G L L D S S V V M I G G E G Q I L L A Q V V K S V F A M G E S E K A F G
UniRef90_Q14JR2 V I D H L M K L A C G L E S M V L I G G E P Q I L L G Q Q V K D S Y T L S K K N H A I G
UniRef90_L7EKT0 V I D H L F K V T N G F E S M V L I G G E D Q I L L G Q Q V K N A Y S E A K K N A S G
UniRef90_C9KL84 C I R H L F N V A S S L L D S S L V L I G G E G Q I L L S Q V V K E A Y A I A R E A G T T S
UniRef90_W7U4L8 A I W H L M R V V S G G L L D S S L V V I G G E G Q I L L S Q V V K Q C Y N H G M E E G K G G
UniRef90_UPI00047BE40A A V A H A F T V A C G L L D S S M A V I G G E A Q I L L G Q Q M K D S L A E A Q G R G Q A G
UniRef90_J4VPR4 A I R H L F R L A C G L L E S M V L I G G E T Q I L L G Q Q L K E A Y R R A T T H E Q S T
UniRef90_K6Y5M1 A I E H V M R V A S G L L D S S L V L I G G E P Q I L L G Q Q V K Q A Y T S A K N A G A V N
UniRef90_K6XCE0 A I A H V F Q L A C G L L D S S M A V I G G E P Q I L L G Q Q L R T S L S A R E A G T V G
UniRef90_K6W4Z9 A I A H L F S V A S G L L D S S M A V I G G E A Q I L L G Q Q L R T S L R R S Q D V G H A G
UniRef90_K2E3F0 L V K H L F F E V A C G L L D S S L V L I G G E D Q I L L G Q Q V K D S Y F Q A L E N E A S G
UniRef90_UPI00046EDA8B A V S H L F R V V G T G L L D S S Q I L G D F F E I L S Q I K N G F K Q S K E K E M V N
UniRef90_I3YUY3 A V S H L F T V V T G T G L L D S S Q I L G D F F E I L S Q L R K A F R D S K K Q D I N
UniRef90_J4TCZ0 A V S H L Y K V V A S A G L L D S S M L I G G E D Q I L L G Q Q V K Q D L E F A R E C G T A H
UniRef90_UPI00047ECAD1 A I N H L F R V V G T G L L D S S Q I L G D F F E I L S Q L K Q S F K R S K E L G T A N
UniRef90_A3THP5 G I A H A F S V A A G L L D S S M A V I G G E A Q I L L G Q Q L R D A L T R A Q R L G H V G
UniRef90_N2AJW6 A V R H L F Y L A G T G L L D S S K I L I G G D F F E I L T Q I K E A L T R A R E L N C T D
UniRef90_A6GVP1 A I S H L F K V L G T G L L K S Q I L G D F F E I L S Q I K J A F T E S K A L D L A N
UniRef90_B1ZMU3 A V Q H L L E V A A G I D S S Q M L I G G E N E I F G Q V K E A Y A T A Q T S G H T G

UniRef90_A6GI40 P I L D R C L T M A F H G A K R V R S E T S I
UniRef90_B2A1G4 S I F H G L Y Q Q A L R T G K R R V H R S E T S I
UniRef90_L11R65 K V L T R M L N T A V S R T S A G S R R V R R S E T G R I
UniRef90_UPI00029AEA49 P I T H A L F Q G A I R T S A G S R R V R T E T R L
UniRef90_S9R465 G E L T R V C A A A F G C A K R R V R T E T A I
UniRef90_UPI00037769C7 R T L H E L S Q R A L S V G G K R V H S E T G I
UniRef90_T0C975 A M F N R L F R E V I H V G K R A Q S E T T I
UniRef90_D4L741 Y E L N M C V Q A A V A C A K K I K T E T A I
UniRef90_G2EF03 T F I E R L V N S V I Q A A S K E I K T E T A N I
UniRef90_R7IBQ5 L M L G H L F D G T F A A A K E V R T A T A I
UniRef90_UPI00047A7E69 K I L N R L F L N S I T T D A K K I K T Q T S I
UniRef90_D6U6V3 P I L S A L F R A A I T T T G K R A R N E T G I
UniRef90_UPI00041479F0 K Y L T K M F R E A I T F T K K V K T D Y K I
UniRef90_W9DS57 S A L H G L V Q T T L R V G K R V H T E T G I
UniRef90_UPI0003732757 P G L H S L S Q S A L R T G K R V H S E T A I
UniRef90_E3B7B5 P V M S R L V Q Q A L R V G K R V H S E T G I
UniRef90_L9M981 Q N L N Q I F E Y A F Y A A K R V R S E T A V
UniRef90_M1URF1 K S L T R L L N A A V S A G K R V R T E T G I
UniRef90_E6Q6G1 S S M H K L F R E A L N A G K A A R T Q T T I
UniRef90_UPI00047B1531 R T L H E L V Q Q A L R I G K R V H T D T G I
UniRef90_M1E4W0 L T L N S H L I S Q A I R V G K R V R T E T Q I
UniRef90_F3LH14 S E L H S V F Q K V F G V A K R V R T N T A I
UniRef90_C9RPT7 N T L N K L F Q S A I H T T K R I K T E T N I
UniRef90_B4S921 I L L T R L C H T A F S V A K K V K T R T R I
UniRef90_L2F9G1 N Q L S F I I Q Q V F A A T K K V R S E T K V
UniRef90_G2Z3B6 A Y L E R L V N S V I Q A S K K V K N E T E I
UniRef90_F8E2T1 R T L H D L T Q R A L R T G K R V H S E T A I
UniRef90_M7D8T5 S F L S R L F E H T F S V A K R I R T H T A I
UniRef90_A9B543 T T M H R L I Q A A L T T G K L V R T E T Q L
UniRef90_UPI000255B87C P F L E R L C N S V I Q A A K R I K N E T E I
UniRef90_UPI00031BC078 P L L N T L F Q S A Q R A A K R V R T E T G I
UniRef90_F9MW07 K I L N K I F R E A I T F A K R V K T E
UniRef90_UPI00047E1DB0 A Y L E R L V N S V L Q A A K K V K N Q T K L
UniRef90_H7EP14 F H A N I L F Q R A L T C A S K R I K T E T N L
UniRef90_F4BRP7 P I L N S L F H K S I S F S K K M H T K T N L
UniRef90_R5VG64 K E L N R V V Q D A V T C A K K I K T K L R I
UniRef90_C0CH98 S V L E V L F R M A I T A G K K I K T E V A
UniRef90_UPI00037A8E6F Q V L H E L I Q T A L R V G K R V H S E T G I
UniRef90_D3RZJ8 E I L D L I F S K A I Q V G K R V R R E T R I
UniRef90_K8ESA5 P I L S S L F N K A V S F S K R V H T H T K I
UniRef90_D6Z823 A S L H G L V Q H A L K T G K A A Q S Q T A V
UniRef90_W1NE78 R N I S G L F K Q A I S A G K R V R T E T A I
UniRef90_M5A6P6 T T L N L L F R S A I E T G K R A R N E T A I
UniRef90_H8MXH2 G E L T R A C A A A F G C A K R V R T E T A V
UniRef90_F5XF76 T G L N A L F Q Q A L R V G K R V H T E T S I
UniRef90_C1N0N8 R H L S G L F K A A I T A G K R V R S E T S I
UniRef90_J3JCJ0 A T F N H L F Q E V I T F A K R M H T E Y K I
UniRef90_E6MI71 A F L T K A F R E A I T F S K K I K T V Y K I
UniRef90_W9GJS1 A S L N E L F Q Q A L R V G K R A H S E T D I
UniRef90_A3ZM18 T L T H S C F Q A A I R V A K R V S N E T T I
UniRef90_H1LRY7 L Y L N T L F R D A V T E A K K I K T E T L I
UniRef90_UPI000479F7F7 K V L N R L F L E A L A K A K I K T R T A I
UniRef90_R7KR63 L M L N T L F Q R T F T V A K E V R T A T E I
UniRef90_UPI000375B13B R L L D R L L K Q A L A A G K R V R S E T D I
UniRef90_I0WJ58 A F L E R L C N S V I Q A S K R I K N E T E L
UniRef90_A0A017T095 A K I G Q A M N R A F K V G K R A R A E T A I
UniRef90_D7LD09 R T I S A L F E K A I T K A G K R V R E E T N I
UniRef90_UPI0003656307 G V L E V L F R M A V T A A K K V K T E V A
UniRef90_R6MPK7 K Y L N T L F R I S V T G A K K V K T E T
UniRef90_NOBKA3 G Y L D L V F K K A I N T G R K V R N L T G I
UniRef90_D5SUS8 A L T H A L F Q G A I R T S N R V R T E T R L
UniRef90_A5ZYE9 S I L E V L F R M A V T A G K K I K T E
UniRef90_UPI000476B8D8 S F L E R L L N S V I N A S K R I K N E T
UniRef90_R6NVU9 N V L E V L F R M A V T A A K R V K T E
UniRef90_K7RH84 P L T H G V F Q S A L K A A R R V A S D T S I
UniRef90_E4W8H6 R A L H E L A Q Q A L R V G K R V H S E T G I
UniRef90_N0DYL9 P Q L N T V L Q R A L R V G K R V H S E T G I
UniRef90_K2JNZ4 P V L E P I L Q A A Y Q A A K R V R T E T A I
UniRef90_D1CE52 P V L N T L F R Y A L Q A G K D V R T K V P I
UniRef90_A0M6C1 A F L E R L V N A V I Q A S K R I K N E T E I
UniRef90_F0GYK4 K I L S E A L K M A I N L S K N I K S D S N I
UniRef90_H8XNM0 A Y I E R L V N S V I Q A S R R V K N E T E I
UniRef90_W5X685 P V L D L L F Q R G L E T S K R I R T E T E L
UniRef90_A4S4F6 R H L T G L F K A A I T A G K R V R S E T S I
UniRef90_Q14JR2 K E L D R V F Q K V F A T A K R V R S E T R I
UniRef90_L7EKT0 K I L N K L F L S A I T N A K K I K T V T N I
UniRef90_C9KL84 T V L N T L F H R A I A T G K R V R T E T R I
UniRef90_W7U4L8 K V I S R M L N S A V A A G K R V R S E T G I
UniRef90_UPI00047BE40A E A L N S L F Q G A L R V G K R A H A E T D I
UniRef90_J4VPR4 A V I S R L C H R A F E T A K K V R S E
UniRef90_K6Y5M1 S Q L E K L F Q H T F S V A K K V R T E T E I
UniRef90_K6XCE0 P A L N V L F Q Q A L R V G K R A Q S E L D I
UniRef90_K6W4Z9 P V L N A L V Q Q A L R V A K R V H T D T G I
UniRef90_K2E3F0 K F L N R L F L D S I T S A K K I K T L T G I
UniRef90_UPI00046EDA8B P F T E R L V N A V I Q A S K R I K N E T E I
UniRef90_I3YUY3 P F M E R L A N A V I Q A S K R I K N E T K I
UniRef90_J4TCZO L Y L N T L F R D A V T E A K K I K T E T M I
UniRef90_UPI00047ECAD1 P F I E R L C N S I Q A S K R I K N E T E I
UniRef90_A3THP5 P A I N T L L Q Q A L R V G K R V H T E T A
UniRef90_N2AJW6 T L L E V L F R Q A I T A G K E V K T K
UniRef90_A6GVP1 S F M E R L V N S V I Q A S K R I K T D T D I
UniRef90_B1ZMU3 P V L N R V F Q K T F Q A A K H V R T H T A I

UniRef90_UPI0003786954 1 10 20 30 40
UniRef90_T2KQW7 T Y F Y A I G L S Y K K A D A E T R G K F S L D D A K E A V L Q Q A K Q E N G I D
UniRef90_UPI0003F61101 Q Y F Y A V G L S Y R K A D A E T R G R K F S L D D A K E A V L Q Q A K Q E N G I D
UniRef90_R9VG17
UniRef90_J2IZ20 F Y A L G L S Y K K A D A T R G R K F S L D T K R K V R E L I K D K A C H L
UniRef90_G8LU04 N I T M A G I D Y K T A K P L S Y R E K L A F S P K R K V R E L I K D K A C H L
UniRef90_G2IUC3 H L V A F G L N H K T A P L S Y R E K L A F S P K R K V R E L I K D K A C H L
UniRef90_A6TJD3 I I V F G I T H K K A T I D L R E K L A F S Q Q E A Y S L L K E S T P F A H
UniRef90_K0RB49 Q V H V I G L S Y K K A Q V A V R E S V L P E E A E W N T Q I C Q E S T P F I V S
UniRef90_UPI00047A34EB N H F R A I G L S Y K K A P V A V R E S V L P E E A E W N T Q I C Q E S T P F I V S
UniRef90_R6QU22 L L M I G L D Y H T A S V E E R E P F A F T D S G A V R F M R S V K E M D
UniRef90_F3ZIT1 M T E I T S M V I T H S K A T V E E L E E A W E G D A D K L L Q D T L A T E P A A
UniRef90_W9DQ00 L V L A F T H K N M S I E M R E K L A F S S P K A L K D F L Q S P S I K
UniRef90_I0ENR5 M Q Y L V V S F S H K N T D I V T R E K L A L S D D D N K R E D V L Q N P V I N E
UniRef90_UPI000248FD69 T N F Y S I G L S Y K K A D V T R G S F S I T D E A K I L R K Q A K K E G V E
UniRef90_F2KQ96 E I A N L V V S H K K A S L E E I E R A W H G D C R A L E R V L S Y P N I T E
UniRef90_A5FLE3 Y F Y S V G I S Y K K A D A E V R G Q F S L D A K T R L L E Q A K N D G I E
UniRef90_G8R8U5 S N F F L V G L S I D H T H A S V D V R E L F S L N E E K A L I Y D Y K T L G G D
UniRef90_G0HHX5 V L L V G L S F R S A P V V L E K A S A A A A D L A Q D M L D G D C V T
UniRef90_A7GYU7 H Y L N I S F T Y K N T D I S V R E K L A F S D E I L R L L K S S K N I S
UniRef90_R7K1K0 D I T M V G I D Y R D A G L S D I R G K F S Y T Q E E T I K H L K Q S L E G I S
UniRef90_UPI000248E59 V L L V G L S F R S A P V R V L E K T A V A P G E L A D L E R D L L D V T
UniRef90_U2AXU6 T Y F Y T I G I S Y K K A D A D M R G L F S L D E E E Q L L Y C A Q E E G M E
UniRef90_U5MWX6 I G L I G I K R N T P I E R E K I T I Q P K K Y K I Y T E E L L K I K
UniRef90_F3ZW51 M M G L S F K T A D M T L L E K A S Y N M D K G L R F L K N Q V G V S
UniRef90_A8ERT8 M S Y L V I S F S H K N T D I K L R E K L A F N S D E F L K L L E N D I T K
UniRef90_UPI0001E2CC06 N I I M A G I F Y H C A S V E L R E K K V G F V P G E I L T R M K E K S S V T K
UniRef90_C0BHT2 E H F H A I G V S Y K T A D I D Q R G Q F S L N D T Q L H A L F L D A K G V T S
UniRef90_Q0W5T5 M A Q V C S I S V N H R H A G I E G I E R A R F D P D V A M L R L L S L P G V S
UniRef90_A6DR74 I S I I G L N H K S A P V E L R E R L S F G A D E I L T Y C C D S L S
UniRef90_W6K359 S L L V L G L S H H N C P L D L L E R I S L D S A A L G H E L A G S E H V A
UniRef90_Q26GX4 S F Y S I G L S Y R K A D A E T R G Q F S L D E E Q S K L L H Q A K A E G I D
UniRef90_UPI00047EE7EC F Y A V G L S Y K K A D A E M R G K F S L D E E Q S K L L H Q A K A E G I D
UniRef90_F9ZSY0 Y C I S F T H K N T A D L I E S L R E R L S F S P E Q A H R D I L D R Q L A R
UniRef90_T2BG50 N L I A V G V N H K N T A P L I E S L R E R L S F S D S M A L T E L I D S K L A S
UniRef90_B3QW10 E F G V C G I N Y K H A G L D I R D K T A F T D S R K L S E E M E K K G I G
UniRef90_R7IS88 L D T F K A I S L S H K T A P L D Q V R E L T A L N E E E A M L R L R D F F G L S
UniRef90_UPI000369A035 L D T M L V L G I S H A S A P L D L L E R L A G T D E D L V S D A T S V D G I D
UniRef90_UPI00030CA879 L D E L V V F G I S H K E L S M S E R E E F Y Q N P E E I I H S L S Q K K I D
UniRef90_H1PYB8 S L L V L G V S H R T A P M S V L D A F A F D A E Q L R S R V C S K E Y V M
UniRef90_D4YMU3 L D R F C I A G I S Y K K A D A A T R G L F S L S N D E I L L R L L A D S A I E
UniRef90_W0F3T3 L T T F Y S I G I S Y K K A D A E M R G L F A L S N E T A I L I Q Q A K E S G I P
UniRef90_W8VUV5 S V S F T H K N T A D I T V R E R I A S F S N D E I L L R L L A D S A I E
UniRef90_C8PGL5 S L V C M G A S Y K T A P I A V R E R I A L A H E D A L A E L A D S G S I K
UniRef90_D0WET1 M D N F Y A V G I D H K K V D M G G R E S F I Q N P T E I F D E L L I G N K K I K
UniRef90_E3HDD6 M Q G F H A L G L N H E T A S V E I R E K A F A L D R E A K R R Y A V W M E A H
UniRef90_DOMJW7 I Q L L G I N K N T K V E I R E K L A L S P K R R E Y T K K L I Q F D
UniRef90_R9BV39 I G L I G I R K N T P L E I R E K F I V K S K K Y N E Y F G E L K E L N
UniRef90_A6LSY3 R I I L A Y L D H K S A D I N V R E K F S F T A R E I L K D I V R D R N I S
UniRef90_S0FRU3 N I S M S G L D Y G L A P I A V R E R L S F T R N Q A G E L R R S V P G V Q
UniRef90_A6NSD3 S V H V I G L S H H N A G V D V R E R L A V P E A E W N L A S A K L C G I R
UniRef90_D8LNJ4 N S F Y A L G L S Y K K A D A E V R G K F S L D V P A I T L G K A K E I G I V
UniRef90_G2PQ67 M T E I N S M V I T H S K A S I E M E R S W N G D E A V L R S L Y S N E F V Q
UniRef90_Q2KUF2 F Y A I G I S Y K K A D A A T R G K F S L N E T A K L L T Q A K N A G M D
UniRef90_L0KUF7 N Q F K S V S L S H R N A P L A I R E Q L A L N E G E A M L R L K R D F F D I S
UniRef90_K2QP08 R L V V I G V N H K T A P V A L R E R L A L V G D D V N I A L K Q L E A F D
UniRef90_C6W1H7 H Y F Y S A G L S Y K K A D A A T R G K F S L D A K N N L Q Q A K N E G I P
UniRef90_UPI0004748C26 M I S A C V T S Y K Q V M M S Q I E K L G F D P K D M L L A M G R I E G V R
UniRef90_X0R1E9 V T V L G I N H K S A P A S L R D K F V F N Q D S L T K S L N E F K A K T
UniRef90_UPI000379E97F I G L I G I N H N T A P V I E I R E R F A L T D A D A N D W L T N D F V L
UniRef90_F3KHW9 Q N I I N A R V T F R N S P I H V L E R F T I R D E N A Y D F K E H S G L D
UniRef90_UPI0003824968 E K F Y V I G I S Y E K A D A V T R G K F T F F P E Q V F T E D S K S I G L E
UniRef90_UPI0002559B66 T K L Y N I V G V S Y K K A D D V Q T R M S A F S L S K Q K Q L L K D A K S K G I Q
UniRef90_R9SLQ0 I I N I R V D Y K L T D I Q T M S S V Y T D L K E L F N K F K D R F V I T
UniRef90_F5SPM4 N L V V I G V N H K T A P V A L R E R L A F V G G D I Q V A Q A E L Q K I A
UniRef90_I2EUW5 F K A L T I S H K K A S L E L R G Q L A L N E E E L M L K I R E A F D V S
UniRef90_H8IA29 M S F I T S A S I N H H R A S V E R I E Q A R F K D V E A A L K R L R L G A S
UniRef90_W2UJ53 K S F Y A V G I S Y K K A D A E T R G R F S L D T K E R L L V Q A K D E G L E
UniRef90_UPI000476F658 H I V N A R V T Y R N A P I H L L E K F T F N G D G A H K A F L K K A G F E
UniRef90_K0IJ3 F S A I S L S H K T A P V Q I R E L I A L D D Q S I L I K L K E F F S L Q
UniRef90_UPI00040E9A80 H Y A S V S F T H K N T D I S V R E K L S F S N E I L R L I G S Q N I N
UniRef90_B9D551 M D D F I C V S I N Y K K C G E E L R G R F A F S Q E A R G G F V T G N G A L
UniRef90_R5H6C1 R L T V I G A N H R S A S L G L R D Q L F V D D A A S A D F L K R R G L H
UniRef90_V6F686 E N F K A L S L S F K N A P I E L R E Q V S L N D E A I L N Y F K E F T T V S
UniRef90_E4TSZ2 M T E I S M V I T H A K A T V E E M E D S W H G D D L V L S Q L Y S N E L V Y
UniRef90_Q12WMS S S I T L G L S H H T A G L S D L E A F R F P D E Q A F L M A R E R F R
UniRef90_J1L2L5 I I T L G L S I H T C P V E I R E K M A V P A D R F E E A V T E N P H V E
UniRef90_K8EM76 Q Q I S S M V I T H T K A S I E E M E K A W H G D E Y V L K S L Y S H E Y V Y
UniRef90_F7K7G5 L G I N Y K N A S L A I R D K T S F T D A M K L E Q R A E Q E G I D
UniRef90_D7E6D2 M L G I D H N K A S I E E R E I F S F T A D V L L N I K E I E G I N
UniRef90_R9KKL0 M S Y L V I S F S H K N T D I K M R E K L A F N S D E F I K Q L L I F E A T K
UniRef90_UPI00047A4DA3 L V I S F S H K N I D I K Q R E K L A F S A D E F I R Q L L D F S F T K
UniRef90_UPI00047DF3D7 M D S Y Y V L S F T H K R L S I E R E Q L A F K D D S K A N D L Y A N T G S V S
UniRef90_B5JGQ7 D S F I V L S I N H E V A P L D V R E R Y S V D D S K A N D L Y A N T G S V S
UniRef90_L0FR56 H N F S A I G L S Y K K A P V E I R E I A L D D K A L I L K L K E F F N V K
UniRef90_M1MBG6 I G L I G I S L Y K K A D P L E I R E K F I I T K R E L Y L N E L T E L K
UniRef90_B6BLM3 H Y L N I S F S H K N S T M E I R E K L S Y P D D E H V S G C L I E S E A I N

