

QUERY	1	10	20	30	40
UniRef90_B4GNQ7	A	A	N	W	K
UniRef90_A8B3A8	A	A	N	W	K
UniRef90_R7TTG2	Q	R	K	F	F
UniRef90_K8EFU9	R	Q	K	F	F
UniRef90_L7UZA7	R	R	K	F	F
UniRef90_UPI00047A7CA8	R	R	R	F	F
UniRef90_G0S613	R	R	K	F	F
UniRef90_S9PLC5	S	R	R	K	F
UniRef90_G6CIZ7	S	R	R	K	F
UniRef90_D9TNA1	A	S	R	R	F
UniRef90_W5LL60	A	S	R	R	F
UniRef90_A4J8T9	A	S	R	R	F
UniRef90_R6Q571	R	R	K	F	F
UniRef90_E7A2J8	R	T	F	F	F
UniRef90_R6G8M7	R	T	F	F	F
UniRef90_K9LHF9	R	R	K	F	F
UniRef90_D6Y129	R	R	K	F	F
UniRef90_F0S313	R	R	K	F	F
UniRef90_A0PYP2	R	R	K	F	F
UniRef90_R5JLP2	R	R	K	F	F
UniRef90_S2IZQ2	R	R	F	F	F
UniRef90_X8J5R5	R	R	K	F	F
UniRef90_W6N518	R	R	K	F	F
UniRef90_E1IAM9	R	R	K	F	F
UniRef90_H3NMX7	R	R	K	F	F
UniRef90_M5DCH3	S	G	R	R	F
UniRef90_UPI0002D9181E	S	G	R	R	F
UniRef90_UPI0003A53FB2	R	R	K	F	F
UniRef90_Q5YBB3	R	R	K	F	F
UniRef90_B8I4U5	P	R	K	F	F
UniRef90_W2S8C1	R	R	K	F	F
UniRef90_C0EAW8	R	R	K	F	F
UniRef90_M1W5Z8	R	R	K	F	F
UniRef90_Q12574	R	S	F	F	F
UniRef90_A5G381	R	R	K	F	F
UniRef90_B3QV54	R	R	K	F	F
UniRef90_G9XDJ7	R	R	K	F	F
UniRef90_D2QW19	R	R	K	F	F
UniRef90_A6CEM4	R	R	F	F	F
UniRef90_S8FUL8	R	Q	F	F	F
UniRef90_R7A1X8	R	R	K	F	F
UniRef90_R7H8F4	R	R	K	F	F
UniRef90_E6MEK9	S	R	R	P	V
UniRef90_A8MFY0	S	R	R	P	V
UniRef90_S8DIS1	R	K	F	F	F
UniRef90_D6SAR1	R	K	F	F	F
UniRef90_F2DTB2	R	K	F	F	F
UniRef90_UPI000479DBD8	R	K	F	F	F
UniRef90_L8GA44	R	Q	F	F	F
UniRef90_R7KPG5	R	K	A	V	I
UniRef90_C4JUZ9	R	K	F	F	F
UniRef90_UPI00047ADDD8	R	R	F	F	F
UniRef90_D0GIC8	R	R	V	I	V
UniRef90_M7NAJ4	R	R	K	F	F
UniRef90_UPI00036FF478	R	R	K	N	M
UniRef90_G8PC31	R	T	P	I	V
UniRef90_R5L068	S	L	R	K	A
UniRef90_Q5WVK7	S	L	R	K	P
UniRef90_R1CQ06	R	T	P	I	V
UniRef90_R6BNT4	A	S	K	R	T
UniRef90_D0LTS6	A	S	K	R	T
UniRef90_K2A8B0	S	R	R	P	I
UniRef90_J9GPA8	R	R	K	F	F
UniRef90_A9SAR2	R	K	F	F	F
UniRef90_R5AFT4	R	R	K	F	F
UniRef90_R5X6W6	R	R	K	F	F
UniRef90_E6U865	S	R	K	T	V
UniRef90_I3IN58	R	R	K	K	P
UniRef90_M4BC88	R	K	Y	V	I
UniRef90_UPI00034870F4	R	R	K	F	F
UniRef90_M3CQP9	R	Q	F	F	F
UniRef90_U4TWL1	R	R	K	F	F
UniRef90_Q8ENP4	R	R	K	K	V
UniRef90_W7BE80	R	R	K	P	I
UniRef90_UPI00039ED7A7	R	R	P	L	V
UniRef90_K2GRF2	R	K	Q	V	I
UniRef90_L7VQH0	K	M	A	F	I
UniRef90_UPI00036A880F	R	R	K	F	F
UniRef90_Z4WZP4	S	M	R	K	N
UniRef90_UPI0004418569	R	R	K	F	F
UniRef90_W4JNS5	P	R	Q	F	F
UniRef90_Q7UP89	S	R	R	I	L
UniRef90_A4BAM1	R	R	T	L	V
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UniRef90_D1AY87	R	K	I	I	V
UniRef90_A0A017RWZ7	R	R	K	A	I
UniRef90_A4G646	R	R	K	L	V
UniRef90_E1L4Y4	R	R	K	Q	I
UniRef90_UPI0003672669	R	R	K	P	I
UniRef90_V5WJ97	R	N	Y	F	L
UniRef90_Q33BU2	R	F	F	I	G

QUERY
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UniRef90_S8FUL8
UniRef90_R7A1X8
UniRef90_R7H8F4
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UniRef90_A8MFY0
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50 60 70 80
A P T F V H I P L V I Q A K L R N P K Y V I S A Q N A Y K V I A K S G G A F T T G G E I I V S M P S G
G C P A P Y L M Y A R S N L L P C T S V G V V A S Q N N A Y K V A K G G A F T T G G E I I V S M P S G
A C P P A P Y L D Y C R S N L L P P K S V A L A A Q N N C Y K V A E K Q G G A F T T G G E I I V S M P S G
S P P A P Y L D Y V R Q K L L P D P K R I G V A A A Q N N C Y K V A E K Q G G A F T T G G E I I V S M P S G
C P P F T A L A A V A E N I V L A G S K L R A L A G A Q N N M H W D Q G G A F T T G G E I I V S M P S G
G V P A I D I L M L C K N L P D N T R V A A G A Q N N C Y K V D E K G G A F T T G G E I I V S M P S G
C V P A I D I V P A I T A T R G G S N I A I A G A Q N N M Y F F E N G G A F T T G G E I I V S M P S G
A P P A L Y L Q L A V D S L T E K E G V V S A Q N N V Y D K P N G G A F T T G G E I I V S M P S G
A P P F V I L S A V V A K S N L E G S A L K A G Q N N C H W E A D K G G A F T T G G E I I V S M P S G
G V P A I V Y L S A Q V R S N L P K S I G V A A A Q N N C W K A D K G G A F T T G G E I I V S M P S G
I P P F V D L V D V K K A L L D G S N I R L A G A Q N N M H W E K G G A F T T G G E I I V S M P S G
G A P S I Y L D Y A R S N L D P K I G V A A G A Q N N C Y K V A E K Q G G A F T T G G E I I V S M P S G
C P T F T A L A P A V A E A L K G S N I A V A G A Q N N M H W E K G G A F T T G G E I I V S M P S G
C V P F V D L Y P V L E A L K D T N I A V G A Q N N M H F E S G G A F T T G G E I I V S M P S G
A P P S L Y L V A V I Q E A H L K G S N V A I V A A Q N N M Y Y H K S G G A F T T G G E I I V S M P S G
C V P A I D I I P V A M E A A K G S N I A I A G A Q N N M Y F F E S G G A F T T G G E I I V S M P S G
A P P A V Y L E K T R A T A N K N I G V A A Q N N V Y Y K E K G G A F T T G G E I I V S M P S G
C S P H L Y L D A L V Q E A A G T D V K I L G A Q N N M Y F F E S G G A F T T G G E I I V S M P S G
C P P F T A L Y P V S K E A L G S N I L G Q N N M Y F F E S G G A F T T G G E I I V S M P S G
C P P T L A L D A V V K A T E G T N I K V G A Q N N M H F E S G G A F T T G G E I I V S M P S G
C V P A I D I V P V V N A V K K E I N V E V G A Q N N M Y F F E K G G A F T T G G E I I V S M P S G
A P P A L Y V D R V N Q G L K K E I K V A A Q N N Y I K S S G G A F T T G G E I I V S M P S G
A P P A L Y L L T S L A A V K N N I L Q V A A Q N N A Y I K S S G G A F T T G G E I I V S M P S G
C P P Y V C L D T V L K A A K A N T N I K V G A Q N N M H F E S G G A F T T G G E I I V S M P S G
C P P Y T A L A S V G E Q A V L G T N I S L G Q E V F Y E A S G G A F T T G G E I I V S M P S G
C P P F T N L A L A K E L L K R D T N V E S L G A Q N N A Y F E S G G A F T T G G E I I V S M P S G
S P P M V Y L G L V Q S K L R P E I T V A V I Q Y A A A K G G A F T T G G E I I V S M P S G
C A P P Y Y L Q A L V Q S K A K G T D L I A I A A Q N N M H F E S G G A F T T G G E I I V S M P S G
G A F F T T L S D A V K A V E G S N I K I A A A E N N V Y P K G G G A F T T G G E I I V S M P S G
A P T F L H L S Q Q A L S S L P S R N E V I V S A A Q N N C W I K G G G A F T T G G E I I V S M P S G
G V P F V C L S G V V A A A K G S N I K V A A Q N N M H W D Q G G A F T T G G E I I V S M P S G
S P P A L Y L L L T R E H L R E G L E V A A Q N N V F D K P N G G A F T T G G E I I V S M P S G
C V P F T N L E T A L Q L T Q S G N I K V G A E N C H F H K G G A F T T G G E I I V S M P S G
S P P A L Y L Q L V R D S L R S G I D V A A Q N N V Y D K P N G G A F T T G G E I I V S M P S G
A P P A L Y L L P I Q E I A G K A V K V A A Q N N A Y F K E S G G A F T T G G E I I V S M P S G
A P V F T V L S T V K N A L K G T N I L A A Q D C F W D E Q G G A F T T G G E I I V S M P S G
A P T F L C Q Q A V F Q V I D E S A I K L A A Q N N C F Y F E Q G G A F T T G G E I I V S M P S G
C A P F T F L K D L K G A V E G T N I K I A A Q N N M H F E S G G A F T T G G E I I V S M P S G
C P P S V Y L D A V V G A L A G S A I Q V G G A Q N N C Y H E K G G A F T T G G E I I V S M P S G
C P P F Y L L T T I G E I V S G S G V G F G A Q N N C Y H E P K G G A F T T G G E I I V S M P S G
A P P A I Y L L J A L Q E I L R K D V K V S A Q N N C Y F K P S G G A F T T G G E I I V S M P S G
C V P Y T D I F Y A L L H V Q D T N I K I V G A E N M H Y W E K G G A F T T G G E I I V S M P S G
C V P S I D I V P V V E A C K G T N I S V G A E N M Y Y E S G G A F T T G G E I I V S M P S G
A P T F V N L T A V V E A T K G T N I G I A A Q N N M F Y E S G G A F T T G G E I I V S M P S G
C C P F T V L S Q Q V K A L V N S R I L K L G A Q N N M H W E K G G A F T T G G E I I V S M P S G
A P P F V Y I S Q V K N S L V N S R I Q L A A Q N N C H W E K G G A F T T G G E I I V S M P S G
I S P F T S L K T L T E A L K D T N I S T G A Q N N M Y F E S G G A F T T G G E I I V S M P S G
A P P I Y L D Q V K S S L T D R D E V S A Q N T W I F K G G G A F T T G G E I I V S M P S G
C A P A L F Y L E S L V G L T E G S D L K V G A Q N N M H F E G G A F T T G G E I I V S M P S G
A P P S L Y L L L A R A E L R K E V E V A A Q N N V F D K N E S G G A F T T G G E I I V S M P S G
C V P F T N L E T A V N T A G S N V K V G A E N V H F F K S G G A F T T G G E I I V S M P S G
S P P A L Y L L L T R S Q A D P K F G V A A Q N N V F D K P M G A F T T G G E I I V S M P S G
C T P F I S L V G V S E I L K D S N V K L G A Q N N M H W E S G G A F T T G G E I I V S M P S G
G T P F T A L E S A V K E A A G S N V K I A A Q N N M N D N G A F T T G G E I I V S M P S G
A P A P F L A A L S G R A G D G P A V V G A Q T M H E E E K G G A F T T G G E I I V S M P S G
C P P F P F L L P V G K L L L Q G G Q F H L G A Q N N C H Q K S G G A F T T G G E I I V S M P S G
A A P A I D L N A L V W F S K D E N I K T A A E N Y F E D E G G A F T T G G E I I V S M P S G
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C A P A L F L D R L L Q A V K G T E L K I G Q T M H F E D N G A F T T G G E I I V S M P S G
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C V P Y T N L E T A L S L C E G T N L H I L G A E N C H W K S G G A F T T G G E I I V S M P S G
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C C V Y V D L P A A V E A A K G S K I S I L G A E N H W E E S G G A F T T G G E I I V S M P S G
C P S F V S L R D I L G K V L E G S G I Y M A A Q N N V H S Q S G E N G A F T T G G E I I V S M P S G
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C P P S V Y L S G V A D A V V G T P V E L G A Q N Y A A E D G A F T T G G E I I V S M P S G
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C P P F T A L E R A V S L T R D T Q V G V G A Q N N M Y H D A G A F T T G G E I I V S M P S G
C A P A L F I E R L V E A T K D S N V K I L G A Q N N M H F E S S G G A F T T G G E I I V S M P S G
A P S F I A I P G V A E E A T K D S N L V G A Q N M S F E S G G A H T T G G E I I V S M P S G
A P T F V H L D R V I Q R S L K S P F Q L A A Q D C W V S K G G A F T T G G E I I V S M P S G