UniRef90_UPI0003786954 E V L L L D T C N R L E V Y A Y A A T D G D A L A E S T R E H L Y V H F S D R E
UniRef90_T2KQW7 S L I V T S T C N R T E I Y Y G F A E H P F Q L I K L L C D N A Y V V Y K S S N D R E
UniRef90_UPI0003F61101 S L I V T S T C N R T E I Y Y G F A E H P F Q L I K L L C D N A Y V V Y K S S N D R E
UniRef90_R9VG17 S G V V L S T C N R T E I Y Y L S V E A Q L V R W L C D Y H H Q Q S L Y W H Q K N D N D
UniRef90_J2I2Z0 S L I V T S T C N R T E I Y Y G F A N S H D N S N G S V I E E F R Q V L A Y I Y K N Q R D
UniRef90_G8LU04 G V V L L C T C N R T E I Y Y I S G S T D E A E A D I D E F Y R Q F F F L Q K D A A A
UniRef90_G2IUC3 E A A I V S T C N R T E I Y Y C A S H N P Q A E W L S Q I F H G P Y L Y Q L Q D A A A
UniRef90_A6TJD3 E A V I L S T C N R S E I V F A V V Q D T S I A W F K R F Y T D F F Q L K E G A G R D D
UniRef90_K0RB49 E A A I L S T C N R F E I Y F A A S Q N A Q H M E Y I A E R S R R Y I F M L J E G P D D
UniRef90_UPI00047A34EB D L L V I S T C N R T E I V Y Y A S P Q N A Q I A N I A D Y Q E Y F V N I D E P L V
UniRef90_R6QU22 S C I V L S T C N R T E I L W F Y N T P D P L D Y L I K N S G R E L F V R R R G T E
UniRef90_F3ZIT1 E A A V L A T C N R I E I Y A D V D K F H A A E L S E E L T P Y L V F H Y E D R E
UniRef90_W9DQ00 E C A V L K T C N R V E I Y V V S P K G S T V L F Q F A K K M G L D F F E H E E
UniRef90_I0ENR5 E C M V L S T C N R F E I Y A S A F N H Q S T N E L K I A D K C A L F H V N E S
UniRef90_A6Q3S5 E A I I L S T C N R I E I L S V G K A D P F S A T E A E E L E G R A D I Y F K N S K
UniRef90_UPI000248FD69 S L L I M S T C N R T E I L H V F K A Q H P F Q L I K L L C E H A Y D I Y F K N S K
UniRef90_F2KQ96 E C A I L M T C N R V E I Y V V G S D T E S T L R D F A K F M H V E I H R D D R E
UniRef90_A5FLE3 S L L V T S T C N R T E I Y Y G F A E H P F Q L I K L I C D N S F V I K N R E
UniRef90_G8R8U5 S G M M V V S T C N R T E I Y A F A P R D I I D L F C K H F Y R H Q N I K Q N R
UniRef90_G0HHX5 E A V L V S T C N R M E F Y V A T V A F H A G I P A T D L E P Y L Y V R Y A D K
UniRef90_A7GYU7 E C M V L S T C N R V E I L L A Y T N D I K S A M T H I T R C L T V Y I Y E D S G M
UniRef90_R7K1K0 G C V L L S T C N R T E I L V L S Y T E W D Q D E P E Q Y A Q Y L H I R Q G M E
UniRef90_UPI0002485E59 E A L V L S T C N R M E F Y V A T T A F H P A M A A A E L E P Y L Y V R Y A D A
UniRef90_U2AXU6 G L A I I S T C N R T E I L Y G F A Q H P F Q L I K Q K L C T H C Y I Y K N K E
UniRef90_U5MWWX6 E V V I L G T C N R T E I L Y F N A F L C E E E Y L K K I Y R E Y I F M T K D Q D
UniRef90_F3ZW51 E C V I V A T C N R N E A Y C Y A S S D F I G V E T D D V E R C F Y V K T G R D G
UniRef90_A8ERT8 E A I L L S T C N R V E I T T Q S S K D I E K L A T Y S K V D F D V L Y D D G A
UniRef90_UPI0001E2CC06 G V A M V S T C N R T E I V Y T S Y D Q D A A E L N E D E I K K Y Y L K N G E A
UniRef90_C0BHT2 D F L V I N T C N R T E I L Y S W T A K H E T L V N L L C K H S Y T Y S D R D D
UniRef90_Q0W5T5 E A V V L Q T C N R V E I L Y A V A E E Q I V G F A R A M P L E I A E V R A G D D D
UniRef90_A6DR74 E F V L I S T C N R T E I F I Y N G E Q S V L E K Y L M E V G D F F Y N Y N D Y E
UniRef90_W6K359 E V V V S T C N R T E I V Y T E A V T F H G A V S A H D L T E R L A V H Y E D R
UniRef90_Q26GX4 S L A V I S T C N R T E I L Y G F A Q H P F Q L I R L L C E H A Y I H K N S E
UniRef90_UPI00047EE7EC S L I V T S T C N R T E I Y Y G F A Q H E N S Q G T V E D F Q K V A F V Y K N S E
UniRef90_F9ZSY0 E V L I L S T C N R T E I Y A H G P E I L R D W L R T F H G L D A S V Y R G A E G
UniRef90_T2BG50 E C L V I S T C N R V E I L Y A Y V K E A C A E Y I I K S L A Q K A D L F E D S G
UniRef90_B3QW10 E A L V L S T C N R T E I L Y V V T A N Y L K D Y I L I E V T R D H F V I F A C G
UniRef90_R7IS88 Q T L I L G T C N R S E V Y Y F Y E T E E Q A F P G V G L Q E Y M H S A Y G E E
UniRef90_UPI000369A035 D L L V I S T C N R T E I V Y A F E Q D V S T E I A N Y L P Y F Q F A A A N D Q
UniRef90_UPI00030CA879 A A V V V S T C N R L E I Y A E T R A Q H T G V I D R D E I A P H L Y S H H A A D G
UniRef90_H1PYB8 G Y V N L S T C N R V E I F Y L V A E N F S T E E L L I E C F S F K I F I K T G E E
UniRef90_D4YMU3 S G V V L A T C N R V E I J A E G L A D L G S A L V D M T S F H M F V R Y N G K E
UniRef90_W0F3T3 S V F V V S T C N R T E I Y Y G F A E S V M Q L V E L L V P H T Y F K N G E
UniRef90_W8VUV5 S L A A I S T C N R T E I L Y G C A P S E H S H G T V E E F E Q V G Y V H E D D A
UniRef90_C8PGL5 E C L V L S T C N R V E I L F T A V S D F R K A A V S Y D E L A E R A D I Y E Y G M
UniRef90_D0WET1 E C L L L S T C N R I E A Y V D A K T D R M G L D A P L P L E A G A F L E R D G M A
UniRef90_E3HDD6 G Y V N L S T C N R I E Y Y I H V E E G F T E D E I F P S Q E E L F V K R G E N
UniRef90_DOMJW7 E L L V S T C N R T E A Y L Y G T D E D V A A V R T L L S R H A F H F Q D E A
UniRef90_R9BV39 E V V I L S T C N R T E I Y F N G S L S D E E G L K K I F E I Y C F L K E K E
UniRef90_A6LSY3 E V V I L A T C N R T E I Y F N A S L N E E E L L K K I F D I Y V F I T N N K D
UniRef90_S0FRU3 G A V L I S T C N R T E I L Y I S S Q N A S G T D P V Q L L C K Y F N I K Y D N D
UniRef90_A6NSD3 E C V I I S T C N R T E I Y L S C Q P A G D Q D Y A P F A Q A F N I R R D E G
UniRef90_D8LNJ4 E A A V L S T C N R F E I V Y V A T D A H A A H L Q E Y S R Q N L F M L S R E D
UniRef90_G2PQ67 G L L A I S T C N R T E I L Y G F A Q H D Q T N G T V I E F Q E V A Y V Y K N H
UniRef90_L0KUF2 E C V V M K T C N R I E I Y V V S P K G S S V L F N F A K S M A F E F L H N E
UniRef90_K2QP08 G I M A T S T C N R T E I Y Y G F A Q H P L I Q L L C D N S N G S L F V Y K N K E
UniRef90_C6W1H7 D V L A V S T C N R T E I Y Y S S A T D L N E D I L K F K L F F E Q F S E G A D
UniRef90_H1G1E2 E A A I L S T C N R T E I Y F R S E A H V L W M A D F H R P Y I Y R H S E A D
UniRef90_X0R1E9 G S V I V S T C N R T E I Y A L V P Q K I K A W L A D F I D P Y L Y V H R D T H
UniRef90_UPI000467FF01 A L I V T S T C N R T E I Y G Y A S H E N S Q G T V I E F Q K V A Y V F K N Q D
UniRef90_UPI0004748C26 E C V V L K T C N R V E I Y I L S S S P E A Q V P F G T S T D V L Q Y L T G P T
UniRef90_B6BW40 G V V I L S T C N R T E I Y S S V S N D K V E W L C K H H N D H C Y F L N G F A
UniRef90_UPI000379E97F E G I V L S T C N R I E I L Y F Q T K E E D M Q S L A A F K H I D F L C K S N G E
UniRef90_F3KHW9 E C V I I Q T C N R I E I L F G K A Q N Y D N K L I K E A F K E N I E F V E N G E
UniRef90_UPI0003824968 N F F I V S T C N R T E I Y G F A K E N E D T E G N A E D F R Q F M M V K E G E E
UniRef90_UPI0002559B66 G V L V V S T C N R T E I V T G F A K H E H S N G T V I E D F V K F S N I Y K D A E
UniRef90_R9SLQ0 E Y V E I S T C N R H F I L H S D A F G I E D I D S N L I E T G E D
UniRef90_F5SPM4 G S L I I S T C N R T E I Y A L A P E Q L V S W L A E F K H P Y L Y D Y I D S Q
UniRef90_I2EUW5 E V L V L S T C N R T E I Y Y V S E N N L G E E I T E L L P F F E I S E H S E
UniRef90_H8IA29 E A M I Q T C N R V E I L Y A V A E E D K L K R F C V A E G L P F M E H A I G D D
UniRef90_W2UJS3 S L L V I S T C N R T E I Y Y G F A Q H P F Q L I K L I C D N S Y V C K N D N D
UniRef90_UPI000476F658 E V M V V S T C N R T E I Y A D G V A A I T E L L A W H T S D H L Y V H Y E D S
UniRef90_K0IJD3 E C V I L Q T C N R I E I Y F A A S K N P D A V G L P E K D F A N V E V S R G D R
UniRef90_UPI00040E9A80 D A I L L S T C N R T E I V Y S H E L D L S S E I I K D Y L E Y F E L Y K N D D
UniRef90_B9D551 E C M V L S T C N R V E I L A S V K E L E G A S K H V I A C M S L M I Y S D N G
UniRef90_R5H6C1 S P V M L C T C S R T E I Y A M L G S V N D G L R L R S V V E G C A D I F S G G
UniRef90_V6F686 E A L V L S T C N D R V E I V W A S H V D Q V A E S L A A R T G M Q L Y R H D G P D
UniRef90_E4TSZ2 D V L V L S T C N R T E I Y Y F N E E E L S E D I L K F K P Y F E I T N E H L P
UniRef90_Q12WM5 E C A V L K T C N R V E I Y V V S S K G S S V L F H Y A K E M G V E F Y D H D E
UniRef90_J1L2L5 G V L L L Q T C N R I E I V L V Q G S A A L T D F L H E Q G R E K F E I R E G V D
UniRef90_K8EM76 E A A I L S T C N R M E Y V D R A V A E L E N W M S K W S R E H F L L K Q D R D
UniRef90_F7K7G5 Q A V V L N T C N R T E I Y Y T I G G E N S F S L L E R Q L R R I S R R F Q K K
UniRef90_D7E6D2 E C A V L K T C N R V E I Y V V S P K A S S V L F H F A K D M G A E F Y D H E D
UniRef90_R9KKL0 Q S M V L S T C N R S E I Y Y V Y G K E A Q Q A Q Q I Y E Y L V K L S G E E
UniRef90_A9KP81 G C I I L S T C N R M E I W V Y S C F E E F E T S I Y E R Y H C F I E R G Y D
UniRef90_UPI00047A4DA3 E V V L L S T C N R V E I I T K S S N E K L A F Y S K L D F D F L Y I Y D N D V
UniRef90_UPI00047DF3D7 E L V L S T C N R V E I L G Q S S K N I E K L A D F L Y D R A D L Y D G D A
UniRef90_K4RJT6 E I I G L C T C N R V E I Y C Y G T L E S T A L L E A L T H E K S M H Y T H T E
UniRef90_B5JGQ7 E S L V L N T C N R F E I Y T K L E K D A A E F Y G E P S D K H L H L R S G R E
UniRef90_L0FR56 D T L I L S T C N R T E I Y Y A H E L D L S T E I T K Y L E Y F T I I Q D D K K
UniRef90_M1MBG6 E A V I L A T C N R T E I Y F N A S F E K E E L L E K E Y R K Y I F I A S D K K
UniRef90_B6BLM3 E T I L I S T C N R M E I F C S C S Q H I F E Q L I E E L E G R A D I F D D S S

UniRef90_UPI0003786954
UniRef90_T2KQW7
UniRef90_UPI0003F61101
UniRef90_R9VG17
UniRef90_J2I2Z0
UniRef90_G8LU04
UniRef90_G2IUC3
UniRef90_A6TJD3
UniRef90_KORB49
UniRef90_UPI00047A34EB
UniRef90_R6QU22
UniRef90_F3ZIT1
UniRef90_W9DQ00
UniRef90_I0ENR5
UniRef90_A6Q3S5
UniRef90_UPI000248FD69
UniRef90_F2KQ96
UniRef90_A5FLE3
UniRef90_G8R8U5
UniRef90_G0HHX5
UniRef90_A7GYU7
UniRef90_R7K1K0
UniRef90_UPI0002485E59
UniRef90_U2AXU6
UniRef90_U5MWWX6
UniRef90_F3ZW51
UniRef90_A8ERT8
UniRef90_UPI0001E2CC06
UniRef90_C0BHT2
UniRef90_Q0W5T5
UniRef90_A6DR74
UniRef90_W6K359
UniRef90_Q26GX4
UniRef90_UPI00047EE7EC
UniRef90_F9ZSY0
UniRef90_T2BG50
UniRef90_B3QW10
UniRef90_R7IS88
UniRef90_UPI000369A035
UniRef90_UPI00030CA879
UniRef90_H1PYB8
UniRef90_D4YMU3
UniRef90_W0F3T3
UniRef90_W8VUV5
UniRef90_C8PGL5
UniRef90_D0WET1
UniRef90_E3HDD6
UniRef90_DOMJW7
UniRef90_R9BV39
UniRef90_A6LSY3
UniRef90_S0FRU3
UniRef90_A6NSD3
UniRef90_D8LJN4
UniRef90_G2PQ67
UniRef90_L0KUF2
UniRef90_K2QP08
UniRef90_C6W1H7
UniRef90_H1G1E2
UniRef90_X0R1E9
UniRef90_UPI000467FF01
UniRef90_UPI0004748C26
UniRef90_B6BW40
UniRef90_UPI000379E97F
UniRef90_F3KHW9
UniRef90_UPI0003824968
UniRef90_UPI0002559B66
UniRef90_R9SLQ0
UniRef90_F5SPM4
UniRef90_I2EUW5
UniRef90_H8IA29
UniRef90_W2UJS3
UniRef90_UPI000476F658
UniRef90_K0JJD3
UniRef90_UPI00040E9A80
UniRef90_B9D551
UniRef90_R5H6C1
UniRef90_V6F686
UniRef90_E4TSZ2
UniRef90_Q12WM5
UniRef90_J1L2L5
UniRef90_K8EM76
UniRef90_F7K7G5
UniRef90_D7E6D2
UniRef90_R9KKL0
UniRef90_A9KP81
UniRef90_UPI00047A4DA3
UniRef90_UPI00047DF3D7
UniRef90_K4RJT6
UniRef90_B5JGQ7
UniRef90_L0FR56
UniRef90_M1MBG6
UniRef90_B6BLM3