QUERY	90	100	110	120
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UniRef90_A8B3A8	M I K D I G G G Q W V I L L G G H S E E R R R H V F K E T S D D N Q L I I V A G E K A E H A L K A E F G L			
UniRef90_R7TTG2	M I K D V C G G Q W V I L L G G H S E E R R R H V F K E T S D D N Q L I I V A G E K A E H A L K A E F G L			
UniRef90_K8EFU9	M L Q D D C G G R Y V I L L G G H S E E R R R Q Y F G E T S D D Q Q Q I V N G E K V K E A A L L A Q H G L			
UniRef90_L7UZA7	M I K D D G G A E W V I L L G G H S E E R R R N V F G E T S D D Q L L I V N G E K V K E H A L L A Q E H G L			
UniRef90_UPI00047A7CA8	M L K E A G V K Y V I L L G G H S E E R R R N V F G E T S D D Q L L I V N G E K V K E H A L L A Q E H G L			
UniRef90_G0S613	Q L K D S G V H W T I L L G G H S E E R R R T L L G E T S D D E F F V V A S K S K Y A I D A N G L			
UniRef90_S9PLC5	M L K D V G G A S Y V I L L G G H S E E R R R Q Y F G E T S D D E T V V A N E K V R A N A V L L A Q A N G M			
UniRef90_G6CIZ7	M I K D V G G A S Y V I L L G G H S E E R R R Q Y F G E T S D D E T V V A N E K V R A N A V L L A Q A N G M			
UniRef90_D9TNA1	M L K E I G V E Y V V I L L G G H S E E R R R Q Y F G E T S D D E T V V A N G R K V V A S A L L S H H G L			
UniRef90_W5LL60	M I K D C G G V D W V I L L G G H S E E R R R H V F G E T S D D D Q N V N G Q K V V A H A L L E S V D G L			
UniRef90_A4J8T9	M L K Q E L G V K Y V I L L G G H S E E R R R Q Y F G E T S D D D Q N V N G Q K V V A H A L L E S V D G L			
UniRef90_R6Q571	M L K E M G V K Y V V I L L G G H S E E R R R Q Y F A E T S D D E T V V N K K V K A K A L L E S Q R G L			
UniRef90_E7A2J8	M L K D A A I P W V V L L G G H S E E R R R L F H E T S D D A N T V A E K T M A A A L L Q S Q R G L			
UniRef90_R6G8M7	M L V D A G V K Y V V L L G G H S E E R R R E Y F A E T S D D A N T V A E K T M A A A L L Q S Q R G L			
UniRef90_K9LHF9	I L K D V N V D W V I L L G G H S E E R R R Q Y F A E T S D D N E F V V G E K T A F A L L E N G L			
UniRef90_D6Y129	A L N D L G V T Y V V L L G G H S E E R R R L F G E T S D D E S L I N K K T H A A F S H H G L			
UniRef90_F0S313	M L K S V G C S Y V I L L G G H S E E R R R H L F G E T S D D E S L I N K K V L S S I N H G L			
UniRef90_A0PYP2	M L E E L G V K Y V I L L G G H S E E R R R Q Y F G E T S D D A D L L N K K M K K A F E H N L			
UniRef90_R5JLP2	M L V D A G V K Y V I L L G G H S E E R R R D Y F K E T S D D A F L L N K K V K A F A L D A A G L			
UniRef90_S2IZQ2	M L K D M G V D W V V L L G G H S E E R R R D Y F K E T S D D E L V G E K T A F A L L A A G V L			
UniRef90_X8J5R5	Q L V D A G V P W V I L L G G H S E E R R R T L F G E T S D D E L V A D K T K A A L L E A G L			
UniRef90_W6N518	M L E S M G V E Y V I L L G G H S E E R R R Q Y F N E T S D D A A S V N K K V K A K A F E H N L			
UniRef90_E1IAM9	M L C D V G C R Y V I V L G G H S E E R R R Q Y F G D T D A S V N R K L H A A L A L S Q S G L			
UniRef90_H3NMX7	F L K D L G I K Y V I L L G G H S E E R R R E Y F G E T S D D E D I N K K I K A V A L S Q S G L			
UniRef90_M5DCH3	M A L D V G A T W A I L L G G H S E E R R R N V F G E T S D D E L I A R K V A G F A L L Q S G V			
UniRef90_UPI0002D9181E	M L K D L G V K Y V V I L L G G H S E E R R R N V F A E T S D D E T V N K K V A H A A F E H G M			
UniRef90_UPI0003A53FB2	M L K A I G V S H V I L L G G H S E E R R R E I F K E T S D D E F I N E K V K A V L E N G L			
UniRef90_Q5YBB3	Q I V D L G A K W V I L L G G H S E E R R R H L M G E T S D D A T V A D K V A Y A L L S K G L			
UniRef90_B8I4U5	M L A D L G V D Y V I L L G G H S E E R R R E Y F G E T S D D N E M I N K K V A H A I F K Y G M			
UniRef90_W2S8C1	Q L K D S N I T W T I L L G G H S E E R R R T L L Q E T S D D E F V A S K T K N S L D G G V			
UniRef90_C0EAW8	M L A E M G V E Y V V I L L G G H S E E R R R T Y F G E T S D D E T V A N K R T R A A L E A G L			
UniRef90_M1W5Z8	Q L K D S N I N W V I L L G G H S E E R R R T I L K E T S D D E V V A S K T K Y A T E N G V L			
UniRef90_Q12574	Q I S D A G I P Y V I L L G G H S E E R R R T L F H E T S D E T V A L K T R A A L D N G L			
UniRef90_A5G381	M L L D A G C S H V I L L G G H S E E R R R Q Y F F G E T S D D E T V N K K N I K A A L S R A G L			
UniRef90_B3QV54	M L R N S G C E Y V I L L G G H S E E R R R Q Y F N E T S D D E T V N K K V K A A L S V E L			
UniRef90_G9XDJ7	M L K E I G I D Y C V I L L G G H S E E R R R Q Y F A E T S D D E T V N K K L K Q A F K Y D I			
UniRef90_D2QW19	M L L D I G C C K Y V I L L G G H S E E R R R H I L K E T S D D A D I N Q K V V V A A L E A A G L			
UniRef90_A6CEM4	M L T D V G C C R S V I L L G G H S E E R R R H I L K E T S D D A D I N Q K V V V A A L E A A G L			
UniRef90_S8FUL8	Q L A D A Q V P Y V I L L G G H S E E R R R T L F H E T S D E T V A Q K T K A A L E A G L			
UniRef90_R7A1X8	M L K S I G V E Y V I L L G G H S E E R R R Q Y F A E T S D D E T V N K K I R K A A L E A H G L			
UniRef90_R7H8F4	M L V D A G V S Y V I I L L G G H S E E R R R Q Y F K E T S D D N E M V N R K I R K A I E H D I			
UniRef90_E6MEK9	M L K A I G V R Y V I L L G G H S E E R R R Q Y F A E T S D D E A V V N K K T L K A A L A L G L			
UniRef90_A8MFY0	M L K D I G V E Y V I L L G G H S E E R R R Q Y F N E T S D D E F I N K K V K A A L K E N L			
UniRef90_S8DIS1	Q I K D I G A G W V V L L G G H S E E R R R H I I G E T S D D Q F I G K K A A Y A L S Q Q D L			
UniRef90_D6SAR1	M L K D L G V D Y V I I L L G G H S E E R R R T I F K E T S D D E L L N K K I S A L S N H N L			
UniRef90_F2DTB2	Q L V D I G C Q W V I L L G G H S E E R R R H V I G E T S D D E F I G K K A A Y A L S Q N L			
UniRef90_UPI000479DBD8	A L K D L G V S Y V I L L G G H S E E R R R E M F A E T S D D E T V N K K T L A A F K H G L			
UniRef90_L8GA44	Q L K D S N I G W T I L I G G H S E E R R R V L L K E T S D D E F V A S K T K N A L D Q G V			
UniRef90_R7KPG5	M L T E L G V E Y V V I L L G G H S E E R R R Q Y F G E T S D D E F V A N K R T K A A L D A G L			
UniRef90_C4JUJ9	Q L H D C G V S W A I V L G G H S E E R R R V L L K E T S D D D F A A R K T K A A I D G G L			
UniRef90_UPI00047ADDD8	M L K D I G V D Y V I I L L G G H S E E R R R Q Y F N E T S D D E T V N K K I K S A F I H G L			
UniRef90_D0GIC8	M L K D L G V E Y V I L L G G H S E E R R R E Y Y G E T S D D K F I N E K V K A A L K H G L			
UniRef90_M7NAJ4	M L T D L G V R Y V I L L G G H S E E R R R E Y F N E T S D D S F I N E K V K A A F A H G L			
UniRef90_UPI00036FF478	M L Q S V G C E Y V I L L G G H S E E R R R Q Y F R E D D E L L S Q K L K A A L A A G L			
UniRef90_G8PC31	A L S E M G V D Y V V I L L G G H S E E R R R Q Y F H E T S D D E D I N K K A K A L F R A N G M			
UniRef90_R5L068	M L K E M G V P Y V I I L L G G H S E E R R R Q Y F G E T S D D E T V N K R V R A A L D A G L			
UniRef90_Q5WDK7	A L S D M G V H Y V I I L L G G H S E E R R R E M F A E T S D D E T V N K K V H A A F A H H L			
UniRef90_R1CQ06	M L K E I G I D Y V I I L L G G H S E E R R R Q Y F N E T S D D E T V N K K I K A A L A H G L			
UniRef90_R6BNT4	M L A E M G V E Y V I I L L G G H S E E R R R Q Y F G E T S D D Q T V N A R I R A A L D A G L			
UniRef90_D0LTS6	Q L A D V G C R Y V I I L L G G H S E E R R R Q Y F G E T S D D E T V G K K A R A A I D A G L			
UniRef90_K2A8B0	F I K D A G A N Y V I L L G G H S E E R R R Q Y F N E T S D D E L L A K K V S A A L R H N L			
UniRef90_J9GPA8	M V K S T G A N Y V I L L G G H S E E R R R A Y Y H E T P N E L L K E K V N A L L E N N L			
UniRef90_A9SAR2	Q L V D V G V K W V I Q G G H S E E R R R H V I G E S N S T V G K K S A Y A L S K G L			
UniRef90_R5AFT4	M L K A H G V E Y A I V I G H S E E R R R Q Y F G E T S D D A T V N Q K R A K A A I A A G I			
UniRef90_R5X6W6	M L Q E I G M D Y V I V I G H S E E R R R E Y F G E T S D D E T V N K K V L K A A L Q I G I			
UniRef90_E6U865	M L N A L G V Q Y A I V I G H S E E R R R Q Y F G E T S D D E T V N K R T A A A L A H G L			
UniRef90_I3IN58	M V K E T F G C T H V I L L G G H S E E R R R N I F G E T S D D A F I N A K K A A L S V G L			
UniRef90_M4BC88	Q L V D F E L K W T I T G H S E E R R A L Y G E T S D D E T V A K K T K R A L D V G L			
UniRef90_UPI00034870F4	A L Q D M N V S Y V I I T G H S E E R R R E M F A E T S D D E T V N K K V H A A F A H S L			
UniRef90_M3CQP9	Q L K D S N I T W T I L L G H S E E R R R V L L Q E T S D D N F V G S K T K V A L D G G L			
UniRef90_U4TWL1	V L A D L G V K Y V I V L L G H S E E R R R G Y Y H E T N F E D V N K K K A K A V F A N G M			
UniRef90_Q8ENP4	M L K D L G V T H V V L L G H S E E R R R E L F A E T N E L V N K K T K A A F A H D L			
UniRef90_W7BE80	A L A D L G V S Y V I L L G H S E E R R R E Y F H E T S D D E D I N K K A H A A L L K H G M			
UniRef90_UPI00039ED7A7	Q L R D A G C E Y V L V L G H S E E R R S L F D E S D E D V I R K K F A A L L A C H G L			
UniRef90_K2GRF2	M L K E L G V T Y V V L L G H S E E R R D V F G E T S D D E T V N K K V H A A F D H D L			
UniRef90_L7VQH0	M L K E L G V Q Y V I L L G H S E E R R R Q Y F A E T S D D E T V N K K A H A I L L N A G M			
UniRef90_UPI00036A880F	M L K D A G C T Y V V I L L G H S E E R R R Q Y F G E T S D D E T V N K K V H A A L F H K L			
UniRef90_Z4WZP4	M V A S T G A R Y V I L L G H S E E R R A Y Y G E D N T I L T E K V R L A L E N G L			
UniRef90_UPI0004418569	Q L V D A G V P Y V I L L G H S E E R R T L F H E T S A I V A E K T K A A V D A G L			
UniRef90_W4JNS5	Q L V D A G I P Y V I L L G H S E E R R S L F G E T S A I V A T K T R V A L D A G L			
UniRef90_Q7UP89	M L T D V G C R F V I L L G H S E E R R Q L M G E T D A C V A K K L H A A L A G N L			
UniRef90_A4BAM1	M V K E F G C Q Y V I L L G H S E E R R E L F G E T S D E Q I A A K V H A A T L A N L			
UniRef90_K6D5F6	A L K D I G V D Y V I I L L G H S E E R R E M F A E T S D D E T V N K K V H A A F K N E L			
UniRef90_D1AY87	M L K D L G V E Y V L V L G H S E E R R E Y Y K E C N K F I N E K V L A A I H N G L			
UniRef90_A0A017RWZ7	M L K E L G V K Y V I L L G H S E E R R Q Y F H E T D D L I A K K L V S A L T H E L			
UniRef90_A4G646	M L E F A C R Y V I V L G H S E E R R A Y Y G E T S D N E L I A Q K T V R A L S A G L			
UniRef90_E1L4Y4	M L T E L G V S Y V I I L L G H S E E R R E Y Y G E T S D A M V N E K I K S A F H H N L			
UniRef90_UPI0003672669	A L A D L K V D Y V I L L G H S E E R R E M F N E T S D A E V N K K V K A A F A H H L			
UniRef90_V5WJ97	M L K D A G V D V V I L L G H S E E R R A I Y G E T S D A F I N K K V Q L A L N H G F			
UniRef90_Q33BU2	M L H D M G I P W V I L L G H S E E R R S L C R E D D E L V G M K C E Y A L S Q G L			

QUERY	M	V	I	A	C	I	G	E	T	130	Q	R	E	A	N	Q	T	A	K	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_B4GNQ7	K	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_A8B3A8	N	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_R7TTG2	K	N	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_K8EFU9	L	P	V	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_L7UZA7	H	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_UPI00047A7CA8	T	P	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_G0S613	S	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_S9PLC5	T	P	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_G6CIZ7	K	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_D9TNA1	K	P	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_W5LL60	G	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_A4J8T9	V	P	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_R6Q571	L	P	I	M	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_E7A2J8	S	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_R6G8M7	T	P	I	M	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_K9LHF9	K	V	I	P	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_D6Y129	T	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_F0S313	I	P	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_A0PYP2	T	P	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_R5JLP2	T	P	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_S2JZQ2	S	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_X8J5R5	S	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_W6N518	I	P	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_E1IAM9	R	P	I	M	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_H3NMX7	V	P	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_M5DCH3	K	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_UPI0002D9181E	T	P	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_UPI0003A53FB2	V	P	I	F	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_Q5YBB3	G	V	I	F	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_B8I4U5	T	P	I	F	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_W2S8C1	G	V	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_C0EAW8	K	V	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_M1W5Z8	S	V	I	W	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_Q12574	K	V	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_A5G381	T	I	L	F	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_B3QV54	D	V	I	M	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_G9XDJ7	V	P	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_D2QW19	T	P	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_A6CEM4	Q	V	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_S8FUL8	S	V	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_R7A1X8	K	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_R7H8F4	I	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_E6MEK9	T	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_A8MFY0	K	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_S8DIS1	G	V	I	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_D6SAR1	K	P	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_F2DTB2	K	V	I	M	A	C	I	G	E	T	L	D	E	R	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_UPI000479DBD8	T	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_L8GA44	R	V	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_R7KPG5	K	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_C4JUJ9	G	V	I	L	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_UPI00047ADDD8	N	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_D0GIC8	K	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_M7NAJ4	I	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_UPI00036FF478	K	P	I	F	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A	W	N	Q
UniRef90_G8PC31	T	P	I	V	C	I	G	E	T	L	D	E	R	E	E	E	E	E	E	V	V	L	S	Q	T	S	A	L	A	K	L	V	T	K	D	A			

QUERY	V	V	V	A	Y	E	P	V	V	170	G	T	G	K	V	A	T	P	180	A	Q	E	V	H	L	L	190	R	K	W	V	S	N	I	G	T	D								
UniRef90_B4GNQ7	V	V	V	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	P	E	Q	A	Q	E	V	H	L	L	R	K	W	V	S	N	I	G	T	D						
UniRef90_A8B3A8	V	V	V	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	P	E	Q	A	Q	E	V	H	A	K	L	R	R	N	W	L	S	T	N	I	S	K	E	D		
UniRef90_R7TKG2	V	V	L	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	S	P	P	D	Q	A	Q	E	V	H	A	K	L	R	R	N	W	L	S	T	N	I	S	K	E	D	
UniRef90_K8EFU9	L	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	S	S	Q	Q	D	A	Q	E	V	N	Q	Y	L	R	A	L	L	A	S	E	Q	Y	G	Q	A	Q	
UniRef90_L7UZA7	V	V	L	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	S	P	Q	Q	D	A	Q	E	V	H	A	K	L	R	R	N	W	L	S	T	N	I	S	K	E	D	
UniRef90_UPI00047A7CA8	M	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	R	T	A	T	T	Q	Q	A	Q	E	V	H	A	K	L	R	R	N	W	L	S	T	N	I	S	K	E	D		
UniRef90_G0S613	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	T	E	Q	A	Q	E	V	H	E	A	L	R	K	W	L	A	A	N	V	N	Q	T	A	T		
UniRef90_S9PLC5	F	V	L	A	Y	E	P	V	V	W	A	I	G	T	G	R	T	A	T	S	A	Q	A	Q	E	V	H	R	A	S	L	R	K	W	L	A	G	R	L	Y	D	V	G	E	
UniRef90_G6CIZ7	V	V	L	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	P	Q	Q	A	Q	E	V	H	A	S	L	R	K	W	L	A	S	I	Y	D	I	N	A	E	
UniRef90_D9TNA1	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	K	D	A	N	D	V	I	K	V	I	R	E	T	L	A	S	I	Y	D	I	N	A	E		
UniRef90_W5LL60	V	V	L	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	P	E	D	A	Q	E	V	H	E	K	L	R	A	Q	W	M	R	E	N	I	S	S	E	D	A
UniRef90_A4J8T9	L	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	Q	T	A	T	S	D	E	D	A	Q	E	V	N	Q	I	R	Q	V	I	R	E	D	G	Q	F	G	G	A	E	
UniRef90_R6Q571	V	V	V	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	A	Q	A	Q	E	V	C	A	A	I	R	R	V	L	A	E	M	Y	G	Q	A	E	A		
UniRef90_E7A2J8	L	V	V	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	Q	Q	A	Q	E	V	H	A	A	I	R	N	W	A	A	E	K	L	G	K	E	A	E		
UniRef90_R6G8M7	A	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	T	E	Q	A	Q	E	V	C	A	E	I	R	K	C	L	A	E	I	Y	D	D	A	E	A		
UniRef90_K9LHF9	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	E	Q	A	Q	E	V	H	A	G	I	R	K	W	L	A	D	N	V	S	A	E	D	E		
UniRef90_D6Y129	T	V	V	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	E	D	A	N	E	T	C	G	V	I	R	K	V	L	A	G	D	N	V	S	A	E	D		
UniRef90_F0S313	F	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	P	E	L	A	N	E	T	V	H	L	F	I	R	E	V	L	A	S	D	M	F	G	Q	N	E	
UniRef90_A0PYP2	T	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	D	Q	A	E	E	T	I	A	F	V	R	K	T	V	A	G	M	F	G	A	E	N	A		
UniRef90_R5JLP2	L	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	A	D	Q	A	Q	E	V	C	K	G	L	R	D	L	I	A	E	I	Y	D	E	A	E		
UniRef90_S2IZQ2	V	V	V	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	P	E	Q	A	Q	E	V	H	A	F	L	R	Q	W	L	A	E	N	V	S	A	E	K	E		
UniRef90_X8J5R5	I	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	Q	Q	A	Q	E	V	H	K	D	I	R	A	W	V	A	K	N	I	N	S	E	K	E		
UniRef90_W6N518	L	V	V	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	D	S	A	N	A	T	A	Y	I	R	S	V	I	A	G	K	L	Y	G	K	E	A	E			
UniRef90_E1IAM9	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	D	T	A	T	S	E	A	D	A	Q	E	V	H	A	A	I	R	A	T	L	A	E	N	V	S	A	E	D		
UniRef90_H3NMX7	I	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	A	E	D	A	E	E	M	C	A	F	I	R	Q	H	V	A	E	N	F	G	K	D	E		
UniRef90_M5DCH3	L	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	P	E	Q	A	Q	E	V	H	H	Q	L	R	E	W	L	A	A	N	V	S	A	E	V	Q	E	
UniRef90_UPI0002D9181E	A	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	E	Q	A	N	E	T	H	H	Q	L	R	E	W	L	A	A	N	V	S	A	E	V	Q	E	
UniRef90_UPI0003A53FB2	V	I	V	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	P	E	M	A	Q	E	T	H	K	E	I	R	K	V	L	A	D	M	F	G	Q	E	T	E		
UniRef90_Q5YBB3	I	V	V	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	P	D	Q	A	Q	E	V	H	G	L	L	C	R	R	W	V	A	E	H	V	S	P	A	E	A	
UniRef90_B8I4U5	L	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	N	E	Q	A	N	E	V	C	T	L	I	R	E	L	V	A	E	L	Y	G	S	S	E	E		
UniRef90_W2S8C1	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	T	E	Q	A	Q	E	V	H	A	A	I	R	K	W	L	K	D	S	V	S	S	E	E	E		
UniRef90_C0EAW8	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	A	D	Q	A	A	E	V	C	K	F	I	R	E	T	L	A	K	I	Y	D	S	Q	K	E		
UniRef90_M1W5Z8	I	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	T	S	Q	A	Q	E	V	H	K	A	I	R	E	T	W	L	K	S	I	Y	D	S	S	K	E	
UniRef90_Q12574	I	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	T	S	Q	A	Q	E	T	H	V	D	V	R	K	Y	L	A	T	A	V	S	P	K	E	E		
UniRef90_A5G381	V	I	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	D	D	Q	A	Q	E	A	H	K	F	I	R	G	V	V	A	K	L	C	D	S	E	E	E		
UniRef90_B3QV54	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	P	E	Q	A	Q	E	V	H	A	F	I	R	G	I	V	A	K	D	M	F	G	E	E	E		
UniRef90_G9XDJ7	L	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	K	Q	A	N	E	V	I	A	Y	I	R	E	V	V	K	D	L	Y	D	D	E	A	E		
UniRef90_D2QW19	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	P	E	Q	A	Q	E	V	H	A	N	L	R	N	W	L	A	A	K	L	G	Q	A	E	A	
UniRef90_A6CEM4	I	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	R	T	A	T	K	E	D	A	N	T	T	I	M	Q	S	I	R	K	K	I	A	E	I	Y	G	Q	N	K	E	
UniRef90_S8FUL8	L	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	T	Q	Q	A	Q	E	V	C	C	S	I	R	G	I	A	R	D	I	Y	G	T	Q	N	K	E	
UniRef90_R7A1X8	L	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	N	E	Q	A	D	E	A	C	G	W	V	R	A	A	I	A	D	M	Y	G	K	E	D		
UniRef90_R7H8F4	C	I	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	E	E	Q	A	Q	E	V	I	A	Y	I	R	S	L	A	E	E	K	Y	G	V	T	E		
UniRef90_E6MEK9	V	I	V	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	E	E	Q	A	Q	E	V	H	D	A	V	R	D	W	L	A	R	K	N	V	S	T	E	E	
UniRef90_A8MFY0	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	S	D	D	A	Q	S	M	C	N	F	I	R	N	L	L	A	R	E	M	Y	S	K	D	E	
UniRef90_S8DIS1	L	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	P	E	D	A	Q	E	V	H	A	A	V	R	D	W	L	A	K	T	N	V	S	A	D	E	
UniRef90_D6SAR1	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	S	E	D	A	Q	E	V	H	A	A	V	R	D	W	L	A	K	T	N	V	S	A	D	E	
UniRef90_F2DTB2	T	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	S	A	E	D	A	N	E	V	C	A	H	I	R	Q	W	L	A	S	K	T	I	S	D	K	A	E
UniRef90_UPI000479DBD8	V	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	A	D	Q	A	Q	E	V	H	C	F	L	R	Q	W	L	A	D	S	L	I	S	D	K	A	E	
UniRef90_L8GA44	T	V	I	A	Y	E	P	V	V	W	A	I	G	T	G	K	T	A	T	A	D	Q	A	Q	E	V	H	C	F	L	R	Q	W	L	A	D	S	L	I	S	D	K	A	E	
UniRef90_R7KPG5	V	V	I	A	Y</																																								