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

		130	140
UniRef90_UPI0003786954	G H L	D G L V Q Q S L R V G K R A H S	E T D I
UniRef90_T2KQW7	T F L	E R L V S M V T Q A S K R R V I K T	E T E I L
UniRef90_UPI0003F61101	N D L	E R L V N S V I Q A S K R R V I K N	E T E I L
UniRef90_R9VG17	S D L	E R M F Q K S F S V A K R V R T E T	D I
UniRef90_J2IZ20	T F L	D R L V N S V I Q A S K K I K T D T	E
UniRef90_G8LU04	P L L	N T L F R Y S V T C A K E V V K S	
UniRef90_G2IUC3	T Q L	N A L F Q K T F A V A K E V R S K T A	V
UniRef90_A6TJD3	K I L	N K L F L E A V T T A K E V K T E T A	I
UniRef90_K0RB49	K V L	S R L L N N A V A A G K R V R S E T A	I
UniRef90_UPI00047A34EB	P F L	H R L M H T I F F T N K R V V I Q E T A	
UniRef90_R6QU22	P V L	D T L F R M A V T A A K K V K T E T R	I
UniRef90_F3ZIT1	R L L	N D L F Q S A L R V G K R A H S E T E	G I
UniRef90_W9DQ00	K M L	D T A F S K A I Q V G K R V R T E T E	I
UniRef90_I0ENR5	K N L	T R L L H F A F K C A A K V R N A T C	I
UniRef90_A6Q3S5	Q K L	G R V M H Y A F K C A S K E V R S S T	D I
UniRef90_UPI000248FD69	P F M	E R L V N A V I Q A S K R I K N E T E I	
UniRef90_F2KQ96	E V L	D V V F S K A I Q V G K K V R K L T G	I
UniRef90_A5FLE3	A F M	E R L V N A V I Q A S K R I K T E T E I	
UniRef90_G8R8U5	T F L	E R L V N S A V Q T S K K R V K N E T	Q L
UniRef90_G0HHX5	S T L	H E L T Q R A L R T G K R V H S E T E	V
UniRef90_A7GYU7	E H I	S R L V H Y A C K C A A R V R N E T	Q I
UniRef90_R7K1K0	K I L	E T L F R M A V T A G K E V K T K	
UniRef90_UPI0002485E59	T T L	H D L T Q R A L R T G K R V H S E T D	V
UniRef90_U2AXU6	A Y M	E R L L N C V I Q A S K R I K N E T E	L
UniRef90_U5MWWX6	L E L	H R L F Q E A I T C G K R F R N E S	K L
UniRef90_F3ZW51	K V M	D R L F R E A V T A G K A M R T S T	G I
UniRef90_A8ERT8	L N I	T R V M H Y A F K C A A Q V R T A T	S
UniRef90_UPI0001E2CC06	A I L	N T L F R C A V T C A K K V K T	
UniRef90_C0BHT2	G S L	E R L T N A V I Q A S K R I K T E T E	I
UniRef90_Q0W5T5	P V L	S T A I Q K S I H V G A R A R I E T E	I
UniRef90_A6DR74	A N F	A H I Y Q Q M L K C A A R Q V R R D	T E I
UniRef90_W6K359	P A L	N G L F Q Q A L R V G K R V H T E T	G L
UniRef90_Q26GX4	A Y M	E R L M N C V I Q A S K R I K T E T E	L
UniRef90_UPI00047EE7EC	A F L	E R L V N A V I Q A S K R I K N E T E	I
UniRef90_F9ZSY0	P V L	N R L L H W A F R V A K R V R T E T	A V
UniRef90_T2BG50	V H L	S R A I H S A F K C A A K V R N E T	Q I
UniRef90_B3QW10	P I L	N K M C H T G F G L A N R V R S K T	K L
UniRef90_R7IS88	K E I	N R V V Q D A L A C A K N M K T E L	K I
UniRef90_UPI000369A035	P F L	H R L M H T I F F T N K R V A Q E T A	
UniRef90_UPI00030CA879	R V L	A K A V Q T A L R V G K R A R N E T	G L
UniRef90_H1PYB8	K I L	N I V F N K A I E L G K K F R T E S	K I
UniRef90_D4YMU3	G D L	E R A V S R A L E V G K R A H S E T	A L
UniRef90_W0F3T3	P V M	D R M L N F A F Q S S K K I K T E T	N L
UniRef90_W8VUV5	P Y M	E R L I N A V I Q A S K R I K T E T	Q L
UniRef90_C8PGL5	A Q I	A R A I D E A L K C A A R I L R N	Q T E I
UniRef90_D0WET1	D V L	M H L F K D A L H L G K R A R A E T	A I
UniRef90_E3HDD6	K V L	N V I F N K A I E V G K K F R N E S	Q I
UniRef90_DOMJW7	T V M	H R L L H S A F R A A K R V A S E T	S
UniRef90_R9BV39	H D L	Q R L F Q E A I T C G K R F R T E	
UniRef90_A6LSY3	L E L	H R L F Q E A I T C G K R F R K E A	K L
UniRef90_S0FRU3	S A L	E T I F R L A V T A A K K A K T	
UniRef90_A6NSD3	P V L	E T L F R T A V S A S K A V K T K A	R I
UniRef90_D8LNI4	K V V	A R M L N T A V S A G K R A R A E T	S I
UniRef90_G2PQ67	P F L	E R L C N A V I Q A S K R I K N E T	E V
UniRef90_L0KUF2	R M L	D T A F S K A I Q V G K R V R T E T	E L
UniRef90_K2QP08	H F L	E R L C N C V I Q A S K R I K N E T	E L
UniRef90_C6W1H7	P F L	H R L L H T L F F A N K R V A Q E T	
UniRef90_H1G1E2	R Q L	G R L F Q H A F S V A K N V R T S T	A I
UniRef90_X0R1E9	N Q L	G W I I D Q V F A A K R V R N E T	Q V
UniRef90_UPI000467FF01	A Y L	E R L V N S V I Q A S K K I K T D T	D I
UniRef90_UPI0004748C26	P T L	S V V F R K A I S V G K K V R T E T	R V
UniRef90_B6BW40	N N L	I P F F S K V F E L S K I I R S K T	Q I
UniRef90_UPI000379E97F	S L L	S R M F H K G F E T A K K I R N	
UniRef90_F3KHW9	Q H L	N N L F D K A I R I G T R I R N S T	G I
UniRef90_UPI0003824968	A F L	E R L V N T A I Q I S K K V K N E T	
UniRef90_UPI0002559B66	T Y L	E R L M N N V L Q A S K E V K N H T	K L
UniRef90_R9SLQ0	K V L	D T L F T K A I H V G Q E V R Q K T	N I
UniRef90_F5SPM4	N Q L	N W V V E Q I F A G A K R V R N E T	D V
UniRef90_I2EUW5	P F L	H R L L H T L F F T N K K V V I Q	E T S
UniRef90_H8IA29	S V L	S T A V L K A I D A G K R A R M E T	R I
UniRef90_W2UJS3	H F L	E R L C N S V I Q A S K R I K N E T	D I
UniRef90_UPI000476F658	R V L	N D L G Q R A L R V G K R A H T E T	H I
UniRef90_K0IJD3	A N L	S L I F D R A L K V G S R V R T A T	G I
UniRef90_UPI00040E9A80	P F L	H R L M H T V F F T N K R V V I Q E T A	
UniRef90_B9D551	A K L	G R A M E F A F K C A A E V R N K T	D I
UniRef90_R5H6C1	H R V	N I F Q S A V A T A K R I K T E T A	I
UniRef90_V6F686	P E L	E A V L Q A A F N A A K R I R S E T	R I
UniRef90_E4TSZ2	P F L	H R L M H T I F F T N K R V V I Q	E T
UniRef90_Q12WM5	K V L	S T A F S K A I Q V G K R V R T E T	F I
UniRef90_J1L2L5	Q V I	D L C M K K A V H V G I E V R K Q T	K I
UniRef90_K8EM76	R H L	T G L F K A A I V A G K R V R N E T	T I
UniRef90_F7K7G5	Y E L	N T A F Q G A L A C A K K I K T E T	E I
UniRef90_D7E6D2	P A L	D T A F S K A I Q V G K K A R T E T	R I
UniRef90_R9KKL0	K E L	N K V V R D A I T C A K Q I K T E	
UniRef90_A9KP81	S V L	E T L F R F A I T S A K Q V K T Q	
UniRef90_UPI00047A4DA3	Q G I	S R V M H Y A F K C A A Q V R T A T	S L
UniRef90_UPI00047DF3D7	E H M	S R V M H Y A F K C A A Q V R T A T	S L
UniRef90_K4RJT6	K H L	S R L V H F A F K C A A G R V R S	V T A
UniRef90_B5JGQ7	K L I	N R V F Q K G F Q A A K L I R N S T	
UniRef90_L0FR56	P F L	H R L M H T I F F T N K R V V I Q	E T A
UniRef90_M1MBG6	L E L	H R L F Q E A I T A G K R F R K E A	K L
UniRef90_B6BLM3	Q K L	A R A M H N A F K C A A K V R N A	T D I

UniRef90_E4S6S1
UniRef90_D5V278
UniRef90_C0BL55
UniRef90_Q97MU6
UniRef90_R6BHV9
UniRef90_A9DTI7
UniRef90_I3ZAA4
UniRef90_M4EY85
UniRef90_UPI00047107F6
UniRef90_F0NYU6
UniRef90_K4KY21
UniRef90_D1B2M6
UniRef90_R7NIW0
UniRef90_U6EAV5
UniRef90_G7WL01
UniRef90_Q1QED0
UniRef90_A71R7
UniRef90_W7CBN1
UniRef90_MOM4P1
UniRef90_G8PEN1
UniRef90_C0B2U4
UniRef90_R9J817
UniRef90_E4RQW9
UniRef90_D4N096
UniRef90_E7G1I3
UniRef90_R5A1P3
UniRef90_F7V3Z1
UniRef90_B0P7S2
UniRef90_UPI0002D2A02F
UniRef90_UPI000373EDA9
UniRef90_F8KSU4
UniRef90_C7P3Q4
UniRef90_C8W1Z3
UniRef90_S2DNQ2
UniRef90_Q30S94
UniRef90_H1YY64
UniRef90_E3GXT4
UniRef90_W87TA9
UniRef90_J5K6V9
UniRef90_UPI00035C1C0C
UniRef90_L0JZW1
UniRef90_C7PKZ3
UniRef90_E4U285
UniRef90_L0G089
UniRef90_W5XXJ7
UniRef90_G0IW55
UniRef90_UPI00047E7D9F
UniRef90_U2EZA2
UniRef90_G2MGR2
UniRef90_I0AGZ8
UniRef90_UPI00047086A7
UniRef90_S0J2S2
UniRef90_U3GY35
UniRef90_U4T384
UniRef90_I0ETH6
UniRef90_M0LWK2
UniRef90_R7RPP8
UniRef90_UPI00040D0010
UniRef90_UPI000372738A
UniRef90_B8GJJ4
UniRef90_D3DZM5
UniRef90_E7C6Q5
UniRef90_UPI00047E0ACB
UniRef90_Q5V1I8
UniRef90_Q2RWE2
UniRef90_I4AKZ0
UniRef90_R6VGH0
UniRef90_A4G0A1
UniRef90_A7HBF2
UniRef90_I7BXP2
UniRef90_B9L8M0
UniRef90_B2UXC6
UniRef90_C3XMN0
UniRef90_V8CAN4
UniRef90_M0DCZ5
UniRef90_A6ELI9
UniRef90_T1CSJ1
UniRef90_B3EPK1
UniRef90_UPI000255631F
UniRef90_H2JDG0
UniRef90_Q59292
UniRef90_A0RFX8
UniRef90_C6PWW0
UniRef90_W0JSJ0
UniRef90_D8JA91
UniRef90_C7P6Y7
UniRef90_E0URL0
UniRef90_K9AVF1
UniRef90_T0NG68
UniRef90_UPI000464569E
UniRef90_UPI000473E71C
UniRef90_D6YS67

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

UniRef90_E4S6S1
UniRef90_D5V278
UniRef90_COBL55
UniRef90_Q97MU6
UniRef90_R6BHV9
UniRef90_A9DTI7
UniRef90_I3ZAA4
UniRef90_M4EY85
UniRef90_UPI00047107F6
UniRef90_F0NYU6
UniRef90_K4KY21
UniRef90_D1B2M6
UniRef90_R7NIW0
UniRef90_U6EAV5
UniRef90_G7WL01
UniRef90_Q1QED0
UniRef90_A71R7
UniRef90_W7CBN1
UniRef90_MOM4P1
UniRef90_G8PEN1
UniRef90_COB2U4
UniRef90_R9J817
UniRef90_E4RQW9
UniRef90_D4N096
UniRef90_E7G1I3
UniRef90_R5A1P3
UniRef90_F7V3Z1
UniRef90_B0P7S2
UniRef90_UPI0002D2A02F
UniRef90_UPI000373EDA9
UniRef90_F8KSU4
UniRef90_C7P3Q4
UniRef90_C8W1Z3
UniRef90_S2DNQ2
UniRef90_Q30S94
UniRef90_H1YY64
UniRef90_E3GXT4
UniRef90_W8T7A9
UniRef90_J5K6V9
UniRef90_UPI00035C1C0C
UniRef90_L0JZW1
UniRef90_C7PKZ3
UniRef90_E4U285
UniRef90_L0G089
UniRef90_W5XXJ7
UniRef90_G0IW55
UniRef90_UPI00047E7D9F
UniRef90_U2EZA2
UniRef90_G2MGR2
UniRef90_I0AGZ8
UniRef90_UPI00047086A7
UniRef90_S0J2S2
UniRef90_U3GY35
UniRef90_U4T384
UniRef90_I0ETH6
UniRef90_M0LWK2
UniRef90_R7RPP8
UniRef90_UPI00040D0010
UniRef90_UPI000372738A
UniRef90_B8GJJ4
UniRef90_D3DZM5
UniRef90_E7C6Q5
UniRef90_UPI00047E0ACB
UniRef90_Q5V118
UniRef90_Q2RWE2
UniRef90_I4AKZ0
UniRef90_R6VGH0
UniRef90_A4G0A1
UniRef90_A7HBF2
UniRef90_I7BXP2
UniRef90_B9L8M0
UniRef90_B2UXC6
UniRef90_C3XMN0
UniRef90_V8CAN4
UniRef90_M0DCZ5
UniRef90_A6ELI9
UniRef90_T1CSJ1
UniRef90_B3EPK1
UniRef90_UPI000255631F
UniRef90_H2JDG0
UniRef90_Q59292
UniRef90_A0XF8
UniRef90_C6PWW0
UniRef90_W0JSJ0
UniRef90_D8JA91
UniRef90_C7P6Y7
UniRef90_E0URL0
UniRef90_K9AVF1
UniRef90_T0NG68
UniRef90_UPI000464569E
UniRef90_UPI000473E71C
UniRef90_D6YS67

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

UniRef90_E4S6S1
UniRef90_D5V278
UniRef90_COBL55
UniRef90_Q97MU6
UniRef90_R6BHV9
UniRef90_A9DTI7
UniRef90_I3ZAA4
UniRef90_M4EY85
UniRef90_UPI00047107F6
UniRef90_F0NYU6
UniRef90_K4KY21
UniRef90_D1B2M6
UniRef90_R7NIW0
UniRef90_U6EAV5
UniRef90_G7WL01
UniRef90_Q1QED0
UniRef90_A71R7
UniRef90_W7CBN1
UniRef90_MOM4P1
UniRef90_G8PEN1
UniRef90_COB2U4
UniRef90_R9J817
UniRef90_E4RQW9
UniRef90_D4N096
UniRef90_E7G113
UniRef90_R5A1P3
UniRef90_F7V3Z1
UniRef90_B0P7S2
UniRef90_UPI0002D2A02F
UniRef90_UPI000373EDA9
UniRef90_F8KSU4
UniRef90_C7P3Q4
UniRef90_C8WIZ3
UniRef90_S2DNQ2
UniRef90_Q30S94
UniRef90_H1YY64
UniRef90_E3GXT4
UniRef90_W877A9
UniRef90_J5K6V9
UniRef90_UPI00035C1C0C
UniRef90_L0JZW1
UniRef90_C7PKZ3
UniRef90_E4U285
UniRef90_L0G089
UniRef90_W5XXJ7
UniRef90_G0IW55
UniRef90_UPI00047E7D9F
UniRef90_U2EZA2
UniRef90_G2MGR2
UniRef90_I0AGZ8
UniRef90_UPI00047086A7
UniRef90_S0J2S2
UniRef90_U3GY35
UniRef90_U4T384
UniRef90_I0ETH6
UniRef90_M0LWK2
UniRef90_R7RPP8
UniRef90_UPI00040D0010
UniRef90_UPI000372738A
UniRef90_B8GJJ4
UniRef90_D3DZM5
UniRef90_E7C6Q5
UniRef90_UPI00047E0ACB
UniRef90_Q5V118
UniRef90_Q2RWE2
UniRef90_I4AKZ0
UniRef90_R6VGH0
UniRef90_A4G0A1
UniRef90_A7HBF2
UniRef90_I7BXP2
UniRef90_B9L8M0
UniRef90_B2UXC6
UniRef90_C3XMN0
UniRef90_V8CAN4
UniRef90_MODCZ5
UniRef90_A6ELI9
UniRef90_T1CSJ1
UniRef90_B3EPK1
UniRef90_UPI000255631F
UniRef90_H2JDG0
UniRef90_Q59292
UniRef90_A0RXF8
UniRef90_C6PWW0
UniRef90_W0JSJ0
UniRef90_D8JA91
UniRef90_C7P6Y7
UniRef90_E0URL0
UniRef90_K9AVF1
UniRef90_T0NG68
UniRef90_UPI000464569E
UniRef90_UPI000473E71C
UniRef90_D6YS67

90 100 110 120
C I K H L F E V V C G F D S L I I G E T T V I A Q Q V K E A K E L S K L V G G K N
A I H H L F F S V V A S S A G L D D S S L I I G E T T V I A Q Q V K E A K E L S K L V G G K N
A I H H L F F S V V A S S A G L D D S S L I I G E T T V I A Q Q V K E A K E L S K L V G G K N
A I N H L F F R V L A G T C G G L E D S S R I L L G E D D Q I L S N Q V K R K A A Y D T S A K K V N K T S A N G
A I S H L F F R V L A G T C G G L E D S S R I L L G E D D Q I L S N Q V K R K A A Y D T S A K K V N K T S A N G
A I L N H L F F R V L A G T C G G L E D S S R I L L G E D D Q I L S N Q V K R K A A Y D T S A K K V N K T S A N G
A T Q H L F F E V V S A G L D S L V L G G E G Q Q I L A Q Q V K Q V K E K L R N G F G G
A V H H L F F A L V S S G L Y R S S L Q I L G G D F D I V G G Q I K E A L F L A R K S G S V T T N
A F V H L F F Q T A C S S G L L K S Q I W G G E S Q I L S S Q I K K A I E E A F E R E T G T A D
A T F H L F F S V C S S G L L D S S M V M G G E D E I L S G Q Q I L R S A Y M F S K N N N F T S
A L E H L V L K L L S C G L L E S S M I I G E D D Q I L S G Q Q I K K D A Y K S S L K T G C C G G
S L N H L L R L R A S A G L D S S M I I G E D D Q I L S G Q Q I K K D A Y K S S L K T G C C G G
A L T H L W L R V A S A G L D S S M I I G E P Q Q I L G G Q I K K R A V H N M A Q A Q K A L S
A I H H L F F S V V A S S L L D S S L V V G E T T Q I V G G Q I L K D A Y N F A K N E R K T S G G
A I A H L F F E V V A S T S L L A S S M I I G E T T Q I L G G Q I L K D A Y F E C A R E V G G T T G
A V Y H L M R V L A C C G L L D S S P D I G G E P H I L G G Q V K K N A F F T A Q S S K S T G
A V S H L M R V L A S A G L D S S L V L G G E P Q Q I L G G Q V K K E A L L E Y S V T M G H S G
A I A Y L F F R I A A S G L L E S S L V L G G E T T Q I L G G Q V K K E A L L E Y S V T M G H S G
A L T Y L F F E V V A L G L L H S Q V V G D D Q Q I L N Q V V K Q A Y Q W A A D M D M T G
A V S Y L F F Q V T A S S G L L E S S M V V G G E T T Q I L G G Q V K K D A Y D F S R T M G F S K
A I H H L F F S V V S S G L L E S S M V V G G E T T Q I L G G Q V K K S A Y K T C L E A K L C G
A V R H L M E V V A A G L R D S S R I F G G E D Q I L S S Q V K N A T T I A R E A G T A D
A M V H L F F R V I S G G M K S M V V G G E D E I L S G Q M R K S A Y L Y A K D R G A A A D
A V R H L M E V V I S G G L K S Q I W G G E D Q I L S G Q V K K S A I A J A R K A G A A A D
A V E H M L T V A S S G L L D S S M A I I G E S Q I L S G Q I L K Q S Y S G A Q G A G Q L T S
A V Q H L F F E V V A S A G L L E S S Q I L G D Y E I L G Q I K C A K F S K E R G F V S
A I H H V F C V A S G L L D S S M V V G G E T T Q I T G Q F K S A Y K M C L E H K L C A
S L R H L L R V A A S G L L E S S I V L G E D Q I L G Q V V R R A Y Q D A R A V G G I G
A V E H L F F R V V S M G L L E A S L V L G D A Q V V G D A Q Q I S N Q V K R R A F A A A D A G A V
A I D H L F F R V V S M G L L E A S L V L G D A Q V V G D A Q Q I S N Q V K R R A F A A A D A G A V
A I H H L F F S V A S S L L D S S M V I G E T T Q I A G Q I L K D A F R F S Y D N G T F C S C
A L K H L L Y L L A A S G M D S S M I I G E T T Q I L G Q I K K A L A L L S Q N Q E K G T C C
A I L H L L K L A S A G L L D S S M I I G E T T Q I L G Q I K D A K L Q A Q N N G T C G
A A V H L M S V A A S G L L D S S M V L G E D Q I L S Q V K S A H T L A L E C K S S G
A L V H M S K V A A S G L L D S S Q V L G E Q E I L G Q V F K T A Y K K A K D G V L G
A L R H L F F A V A A S L D S S M I V G G E Q H V I L G Q V V R T A Y E D A R S A G G I G
S L R H L L R V A T G L L E S S V V L G E D Q I L G Q V V R T A Y E D A R S A G G I G
A I K H L Y Q V A S T G L L D S S Q I L G D Y E I L G Q I K R N A T K F S K A N G C F S A
G I H H L F F S V A S S G L L E S S M V V G G E T T Q I A J A L H K L S V D N G F S A
V L N Y L F Q V A S S G L L E S S Q I L G D A Q Q I R S Q I K Q A Y Q L A H E A Q T A T G
A A E H M M V V A A G M D S S M V V G E Q Q I L S G Q V R T A Y Q H A T E I G T V G
A I S H L F R V A M G M D E A Q V I G D M Q I S N Q V K R S Y Q T A V D M D M A G
A A E H V V R I A A S G L L E S S Q V L G D G Q I L G Q I K A A Y K R A S R G Q A A G
A I V D H L F A L A C C G L L R S R V L E G E D D Q I I A Q V K K E S L A L A R S C G S A D
A I R H L M R V A C C G L L S L V L G E D D Q I I G Q V K K E S L E R G Q S C G T I G
S V E H L F R V A T G I L D S S L V L G D N Q I F K Q V K D S F I I S E E M N F A G
A V H H L F F S V A S S L L D S S L V L G E T T Q I T G Q V K K D A M S F A L D R N F A G
A M G Y L F F R I A A S G M D S S L V L G E D D Q I L G Q V K K D A L D Y S R T M G Y S G
A A E H L I R V A A G L L E S S M V V G E Q Q I L G Q V V R Q A Y R G A G A G S
A L T H W L R V A A S G L L D S S M I I G E P Q Q I L G Q I K R S V H L A Q D E Q K A L S
A V H H V L C C C S S G L L D S S L V I G E T T Q I T G Q M K N A Y K F A Q D E Q K A L S
S L R H L L R V A A S G L L E S S V L V L G E D Q I M G Q V R D A Y E D A R E E A G G I G
C V L H L L R N V A C C G F D E S K I L G E E Q I L G Q I K R D A L T L A S E E L K T V S
A I L H L L F R V A S M G L L E A Q V I G D I Q I S N Q I K R A Y Q A A A D S E M A G
A I T H L L R V A A G L L D S S M I L G E P Q I F G Q I K K T V N T A K E Q G F L T
A I R H L L E V A C C G L L S M I I G E D D Q I L G Q I K K A L A A A Q T A G A C C S
A L L H L F R M T S G L L D S S M I I G E D D Q I L G Q I K K D S L K A K S E K E G H C G
A F A H L L R V M T G I L D S S M I V G E P D I F G Q V K K A Y E N S R S F G G Y L N
A T H L F S V A S S L L D S S L V L G E T T Q I S G Q I K S A F K E T A R Y E V G C C G
S L R H L L R V A A S G L L D S S L V L G E D D Q I L G Q I L R T A Y E T A R G G I G
V V A H M F R I T S A L L E S S Q V L G E P H I L G Q V V K A A H R I A R D A G T V G
A V K H L F S V S M G L L Q S Q V I G D I Q I S N Q V K K A A D F Y S A D L N L A S
A V K D L F A L A S G G L K S Q I L G E D D Q I L T Q M K K A A Y Q S R K F F G T D
A T F H F L K V S C G M D S S M I L G E N Q I L G Q I K T S F Q K A R E L K K T S
A Y R H L L V R V A S S L E S S A I L G E P Q I L G Q V K E A F Q R S D A Q G V A A
S L R H L L R V A A S G L L E S S V I L G E D D Q I L G Q V V R T A Y E D A R A G G I G
A I E H I F K V A A S L L D S S M V V G E T T Q I T G Q V K E A Y F E A Y E K H F I G
A C H H L F F E V T C G F H S K I L G E D D Q I L G Q V K T S Y F K S Y E M A K A L N
A I H H L F F S V A S S L D S S L V V G E T T Q I A G Q I K S A F K F S Y E M G C C G
A L H H L F F S V A S G L L D S S L V I G E T T Q I V G Q I K S A Y K L C Y D L G V C G
S L R H L M R V A A G L L D S S L V L G D F E I L S Q L K R A F E D A R G A G G I G
A V A H L F K V A T G L L D S S Q I L G D F E I L S Q L R A G L R S K N Q G V L N
A V H Y V F N V A S S L D S S V V I G E T T Q I T G Q I K N A Y K M C F D L G L C G
T A R H L F E V S S A G L L D S S L L I G E G Y E I A G Q V K N A Y R I A V E V Q S A G
A I K H L L S V A S G V L L N I G E Y E I A G Q V K N A Y A T V A R E E K T I D
S I F H L M E V A C G L L Q S M V L F E D Q I I T Q V K N A A A T V A R E E K T I D
A I F H L M E V A C C G L L Q S M V L F E D R V I T Q V K N A A A A S R E E K T I D
V L E H L L R L T S G L L D S S M V V G E E Q I L G Q V K N A T S A R T S G A S G
V I K H L M D V V C G F N S L I L G E D Q I L A Q V V K E A Y E I A L N S K T V H
S L K H L L R V A C C G L L S V L V G E D D Q I I G Q V R T A Y E D A R T A G G I G
S L R H L L R V A A G L L D S S L V V G E D D Q I I G Q I K E A Y A E A R G I G L G
A I E H L F R V A C C G L L E S S M I V G E D D Q I L G Q I K N A Y L K A K E K G K I S
A I H H L F A V A S S L D S S M V V G E T T Q I A G Q I K D A F K F S M A D R G Y L A
A I Q H L L K V A C C G L L D S S M A I G E A Q I L G Q I K R S T F T S M A A G A L T
S I R H L F L V S S G L L E S S M A I G E N D I L R Q I K S S Y D L S T K R G K S D
U P I 0 0 0 4 6 4 5 6 9 E C V D H L F E L V S G L L D S S M V I G E T E I F G Q V K A A Y E A A H Q L Q I A T G
A L A H M C K V A S S G L L R S Q V L G E Q E I F G Q V K T A L R N A K E Y K I G
C F I H L A R V T A G L D S S A I V A E T E I Q G Q V K I A Y E K A A D A I L P

UniRef90_E4S6S1 P V L E R L F E V A L K C S K E F R T K S K L
UniRef90_D5V278 K D I S K A M N Y A F K C A A N V R N E T S L
UniRef90_COBL55 P F M E R L T N A V I Q A S K R I K N E T D I
UniRef90_Q97MU6 S E L K K L F Q L V I T C G K E F R S
UniRef90_R6BHV9 N V L E V L F R M A V T A G K K V R T
UniRef90_A9DTI7 G F M E R L V N A V I T A S K R I K N E T E I
UniRef90_I3ZAA4 P F L H R L M H T I F F T N K R V V Q E T A
UniRef90_M4EY85 M V I P G L F E K A I T A G K R A R A E T G I
UniRef90_UPI00047107F6 N I L L R L F E D K A L E V A K V V R T
UniRef90_F0NYU6 A F L E R L I N T S I Q L S K R I K N E T
UniRef90_K4KY21 L Y L E K L F Q M A I T S A K K V K T Q
UniRef90_D1B2M6 Q K L G R A M H H A F R C A A E V R S R T D I
UniRef90_R7NIW0 Y E F N M I F Q K S F E C A K I K N E T
UniRef90_U6EAV5 P I L S T V F T K A I H V G Q S V R K K T R I
UniRef90_G7WL01 W T L D V A F K K A I S V G K R V R R E T R I
UniRef90_Q1QED0 N Q L G W I V D Q V F A A K R V R N E T Q V
UniRef90_A71R7 V M L D L A I N S A L K C A A V I R S K T D I
UniRef90_W7CBN1 V V L N E L F K R A I T V G K Q A Q S E T L I
UniRef90_MOM4P1 P I F E E G I Q K A I H V G E R A R T E T A I
UniRef90_G8PEN1 V L F N H L F K Q A I S F S K W T H Y E Y K I
UniRef90_COB2U4
UniRef90_R9J817 K E L N K I V R D A V T C A K K I Q T K L K I
UniRef90_E4RQW9 T Y L H R V M H T I F F A N K R V V Q E T E
UniRef90_D4N096 K E L N K V V R D A I T C A A K K V K T T F R I
UniRef90_E7G1I3 K H L S R L A H F A F K C A A S V R N T T A I
UniRef90_R5A1P3 A V L E T L F R Y A V S A G K E V R T K V R L
UniRef90_F7V3Z1 Y E L N T I F Q A A L A G A K K V K T D T
UniRef90_B0P7S2 P V L E T L F R N A V A A G K A L K T Q
UniRef90_UPI0002D2A02F G E L S R T V Q D S L R V G K R A H A E T A L
UniRef90_UPI000373EDA9 A F T E R L V N S A I Q S T K V V K N Q T A L
UniRef90_F8KSU4 Q H L T R L A H F A F K C A A V R N S T T I
UniRef90_C7P3Q4 S V L E D G I T K A I H V G E R A R T E T A I
UniRef90_C8WIZ3 E T T R R L F R S A L E V G K R V R E E T A I
UniRef90_S2DNQ2 P F L H R L M H T I F F S K R V V Q E T A
UniRef90_Q30S94 Q K L A R A M H H A F K C A A K V R N A T D I
UniRef90_H1YY64 P V L D L C I T K A V H A G I E V R K R T N I
UniRef90_E3GXT4 D L L E L I F N K A I H V G Q V V R K K T K I
UniRef90_W8T7A9 K A L N R L F M N S I S C A R H I K S T L G I
UniRef90_J5K6V9 R E L T Y L S E K V I E I S K K A R T Q T K I
UniRef90_UPI00035C1C0C G D L D T C V Q A A F S A A K R V R N E T T I
UniRef90_L0JZW1 P M L D A A V T K A I H V G E R A R T E T A I
UniRef90_C7PKZ3 G F Q E R L V N S V L Q V S K L I K N E T G L
UniRef90_E4U285 Q K L G R A M S Y A F K C A A E V R N A T N I
UniRef90_L0G089 T Y T H R L L Q V I F S A N K R I A S Q T G
UniRef90_W5XXJ7 P A L H G L V Q A S L H T G K R V H T E T N I
UniRef90_G0IW55 P F L H R L M H T I F F T N K K V V Q E T A
UniRef90_UPI00047E7D9F P V L H R L F E T A L R A G K R V Q T E T S L
UniRef90_U2EZA2 G V L D R L F L S A V T A A K E V K T S V R L
UniRef90_G2MGR2 P V L E E A M L K A V H V G E R A R T E T A I
UniRef90_I0AGZ8 F L V K R L M D A A V R V G K R A I S E T A I
UniRef90_UPI00047086A7 D N L K R V V E C S F R C A A E V R N K T E
UniRef90_S0J2S2 K E L N K V V R D A I T C A A K Q I K T E
UniRef90_U3GY35 P V L H S I A Q S A L R A G K R V H S E T E I V
UniRef90_U4T384 N Q L G W I V D Q V F A A K R V R N E T K V
UniRef90_I0ETH6 K D L T R L L H F A F K C A A K V R N L T G I
UniRef90_M0LWK2 P M L D P A V T K A I H V G E R A R T E T E I
UniRef90_R7RPP8 G T L K R L F D V A L S C G K E F R T K S S L
UniRef90_UPI00040D0010 P F L H R L M H T I F F T N K R I V Q E T A
UniRef90_UPI000372738A N Q L S W V V E Q I F A A K R V R N E T D V
UniRef90_B8GJJ4 P T L I E Q C V N K A V H V G V E V R R R T E I
UniRef90_D3DZM5 K T L D T I F T K A I H V G Q V V R N K T K I
UniRef90_E7C6Q5 S N L D A I F S K S I N I T K E I R S A T N L
UniRef90_UPI00047E0ACB L H L S R A I H Y A F R C A A S V R N S T S I
UniRef90_Q5V1I8 P M L E D G V T K A I H V G E R A R T E T K I
UniRef90_Q2RWE2 S A T E A L M Q A A Y A I A K R V R S E T R I
UniRef90_I4AKZ0 P F L H R L L H T V F Y T N K R V A Q E T S
UniRef90_R6VGH0 K L E T L F R M A V T A G K E L K T N I N L
UniRef90_A4G0A1 R Y L D S L F L K A I H V G Q R A R T E T K I
UniRef90_A7HBF2 K E L T S V L N R A L S A A K R V R T D T A I
UniRef90_I7BXP2 S M L E A A V T K A L H V G E R A R T E T A I
UniRef90_B9L8M0 Q D L T R L I H F S F K C A K K V R N Q T Q I
UniRef90_B2UXC6 L E L Q R L F Q Y A I T C C G K K F K S Q S R L
UniRef90_C3XMN0 L Y L S R A I H F A F R C A A S V R N S T S I
UniRef90_V8CAN4 Q E I T R L A H F A F R C G G R V R S Q T Q I
UniRef90_M0DCZ5 R V L D D A V T K A V H V G E R A R T E T A I
UniRef90_A6ELI9 A Y M E R L G N A V I Q A S K R I K N E T E I
UniRef90_T1CSJ1 Q N I T R L I H F A F R C A A Q V R N Q T Q I
UniRef90_B3EPK1 I L L T R L C H T A F S
UniRef90_UPI000255631F F Y L N T V F Q Q S I A Y A K N H S
UniRef90_H2JDG0 S T L E T M F R L S I T A A K K A K T E I K I
UniRef90_Q59292 S T L E T L F R L C I T A A K K A K T E
UniRef90_A0RXF8 R R L N T L F D R A I R S G T R I R N S T
UniRef90_C6PWV0 R D L Q R L F Q T A V T C G K E F R T K S S L
UniRef90_W0JSJ0 P L L E M A V T K A I H V G E R A R T E T K I
UniRef90_D8JA91 E L L D D A L L K A I H V G E R A R T E T A I
UniRef90_C7P6Y7 K K L E K I L K A I H T G Q R A R V E T K I
UniRef90_E0URL0 K K M S R A L S H A F K C A A K V R N L T D I
UniRef90_K9AVF1 S D L S H A L Q Q S L R V G K R A H S E T G L
UniRef90_T0NG68 K F L S Y T F Q K A I S V G K D V R T M T G I
UniRef90_UPI000464569E V W L N R L F Q T S F S A A K A A R S R T F I
UniRef90_UPI000473E71C N K L S Y F A D K V I E I A K K A R T D T E I
UniRef90_D6YS67 R E L H Y L F Q K S L K I G K S I R S E L G L