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

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UniRef90_C2BDL7 ML K D V L K A K Y V I L G H S E R R R R Q Y F N E T D N E T V N K K V L A A L K H G L
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UniRef90_R5PUL0 ML A S C G V G Y V I V L G H S E R R R R Q Y F N E T D N E T V N K K V L A A L K H G L
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UniRef90_I4X8S2	L V I	A Y E P I	W A I	G T G K T A T	A E D A N E T	R K K V V	A A L Y H D
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UniRef90_G0A5F5	A V I	A Y E P I	W A I	G T G K T A S	A D E Q A Q E	R K R I V	A S E K L N
UniRef90_A2EGX9	V V I	A Y E P I	W A I	G T G K V A S	T Q D A Q E E	R D T L V	A A K V G A
UniRef90_UPI000375864B	T V I	A Y E P I	W A I	G T G K T A S	S D Q Q A Q E	R S V L V	S E A K H G
UniRef90_U2KBF8	L V I	A Y E P I	W A I	G T G K T A T	A F E Q A Q E	R K T I V	S E A K Y G
UniRef90_W5XBC7	G V V	A Y E P I	W A I	G T G K T C D	T A E A E R V	R S E L V	S K F D E D
UniRef90_D8SZK9	V V I	A Y E P I	W A I	G T G K V A T	A P Q Q A Q E	R R W L V	T D N A S T
UniRef90_R6AH99	I T V	A Y E P I	W A I	G T G K T A T	A N E E A N R	R R V I V	A E L Y S G
UniRef90_UPI00037CBC0F	L V I	A Y E P I	W A I	G T G Q T A S	A D E Q A Q E	R G L V V	A E L F N Q
UniRef90_C5BPZ9	G I I	A Y E P I	W A I	G T G K T A T	A P E M A Q D	R E V V V	E E L F N Q
UniRef90_R5SM91	C V I	A Y E P I	W A I	G T G K T A T	A P E Q A A E	R A T I V	R A M Y G A
UniRef90_UPI00034DA99E	I V I	A Y E P I	W A I	G T G E V A T	A P E D A Q E	R V R L V	S E L Y S S
UniRef90_I0H1E5	I V I	A Y E P I	W A I	G T G K T A S	A P D D A Q E	R A R L V	A E K F G G
UniRef90_A8UHL9	I V L	A Y E P I	W A I	G T G E T A S	A P E Q Q A Q	R E T L V	A D K Y G K
UniRef90_K4IXK5	V V I	A Y E P I	W A I	G T G E T A S	A P E Q Q A Q	R K T L V	A A K Q Y S
UniRef90_T0NWA6	L V L	A Y E P I	W A I	G T G L T A T	A P E Q Q A Q	R A T V A	A D K H Y D
UniRef90_UPI00047AEAA4	L I I	A Y E P I	W A I	G T G K T A T	A P E Q Q A G	R T V L V	R K L Y G A
UniRef90_L0EJV5	A V I	A Y E P I	W A I	G T G K S S T	A D D A E D V	R G V V V	R G L F G E
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UniRef90_H7FTH5	I V L	A Y E P I	W A I	G T G E T A S	A P E Q Q V Q	R E T V V	R K A F G S
UniRef90_N6X4Z4	I V I	A Y E P I	W A I	G T G K T A T	A E E D A Q Q	R R R V L	A D S Q T G
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UniRef90_C3XAX3	I V V	A Y E P I	W A I	G T G K T P S	P L A V E E V	R E Q M V	R K N P D A