UniRef90_I2FB98
UniRef90_M0CSG7
UniRef90_UPI000362F69E
UniRef90_A6LKW9
UniRef90_L9VVM5
UniRef90_U1QQR0
UniRef90_D6E8W8
UniRef90_J2ZFD7
UniRef90_E4TCL3
UniRef90_G7Z6J7
UniRef90_M0P9F1
UniRef90_W0K0U2
UniRef90_E1IDF6
UniRef90_L9Y1F8
UniRef90_P42809
UniRef90_M5TVG2
UniRef90_H1ANG1
UniRef90_R5VVP0
UniRef90_U7VC43
UniRef90_V4X415
UniRef90_R6V0E6
UniRef90_C9RIA9
UniRef90_R7FF52
UniRef90_V4H9N8
UniRef90_E2SJN7
UniRef90_H6RFQ6
UniRef90_A3CU63
UniRef90_UPI0002629A91
UniRef90_U2MYC3
UniRef90_I4EX30
UniRef90_V5A6X4
UniRef90_UPI000362D2A1
UniRef90_UPI00036CB660
UniRef90_UPI0003192A3A
UniRef90_UPI0001B439ED
UniRef90_UPI00035E9D91
UniRef90_UPI0003AAD5D6
UniRef90_M0H4P6
UniRef90_K2L1C5
UniRef90_UPI00042A4666
UniRef90_U1QZB1
UniRef90_M9SIQ8
UniRef90_U2HGB6
UniRef90_T1BEJ6
UniRef90_H8FR30
UniRef90_A0RNT0
UniRef90_M1XLB2
UniRef90_A8MAH6
UniRef90_UPI00036410B7
UniRef90_R6YKL7
UniRef90_T0LUG8
UniRef90_U1PP83
UniRef90_A4WN38
UniRef90_UPI00035E0FE9
UniRef90_A3MW83
UniRef90_H6SJY8
UniRef90_B9DZF9
UniRef90_R6U8S7
UniRef90_V4JX10
UniRef90_F8AN31
UniRef90_Q8ZYV6
UniRef90_K1MXR5
UniRef90_UPI000478C411
UniRef90_UPI00034DAEF4
UniRef90_C9DDF6
UniRef90_A1RQP7
UniRef90_UPI0003759512
UniRef90_UPI0004019BB1
UniRef90_U2K5C6
UniRef90_C7NCC5
UniRef90_J9HBV8
UniRef90_S6VIU8
UniRef90_UPI00036D2775
UniRef90_X0VZM8
UniRef90_A5TVZ1
UniRef90_J1FBY6
UniRef90_W6N2K6
UniRef90_UPI00036C1D5C
UniRef90_D1C0P5
UniRef90_F4C4V6
UniRef90_R6DGP3
UniRef90_R9GUA7
UniRef90_UPI00036F1A6A
UniRef90_UPI00036AE1A9
UniRef90_A5CNH4
UniRef90_UPI0004117D44
UniRef90_H1DB62
UniRef90_I5BY31
UniRef90_S0ATW0
UniRef90_UPI0003B57E7D
UniRef90_F8A7Q9
UniRef90_C3MZS1

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

UniRef90_I2FB98
UniRef90_M0CSG7
UniRef90_UPI000362F69E
UniRef90_A6LKW9
UniRef90_L9VVM5
UniRef90_U1QQR0
UniRef90_D6E8W8
UniRef90_J2ZFD7
UniRef90_E4TCL3
UniRef90_G7Z6J7
UniRef90_M0P9F1
UniRef90_W0K0U2
UniRef90_E1DF6
UniRef90_L9Y1F8
UniRef90_P42809
UniRef90_M5TVG2
UniRef90_H1ANG1
UniRef90_R5VVP0
UniRef90_U7VC43
UniRef90_V4X415
UniRef90_R6V0E6
UniRef90_C9RIA9
UniRef90_R7FF52
UniRef90_V4H9N8
UniRef90_E2SJN7
UniRef90_H6RFQ6
UniRef90_A3CU63
UniRef90_UPI0002629A91
UniRef90_U2MYC3
UniRef90_I4EX30
UniRef90_V5A6X4
UniRef90_UPI000362D2A1
UniRef90_UPI00036CB660
UniRef90_UPI0003192A3A
UniRef90_UPI0001B439ED
UniRef90_UPI00035E9D91
UniRef90_UPI0003AAD5D6
UniRef90_M0H4P6
UniRef90_K2L1C5
UniRef90_UPI00042A4666
UniRef90_U1QZB1
UniRef90_M9SIQ8
UniRef90_U2HGB6
UniRef90_T1BEJ6
UniRef90_H8FR30
UniRef90_A0RNT0
UniRef90_M1XLB2
UniRef90_A8MAH6
UniRef90_UPI00036410B7
UniRef90_R6YKL7
UniRef90_T0LUG8
UniRef90_U1PP83
UniRef90_A4WN38
UniRef90_UPI00035E0FE9
UniRef90_A3MW83
UniRef90_H6SJV8
UniRef90_B9DZF9
UniRef90_R6U8S7
UniRef90_V4JX10
UniRef90_F8AN31
UniRef90_Q8ZYV6
UniRef90_K1MXR5
UniRef90_UPI000478C411
UniRef90_UPI00034DAEF4
UniRef90_C9DDF6
UniRef90_A1RQP7
UniRef90_UPI0003759512
UniRef90_UPI0004019BB1
UniRef90_U2K5C6
UniRef90_C7NCC5
UniRef90_J9HBV8
UniRef90_S6VIU8
UniRef90_UPI00036D2775
UniRef90_X0VZM8
UniRef90_A5TVZ1
UniRef90_J1FVB6
UniRef90_W6N2K6
UniRef90_UPI00036C1D5C
UniRef90_D1C0P5
UniRef90_F4C4V6
UniRef90_R6DGP3
UniRef90_R9GUA7
UniRef90_UPI00036F1A6A
UniRef90_UPI00036AE1A9
UniRef90_A5CNH4
UniRef90_UPI0004117D44
UniRef90_H1DB62
UniRef90_I5BY31
UniRef90_S0ATW0
UniRef90_UPI0003B57E7D
UniRef90_F8A7Q9
UniRef90_C3MZS1

50 60 70 80
E S I L L L C T C N R R V E A Y V V S A R S H I Y A T L A K Y I E Q N A I V R L N E Y
E A Y V L Q T C C N R R V E A Y V V G R A K A L A A F F E G V P S D V L A E L G H E E
K C V L I K T C C N R R I E L Y Y F D N D K K E E E K L V J E D F K Y I F D T L T G K I
E V A V L K T C C H R R E E L Y Y F T G D D K E P L T I N E I I E P Y I I R K S G L G D
E A Y V L S T C C N R R V E A Y V V G R A A L E E F F L D V A T D A V V V T D H D E E
E A F V V S T C C N R R A E A Y V V T D R D A D A V T D I A E P V F R S G A V V M T H E E
G A V V L S T C C N R R L E F Y V V T C E D A D E A A P A R Q F R E L Y A F T D G R
E A Y V I S T C C N R R A E A Y V V G R Q V L A E F A P D V R D G A I V I E M D H E E
D A F V V S T C C N R R T E I Y T T S H N Y V A Q L F C D I V G K Y C D V K K G E D
Q A V V L S T C C D R V E I Y Q A V D H E R P N E A A L A I A E A P Q L Y T R T G I D
E A F A L Q T C C N R R S E A F I V V T D K T V D G A A V A E V R S G A I R R L D H E E
E A F V L S T C C H R R V E A Y V V T D D N P A T G R R A D P A G A G A I S M G S H E E
M I L S T C C N R R V E L Y G V T A Q D Q N L A E F L A E F H G H T L F F H S G E E
E A Y V L S T C C N R R V E A Y V V A A D H A L I E E F F A G I D D D A V V T T D H D
E K V P L M T C C N R R V E Y Y L H V T G V P P E F D F N G F T V E K Q D D E D
E L V V L S T C C N R R V E L Y A A G V A E C L E K P A D F V A E H M A V R K Q D G R E
Q V L I L S T C C N R R S E V Y L M Y Q T D I D F L P S I Y L N Y L Y V K T G D E
G Y V V L S T C C N R R M E I Y F T D K Y E Q V J E K L L A N D R N Y S M N Y E G F Q
G Y V N L S T C C L R V E I Y Q A V D H E R P N E A A L A I A E A P Q L Y T R T G I D
E A F A I R T C C N R R S E A Y V V S A Q P A L J E S F A P T V R G A A V R R L G E E
Q A V I L S T C C N R R S E M I F L Y E K E E Q L D Q R K L F L F L K T G V T
D A I L L Q T C C N R R V E M I F D A E K Y K N I K E L E K I G I N L E I I S G E K
G A V L L A T C C N R R T E L Y I T A E S D I S A A K S E T A V P E L L L E I E M A
E A F A L S T C C N R R V E A Y V V T E R A L A E F A P D V R D G A V V R L D H E E
Q A V L V S T C C N R R S E L Y L I Y E T D E A K R L F L Q A A N H L F L K T G R D
G L F V V S T C C N R R T E I T G F A K H E L I S L L V K Y S K G N L E V Y K N K A
G V L L L S T C C N R R I E V L V Q G D A R D S L E F L Q E K G R H G A F T V I E G E A
G V V V L S T C C N R R F E V Y A Q A P R D T S A E L V I E Q I S M A A D V E V D H R
E V L I I N T C C N R R T E I Y F D S E D S S H E T L Y K I F R E Y I F H I K E E K
E V A V L S T C C N R R I E V Y A V T R Q T V A G L L A E R I A C V H V D A A
E A F S L I T C C N R R A E A Y V V T P D A A A G R Q A D V R D G A I R R L D H E E
E A Y A L Q T C C N R R V E A Y V V T A D P A L D A V G L G D H S A A V A S G H E E
G A V V L A T C C N R R F E A Y L D A P G L A P E Q A L D G L A R A A D V H R G D A
S A V V L S T C C N R R L E I A D G L A D L G T A L V D V S G S H T Y V H F D D K
E N V I I S T C C N R R T E I V A V V D Q I H T Q M D M E K I E P Y L F F H E E T E
G V V L V A T C C E R F D Y T A L T A G E A G L E Q E F L R K Q C Y C H R S G L D
A Y V N L S T C C L R V E F Y L E L N E D I L K I K D L F P L K N I Y V K S S M E
E A F S L S T C C N R R A E A Y V V T E R A L D D F A P E V R D G G V R H M D H E E
Q A I V V S T C C N R R T E I H L L A S E A W A D I D R D K L A S E L Y L I R S G R D
E V I I L T T C C N R R T E I Y V D S K E E V I D V I K T I G W F I F Y V E A E K
E A F A L S T C C N R R A E A Y V A G D D A L S G F A A P V P T G V V D R L D H E A
E Y V I I R T C C N R R L E A Y V A T D D N H K K T I P Y S D R E F W Y I L Q D N E
E I F Y I A T C C N R R V E F V F Y G A H E L T D D F I A H F M D K M N F Y S G L E
E V V S L R T C C N R R F E L Y V E G P P E L R T E I R Q Y L A P T Q F L R E S G T L
E A L V L S T C C D R V E V W C D T E A D H A T T L A E G L A S H L Y T L S G G E
E S M A L S T C C N R R V E I F A Y V L D T Q S V F F E A L E L R A D I Y E D Q G
E A F V L Q T C C N R R A E A Y V V S E E A L S T Y V D G V A P E A V R E L D H E E
E V F L L S T C C N R R T E V Y Y G D D D S V A E D M Y K V K N H V L D K L V G M N
U P I 0 0 0 3 6 4 1 0 B 7
G C V L L M T C C N R R C E I Y I S G L N K I Y R E V R E E F W K Y A M R Y E K K A
H Y V V L S T C C N R R V E I Y F T T S D D S P H V D M A G G I Y L S G L D
E S F A I Q T C C N R R S E A Y V V J A D R A L A N F A P S V R D G A V I E M S H E E
P M F V L H T C C H R R V E A Y L Y G A E E E L S S L V I E R Y K R H A R I L R G I E
G A V V L A T C C N R R F E A Y V E M D E P V T A A I P A A D L D G A Y V H S G R R
A F V F H T C C N R R V E V Y V D A D A G P A E H I K R S Y P Y V E E F R G V E
D V M A L S T C C D R V E I C A H S T E P V L I E L C E C L E G H L L D V R G A S
S V L L L S T C C N R R T E I Y V D S N L E E K K L I D T V F S Y I F Y I K D K Y
P V L I C T C C N R R T E L Y F C G T P E E G I R L L C E Q S R K V M I F T D K T
G V V V L S T C C N R R F E V Y L D S P A P R S E E V I R L L K A P W R L E G E E
N C I L L Q T C C N R R I E A Y F D K S Y C G G E L N G K N D F K D F K V L E G H D
P M F V L H T C C G R V E A Y N A S E Y E E I N S V T L R Y R R Y A R V V R G V E
D A F V V S T C C N R R T E I Y S T S N Y I A E E F C K E F L Q F A N I F T R E A
Q V L L L S T C C D R R L E V L A V S D A D W I G V S G D V V R S S A Y S L R G T D
G A V V V A T C C N R R F E A Y V D M D E V T A A V A V G V E A T L T V L G G D
Y V L H T C C G R R V E A Y L Y G A P E E V Q T V A E T Y R K Y V R L I A G V E
G L L L L T T C C N R R T E I L Y I E S A E T T A L D L R D F L V N Y L F N L S N E D
E I F Y I G T C C N R R V E F V F T T S E L D I T P E F I E D F S K Q V L I Y E S E E
G A V L L A T C C N R R T E L Y S S A E D D A V S Q P A E L L R Q Y A H V L R T E I D
G Y V A V E T C C L R I E L Y D V S K E F E I E K L K R D F K I E K M K Y R G T E
E S V V L S T C C N R R T E V Y A L V N S T H A A H D F Q D L S E H M Y L K Q G E A
E A A I L S T C C N R R S E L Y I E G A D S I L A W L A N Y H H L S L Y V H E D D A
G A V V I S T C C N R R F E L Y L D V D A P L S G D S V K H A T R H F T V R T G P E
E G L I V S T C C N R R V E A Y T A A K S E I T G F L A D F H D P H I Y T M S G E E
A Y I N L S T C C L R T E F Y I E N S A N D I N E I K N L F S V D M I V K S G I E
E I M I L N T C C N R R V E F I T A D N K Q H S G L P F E K L L E I V S I S R R E E
S S L I L S T C C N R R T E V Y V D S D I Q G K K L I N M I F A N Y I F Y V K D I T
A F V L L E T C C Q R F E I Y V G T A E E S L Q R L P D P Y R A S V F Y L E N A D
G A V V I S T C C N R R F E I Y L D V E A P A S D V T A E T A A A S F T V R T A S E
E I F Y V G T C C N R R V E F V F H G K H T V P D E Q F D Q F L N Q V T T Y E G L D
G V I L L M T C C N R R C E I Y A A G S K D T M S V I E E L F Y E H I M R Y E K E N
E I F Y I G T C C N R R V E F Y A G S Q T I P E D K M E D F I S K V K F Y E D Q D
A F F G L S T C C N R R T E M Y L T G E K G I A K Q I L H I P D S S F Y F L S N Q D
E L Y L L Q T C C N R R V E V Y A F G S E E D F Q A L G K D V V H K G T V L K G R E
G A V V L A T C C N R R F E A Y L D V E E P L T A A R A D D V R G S V D V K G D A
E I F Y L G T C C N R R V E F V F T A E H D I S K D F V K R F L D V F H I Y E Q E D
A Y V D L S T C C L R V E F Y M E L D N T R L E I I R E R F Q R G L Q M K Q G E E
D T L I L S T C C N R R T E V Y Y A H D I D I S T E I I K D Y L E Y F Q V F N D D E
N Y V I L V T C C N R R I E I Y F R P E E T L M G S I E G S L Y L E Y P E
G A V V L A T C C N R R F E A Y L D L D A D V A G L E P D E L R A T F G F V H G N A
G A V V L A T C C N R R F E L Y L D V D D A A S G Y D A R K V A H L A V G T G S E
E F A I L Q T C C N R R V E I Y L Y S N T N T I S E I N K M I Q Y Q A R V I C G K D

UniRef90_I2FB98 A I Y H I F G V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_M0CSG7 S L R H L M R V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_UPI000362F69E A I I H L L L R V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_A6LKW9 V I R H L L F K V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_L9VVM5 S L R H L L L R V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_U1QQR0 S L R H L L L R V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_D6E8W8 A V R H L L F E V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_J2ZFD7 S I R H L L M R V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_E4TCL3 A L N H L F F R V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_G7Z6J7 A V R H L L F F V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_M0P9F1 S L E H L L M R V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_W0K0U2 S L R H L L L R V V A S S G L L E E S S L V V V G E T D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_E1IDF6 V A K H L L C A T S A S G L L R S S L V V I G E A Q Q I L Q G G Q V L R R N A F F E J A Q Q A A G T V D G
UniRef90_L9Y1F8 A V Q H L L L R V V A S T G L L E S S L V I L G E D Q Q V I L G G Q V I R T A Y E D A R D D A G G T V I G G
UniRef90_P42809 A L L H L L L R V V A S S G L L E E S S L V V V G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_M5TVG2 A V D H L L F L V V A A S S L L D S S M V I V G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_H1ANG1 A F R H L L L K V V T C C G L L E S S M V L R E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_R5VRP0 C V L H L C R V V A C C G F M D S S M V L G E V E I L H Q Q K K S A Y D F T C R M S L G A C S S
UniRef90_U7VC43 A V N Y L F R V T C C G L L E S S V I K G E D Q I L A Q I V R E A Y Q Q E S R N A G A G A G I G G
UniRef90_V4X4I5 S L R H L M R V V A S S G L L E S S L V I V G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_R6V0E6 A A C Y L F F V A S A G G Y H S M V L G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_C9RIA9 A I E H L F R V V A S S G L L E S S M V L V G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_R7FF52 A A Q H L M E V A C G L L E S S Q I L H E E Q I V T Q I V G G A L E M A R S A C H T T D
UniRef90_V4H9N8 S L R H L M F R V A A G L L E S S L V L G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_E2SJN7 A V L Y L F F R V A A G Y H S M V L G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_H6RFQ6 A V N H I F N V G V G L D S S Q I L G D Y E I V L G G Q L K N S F I Q A K K I G V I N
UniRef90_A3CU63 V P R H L L E F A A S G L D S S L V V G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_UPI0002629A91 A A E H L F A V A S S G L L A V V G E E E I A G Q V L R R A H V E A R E E R G T V T
UniRef90_U2MYC3 V A K H I F M E L A C G L L H S K L L V G E D Q Q I L S Q I K E A Y D N S L N V K G L H
UniRef90_I4EX30 A V E H V F A V A C C G L L D S S M A V G E D Q Q I T A Q Q V R R A A R A A E A R T S G G
UniRef90_V5A6X4 S L R H L M R V V A A G L L E S S L V L V G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_UPI000362D2A1 S L R H L M R V V A A G L L E S S L V L V G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_UPI00036CB660 V V E H L F F A V A S S G L L S V S V G E G E I T G G Q V R R A S I D A R A S G S R S V G
UniRef90_UPI0003192A3A A Q E H L F L L A A G L L D S S M A L G E T Q I L G G Q L R R A S I D A R A S G S R S V G
UniRef90_UPI0001B439ED A V N H L Y K V T A G L L D S S L V L G E T Q I L G G Q V K H A F E I A K Q T A T T G
UniRef90_UPI00035E9D91 A L R H L F A V A A S L L D S S L V V G E P Q I L G G Q V K D C V R R A Q A L E L L D
UniRef90_UPI0003AAD5D6 A L D Y L F K L S C G F S I I K G E D Q Q I L A Q I V K I A Y S E A L E N K H S S
UniRef90_M0H4P6 S L R H L M R V V A S A G L L E S S L V L V G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_K2L1C5 A L R H V F A V A A S L L D S S L V I V G E P E I V L G G Q V K N D A H R L A R Q H Q L V G
UniRef90_UPI00042A4666 A Y R H L F R L A S C G Y H S R I V G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_U1QZB1 T I R H L M R V V T S G L L E S S L V L V G E D Q Q I L G G Q Q V L K N A Y K L S F D N K L C G
UniRef90_M9SIQ8 C I K H L F T V C S G L L D S S L V V G E D Q Q I Q H Q T R R D A F M K A K E G H V V G
UniRef90_U2HGB6 A L N H L F R M S C S G L L D S S L V V G E K E I L A Q Q V R R A Y E K C K E A G F T G
UniRef90_T1BEJ6 S V Q H L F R V A S S G L L D S S Q L L G E R E V L A G Q V V R D A Y R A A R K R A G E T V G
UniRef90_H8FR30 A V R H H G F T V A S S L L D S S L V I V G E T H Q I V G G Q Q K A A H R L F A R E A G T V G
UniRef90_A0RNT0 A I H H L F A V A S S L L D S S L V V G E T H Q I V G G Q Q K E A F R K F A Y R E N E D C G
UniRef90_M1XLB2 S F R H L F M S V A C G L L E S S L V L V G E D Q Q I L G G Q Q V L R D A Y E D A R G A G A I G
UniRef90_A8MAH6 A V R H L F R V V A A G L L E S S A V L G E S E I L G G Q V F K D A F N D A R K R N G A L G
UniRef90_UPI00036410B7 A L I H M C K V A S S G I L D S S Q V L G E Q E I L G G Q V F K K A R I R J A K N N N I A K
UniRef90_R6YKL7 A V K H L Y Q V C G L L E S S A V L G E V E I L R Q V K L A Y E S A K T R Q M T D
UniRef90_T0LUG8 A V S H L F R V A S S G L L S M S L G E H E I L A Q Q S S Y E K Y S K M N R T D
UniRef90_U1PP83 S L R H L L R V V A T G L L E S S L V L V G E D Q Q I L G G Q Q F K R A V E I A R G I G A L G
UniRef90_A4WN38 A A R H L F R V V A A G L L E S S M L L G E T D I L G G Q Q L E E A Y D R Q V R A G F T R
UniRef90_UPI00035E0FE9 V A E H L F S V A S S G L L E S S V V S G E G E I A G G Q V L R R A A L K S A R K D G T T S
UniRef90_A3MW83 A A R H L F R V V A A G L L E S S M L I G E T D V L G G Q L E E A Y E S Q V R R G N L R
UniRef90_H6SJI8 A V S H L F R V V A S S L L E S S Q V I G E P H V L G G Q V K A A H R L A R D A G T I A G
UniRef90_B9DZF9 A I K H L M E V S C C G F H S K I L G E D Q Q I L G G Q Q V L K T A Y D A A L E A K T I K S
UniRef90_R6U8S7 A V K R L Y S V S C C G L L E S S A V I G E D Q Q I L G G Q V R R A Y D L S R E I G L S
UniRef90_V4JX10 A A R H L L R V V A A G L L E S S Q I V G E D E V L G G Q V R E A W L E A R R A G L T S
UniRef90_F8AN31 A I I H L L R T A S S G L L E S S M L I G E T D I L G G Q V K E S H Y N A K K I G K T T
UniRef90_Q8ZYV6 A A R H L F R V V A A G L L E S S M L I G E T D I L G G Q V E E A F D R Q V K L A G F T K
UniRef90_K1MXR5 A L N H L F R V V A G G L L E S S Q I L G D F E I L G G Q I K E A Y N R F K K E K K S N
UniRef90_UPI000478C411 A L H H F F A V T A A L L E S S V V V G E P H V L G G Q V K E S H R T S E A L G T T S G
UniRef90_UPI00034DAEF4 V A E H L F S V A S S G L L E S S Q V V G E G E I A G G Q V R R A L T E S R Q L G T T S
UniRef90_C9DDF6 A V R H L F R V A C G L L D S S M I I G E P Q I L G G Q V K D A Y Q A A D N G A A G
UniRef90_A1RQP7 A A R H L F R V V A A G L L S S M I V G E T D V L G G Q L E E A A F D R Q V R A G Y T R
UniRef90_UPI0003759512 T V R H L L E V S S S G L L A S S I V G D A E I H Q I K K A H Q L A I A N H L Q
UniRef90_UPI0004019BB1 A L N H L L R I S C S L L E S S L V V G E K E I L A Q V R K A Y T T C K D A G F T G
UniRef90_U2K5C6 A V Q H I M E V A C C G L L D S S Q I L H E E Q I V T Q V H A V E L A R A C R S T D
UniRef90_C7NCC5 A V D Y L L R V I C C G L L H S S I I K G E D Q Q I L V Q L K A Y F D A D K N I T S
UniRef90_J9HBV8 A V A H A M R V A C G L L D S S I V V G E T Q I L G Q M R E A F Q T A F E A G N T G
UniRef90_S6VIU8 A V T E H L F A V A S S G L D A M V V G E R E I A G Q V K R S L A I A R E A G T V G
UniRef90_UPI00036D2775 V T E H L F A V A S S G L D A M V V G E R E I A G Q V K R S L A I A R E A G T V G
UniRef90_X0VZM8 C V G H I F R V V A S S L D S S M V V G E P Q I L G G Q V K E A F G C A
UniRef90_A5TVZ1 A I K Y L F K V S C S G F Y S V I K G E D Q Q I L A Q Q V K G A Y A E A L E N E H S S
UniRef90_J1FBY6 A I Y H L F K V S V S L H S L V I G E T Q I V G Q I K D A F Y K A F E G G F V G
UniRef90_W6N2K6 A V K H L L E V S C G F H S K I L I G E D Q Q I L G G Q I K D S Y L S G L K A R T I K
UniRef90_UPI00036C1D5C A V R R L F R I A A G L L S A L H G E V H I L G G Q L K R A W E K A H Q N G T T D
UniRef90_D1C0P5 V P E H L F S V A S S G L L D S S M V I G E R E I A G Q V K R A L E V A R D E G T T S
UniRef90_F4C4V6 A L H H L F R M S C S L L E S S L V V G E K E I L A Q V R R A Y E R C R K G G L T G
UniRef90_R6DGP3 A L R H L L Y R V I C C G L L D S S A V L G E V E I H Q I K A A Y L F S K A H D M L D
UniRef90_R9GUA7 A F N H L L R I S C S G L L E S S L V V G E K E I L S Q V R K A Y E Q C R E A G F T G
UniRef90_UPI00036F1A6A A M V H M A K V A S S G I D S S Q I L G E Q E I L G Q Q F K S A M Q V A I D S N I L K
UniRef90_UPI00036AE1A9 V V R H A F E V A S S G L L D S S L A I G E Y E I L R Q Q M K E A L E S S K K A G L T S G
UniRef90_A5CNH4 V A E H L F A V A S S G L L E S S V V V G E G E I A G Q V R R A L E S S G A R T G T T S
UniRef90_UPI0004117D44 A L N H L M R V S S S L L E S S L V V G E K E I L A Q Q V R K A Y E S C K E K G F T G
UniRef90_H1DB62 A L L H L A K V C G F F S V I K G E D Q Q I L S Q M K H A Y T K A L E E K H S S
UniRef90_I5BY31 A I Q H L F R V S M G L L E A Q V V G D M Q I A N Q V R A Y Q A S A D L D M A G
UniRef90_S0ATW0 S V K H L F M V S M G L L E S S M A I G E N D I L R Q I K S S F D I A S K R G K L D
UniRef90_UPI0003B57E7D V A G H L F S V A S S G L L E S S V V V G E G E I A G Q V R R S L E T A R A Q E G T T T
UniRef90_F8A7Q9 S A A H L F A V A S S G L L E S S M V V G E R E I A G Q V R R A L S T A R Q D G T T T
UniRef90_C3MZS1 S I K H L F L V A S S G A D S L S I G E Y E I L S Q I R S T I D M F K K L G F S G

UniRef90_I2FB98 K D M T R L M H F A F K C A A N V R Q E T D I
UniRef90_M0CSG7 R L L E E G V T K A I H V G G R R A R T E T A I
UniRef90_UPI000362F69E K Y L D N I L L K S I H V G G Q E A R R K E T K I
UniRef90_A6LKW9 K I L N K L F N E A V S L V G G K E A R T K T G I
UniRef90_L9VVM5 E M L E A A V T K A I H V G G E R A R T E T E I
UniRef90_U1QQR0 P L L E D T L M K A V S L V G G E R A R T E T G I
UniRef90_D6E8W8 K M V N V W F Q R A L S L V G G K K V R S E T R I
UniRef90_J2ZFD7 E M L D D T L T K A L H V G G E R A R T E T E I
UniRef90_E4TCL3 S Y M E R A I N Y A L Q I S K K I K N Q T G I
UniRef90_G7Z6J7 P E L E A V L Q A A Y A A A K R V R S E T P I
UniRef90_M0P9F1 P V L K D A V T K A L H V G G E R A R N E T S I
UniRef90_W0K0U2 T V L R Q A V T K A I H V G G E R A R T E T T I
UniRef90_E1IDF6 P V L H R L F Q H A L T A G K R V R H E T A L
UniRef90_L9Y1F8 S M L E A A V T K A I H V G G E R A R T E T A I
UniRef90_P42809 P L L D M V F T K A V H V G G Q T V R R K T K I
UniRef90_M5TVG2 P V T H A A F Q A A N R A A K R V Q T E T T I
UniRef90_H1ANG1 K E L S L I F Q E T L N F V K K M K
UniRef90_R5VRP0 G E L N I A F Q
UniRef90_U7VC43 S N I N V I F N K A I E L G K K F R N K S K I
UniRef90_V4X4I5 P V L E D A V T K A L H V G G E R A R T E T S I
UniRef90_R6V0E6 K Q L H R M F Q S C F A A V K Q L K T A Y K I
UniRef90_C9RIA9 K R L E K I I L K A I H T G Q R A R L E T K I
UniRef90_R7FF52 A V L D T L F R T A V S A G K E A L T Q V A V
UniRef90_V4H9N8 P V L E E A V M K A V H V G G E R A R S E T A I
UniRef90_E2SJN7 K Q L H R I F Q S C F A A V K Q L K A T Y K I
UniRef90_H6RFQ6 T Y L E R L M N L V L Q A S K D V K N N T K L
UniRef90_A3CU63 S A I G L C I K K A V T A G V R V R R Q T Q I
UniRef90_UPI0002629A91 H H L E R L F Q T A T R T S R T V K H R T E I
UniRef90_U2MYC3 G N L Q R L F Q E A I T C G K E F R N E A K L
UniRef90_I4EX30 P V L T G L L D A A L R V S K R A R T Q T T I
UniRef90_V5A6X4 R V L E D S V T K A I H V G G S R A R T E T T I
UniRef90_UPI000362D2A1 P V L E E A V T K A I H V G G E R A R N E T A I
UniRef90_UPI00036CB660 T E L E R L F Q Q A M V V S K R I K H R T G L
UniRef90_UPI0003192A3A G E L S E A L Q S A L E V G K R V H S E T K
UniRef90_UPI0001B439ED T L L N K L F R E V V T F A K K V H H H T K I
UniRef90_UPI00035E9D91 P L L D G I I Q A S L A A A K R V R T E T T I
UniRef90_UPI0003AAD5D6 K L I N I I F N K A V E L G K K F R T E S N I
UniRef90_M0H4P6 P M L E D A L L K A V H V G G E R A R S E T A I
UniRef90_K2L1C5 G E L E L V Y Q T A Y A I S K K V R S R T G I
UniRef90_UPI00042A4666 R E L G R L F Q E G I T C G K K F R T E A K L
UniRef90_U1QZB1 G A L E A I L T K A L H V G G E R A R T E T A I
UniRef90_M9SIQ8 K S L Y A L F N N A I V G K R V R T E T E L
UniRef90_U2HGB6 D F L R L M M D R L V K T A K E V Y T H T N I
UniRef90_T1BEJ6 A A I G R L F E R A I H V G R T L R Q E T G L
UniRef90_H8FR30 G H L D A F V Q A A F A V A K R V R T E T A V
UniRef90_A0RNT0 V N I S S A M H F A F K C A A E V R A L T T I
UniRef90_M1XLB2 P T L D D A I L K A I H V G G E R A R S E T A I
UniRef90_A8MAH6 G K L G F T I E R A I R T G K E I R S
UniRef90_UPI00036410B7 P K L L T Y T K K V I E I V K K V R T K T S I
UniRef90_R6YKL7 G D L N V I F Q S A L Q L A K E I
UniRef90_T0LUG8 K L I S L I F R K A I S T G K L A R E N T S I
UniRef90_U1PP83 P M L D A G V T K A I H V G G E R A R N E T S I
UniRef90_A4WN38 G L L K T V V E R A V R V G K K V R T E T G I
UniRef90_UPI00035E0FE9 P E L E R L F Q R A S Q A Q R K V K N V T A L
UniRef90_A3MW83 G L L K T V V E R A V A V G K R V R T E T G I
UniRef90_H6SJY8 S A L E A L L Q A A Y T T A K R A R A E T
UniRef90_B9DZF9 G K L Q R L F Q K A I T C G K E F K
UniRef90_R6U8S7 S E V N M I F Q G A I A C A K K I K T E T E L
UniRef90_V4JX10 E L L D A V F H S A I S A G A R A R R E T R I
UniRef90_F8AN31 K Y L D T I E L K A I H V G G Q M V R R K T K I
UniRef90_Q8ZYV6 G L L K T L V E R A I R A G K R V R A E T G I
UniRef90_K1MXR5 P Y L E R A I N S A I Q I S K K I K N Q T A L
UniRef90_UPI000478C411 P R L D R V M Q A A Y R L A K R V R S E T S L
UniRef90_UPI00034DAEF4 G E L E R L F Q R A S E A Q R G V K N A T A I
UniRef90_C9DDF6 P V L N R L L H W A F R V A K R V R S E T A I
UniRef90_A1RQP7 G L L K T L V E R A V R V G K R V R T E T A I
UniRef90_UPI0003759512 S L L E R A M Q T V F K T H K R I S N E T E
UniRef90_UPI0004019BB1 D Y L R L T M N R V V K T A K E V Y T H T N I
UniRef90_U2K5C6 G V L D T L F R T A V S A G K E A Q T Q
UniRef90_C7NCC5 S F L N I M F N Q A I E T G K R F R A E S K I
UniRef90_J9HBV8 A M F N R M F R E V L H V G K R A Q S E T
UniRef90_S6VIU8 P L L G R L F Q A T F N A A K Q V R T D T A I
UniRef90_UPI00036D2775 K T L E L L F Q T A S R T S K R V G T E T E L
UniRef90_X0VZM8
UniRef90_A5TVZ1 K F L N I I F N K A I E L G K K F R T K S M I
UniRef90_J1FBY6 Q K I S R A I H Y S F R C S A E V R Q Q T A I
UniRef90_W6N2K6 G R L Q R L F Q Y A I T C G K E F K N
UniRef90_UPI00036C1D5C K L L N V L F Q D A L R V G K K V
UniRef90_D1C0P5 K T L E L L F Q T A S R T S K R V G A S T E L
UniRef90_F4C4V6 D F M R L M M N S L V K T A K E V Y T H T M I
UniRef90_R6DGP3 P T L H L I F Q G A L H L A K E I A S Q Y Q L
UniRef90_R9GUA7 D Y L R M L M S Q V V K T A K Q V Y T D N I
UniRef90_UPI00036F1A6A G L L J A Y S Q K V L K I V K R A R T N T Q I
UniRef90_UPI00036AE1A9 P N L E F L I T E A I K V G R V R I A T G I
UniRef90_A5CNH4 T G L E R L F Q T A S N T S R G V K T R T G L
UniRef90_UPI0004117D44 D F M R L I M N R V V K T A K E V Y T Y T N I
UniRef90_H1DB62 K L E N I I F Q K I I T L G K K F R T K S N I
UniRef90_I5BY31 P L L H R L M H A V F F T N K R V V Q E T A
UniRef90_S0ATW0 K F L S Y T F R K A L S V G K D V R T L T D I
UniRef90_UPI0003B57E7D P E L E R L F Q R A S Q T S R R V K N Q T G V
UniRef90_F8A7Q9 G A L E Q L F Q A A S R V S R R V E A A T G L
UniRef90_C3MZS1 K Y L Q I L F E R A I K V G R K V R E E T S I