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A S E K L R I Q Y G G S M K P A D N A K E E L F A K P P E D D G G G L I I G G G A S L K A D
V A E G L R I L Y G G S V K P A D N A K E E L F S K P P D D D G G G L I I G G G A S L K A D
T A Q D V S I L Y G G S V K P A K N A A K E E L F S K P P D D D G G G L I I G G G A S L K A D
V A D N G L T L L Y G G S C K N A K N A A T S E L F A F G M A P P D D D G G G L I I G G G A S L V A D
V A D G V R I L Y G G S V K P A K N A A K E E L F F G N M A P P D D D G G G L I I G G G A S L K A E
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V A R S V T I L Y G G S M N D K N A F E L L A Q P P D D D G G G L I I G G G A S L V P S
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V A D E I S V L Y G G S C K P S N A K E E L F A N P P D D D G G G L I I G G G A S L K A D
V A E A V R I L Y G G S V K P P A N I D A E L L M A Q P P D D D G G A L V V G G G A S L V A D
A A D S L R I Q Y G G S V K P A N I K E Y M A E S P P D D D G G A L V V G G G A S L E P Q
V A Q E T R I L Y G G S V S P G N C N E E L A Q L P P D D D G G F L V V G G G A S L K A S
A A E E T S I L Y G G S C K A S N A P E E L F A K P P D D D G G G L I I G G G A S L K A D
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I A D K V Q I L Y G G S V K V T E N A K E E L G A Q P P D D D G G F L V V G G G A S L E P A
T G N G V S I L Y G G S V K P A N A A E L F A K E N I D D D G G G L I I G G G A S L K A D
A S D A V R V L Y G G S V K P A N V K D I L A K E N I D D D G G A L V V G G G A S L Q V
V A E Q V V I Q Y G G S V K A T N I D E E L L D Q S P P D D D G G A L V V G G G A S L D P E
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A A E N T S I L Y G G S C K A S N A P E E L F A K P P D D D G G G L I I G G G A S L K A D
A A E Q V R I Q Y G G S V K P E N N I A S F M Q Q S D I D D G G A L V V G G G A S L A A D
V G A E N R I L Y G G S V K A S N A K E E L A A C P P D D D G G F L V V G G G A S L K P T
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A A E K I R I L Y G G S A N G A N C S T F K D K K P P D D D G G F L V V G G G A S L K P E
T A E Q V R I Q Y G G S V K P A N V K E L L M S K P P D D D G G G L V V G G G A S L Q N A
V A Q V R I Q Y G G S V K P G N V D G L L Q P P D D D G G A L V V G G G A S L N A P
A A E K T R I L Y G G S V N G K N A P E F K D K A D V D D G G F L V V G G G A S L K P E
V S E A V R I Q Y G G S V K P A N V A E E Y M S K S N V D D G G A L V V G G G A S L E A D
I A E N I R I Q Y G G S V K A S N A E E L F A M P P D D D G G G L I I G G G A S L N A D
V A D K V R I Q Y G G S V K P E N N A E E L F A M C P P D D D G G A L V V G G G A S L K V D
I A N N V S I L Y G G S V K P A N A V E I F G K P P D D D G G G L I I G G G A S L V A D
A A F N C S I L Y G G S C N P G N A K E E L F S Q P P D D D G G G L I I G G G A S L K S D
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T A D A V R I Q Y G G S V K P A N V K E Y M G Q A N I D D G G A L V V G G G A S L E P A
V A E G M I L Y G G S V N E K N A D D L L N M P P N I D D G G A L V V G G G A S L V A D
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A S E K L R I Q Y G G S V K P A T I D E L L M G M E H P P D D D G G A L V V G G G A S L E A S
V A E K T R I L Y G G S A N G S N A K G L F K D K P P D D D G G F L V V G G G A S L K P E
I A E K V Q I L Y G G S V K P D N A A K G L F A M P P D D D G G G L V V G G G A S L D A K
I A E N K V R I L Y G G S V K P N N C N E E L A A C P P D D D G G F L V V G G G A S L E P G
V A K Q I R I Q Y G G S V K P E T N A R E L M S Q P P D D D G G A L V V G G G A S L D A N
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F A Q H T R I L Y G G S M N A K N A A G L K A M P Q I D D D G G L I I G G G A S L V A E
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L S Q E L R I Q Y G G S V K P S N N V K E I L M G Q S P P D D D G G A L V V G G G A S L S K D
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I A D E V R V L Y G G S V K S S N I G D L I G Q A D V D D G A L V V G G G A S L N D E
I A E N T S I L Y G G S C N A K N A G E L F A Q P P D D D G G G L I I G G G A S L K V E
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A L R R Q F F V G G N T K M Q V T F N S L N D I I E N L N K A D L D D K S T E K V L L
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V A T S V R I L L Y G G S S V K T A A T C K E E L A G M S E E D I D D D G G F L I V G G G A S L L E A D
I A S Q E T R I L L Y G G S S V K E G N I S E E L M A E E D I D D D G G A L I V G G G A S L L E A D
V A D E T R I V L Y G G S S V K E K N I C R E E L A K M E E D I D D G G A L I V G G G A S L L E A D
V S A D K V R L L Y G G S S V K G G N A A E E L F G M P P D I D D G G A L I V G G G A S L L E A D
I A A I N V S L L Y G G S S V K P A D N A T E I F F G Q S D I D D D G G L I V G G G A S L L E A D
L A A S L P L L Y G G S S V K K A D N A A L L F A Q P P D I D D G G A L I V G G G A S L L E A D
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UniRef90_D3LUY7 T P I L V I G G E T A Q Q R A G R T D D L L G T Q L R M A L A K V R M A D A S R K
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UniRef90_E3J1Q9 T P I V V I G G E H E D V R V A G N H V E H C L A Q L E G S L A G L K P A Q A K T
UniRef90_UPI0003607581 V A V V L I G G E S L A Q R E A G E T L T V L G D Q L A G S L H D D D V S P S D
UniRef90_S9RNH5 T V V L V I G G E S L A E R E A Q N T L D I I G G Q L A G S L P D G A T G H N
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UniRef90_J9Y8Z2 V P I I V I G G E T P L E V R E A D D V E S F V G E Q L D A L V S A M S V D E L S K
UniRef90_W4HKNO R V I L V I G G E T L E E R E A E R T L D V V G G Q L A D S I P D G A D A G S
UniRef90_UPI0003A43C62 T P I F C C C C G G E A L P V R E V N Q N D F V T R Q L L E E S L F S L S A E E I Q K
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		170	180	190	200	
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UniRef90_UPI00046A7D44	T V I	A Y E P I	W A	G T G K V	P T L D Q Q V E V H D F I	R E R I T T T R Y G A P
UniRef90_A1AXX3	I V V	A Y E P V	W A	G T N V D	T P D Q Q A Q E D T H A F I	R R S M L A E Y D A D
UniRef90_B1XPX4	L V I	A Y E P I	W A	G T G D T	C D A T E A N R V T I G L I	R E K L
UniRef90_C8X9I9	L V L	A Y E P V	W A	G T G R V	A D A Q E V C A F I	R V A L L A G K Y G Q E
UniRef90_UPI000470EA94	G L I	A Y E P I	W A	G T G L A	A T T P D Q Q A Q M S F I	R A E L V R Q F G E R
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UniRef90_E3H220	L V V	A Y E P V	W A	G T G K V	A T A D D A Q E E M S A F I	R A E F E K L Y S A D K
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UniRef90_Q87T31	A I I	A Y E P I	W A	G T G K A	A T A E D A Q E E I H A S I	R A L I A A A K L D E A
UniRef90_B2V9Z2	D I I	A Y E P V	W A	G T G K N	A T K E Q A Q E E V H H F I	R T L I N E L S K G E
UniRef90_H4GIY3	L I I	S Y E P S	W A V	G A G Q H	A N P L A E E G C R Q I	R Q T I E A D S Y S Y E
UniRef90_B6AV74	L V I	A Y E P I	W A	G T G K V	P S L E Q I S E E V H D S I	R R K R L E H D R F G P E
UniRef90_M8AXJ0	V V V	A Y E P I	W A	G T G K V	A S P A Q A Q E E V H A N I	R D W L K T N V S S P E
UniRef90_S6GC79	I V V	A Y E P I	W A	G T G E T	A S P E D D A Q Q M H S A I	R T V L A E S Q I S V A
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UniRef90_B4DUI5	V V L	A Y E P V	W A	G T G K T	A T P P Q Q A Q Q E V H E K I	R G W L K S N V S D A
UniRef90_A0YEX6	A V V	A Y E P I	W A	G T G K T	A T P P E Q A Q Q E V H A H I	R G V I A S L H P G K E
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UniRef90_UPI00047C9DB4	L V V	A Y E P I	W A	G T G K T	A S P Q Q A Q Q D V H A F I	R G H L A R Q N A E E
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UniRef90_A9VWC8	T V I	A Y E P V	W A	G S G R T	P T A T E I A E E V H A S I	R E M L T S D K L V G I
UniRef90_B2GH86	L V V	A Y E P V	W A	G T G E V	A G P E D A Q E E M C H A I	R D E L T S L Y S G D
UniRef90_D5UF26	L V I	A Y E P V	W A	G T G K T	A T P P E Q A Q Q E V L C A A I	R V K V A E L Y D Q A
UniRef90_K4KKW1	I V V	A Y E P V	W A	G T G K T	A T P P E Q A Q Q A V I H A F I	R D Q L T T M Y N K E
UniRef90_T0L7C6	V V I	A Y E P V	W A	G T G K N	A T P K Q A Q N E I H A F I	R E K L T T M Y N K E
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UniRef90_UPI00047C5190	L V V	A Y E P V	W A	G T G R T	A T P E Q A Q Q S V H A R I	R A Q L K Q A A T G P
UniRef90_R7LB19	T I I	A Y E P I	W A	G T G K T	A T A E D A T N S I K D I	R N E I V R K N Y G Q Q
UniRef90_F5SGJ2	L I L	A Y E P V	W A	G T G R S	A T A E D A T D V I R F I	R K S V A D Q F D N Q
UniRef90_A0QHY3	L V I	A Y E P V	W A	G T G R V	A S A S D A Q E V C A A I	R K E L A S L A S A Q
UniRef90_UPI000365EB92	V V I	A Y E P V	W A	G T G E V	A T P S E N A Q E E V C C A I	R A K L A E L Y S P E
UniRef90_A9KBK2	M V V	A Y E P I	W A	G T G K N	A T P S Q A E E V H A A I	R D Q L H R Q D A T
UniRef90_K2JUX7	L V I	A Y E P V	W A	G T G Q T	A T P P E Q A Q Q E V H A E I	R S W L Q Q Q L G D
UniRef90_Q1QSY6	V T I	A Y E P V	W A	G T G R T	A T P P E Q A Q Q E V M A A I	R E Y Q A G F D P A
UniRef90_Q1GZK6	A V I	A Y E P V	W A	G T N R T	A T P P E Q A Q A R A H S F I	R E R I A A M H P G
UniRef90_W5TJW4	V V I	A Y E P V	W A	G T G R V	A T P A D A Q E V C G A I	R A E L V I E L A G E D
UniRef90_UPI00029AAB32	A L L	A Y E P V	W A	G S G I S	A R P E Q V Q E E V H Q Q I	R Q Q V A F Y V D V A
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UniRef90_G0QUL1	V V I	A Y E P V	W A	G T G K V	A T P A Q A Q Q E V H D F I	R G Y L A Q N I S K K
UniRef90_UPI00047C846B	A V I	A Y E P V	W A	G T G R T	A T P P E Q A Q Q E V H G F I	R S Q L A R E T S K M
UniRef90_W5SM86	I I L	A Y E P V	W A	G T G K T	A T K E E A Q E E V H R A I	R L E I E A L Y S R S E
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UniRef90_Q82TU1	S V I	A Y E P V	W A	G T G K T	A T P P Q Q A Q Q D V H K F I	R S R I A V H S G G
UniRef90_B0VFR7	I I L	A Y E P V	W A	G T G K T	A T P P Q Q A Q Q E V H N L I	R N W L K S N Y S D K
UniRef90_R5H2L0	S V I	A Y E P I	W A	G T G K T	C D A D E A N R V I A M I	R S V V K E V A G A E
UniRef90_Q4U9J9	V V L	A Y E P V	W A	G T G K V	A T V D Q Q V K E A H K F I	R D Y V R G L V G D