UniRef90_D9PZM3
UniRef90_H1CIG8
UniRef90_UPI0002E7AEA3
UniRef90_F4H674
UniRef90_C6XST1
UniRef90_UPI00046EEAF5
UniRef90_UPI000365447C
UniRef90_H2C686
UniRef90_F4GHW6
UniRef90_F8L3F5
UniRef90_F4G173
UniRef90_UPI0003786890
UniRef90_A1S137
UniRef90_M4YLY0
UniRef90_J0LDH4
UniRef90_UPI0003B7632D
UniRef90_UPI00047CE703
UniRef90_UPI0003622B51
UniRef90_N6VXR8
UniRef90_E1VXL8
UniRef90_Q9PLR2
UniRef90_UPI00029B2CDB
UniRef90_UPI00047CEFD4
UniRef90_U1YX10
UniRef90_D2Z8E9
UniRef90_F2L4T2
UniRef90_M2X8T2
UniRef90_F4L215
UniRef90_UPI00047AB692
UniRef90_C6WZ2F4
UniRef90_I0R383
UniRef90_L0JPI4
UniRef90_D5UCS3
UniRef90_UPI00035E66CE
UniRef90_S2ZFC3
UniRef90_UPI00026C6B2D
UniRef90_UPI0002631FF2
UniRef90_X0SJ07
UniRef90_UPI0003687F06
UniRef90_D7BDK1
UniRef90_F2CYK5
UniRef90_UPI0004681E6F
UniRef90_M7MTB7
UniRef90_W9HAS7
UniRef90_UPI00047E563C
UniRef90_C1AAM6
UniRef90_B8HBS2
UniRef90_D6ZJZ8
UniRef90_C5CB93
UniRef90_M0L2L5
UniRef90_R6BGA1
UniRef90_U2X5C3
UniRef90_S3XED1
UniRef90_A0A031FTF9
UniRef90_H0QS23
UniRef90_W8K1H5
UniRef90_UPI000367D661
UniRef90_E0RN86
UniRef90_Q5L782
UniRef90_C7MGZ9
UniRef90_U1FCE4
UniRef90_G8QR81
UniRef90_UPI000407EFC0
UniRef90_M0ZTX8
UniRef90_Q93A66
UniRef90_UPI000478AC71
UniRef90_UPI000255D7A1
UniRef90_Z9JQC1
UniRef90_C7M2H4
UniRef90_A0A010NRN6
UniRef90_D8DTU8
UniRef90_S3Y718
UniRef90_H8KS50
UniRef90_D1B7N3
UniRef90_C5C5B0
UniRef90_K2AKD0
UniRef90_T1DCZ4
UniRef90_UPI00042A17EE
UniRef90_UPI00037DB7B2
UniRef90_F9ECK4
UniRef90_UPI000364F470
UniRef90_D7CY08
UniRef90_J2ZJW2
UniRef90_D2NS30
UniRef90_E3CWT3
UniRef90_A0A011QWG1
UniRef90_T1ABW0
UniRef90_J0NPF7
UniRef90_UPI0002F5E6C6
UniRef90_UPI000310CA08
UniRef90_F2UY48
UniRef90_K4AYS5

1 10 20 30 40 R

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

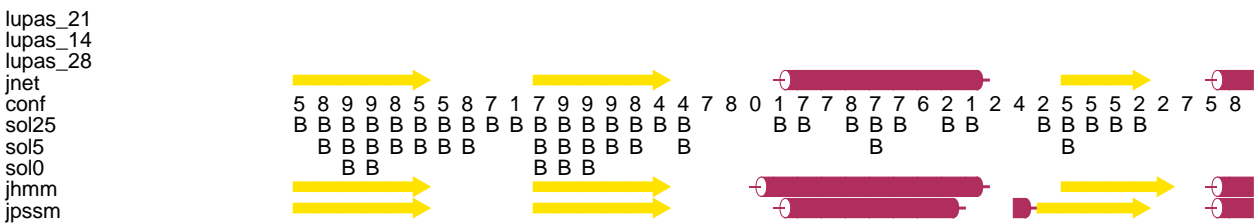
UniRef90_D9PZM3
UniRef90_H1CIG8
UniRef90_UPI0002E7AEA3
UniRef90_F4H674
UniRef90_C6XST1
UniRef90_UPI00046EEAF5
UniRef90_UPI000365447C
UniRef90_H2C686
UniRef90_F4GHW6
UniRef90_F8L3F5
UniRef90_F4G173
UniRef90_UPI0003786890
UniRef90_A1S137
UniRef90_M4YLY0
UniRef90_J0LDH4
UniRef90_UPI0003B7632D
UniRef90_UPI00047CE703
UniRef90_UPI0003622B51
UniRef90_N6VXR8
UniRef90_E1VXL8
UniRef90_Q9PLR2
UniRef90_UPI00029B2CDB
UniRef90_UPI00047CEFD4
UniRef90_U1YX10
UniRef90_D2Z8E9
UniRef90_F2L4T2
UniRef90_M2X8T2
UniRef90_F4L215
UniRef90_UPI00047AB692
UniRef90_C6WZ2F4
UniRef90_I0R383
UniRef90_L0JPI4
UniRef90_D5UCS3
UniRef90_UPI00035E66CE
UniRef90_S2ZFC3
UniRef90_UPI00026C6B2D
UniRef90_UPI0002631FF2
UniRef90_X0SJ07
UniRef90_UPI0003687F06
UniRef90_D7BDK1
UniRef90_F2CYK5
UniRef90_UPI0004681E6F
UniRef90_M7MTB7
UniRef90_W9HAS7
UniRef90_UPI00047E563C
UniRef90_C1AAM6
UniRef90_B8HBS2
UniRef90_D6ZJZ8
UniRef90_C5CB93
UniRef90_M0L2L5
UniRef90_R6BGA1
UniRef90_U2X5C3
UniRef90_S3XED1
UniRef90_A0A031FTF9
UniRef90_H0QS23
UniRef90_W8K1H5
UniRef90_UPI000367D661
UniRef90_E0RN86
UniRef90_Q5L782
UniRef90_C7MGZ9
UniRef90_U1FCE4
UniRef90_G8QR81
UniRef90_UPI000407EFC0
UniRef90_M0ZTX8
UniRef90_Q93A66
UniRef90_UPI000478AC71
UniRef90_UPI000255D7A1
UniRef90_Z9JQC1
UniRef90_C7M2H4
UniRef90_A0A010NRN6
UniRef90_D8DTU8
UniRef90_S3Y718
UniRef90_H8KS50
UniRef90_D1B7N3
UniRef90_C5C5B0
UniRef90_K2AKD0
UniRef90_T1DCZ4
UniRef90_UPI00042A17EE
UniRef90_UPI00037DB7B2
UniRef90_F9ECK4
UniRef90_UPI000364F470
UniRef90_D7CY08
UniRef90_J2ZJW2
UniRef90_D2NS30
UniRef90_E3CWT3
UniRef90_A0A011QWG1
UniRef90_T1ABW0
UniRef90_J0NPF7
UniRef90_UPI0002F5E6C6
UniRef90_UPI000310CA08
UniRef90_F2UY48
UniRef90_K4AYS5

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

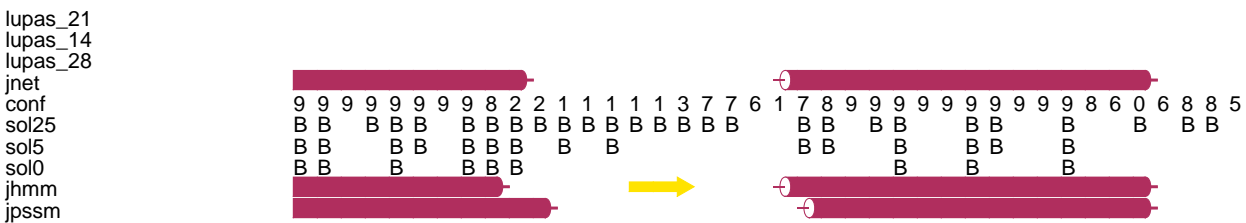
	90	100	110	120
UniRef90_D9PZM3	A A R H L L R V A S G G L E R S A Q I W G E D D Q Q V L G Q Q V R D A W V Y S R R A G Y S S			
UniRef90_H1CIG8	A A R H L M E V V A S G G L L R S Q I W G E D D Q Q V L G Q Q V R D A W V Y S R R A G Y S S			
UniRef90_UPI0002E7AEA3	A A S H L F F E V A S C G G F H S K I L G G E D D Q Q V L G Q Q V R D A W V Y S R R A G Y S S			
UniRef90_F4H674	A A G E H L F A V V A S S G L E S S M V V G G E R E R E I A G Q Q V L G Q Q V R D A W V Y S R R A G Y S S			
UniRef90_C6XST1	A F N H L L R T V S C S G L E S S L V V G G E K E I L A G Q Q V L G Q Q V R D A W V Y S R R A G Y S S			
UniRef90_UPI00046EEAF5	T L Q Q Y L L L V V S G L G L D R S S Q I V G D D R F Q I I S G Q Q V L G Q Q V R D A W V Y S R R A G Y S S			
UniRef90_UPI000365447C	T L I S Q H L L L V V S G L G L D R S S Q I V G D D R F Q I I S G Q Q V L G Q Q V R D A W V Y S R R A G Y S S			
UniRef90_H2C686	V V R H I L F E V A S G L D S S L S V G E Y E I L S Q Q I K E A M M S S I K L G L G S			
UniRef90_F4GHW6	V V P Y L F F E V A S G M D S S A L V G E T T D I L P Q Q V I H S L D I A R A T K R G A A D			
UniRef90_F8L3F5	C F L H L G R V L A S G M D S S L I F G E T D I Q R Q V K V S Y E S A R I K R R L T			
UniRef90_F4G173	A I T H L F E V A S G I D D A M V V G E Y E I L K Q Q I K D S M K E A T K L G L A S			
UniRef90_UPI0003786890	A V Q H L L R V T A A G L D D A M V V G E D E I L G Q Q V R R A A L A T A D T H T T			
UniRef90_A1S137	A V Q H L L R V T A A G L D D A M V V G E S D I L G Q Q V R R A A L A T A D T H T T			
UniRef90_M4YLY0	C I K H L F T V I C G I D S L I V G E D D Q Q H Q Q I K E S F E Q A R K E G H V K			
UniRef90_J0LDH4	T L Y Y L L E V V G L G L R S R V L G D R G E I L G Q Q V K R R A Y T L T N D K L G L S			
UniRef90_UPI0003B7632D	V A E H L F S V V S S G L D S S V V V G G E R E I A G Q Q V R R A Y T L T N D K L G L S			
UniRef90_UPI00047CE703	V S R H L F S V V S S G L D S S V V V G G E R E I A G Q Q V R R A L I E A Q E T G T A S			
UniRef90_UPI0003622B51	V A E H L F A V T A S G L E S S V V V G G E I A G Q Q V R R A L E S A R R D G S V T			
UniRef90_N6VXR8	A I L H L F R L A A G L E S S M I V G E V Q I L G Q I K D A F L K R A N G I K D			
UniRef90_E1VXL8	V I E H L F S V G A G L D S S A V V G E R E I A G Q Q V R R A L T Q A Q Q E K T T T			
UniRef90_Q9PLR2	C F S H L F C V V G G M D S S L V L V G E T E I Q Q G Q V K R A Y L Q A I E E Q K L A			
UniRef90_UPI00029B2CDB	A L R H L L R V V A S G M D S S V I V G E A Q I V G Q Q L K Q A F			
UniRef90_UPI00047CEFD4	V V E H L F S V T A G L E S S R V V G E A D V Q A Q Q V R R A Y R V A Q S V G M T G			
UniRef90_U1YX10	V A E H L F A V A S G L D S S M V V G E R E I A G Q Q V R R A L E T A S H A D G V T S			
UniRef90_D2Z8E9	V V E H L L R V L L G L E S S M A C G E S F F V L G Q Q V K K E Y D R Y S P L C			
UniRef90_F2L4T2	A A L H L L E V A A G L D S S M L I V G E T D I L G Q Q V L E E A Y D S Q V K A H I A R S			
UniRef90_M2X8T2	A A H H L F T V S A S G L D S S A V V G G E R E I T G Q Q V R R A L I D A Q R G G T A S			
UniRef90_F4L215	A L E H Y F T V S A S M D S S M V I G E R Q I L G Q Q L R R D A Y D Q C K D W N L I G			
UniRef90_UPI00047AB692	A V R H L F T V A A S M K S A R F G E P E I L G Q Q I R R A W M L Q S A G T S R N			
UniRef90_C6WZ4	A L N H L F R V A A G L D S S Q I T G D F E I L G Q Q V K R N A Y H R F K K V K R A N A			
UniRef90_I0R383	L S Q H L F R V T S G L E S S M I V G E S E V T G Q Q V R R A L S R A Q L S G P L A			
UniRef90_L0JP14	V A E H L F R V A C G L E S S A V I G E A H V L G Q Q V R R T F D A L E A D L A G			
UniRef90_D5UCS3	A G E H L F A V A S G L E S S M V V G E R E I A G Q Q V R R A L T T A R R D G T T T			
UniRef90_UPI00035E66CE	L L H Y I F R V S A S G L E S S Q I L G D A Q I L S Q Q K A A Y Q L S Q S T A T A G			
UniRef90_S2ZFC3	G L V D L F A T A S G L E S S M V I G E R E I A G Q Q M R R A A R T A W E D G T L S			
UniRef90_UPI00026C6B2D	V V Q H L F F E V T A S G L R S S I V M G E A E I S G Q Q V K R A Y E A A R R A G H T			
UniRef90_UPI0002631FF2	A V G H L L S R L A A S G L D S S P I L G E D E I L G Q Q L R R A L E A A D E A G L V D			
UniRef90_X0SJ07	A A R H L F G V A A S L D S S L V I G E A Q I L G Q Q V K E A F A E S R S A G L V G			
UniRef90_UPI0003687F06	A V M H L L R V A A S G L D S S L V L G E G Q I L A Q Q V K S N T H K L G Q Q Y N G I K			
UniRef90_D7BDK1	A F E Q L C R V A A S L D S S L V L P G E D Q I M N Q V S A F E A A R S K N G T V G			
UniRef90_F2CYK5	A T R H L F E V S S G L D S S L V L G E G Q I L A Q Q V K Q V V R S G Q N S G G V L G			
UniRef90_UPI0004681E6F	A A E H L F A V A S G L D S S A I L G E E E I A G Q Q V R R A H T A A R T A R T M T			
UniRef90_M7MTB7	A I E H L F S V A A S G L D S S A V I G E R E I A G Q Q V R R A L N E A Q A A G T A T			
UniRef90_W9HAS7	A V R H L F A V A C S L D S S Q V V G E P H V L G Q Q V K T A H R A S V A A H A S G			
UniRef90_UPI00047E563C	V A E H L F A V A S A G L D S S A V V G E R E I A G Q Q V R R A L I D A Q S T A G A A S			
UniRef90_C1AAM6	A L R H L F S V A S G M D S S A R Y G E P E I L G Q Q V R R A W T A A C E A G T A C			
UniRef90_B8HBS2	V T R H L F A V A S A G L D S S A V V G E R E I A G Q Q V R R A L I T A Q D H E G T A S			
UniRef90_D6ZJZ8	V A E H L Y F R V A S G L D S S M V V G E A E I A G Q Q V R R S F T R A Q D L G E V H			
UniRef90_C5CB93	T A R H L F F E V G V G L D S S A V V G E R E I A G Q Q V R R A L T A Q D A G E T A S			
UniRef90_M0L2L5	A V A H L A R L A A G L E S S P I L G E D E I L G Q Q L R R A L E D A D E A G L V D			
UniRef90_R6BGA1	V A R H L F R V V A G L E S S A I I G E R A V A G Q Q V K E A Y Y T A K D Q R P L T			
UniRef90_U2X5C3	V A H H L F S V A S G L D S S V A V G E R A V A G Q Q V R R A L D D A R R G G L T T			
UniRef90_S3XED1	A V I T H L F E V S C G L D S S M V I G E N E I V G Q Q V R R A A L I G T S S			
UniRef90_A0A031FTF9	V A H H L F T V A S G L D S S V A V G E D E I A G Q Q V R R A L E A A R G R G L T T			
UniRef90_H0QS23	V S Q H L F A V S S G L D S S A V V G E R E I A G Q Q V R R A L I T A A Q Q E G T A S			
UniRef90_W8K1H5	C F R H L F T V T S G M D S S L I F G E T E I Q G Q V K R A Y M K A K A E R D L P			
UniRef90_UPI000367D661	A V Y H L F E V V G A G M D S S L V V G E R Q I L G Q Q F K D A Y E Q S R N W G L I G			
UniRef90_E0RN86	A F F H L C R V V A G M D S S V V V P G D T E I V S Q Q F K A A W R Q V A E G T V G			
UniRef90_Q5L782	C F T H L F T V T S G M D S S L I S G E T E I Q G Q V K R A Y I K A K T D R D L P			
UniRef90_C7MGZ9	V T Q H L Y F V T S G L R S L V L G E A E I A G Q Q V R R Q S Y E S A R R E G R T T			
UniRef90_U1FCE4	A V W R V F R V A A G L E S S M V V G E R E I A G Q Q M K R A L N E A R K E Q T V S			
UniRef90_G8QR81	C V T Y L Y E L A C G L H S P L F G E D Q I I S Q I L R E A I E R S R L C G C T S			
UniRef90_UPI000407EFC0	A L T H W L R V A A G L D S S M I L G E P Q I L G Q I K Q A V H L J A Q N E K V L N			
UniRef90_M0ZTX8	A T Q H L F E V A A G L D S S L V L G E G Q I L A Q V K Q V V K N G A Q G V P G F G			
UniRef90_Q93A66	A L E H L A R V A A S L D S S V N P G E D Q I M Q Q V R A A F E A A S A A G T V G			
UniRef90_UPI000478AC71	V P R H L F S V A S G L D S S A V V G E R E I A G Q Q V R R A L I E S Q G V G T A S			
UniRef90_UPI000255D7A1	A V G H L F F E V G A G L D S S A V V G E R E I A G Q Q V R R K S L A E A Q E A G T V N			
UniRef90_Z9JQC1	V T H H L F E V T S G L R S L V I G E A E I G G Q V R S D F E A A R A E G L T T			
UniRef90_C7M2H4	A L R H L Y F R V S A G M E S V I I G E S E I V A Q Q V K D A L A R A Q R R L A G A			
UniRef90_A0A010NRN6	A V S H L F F E V G A G L D S S A V I G E R E I A G Q Q V R R K S L A D A Q H A G T I S			
UniRef90_D8DTU8	R H L F R V V S G L E S S A I V G E R A V Q G Q V K E A Y L K A R N D H H L P			
UniRef90_S3Y718	A A R H M Y E V A A G M S Q V L G E A E I T G Q V R A S F T N A L J A A G H T T			
UniRef90_H8KS50	A L E H L M R I S C S L E S L V V G E K E I L A Q I R E M Y E C R D W G L T T G			
UniRef90_D1B7N3	A A M H L T R V L L G L E S S F A V G E F H I V N Q V K R A C Y R E Q H A S C G			
UniRef90_C5C5B0	A A R H L F G V A S G L D S S I V V G E R E I A G Q Q V R R A L A A R R A S T T T			
UniRef90_K2AKD0	A V R H L F S V A S G F F E S E D I V L G Q I K R D S Y K R C R E A S I A G			
UniRef90_T1DCZ4	A I K H L F S V A S G L E S S M S V G E Q E I L R Q Q L K E A Y E E S I K I G			
UniRef90_UPI00042A17EE	A W V H L L A M S A G L D S S A N L G D R E I P G Q Q M K D A L A Q A R Q V G V A G			
UniRef90_UPI00037DB7B2	A G E H L F S V A A G L D S S A V V G E R E I A G Q Q V R R A L I E A Q A S A V A P			
UniRef90_F9ECK4	A H L E L F A T A A G L T S M V V G E R E I A G Q Q L R R A L T S A T A E G T A T T			
UniRef90_UPI000364F470	V P E Y L F S V S A S G L D S S V A V G E G E I S G Q Q V R R S L Q R A R Q R L T T			
UniRef90_D7CY08	A L E Q L T R I A A S L D S S L N P G E D Q I M A Q Q V R S A F A A Q A A G S T G			
UniRef90_J2ZJW2	G L V D L F A T A S G L E S S M V V G E R E I A G Q Q M R R A A R T A W E D G T L S			
UniRef90_D2NS30	A A R H L L T V A S G L E S S A V V G E R E I T G Q Q V R R A A L A A Q A K Q L P			
UniRef90_E3CWT3	V V R H L L R V L L G L E S S F A V G E S H V V R Q V R D A Y E G C A T C G			
UniRef90_A0A011QWG1	V V R H L L D L S S N L N V S E H Q T D E T V D V I D D A L S A A L K N H T A K			
UniRef90_T1ABW0	A V R H L F A V A S G L E S S L A V G E R E I V R Q Q V R R A I L G T V Q S R H P V R			
UniRef90_J0NPF7	A Y R E L F A J A A G L E S S M V V G E R E I A G Q Q L R R A L I L A T A E G T V T			
UniRef90_UPI0002F5E6C6	A Y R E L T A T A A G L R S M V V G E R E I A G Q Q L R R S L V R A T A E G T T S			
UniRef90_UPI000310CA08	A W L H L L S I A A S G L E S S A N V G D R E I P G Q I R T A L D T A L D A G T A G			
UniRef90_F2UY48	A R R E M L J A A A G L E S S M V V G E A Q I V G Q Q V R R A A E A A A E G T L S			
UniRef90_K4AYS5	A T Q H L F E V A A G L D S S L V L G E			