UniRef90_M5DJY8	S V L	A Y E P V	W A	G T G K T	A T P P G Q A Q E E V H A F I	R D R I A A H S P E
UniRef90_UPI000262878E	C I V	A Y E P V	W A	G T G K T	A T P P D Q A Q A N E M H Q F I	R G Q L V G L T N N A A
UniRef90_S2L5P2	M L I	A Y E P V	W A	G T G K T	A S P E Q A Q A V H A A I	R A R L K E Y D A A
UniRef90_L1ILQ4	V T I	A Y E P V	W A	G T G L V	C D A S V A Q D V H K F I	R G W L A N M Y D Q E
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UniRef90_P36186	V V I	A Y E P V	W S	G T G V V	A T P E Q A E E V H V G L	R K W F A E K V C A E
UniRef90_R6J889	T V I	A Y E P V	W A	G T G K T	P T A A D V E E V H A A V	R K V L A K K I G K A
UniRef90_A0A010PMF3	L V V	A Y E P V	W A	G T G K V	A G P E D D A Q E E M S A A I	R A K L A E L Y S E G
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UniRef90_S6BZ24	G V I	A Y E P V	W A	G T G K V	A S P E Q A Q E E V H A F I	R G R I A A A S A T
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UniRef90_W0EZ65	V V L	A Y E P I	W A	G T G K T	A T T A Q A Q E E I H A Y I	R S V I A N Q Y G A E
UniRef90_K2EYW0	S V F	A Y E P I	W A	G T G K T	C D A Q E A N R V I K M I	R S V I A E V S T Q D
UniRef90_D3LUY7	V I V	A Y E P I	W A	G T G Q T	A T V A Q A Q A T C A F I	R R Q L A A A L Y N S D
UniRef90_B9CP50	Y V V	A Y E P I	W A	G T G K T	A T A D D A Q E E V C G A I	R R K T L A E I F G S E
UniRef90_E3J1Q9	V V I	A Y E P V	W A	G T G R T	A S A Q D D A Q D M C A A I	R E R L A G L F D A E E
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UniRef90_S9RNH5	L V V	A Y E P I	W A	G T G K V	P T T D E I G E V H D F M	R A R L E R R F G E G
UniRef90_Q1LTT4	A V I	A Y E P I	W A	A T G K S	A N S P L Q L Q K I H K F I	R S Y L F N H D Q A
UniRef90_Q2SRB2	T I I	A Y E P I	W A	G T G K T	A N S L D A E E E V C K K I	R E N L A K I Y D N L
UniRef90_K9TKH5	L V I	A Y E P I	W A	G T G E T	C S D E A N R V I G L I	R S K L
UniRef90_J9Y8Z2	T V I	A Y E P I	W A	G T G K T	A S P E Q A Q E E V H E F I	R G Y F N K V D A Q
UniRef90_W4HKNO	L V V	A Y E P I	W A	G T G K V	A S P P Q Q A E V H D A I	R T A I C E R F G D D
UniRef90_UPI0003A43C62	V I I	A Y E P I	W A	G T G K T	A S D D Q A Q E E M H A H I	R S Q I G R K Y G E A
UniRef90_B1WSS3	L V I	A Y E P I	W A	G T G D T	C E D A T E A N R I T R V I	R D Q L S N
UniRef90_G6FNE5	L V I	A Y E P I	W A	G T G D T	C E A S E A N R V I G V I	R K Q L K N
UniRef90_R6H5X8	V V V	A Y E P I	W A	G T G R T	A T P P E Q A E E V C A A I	R A T L N A E F G G D
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UniRef90_F5Y8D6	L T I	A Y E P V	W A	G T G K T	A T P P D D A E A H A Y I	R S V I A K L Y G A Q
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UniRef90_A9E945	T V I	A Y E P I	W A	G T G K V	P S T A Q I K E V H D F I	R T R L L D R F G G T E
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UniRef90_UPI00046A7D44	V	A	E	L	I	P	L	L	Y	G	G	S	V	K	S	D	N	A	A	A	M	L	F	Q	A	E	N	D	D	G	G	L	V	G	G	A	S	L	K	A	D						
UniRef90_A1AXX3	I	A	Q	L	T	S	L	L	Y	G	G	S	M	K	S	R	N	N	A	A	E	L	L	N	C	K	P	E	D	D	G	G	L	V	G	G	A	S	L	K	A	D					
UniRef90_B1XPX4	T	N	K	N	V	T	L	Q	Y	G	G	S	V	K	S	P	N	N	V	D	E	I	M	A	Q	P	E	I	D	D	G	G	L	V	G	G	A	S	L	K	E	A	D				
UniRef90_C8X9I9	T	A	D	K	I	R	L	L	Y	G	G	S	V	K	S	G	N	N	V	A	E	I	C	A	Q	T	P	E	D	D	G	G	L	V	G	G	A	S	L	L	D	T	E				
UniRef90_UPI000470EA94	A	G	K	A	I	K	L	L	Y	G	G	S	V	K	S	G	N	A	V	S	V	L	S	Q	P	E	D	D	A	G	G	L	V	G	G	A	S	L	L	K	A	D	E				
UniRef90_A4A9Y6	S	A	E	S	L	R	L	L	Y	G	G	S	V	K	N	A	G	N	A	S	E	L	F	A	Q	P	E	D	D	A	G	G	L	V	G	G	A	S	L	L	D	A	E				
UniRef90_E3H220	V	A	E	K	V	R	L	L	Y	G	G	S	V	K	S	S	S	A	P	S	I	L	M	G	K	E	D	D	D	G	G	L	V	G	G	A	S	L	L	Q	A	E					
UniRef90_W0FR79	C	A	E	A	I	T	Q	Y	G	G	S	C	N	A	K	N	A	A	E	A	G	L	F	A	Q	P	E	D	D	N	G	G	L	V	G	G	A	S	L	L	K	A	E				
UniRef90_Q87T31	V	A	A	Q	V	I	Q	Y	G	G	S	V	K	P	E	N	N	A	E	A	Y	F	S	Q	P	E	D	D	D	G	G	L	V	G	G	A	S	L	L	D	A	K					
UniRef90_B2V9Z2	N	D	E	T	T	R	I	L	Y	G	G	S	V	K	N	E	N	N	A	K	D	L	L	S	Q	K	N	D	D	D	G	F	L	V	G	T	A	S	L	L	D	P	K				
UniRef90_H4GIY3	V	A	D	K	I	R	L	L	Y	G	G	S	V	K	P	A	N	A	E	E	L	M	R	K	R	N	D	D	D	G	G	L	V	G	R	A	S	L	L	A	A	D					
UniRef90_B6AV74	I	A	R	S	I	R	L	L	Y	G	G	S	V	K	P	A	N	A	E	E	I	F	A	Q	P	E	D	D	D	G	G	L	V	G	R	A	S	L	L	A	A	D					
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UniRef90_D5UF26	T	A	D	A	V	R	V	L	Y	G	G	S	V	K	S	S	N	V	A	S	I	L	M	D	K	P	E	D	D	D	D	G	A	L	V	G	G	A	S	L	L	D	D	P	E		
UniRef90_K4KKW1	A	G	E	Q	V	R	L	L	Y	G	G	S	V	K	P	A	N	A	E	A	L	F	A	K	T	P	E	D	D	D	D	G	A	L	V	G	G	A	S	L	L	K	A	D			
UniRef90_T0L7C6	T	A	Q	K	M	Y	L	L	Y	G	G	S	V	T	P	E	S	A	D	D	L	I	E	M	P	E	D	D	D	D	G	F	L	V	G	G	A	S	L	L	D	P	E				
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UniRef90_Q1QSY6	L	A	Q	S	M	R	L	L	Y	G	G	S	M	N	A	A	N	A	A	A	E	L	L	A	Q	P	E	D	D	D	D	D	G	G	L	V	G	G	A	S	L	L	K	V	D		
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	170	180	190	200
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UniRef90_B6JFZ2	F L A I A E A
UniRef90_D4MAJ5	F L D I
UniRef90_J1TCP4	F L A I
UniRef90_K2AC18	F L A I C N A A R
UniRef90_G2KVF3	F V K L A N
UniRef90_I0IBN6	F L A I V S A A
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UniRef90_U5NDC9	F L E M V N
UniRef90_Q3Z8H2	F V S I C R Q A
UniRef90_Q215B4	F L A I
UniRef90_UPI00036ECCBA	F A I I I K A
UniRef90_T0Y4E9	F L
UniRef90_J0X241	F S M I V R L T Q
UniRef90_Q823U7	F A N V L R
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UniRef90_E3C9V9	F L E I V N
UniRef90_G7VJJ8	F L Q L V A I A Q
UniRef90_S7KDV2	F V D T I
UniRef90_I3IDZ9	F V A I C E Q A
UniRef90_UPI0003B6795E	F S A I V R Y Q K
UniRef90_A3WPL1	F C A I C R A A K
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UniRef90_UPI00020031F8	F A R I A N
UniRef90_UPI0003B3F690	F S S I V R F K K
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UniRef90_E4RN74	F S E I I
UniRef90_Q0APU0	F S A L I E A V
UniRef90_H8YWS4	F L
UniRef90_H0SHM9	F L A I A K
UniRef90_L0EUW7	F L D I I K S F R
UniRef90_N9RQ01	F Y Q I A K A
UniRef90_Q98ME7	F L G I A E A Y R
UniRef90_Q801K6	
UniRef90_B7FSQ0	F G R I I N
UniRef90_Q5L6H0	F A D V V
UniRef90_H6RF29	F Q G V I E
UniRef90_G4R8Y1	F F S I I V A A
UniRef90_UPI000349B23E	F A R I V N
UniRef90_B4RBW9	F L G I V N A
UniRef90_UPI0003A807EB	F L A I Y Q A
UniRef90_B8J003	F L Q I I G A
UniRef90_A9HJ86	F L P I V R A A
UniRef90_G7SQI6	F M R I I Q S
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UniRef90_E0TGS3	R	R	L	I	A	G	N	W	K	M	N	G	D	L	V	S	E	V	T	T	L	A	Q	R	L	E	T	P	R	P	D	N	V	D	V	V	I	
UniRef90_C7PI53																																						
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UniRef90_U6E3P6	Q	R	K	V	I	A	C	N	W	K	M	Y	K	N	K	P	E	A	L	N	F	I	K	K	V	N	F	F	V	P	N	K	V	E	T	I	I	
UniRef90_J0Z311	R	P	L	I	A	G	N	W	K	M	N	G	T	S	E	S	L	G	E	L	I	A	A	G	V	S	S	D	L	G	R	L	F	E	A	L	I	
UniRef90_I1XMQ2	R	K	P	L	V	A	G	N	W	K	M	N	G	S	S	A	S	N	K	L	L	D	A	L	A	Q	R	D	S	F	A	S	V	D	V	A	L	
UniRef90_E4UDE7	R	P	L	V	V	G	N	W	K	M	H	G	L	R	A	S	L	D	K	L	E	K	T	V	E	S	V	E	K	N	H	R	L	D	V	A	L	
UniRef90_K1P159																																						
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UniRef90_B7QP30	R	R	K	L	A	A	G	N	W	K	M	N	G	T	A	A	A	L	D	E	L	A	A	L	A	E	A	T	R	E	A	R	A	E	V	L	I	
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UniRef90_P0C0J6	K	K	L	I	I	G	N	W	K	M	N	K	T	V	S	E	T	R	D	F	I	Q	K	F	N	V	G	K	I	K	E	D	L	D	F	A	L	
UniRef90_E6W5F7	R	T	T	Y	L	V	I	G	N	W	K	M	H	Y	A	P	A	D	T	R	T	F	L	A	R	F	L	S	G	T	V	T	A	G	R	E	L	V
UniRef90_K2M867	R	P	L	I	A	G	N	W	K	M	N	G	T	G	A	A	L	V	E	L	T	A	M	T	A	G	D	A	A	C	H	E	A	L	I			
UniRef90_N9MCV6	S	A	I	T	P	W	V	I	G	N	W	K	M	N	P	V	Q	A	E	A	Q	Q	L	V	S	E	F	K	Q	A	L	D	A	Q	C	H	L	G
UniRef90_E5ASV0	Q	R	S	K	L	V	V	G	N	W	K	M	H	G	R	V	A	D	N	A	L	L	H	A	L	V	Q	A	T	L	G	P	Q	V	R	L	G	
UniRef90_A5FXW5																																						
UniRef90_UPI00037C17C8	K	P	L	I	V	G	N	W	K	M	N	K	D	H	L	A	E	A	M	L	T	V	Q	A	F	D	F	A	L	P	K	E	Y	V	D	A	G	
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UniRef90_I7LBZ8	P	R	T	P	L	V	V	G	N	W	K	M	N	G	L	N	H	L	E	A	L	N	A	V	Q	K	L	A	F	A	L	P	K	E	R	V	D	V
UniRef90_S9SAR0	R	R	K	L	I	A	G	N	W	K	M	N	G	L	K	A	S	E	L	A	S	A	L	V	A	G	P	A	C	D	V	L	V	C				
UniRef90_V7IGB3	Q	P	W	L	I	G	N	W	K	M	N	G	R	R	S	T	V	A	F	A	Q	A	W	A	E	Q	R	L	P	E	N	V	S	T	G	I		
UniRef90_Q45Y86																																						
UniRef90_D4XVH2	K	K	L	V	I	I	G	N	W	K	M	N	K	T	F	N	S	V	L	F	M	D	S	F	N	K	K	I	H	E	N	T	E	F	A	V		
UniRef90_F1KXV2	R	K	L	V	G	G	N	W	K	M	N	G	D	K	K	T	I	D	S	I	V	A	F	L	N	E	G	A	V	V	P	N	V	D	V	V		
UniRef90_UPI00035F315D	K	P	L	I	A	G	N	W	K	M	H	G	T	A	K	T	A	A	K	L	A	A	D	L	A	N	S	S	G	D	Y	P	E	L	I	V		
UniRef90_UPI000050F728	S	D	R	T	L	L	A	G	N	W	K	M	N	G	T	A	K	E	A	L	S	S	V	Q	K	L	A	W	A	L	E	D	A	C	D	V	V	
UniRef90_G4CT13	K	K	W	V	I	G	N	W	K	M	N	G	Q	L	Q	N	N	A	L	V	H	K	L	R	S	L	P	K	M	D	N	V	C	I	G	I		
UniRef90_Q057N9	K	P	L	I	V	G	N	W	K	M	N	G	S	K	K	L	T	E	S	F	L	K	Q	L	N	Q	F	L	K	K	L	C	T	V	V	I		
UniRef90_UPI000309620C	R	R	P	Y	I	V	G	N	W	K	M	H	G	T	R	A	M	L	S	E	A	R	A	I	D	R	A	Q	R	H	M	K	V	E	V	A		
UniRef90_UPI00014A83B4	K	L	V	A	G	N	W	K	M	F	G	N	K	A	M	I	A	D	I	K	I	D	R	Y	C	K	E	K	T	C	E	V	A	I				
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UniRef90_S9SCC6																																						
UniRef90_W0V8S2																																						
UniRef90_UPI00047829BA	Q	R	T	P	L	I	A	G	N	W	K	M	N	L	D	H	L	A	A	I	A	L	V	Q	K	L	S	W	S	L	K	D	A	D	V	E		
UniRef90_F0RMU5																																						
UniRef90_K9Y6U7																																						
UniRef90_M3WUE6	S	R	K	F	F	V	G	D	R	K	M	Y	G	W	K	N	L	E	E	L	I	T	P	N	T	M	V	S	L	A	D	M	T	S	N	P		
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UniRef90_W0NZY3	K	K	Y	L	F	V	A	N	W	K	L	N	G	S	I	E	F	I	S	N	Y	F	K	F	N	S	E	I	G	L	E	K	N	I	V	I		
UniRef90_A6D532	K	K	L	V	V	G	T	S	W	K	M	N	K	D	A	S	A	A	S	W	A	A	V	E	Q	A	V	E	R	S	D	I	Q	P	F	V		
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UniRef90_I3TLF1	R	P	T	P	L	V	A	G	N	W	K	M	N	M	L	V	A	D	G	R	A	L	A	E	V	A	A	G	A	E	G	L	A	G	F	A	V	
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UniRef90_UPI00036088AA																																						
UniRef90_UPI000468F027	K	K	I	M	I	G	T	S	W	K	M	N	K	T	L	Q	A	I	D	Y	C	E	V	L	A	S	Q	L	N	D	S	A	I	Q	P	F		
UniRef90_V9TRP3	P	R	S	L	I	V	G	N	W	K	M	N	M	C	L	S	S	K	T	L	A	A	D	I	I	Q	N	V	S	S	K	T	I	E	L	A	I	
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UniRef90_UPI0003C138B9 C V P H P Y L Y Q A Q A I L K N T H I H W G G Q D N M R Y Q S S G A H H T G G S V S P P Q