UniRef90_D9PZM3 E L L D T V F H S A L S A G A R V R S S T N L
UniRef90_H1CIG8 G V L E I L F R N A A A A G K E I K T K
UniRef90_UPI0002E7AEA3 S D L M K L F Q L A I A G K E F K T T T
UniRef90_F4H674 G A L E S L F Q A A S R V S R A V E S E T G L
UniRef90_C6XST1 D Y M R M I M N R V V K T A K E V Y T H T N I
UniRef90_UPI00046EEAF5 T L L H Q A L Q T L F R T H K R V H N E T S
UniRef90_UPI000365447C K F L E R S M Q A T F R L N K K I S N E T A
UniRef90_H2C686 R H M R I L L E R A L K V G R V R I E T S I
UniRef90_F4GHW6 G V L E Q L F R Q A V T A A K E V H S
UniRef90_F8L3F5 P S L H Y M F Q K G L K I G K E I R T
UniRef90_F4G173 K H M R C L L E R S L K V G R K V R L E T G I
UniRef90_UPI0003786890 P A L R R L L F H A A L T T G K A V T S Q T E E
UniRef90_A1SI37 L E V Q R L V D A A V N T S R R V H R S T G
UniRef90_M4YLY0 K K L Y A L F C K A L V V G K R V R T E T D L
UniRef90_J0LDH4 P L L H Q A L Q T L F R A H K R V H N E T D
UniRef90_UPI0003B7632D G D L E R L F Q G A S R T S R G V K N S T G L
UniRef90_UPI00047CE703 G G L T R L F Q T A S K T A K D V G S R T G L
UniRef90_UPI0003622B51 S E L E R L F Q V A S R T S R G V K N R T G I
UniRef90_N6VXR8 K R F E K I M L K I I H T G Q R V R E E T E I
UniRef90_E1VXL8 S N L T R L F Q N A T R A A K D V G S N T D L
UniRef90_Q9PLR2 F A L H F L F Q K A L K E G K V F R T K
UniRef90_UPI00029B2CDB
UniRef90_UPI00047CEFD4 P L L D R L F P A A L R S A E R A H
UniRef90_U1YX10 S T L E L L F Q T A S R T S K K V S T Q T
UniRef90_D2Z8E9 R I L N R L F Q R S F N L A G I L R T E
UniRef90_F2L4T2 E P L R T V V E R A I R F G K M V R T R T N I
UniRef90_M2X8T2 G G L V R L F E E A A K T A R E S I Y S N T R I
UniRef90_F4L215 D N I R M A M D Q A V A V A R S I Y S N T R I
UniRef90_UPI00047AB692 G P I D G A F R Q A I D A A R H I R A D M G
UniRef90_C6WZ4 P F L E R A I N S A I Q I S K R I K N E T G I
UniRef90_I0R383 P S V Q Q L F Q T A L R V S K K V S Q T T G I
UniRef90_L0JPI4 G V V T R A A D A A S V S V G R R C R D E T D I
UniRef90_D5UCS3 S T L E A L F Q A A S R T S R A V I E K S T G L
UniRef90_UPI00035E66CE T F I H R L M Q M V F C A N K K I S Q E T A
UniRef90_S2ZFC3 C D L G R A A E R A S A T S R R V A T E T G L
UniRef90_UPI00026C6B2D S M L H D L F Q H G F R C A K S V A T Q
UniRef90_UPI0002631FF2 G V V G R A A E C G L R A G R A C R A E T G I
UniRef90_X0SJ07 S E L Q R L F Q S A F H V G K K V R R G T D I
UniRef90_UPI0003687F06 T L L N R L F K Q A I T A G K R V R T E T S
UniRef90_D7BDK1 P T T S L A F N L A L R I A K R V R R E
UniRef90_F2CYK5 K N I D R M F K D A I T A G K R V R S E T N I
UniRef90_UPI0004681E6F D R L E R V F Q T A T R T S R A V R E R T G V
UniRef90_M7MTB7 G S L V R L F Q A A S R T A K D V G S R T S L
UniRef90_W9HAS7 P E L E A V L Q A A Y A A A K R V R T E T A I
UniRef90_UPI00047E563C P G L V R L F Q T A S R T A K D V G A Q T
UniRef90_C1AAM6 G P I D A L F R Q S I D A A R H I R
UniRef90_B8HBS2 S G L V R L F Q A A S K T A K D V G A Q T A L
UniRef90_D6ZJZ8 G L M V R M F E G A L S T A R K V A S K T E L
UniRef90_C5CB93 G P L V R L F E S A T R T A K D V G S H T A L
UniRef90_M0L2L5 G V V G R A A E A G L R A G R A C R T E T G I
UniRef90_R6BGA1 A E L H R L F Q S A L Q V G K R V R N E T E I
UniRef90_U2X5C3 A P L E H L F Q R A T E T S R A V K N S T R I
UniRef90_S3XED1 P M L H R L F Q A A L S C S K R I S A G T
UniRef90_A0A031FTF9 A S L E H L F Q R A T E T S R A V K N T T R L
UniRef90_H0QS23 A G L V R L F Q A A S K T A K D V G A Q T A L
UniRef90_W8K1H5 S T L H F L F Q K A L K E G K G F R A Q
UniRef90_UPI000367D661 D D L R I V C D R I V L A S K D V Y N S T R I
UniRef90_E0RN86 P V L L N L C Q Q Q V L G V A K R I R S
UniRef90_Q5L782 F A L H F L F Q K A L K E G K D F R S Q V S L
UniRef90_C7MGZ9 S M L H D L F Q H A F R C A K S V A T Q
UniRef90_U1FCE4 Y I I G H V V E E A L K T S R H V A T E T A L
UniRef90_G8QR81 A V L E Q L F K S A V T L A K K V Q S
UniRef90_UPI000407EFC0 T E L G W I V D Q V F A A A K R V R N E T
UniRef90_M0ZTX8 R K L S E L F K R A I T T G K R V R T E T N I
UniRef90_Q93A66 P T T S F A F Q N A L R I A K R V R R E
UniRef90_UPI000478AC71 G G L V R L F Q A A S R T A R D V G A Q T A L
UniRef90_UPI000255D7A1 G T L T R L F E S A T R T A K D V G A R T A L
UniRef90_Z9JQC1 T L L N D L F Q L A F R Y A K R V A T E
UniRef90_C7M2H4 G E L T R V F D R A L E V A K D V R A S T E L
UniRef90_A0A010NRN6 G S L T K L F E T A S R T A K D V G T R T A L
UniRef90_D8DTU8 A G I H K L F E C A L E V G K R V R N E T E I
UniRef90_S3Y718 T L L N D L F Q G A L R T A K Q V T S K T K V
UniRef90_H8KS50 D S F R L I M N R V V K A S K E V Y T N T K I
UniRef90_D1B7N3 P V L H R L F Q R S F R A A R L I R
UniRef90_C5C5B0 G A L E R L F A Q A Q R T S R A V E A G T G L
UniRef90_K2AKD0 E T V N R I Y G A G L K C V T R V R N
UniRef90_T1DCZ4
UniRef90_UPI00042A17EE E E A Q A V F E D V I R E G L R L R S R L G L
UniRef90_UPI00037DB7B2 G P L V R L F Q T A S K T A K R V G S E T A L
UniRef90_F9ECK4 G A I T R A V E H A S A A S R R V A V R T S L
UniRef90_UPI000364F470 G P L E G V F R I A A E T S K G V K A N T D L
UniRef90_D7CY08 P L T S F A F H T A L R I A K K V R R E V A L
UniRef90_J2ZJW2
UniRef90_D2NS30 G E L V Q L F E H A A H T A R Q V G Q H T A L
UniRef90_E3CWT3 P T L H R L F Q R A L G V A G A L R T
UniRef90_A0A011QWG1 T A L K A L F K R A
UniRef90_T1ABW0 P V L R E L L G A A V A A A D R
UniRef90_J0NPF7 G D I T R A V E H A S T V S R R V A A T T
UniRef90_UPI0002F5E6C6 A D L C R L V E R A S A S R R V A R E T S L
UniRef90_UPI000310CA08 E E A L S A L E D I L R E A H R L R S R I G L
UniRef90_F2UY48 P E L V R V V E R A S A T A R V A H E T E L
UniRef90_K4AYS5

		50		60		70		80																																	
UniRef90_UPI0003689CAD	E	V	I	F	S	E	C	Q	R	L	E	Y	L	Y	V	D	E	N	H	G	E	F	L	R	D	E	I	I	L	E	T	S	S	K	F	N	E	D			
UniRef90_R8ZR29				V	W	Q	T	C	Q	R	T	L	V	F	T	D	K	R	I	F	P	M	E	E	G	N	E	R	F	F	D	G	W	E	V	H	Q	G	Y	D	
UniRef90_W1NSP3	E	A	A	V	L	S	T	C	N	R	V	E	I	Y	F	V	G	T	Q	E	V	R	E	W	M	A	K														
UniRef90_E1X321	E	L	F	I	L	E	T	C	Q	R	T	L	V	L		G	Y	N	F	V	P	F	H	H	I	D	C	T	G	L	D	M	E	T	F	V	S	D	K		
UniRef90_F9PKL7	G	V	L	V	L	S	T	C	N	R	L	T	L	L	I	D	A	D	S	T	A	A	S	D	L	G	E	T	I	T	A	F	L	T	H	L	V	G	A	A	
UniRef90_B0SF67				V	W	Q	T	C	Q	R	T	L	V	F		S	D	K	R	I	Y	P	I	E	K	S	E	R	F	L	D	G	W	E	L	Y	Q	G	Y	D	
UniRef90_E7NBB7	G	V	V	L	S	T	C	N	R	L	A	L	L	I	D	A	D	S	A	A	S	D	L	G	E	T	I	C	A	F	L	S	H	L	V	G	A	S			
UniRef90_I2QN09	G	I	L	L	E	A	T	C	A	R	V	E	V	Y	G	E	E	A	E	L	R	H	V	V	S	T	I	F	S	D	F	S	F	R	R	I	E	G	V	T	
UniRef90_G9PRE9	G	V	V	L	S	T	C	N	R	L	A	L	L	I	D	A	D	E	A	V	S	A	F	L	A	E	P	G	S	L	H	L	S	H	L	A	G	A	A		
UniRef90_K5C026				V	W	Q	T	C	Q	R	N	I	A	F	G	D	R	R	L	F	P	I	A	E	S	E	R	F	Y	K	G	Y	E	V	F	H	G	F	E		
UniRef90_M6FDN1	G	S	Y	S	W	S	T	C	M	R	T	I	W	I	T	D	S	R	L	H	R	E		P	S	G	L	P	I	T	L	E	K	Y	S	G	Y	Q			
UniRef90_B8IJ5	G	V	L	L	V	P	T	C	S	R	V	E	F	Y	G	E	A	P	R	N	I	P	S	E	V	F	A	D	F	D	F	R	R	I	E	G	E	H	E		
UniRef90_F3P7Y9																																									
UniRef90_V7FWW1	G	I	L	L	V	T	T	C	A	R	V	E	V	Y	G	E	E	S	A	I	S	N	I	N	S	T	I	F	S	G	S	S	Y	E	H	E	G	A	A		
UniRef90_UPI000372D294	G	I	L	L	I	T	T	C	L	R	V	E	V	Y	G	E	E	S	A	L	G	N	I	D	L	L	F	S	G	F	P	R	A	L	V	K	G	A	R	A	
UniRef90_Q52994	G	I	L	Q	I	A	T	C	A	R	L	E	F	Y		G	E	K	S	V	L	E	D	I	D	G	K	P	F	F	G	F	S	Y	G	R	V	E	G		
UniRef90_I0XQL4	D	A	F	S	W	K	T	C	M	R	T	V	L	V	S	D	S	R	H	P	H	P	E	N	L	P		P	H	W	E	S	K	S	G	Y	E				
UniRef90_X5RX15	G	V	L	L	V	T	T	C	L	R	V	E	I	Y		G	E	E	P	A	L	R	T	I	D	S	G	T	I	F	S	G	F	S	C	E	H	I	A		
UniRef90_V6HHM2	D	S	F	Q	W	K	T	C	M	R	T	V	W	V	T	D	S	R	I	H	P	E	S	L	D	L	P	D	T	W	E	V	K	T	G	Y	E				
UniRef90_A0A024EZ86	D	A	A	I	E	K	T	C	L	R	K	L	L	F	C	T	E	M	E	L	G	N	Y	A	D	V	I	E	P	E	D	T	V	L	R	G	E	K			
UniRef90_V7FC94	G	V	L	L	V	T	T	C	L	R	V	E	A	Y	G	E	E	P	A	L	R	N	I	D	S	S	T	M	F	S	D	L	P	F	E	H	I	E	G	A	



UniRef90_UPI0003689CAD V V R H L F E L M G G F L D Y T T N E F L L Y Y S L R R L F E L H Q F S T Q H
UniRef90_R8ZR29 A Y R F L L E V V S G L R S K L F G E S E L Q A Q F R D R F R E E N T N G
UniRef90_W1NSP3
UniRef90_E1X321 A Y S Y L L E T I C G L K S K L L G E N E I T S Q F K K S Y T K Y L E Y G V R N
UniRef90_F9PKL7 A R R E M L A I A A G L R S M V V G E A Q I V G Q V R R A A E T A A A E G T L S
UniRef90_B0SF67 A Y R F L L E V V S G L R S K L F G E S E I Q A Q F R D R F R E E N T E R S N F
UniRef90_E7NBB7 A R R E M L A I A A G L S S M V V G E A Q I V G Q V R R A A E T A A A E G T L S
UniRef90_I2QN09 A R R E I L A I A A G L N S M V V G E A Q I V G Q V R R A A E T A A A E G T L S
UniRef90_G9PRE9 A R R E I L A I A A G L N S M V V G E A Q I V G Q V R R A A E T A A A E G T L S
UniRef90_K5C026 A Y R F L L E V V S G L R S K L F G E S E I Q A Q F R D R F R E E K N E S T F A
UniRef90_M6FDN1 G Y R F V L E V I S G L H S K L L G E T E V L S Q F R N K F K L P S S A F G
UniRef90_B8IJ5 I A Q R V A E I A S G V R S P I L G E R N I I Q Q L E G A Y K R
UniRef90_F3P7Y9 A R R E M L A I A A G L S S M V V G E V Q I A G Q V R R A A E T A A A E G T L S
UniRef90_V7FWW1 A I Q R L A E I A S S A H S Q I L G E N Y I S D Q L A K A L E F
UniRef90_UPI000372D294 V A K R L A E I S S G A K S Q I L G E N Y V S E Q V S N A V A L L D
UniRef90_Q52994 A I E R L A T I A A G V H S Q I L G E G F I S G Q L M Q A L E S G
UniRef90_I0XQL4 A Y R L L L E I I S G L K S K L F G E T E V L S Q F K Q R F Q
UniRef90_X5RX15 A V Q R L A E I A S G A H S Q I L G E N Y I S D Q L V N A I E R
UniRef90_V6HHM2 A Y G L L L E I I S G L R S K L F G E T E V L A Q F R Q R F Q E L P S S A F G
UniRef90_A0A024EZ86 A L S L L L E I L C G L H S P I V G E T E V F G Q F K
UniRef90_V7FC94 V T Q R L A E L A S G A R S Q L F G E N Y I S D Q L A K A I E L



UniRef90_UPI0003689CAD Q M L K E L F E S A L E F A 130 140
UniRef90_R8ZR29 S N L L R L R D Q I L E Q T K Q I R S K T G I
UniRef90_W1NSP3
UniRef90_E1X321 S Q I M S I L E K L F M D A K K I R T
UniRef90_F9PKL7 P E L V R V V E R A S A T A R R V A H E T E L
UniRef90_B0SF67 A I L Q R L R D Q I L E H T K Q I R S K T G I
UniRef90_E7NBB7 P E L V R V V E R A S A T A R R V A H E T E L
UniRef90_I2QN09 P I L Q V A R S G I N T G R A V R
UniRef90_G9PRE9 P D L V R I I E R A S T A A R R V A H D T E L
UniRef90_K5C026 L S L L R L R D Q I L E H T K Q I R S K
UniRef90_M6FDN1 E Y L A R L R D S L I Q D S R S I R S
UniRef90_B8IJ5
UniRef90_F3P7Y9 P E L V R V I E R A S A T S R R V A H E T A L
UniRef90_V7FWW1
UniRef90_UPI000372D294 P A L S R I A R L A L G V G R R V R
UniRef90_Q52994
UniRef90_I0XQL4
UniRef90_X5RX15
UniRef90_V6HHM2 E Y I A R L
UniRef90_A0A024EZ86
UniRef90_V7FC94

lupas_21
lupas_14
lupas_28
jnet
conf 6 8 9 9 9 9 9 9 9 9 9 9 9 9 8 7 3 2 8 9 9
sol25 B B B B B B B B B B B B
sol5 B B B B B B B
sol0 B B B
jhmm
jpssm