UniRef90_B9JHW9 P P A T L I D R A A A I S K N K L R I G G Q D C H P N Y S S G A H H T G G D V S S A A Q

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UniRef90_C7P153 A T P F P Y L L K A K A L L K N T P Y V L G A Q D D C C A S E K S S G A Y T T G G E V S A E Q

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UniRef90_U6E3P6 F A Q S T L L D L L V Q N Q G N N L K I G A Q N N M F Y E D E S G A F T T G G E I S P L

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UniRef90_E5ASV0 C P P A P L I A P L R A A L D G A P V A L G A Q D D C A V K S S G A Y T T G G E I S A D

UniRef90_A5FXW5 A V P F T D L R S V Q A T M V S E E K M K G A Q D I L S A H E S S G A Y T T G G E I S A G

UniRef90_UPI00037C17C8 C P P A T M I M A A A S I C E G A P V A G G Q H C H A E P S G P F T T G G E I S A E

UniRef90_UPI0004175B17 T V P F T D L R S V Q T L L E G S D R L F G A Q D D V S R H P E E G A H H T G G D V A A S

UniRef90_I7LBZ8 P P F P L I L V P V A A A L A G S G I P A V I G A Q D C H A R R P A G A H H T G G D V A A P

UniRef90_S9SAR0 A A P L P Y L L D L K Q A A P A L P V G A Q D V S R F D K D G A F T T G G E T S A A

UniRef90_V7IGB3 A P A T P Y L D Y V R S K V N A N Y V A V A A Q N C Y K V G K G A Y T T G G E I S P S

UniRef90_Q45Y86 A L P F T N L A A H K T K N V K V I S L A A Q D V S V H A K G A Y T T G G D I S V Q

UniRef90_D4XVH2 A P P A P Y L S Y V K E H V K P G I E V A A Q N C Y K V P K G A Y T T G G E I S P A

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UniRef90_UPI00035F315D I P P F T D L R S V Q T L L I Q G D K L W G A Q D V S D I S E P G A Y T T G G E I S A E

UniRef90_UPI000050F728 S P P T V Y L S Q V H N A L E N K I H T C A Q D V R F N G S S G A Y T T G G E I S A E

UniRef90_G4CT13 A P P V L Y S H P I Q N M F S D K F L G A Q N I D I H F S G P F T T G G E I S P I

UniRef90_Q057N9 A P P Y T L I H P I R E A E Q I A V I G A Q D C H H H E D S G A H H T G G D I S G A

UniRef90_UPI000309620C C P P F P L I S A A H E Q T K N I K I I G A Q N C H I N I N G A H H T G G E T S A E

UniRef90_UPI00014A83B4 M A P A L D L P T L A A N L P A G V G Y G G A Q D V S A Q E S S G A Y T T G G E T S A A

UniRef90_UPI0003B7B29C I P P F T A V R E V K A M L P A G T R V K V G A Q N M H W D A S G A Y T T G G E I S P V

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UniRef90_W0V8S2 F P P F T D L R S V Q T L L P T A D K V L G A Q D I S P E A A G A Y T T G G D I S A A

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UniRef90_K9Y6U7 P P P N C L I D F V R Q K L D P K I A V A V Q N C Y K V I P N A A F T T G G E T S P A

UniRef90_M3WUE6 A P P T I Y L E R V C K N I S N M N I F L G S Q N V D I N N G A F T T G G E T S I L

UniRef90_P57393 A P P A I Y L N E V Y K N I H S M N I F L G A Q N V D K N T G A F T T G G E T S I L

UniRef90_W0NZY3 I P P F P Y L S Q M A Q T L N A D A I K L G A Q N M C W D S G A F T T G G E V S P L

UniRef90_UPI0003B707CC C V P S T L I A R A A D A A P T L P I G A Q D C H Q A E H G A H H T G C V S A A

UniRef90_I3TLF1 C P P A A L L P V V G E A T R G S K V A L G A Q D D C H A K S G A H H T G D H A A A

UniRef90_I2CCR8 A P P T I Y L Q Y V K D S V S A G V G V A G Q N C Y K C E K G A F T T G G E I S P Q

UniRef90_UPI00036088AA I P A F T A V R E V K R A L S G R T S V K V G A Q N M H W E D G A F T T G G E V S A P

UniRef90_UPI000468F027 I P P F T L I R E V T E R L Q S R Q G V D C A Q N I H Y A D A G A W T T G G E V S A A

UniRef90_V9TRP3 C P P F V Y L L P V S L L L S S S K V L L G Q D C H N Y K S G A H H T G G E I S A P

UniRef90_UPI0004799F7F V P P A L Y A Q L A A A N S A N P I C L S A Q A S R F N G S S G A Y T T G G E I S A P

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UniRef90_F3WUK1 A V P F T L I A P A A E R V P S L S I G A E D V S H E R D S G A H H T G C V S A G A

UniRef90_UPI0002378500 A V P A P Y L A Q V Q A L T A G T V L L A A A Q D V S Q H E A S G A Y T T G G E V S A A

UniRef90_U5QM09 C G P Y T C L D I L S A N A G P Y A V G A Q N V H W E N S S G A Y T T G G E I S P V

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130 140 150 160

T P I L V G E S L D Q R E T G E T E R V I F R Q I E Q G L E S V D P T R
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N A I F C C M G E E T L E G E E Y A R E D S G A T T D L V T I T R Q Q L N A V I N E I G V K G L A G N
I P I L C C C V G G E E N L E E T R R E A E G K A T V D T V V A Q Q L E E S S L K A A F P D G A G K G
K P I F C C C C G G E T L L A E R K A A G D T Q N L Q I I A G A Q Q F A T S S L Y D G T E A T A K N
T A I V L L C C C L G G E T L L E E T K E N N K T Q I F L E Q Q Q L T N T L K E V C S Q A L E K
V A L I V I C C C C I G G E S L P E E E H K S M G R T L E E M V L A R R L M D I V I A Q Q Q G V E M L S K
S P I L I C C C C I G G E T D E E E Y R S G R T L E E V L Q K Q L D F S L P H E C G D S I
K V I A C C C C I G G E K L I E E E R E A G K T A E E V L F R Q Q L T A T G L E N I T A D Q W P N
K V V L I C C C C I G G E T L I E E E R E A G R L A E V L E R Q Q L A T G L A G V K T A D A V P E
T A V I L C C C C I G G E T L I E E E R E A G K A T L D V V L R S Q Q L D G S L P D K D S T G D T
T P I V I C C C C I G G E S L A E E E R E A G D A F L R L S A Q Q I A G A V P A G F G A D S A G
I P V F C C C C I G G E S L L E F E F E A G L T F K K V I I S Q I N A I K S V L N F Q K
T P I I C C C C I G G E T L L E Q R E R E A G E A Q V I V R Q Q V E A A V A G M D I T R
T A V I C C C C I G G E S K Q D R E S G G E T L A V L S R Q Q I A G S V P K A A K A A G
T V I Y C C C C I G G E S L Q D Q R E S G Q A E T Q V V L C D I A A V V E A E A E Q W N
T P I V C C C C I G G E T L Q D E R Q S G Q T D S V V R A Q Q L A A V L D A L D E T D V A R
V P I I C C C C I G G E T P E A E R E A S G E A E T V V R A G L A G S L P Q T V P G V V A P
T A I V C C C C I G G E T K A E R E A G E A L P V V V G A Q L A G S L P L N S S S E T
T P I V C C C C I G G E T P A E V R E A G H V L D E Y V T E Q L R G S L P E G I D D T S R
I A I V C C C C I G G E T L A E Q R E A G R T L E V N T E Q L R G S L P A G A T P A N
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N V I A C C C C I G G E K L I E E E R E A G K T N E V V F R Q Q T A T A D N V S D W K R
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170
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P I V A Y E P I W A
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G V I A Y E P V W A
A I I A Y E P I W A
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R G W V G H
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UniRef90_G4QCQ5	M L T D L G C K W V I V	V G H S E R R K A T F H F G E	T A S T V A D K A R A V A	A G L
UniRef90_UPI00036A3B4A	M L A D V G C E M V I V	V G H S E R R R E F F G E T	T A S T V A D K A R A V A	A G L
UniRef90_J7FMM4	M L A D L G V K Y V V I	V G H S E R R R E F F G E T	T D E E T A N R K A H A I F	K H G M
UniRef90_R7G1X4	M L E E M G L D L V M I	V G H S E R R R H V F G E S	T D V E E N K K V K A A L S	H G F
UniRef90_UPI00035FA82C	M L K D L G M D L V E L	V G H S E R R R E H F G E T	D D R T V G L K T A A A V K	H G L
UniRef90_E6WZ10	M L H E F E I D T V L I	V G H S E R R R Q I L G E T	D Q F V I A K K F A F Y R E	H G F
UniRef90_Q6PTF7	M L K D V G I E W V I L	V G H S E R R R H V F G E T	D D L I A R K V A H A L S	V G I
UniRef90_W5WVJ1	V T K D L G A S Y M L I	V G H S E R R R S L F A E S	T D A M I A D K V A L A Q S	L E M
UniRef90_D1Y3B3	M L K E A G C R Y V L V	V G H S E R R R H I Y G E S	S E L V N K K A L N C L A S	S A L
UniRef90_S7W5R7	H L K D I G V T Y V I L	V G H S E R M R Q L G E N	N Q T I S K K T E A A L K S	S G L
UniRef90_I2CCS0	M L K D L N I E W V I L	V G H S E R R R Q V F G E S	T D A L V A G E K V A Y A L A	C G M
UniRef90_Q127X0	M L Q D F G C R Y V I V	V G H S E R R R Q Q Y H G E	S D A L V A D K A K A A L A	A G L
UniRef90_K2DNC7	M Y K N I G C T Y A L A	G H S E R R R H I F G E T	N K D V R A K I E S Y L D A	A G L
UniRef90_C8PUQ4	Q L K D A Q V N V I V	V G H S E R R R Q Q Y F N E	D D A C L R K I R N A F A H	D L
UniRef90_C6XJT7	K W K D L G A G Y V I V	V G H S E R R R A Y Y Q E	D N K A V K A K S K F A R A	G L
UniRef90_K8ES31	M L R E F A C Q Y V I V	V G H S E R R R S Y H A E	V S E I V A A K A K A A L L A	A G L
UniRef90_A6DDW7	Q L K E F N I N K I L I	G H S E R R N I L F N E	S Q E F I A K K F E F F K K E	N E F
UniRef90_UPI0003B37FBA	Q L K D I S V D F V I I	V G H S E R R R N I L F G E	S N D E L V A K K L L S A L K	H N I
UniRef90_P59462	M L K D V G V S Y V L V	V G H S E R R R Q Y H R E	N D V I I A K K F K I V K D S	H L
UniRef90_H6SPX8	M L A D Q G C Q F V I V	V G H S E R R R A D H G E	S D A Q V R A K A E A A L A	A G L
UniRef90_UPI00034DD451	Q V K D A G A T W E I	V G H S E R R T H F G E T	V E T T R F K V E S A L R A	A G L
UniRef90_A9UCK9	M I K D L G I N W V I I	V G H S E R R R H V F G E S	T N Q L T G E K V A A A L C	Q G L
UniRef90_E5FT52	M L E A M N I D Y V I I	V G H S E R R R A Y F N E	S D E T C A E K K V K A A F A	H N L
UniRef90_K0G516	M L K D V G A D W V I L	V G H S E R R R A I F K E S	D E L I A E K K V E H A L A	E G L
UniRef90_B3ER35	M L A S I D V R Y V L V	V G H S E R R R Q N F A E	D N D L I A K K I D A I L A	C K L
UniRef90_UPI00036CE330	M A S H E D C S F S L V	V G H S E R R R D F F N E	D D L I G K K I H S A V L	Q N G F
UniRef90_UPI0002890C7F	M A S D A G C T F S L V	V G H S E R R R H L F N E	D D A L I K T K I K A A L	A G L
UniRef90_M5CG75	Q L V D A G I P W V I L	V G H S E R R R T L F G E S	D E V V A D K T K A A L D A	G L
UniRef90_K2B325	M L R E C G A D Y V I L	V G H S E R R R K L F A E	T D A L V A E K K L K A L A	D A G L
UniRef90_L0GB07	L K D V G V S W V I I	V G H S E R R R N L F G E	K D E L V A E K V A H A L A	S G I
UniRef90_B3L421	L I K E F G N K Y T I I	V G H S E R R R R G F Y K	N E E T L E Q K V Y N A V	Q S K L
UniRef90_I2CCS5	M L T D L G I E W T I I	V G H S E R R R I F G E S	D E L I S G D K Y Q F A V A	N N M
UniRef90_UPI0004785123	M A I D S D C S F C L I	V G H S E R R R E I F N E	D D N I S G K K Y Q M L A K S	H N I
UniRef90_K3XLK7	M L V N L G V P W V I L	V G H S E R R R A L L G E	S N E F V G D K V A Y A L T S	Q G L
UniRef90_I2CC74	M I L D V K A E W V I V	V G H S E R R R N V F G E	S D E L I S E K V F G H A L T	V G L
UniRef90_B6BWW8	M L T D F S S Q Y A I I	V G H S E R R N T A Y C E	S D L N I A E K V G R L K D	H H V
UniRef90_Q5FGU5	M L Y N S G C S Y V I V	V G H S E R R R S T F H E	T D H D V R L K A E C A I E	S G L
UniRef90_UPI000289A6F6	Q V A D A G A T W T I L	V G H S E R R R Q Q Y H Q E	T H D C L G E K K L T H A L	M Q N L
UniRef90_C9DE14	M L R D I G L E W V I L	V G H S E R R R N I F G E	T N E L V A E K V G Y A L S	A G M
UniRef90_H3NUM0	M L R E F G C S H A L V	V G H S E R R R L A W N E	S N A L V A E K A R R L E A	V G I
UniRef90_UPI0003FF2440	M L A E I G V D I T E I L	V G H S E R R R Q Y F N E	S D A V N R K A R A A L K H	G F
UniRef90_E3GQE6	Q L K E I G V D I L E I I	V G H S E R R R Q Y F N E	T D Y T V N R K L T A A L K	H G F
UniRef90_B0PG85	M L A E A G A R L V M I	V G H S E R R R H T F H E	T D A Q A E K K V R C A L D	H G F
UniRef90_Q9NBF9	M F Q E I G Q T W I I L	V G H S E R R R T L F Y E	D D E K I D G Y Y L N K T S	K S V
UniRef90_Q5IX06	M L A D K G I P W V I L	V G H S E R R R A L M G D	T D E V V G E K V A Y A L T S	G V
UniRef90_G2HZN3	Q L D E F E I K T I L I	V G H S E R R R H I L G E	T Q N V I A Q K Y E F Y K N	L G Y
UniRef90_K2GCX6	M L K T L G V E F V I I	V G H S E R R R C L F N E	E D S F I N S K I T R A L K	D G L
UniRef90_V4Q861	Q L R D A G A T W V I L	V G H S E R R R H G H L E	P C E L V A R K V K A A L A	R A G L
UniRef90_B5TYM2	M L K D V G A D W V I I	V G H S E R R R T I F G E	S D Q L V A E K T A Y A L A	A Q G L
UniRef90_A6VPN2	M L K E L G I E V V M I	V G H S E R R R H V M K E	T D Q E E N E K V L A S L A	K H N F
UniRef90_F1Z9L0	M L A D I G A D V V I V	V G H S E R R R R V D H G	E T D A I L V K A K V E A A L	A G L
UniRef90_R3TNL9	S L I A L G G R Y V E L	V G H F E R K T L F F E	T N Q Q I K E K I H L T L	S E S M
UniRef90_D7GGT8	Q V A D A G A Q L V E V	V G H S E R R R A N F G	D T V V A E K V R A I L G E	H G L
UniRef90_C9D9H2	M L K D L G L N W V I L	V G H S E R R R N V F G E	S D T L V A E K T A H A L I	E E G L
UniRef90_R2QYI4	T L D A I G G Q Y V E L	V G H F E R R N Y F N E	S D A M I K Q K V E L S L S	F G M
UniRef90_D7FSR6	M L A S V G C E Y I L C	G H S E R R S V F G D S	D E M V N K K V H K V L D	Q G L
UniRef90_B4FY90			Q B F V G D K V A F A L A	Q G L
UniRef90_K7ZIG1	M L K D I D I D W V I L	V G H S E R R R Q Q F G E	S D E L I A E K T A H A L A	E G L
UniRef90_T1AIU4	M L H E I G A R W V I L	V G H S E R R R Q Q Y H H E	N D A L I A A K L Q R A M E	C G L
UniRef90_K7Z7Z1	M L K D I G V T W V I L	V G H S E R R R Q I F K E	S D E L I A E K V A H A L A	E G L
UniRef90_B4Y1H5	M L K E I G V E Y V I I	V G H S E R R R E M F N E	S D L D V N K K A K V L L E	N N I
UniRef90_B5TYM6	M L K D V G A T W V I L	V G H S E R R R Q F G E	S D E L I A Q K V V H A L A	Q G M
UniRef90_UPI0004707E7D	M L A D L G V S H V I L	V G H S E R R R E H H E	Y N A L I A R K V R A R E	Y G L
UniRef90_K7Z7M9	M I K D I G C E W V I I	V G H S E R R R A I F G E	S D E L I G E K C A H A L A	E G L
UniRef90_UPI0003A4190D	S L T S H K V D S C I V	V G H S E R R R T I F N E	N D E L I K K K L N N C L D	R I G
UniRef90_UPI0002629451	Q A A D A G A Q L V E S	V G H S E R R E H F G E T	V E T T R K L K V A A A L R	H G L
UniRef90_R6YJ78	M L K S I G K T D Y V I L	V G H Y E R K L Y F N E	T E E E I N K K L I L A L K	Y N I
UniRef90_K7Z7R6	M L K D V G A D W V I V	V G H S E R R R Q I F G E	S D Q L I A E K T A H A L A	E G L
UniRef90_Q3YS69	M L Y D C G C S Y V I V	V G H S E R R R S I F H V	S D Y H V Q L K A S A I K S	E G L
UniRef90_UPI0003EC5EA8	M I K D C G A T W V I L	V G H S E R R R H V F G E	S D E L I G Q K V A H A L A	E G L
UniRef90_K7Z7V1	M L K D I G A G W V I I	V G H S E R R R Q I F K E	S D E L I A E K V E H A L A	S G L
UniRef90_N9TQZ0	V A I A A D I D F I I I	V G H S E R R S L F N E	T N E L I N K K I A H L E	K T K I
UniRef90_E3F1K3	M L R D A G A T H V I V	V G H S E R R R R D H A E	T N D L V R A K A G A A L E	A G L
UniRef90_G3I216	M I K D L G A K W V V L	V G H S E R R R H T F V E	S D E L I G Q K V A H A L A	E G L
UniRef90_K7SJI2	Q L E E F G I K T I L I	V G H S E R R R H V I G E	T Q E Q I A A K F A F A D	Q G F
UniRef90_K7Z6C3	M L K D V G A G W V I L	V G H S E R R R H V F N E	S D D L I A E K A A H A L A	E G L
UniRef90_K7Z643	M I K D C G A G W V I I	V G H S E R R R H I F K E	S D E L I A E K V E H A L A	T E G L
UniRef90_K7Z7K8	M L K D N D I D Y A I I	V G H S E R R R A I F G E	S D E L I A E K V A H A L S	E G L
UniRef90_K7Z691	M L K D V G A N W V I L	V G H S E R R R A V F K E	S D D L I A E K T E H A L D	Q G L
UniRef90_UPI0003B75897	E L A E I G C R V A I L	V G H A E R R R L E G E	T Q D A V A A K T T A A L R	N G L
UniRef90_Q30PQ5	Q L E E F G I K T I L I	V G H S E R R R H V I G E	T Q D S L I V K F N F Y K N	L G F
UniRef90_F0QQ45	Q L S S I K V Y S T I I	V G H S E R C R E M G Q	T E E I V S K K V R S A L L N	G L
UniRef90_K7Z7S8	M L K D V G A E W V I L	V G H S E R R R Q I F K E	D D L I G E K C A H A L A	E A G L
UniRef90_X0W6I3			V E L I N K K V E A T L S	A G L
UniRef90_V8AA45	M L A D L G V R H V L L	V G H S E R R R E H H H E	D N T L I R R K A V T A Q R	F G L
UniRef90_D1L5K0	M L K E I G T D Y C I I	V G H S E R R R Q Y F N E	I D E S V N K K I K S A L K	H G I
UniRef90_I3IS66	M I K D C G I D W V I L	V G H S E R R R K V F G E	S D E L I G Q K V A H C L E	S D L
UniRef90_UPI000478526F	M L K E T G A N Y V I I	V G H S E K R I I D E	N F K T I K E K V N I A L K	N K I

		130	140	150	160																																		
UniRef90_L0WHK6	S	V	V	F	I	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_C8S162	V	P	L	I	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_S9VCS7	Y	V	I	A	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_A3Z113	I	P	L	I	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_G4QCQ5	T	P	I	V	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_UPI00036A3B4A	L	P	V	Y	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_J7FMM4	T	P	I	V	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_R7G1X4	K	T	L	L	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_UPI00035FA82C	V	P	L	I	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_E6WZ10	Q	I	I	Y	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_Q6PTF7	K	V	I	A	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_W5WVJ1	T	P	M	L	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_D1Y3B3	I	P	V	L	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_S7W5R7	K	T	I	L	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_I2CCS0	K	V	I	A	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_Q127X0	T	P	I	V	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_K2DNC7	K	T	V	V	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_C8PUQ4	T	V	V	F	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_C6XJT7	V	P	I	V	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_K8ES31	T	P	I	I	M	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_A6DDW7	E	I	Y	I	T	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_UPI0003B7FBA	L	P	I	V	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_P59462	I	P	V	L	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_H6SPX8	V	A	V	L	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_UPI00034DD451	V	P	L	L	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_A9UCK9	K	V	V	A	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_E5FT52	T	P	I	L	C	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K
UniRef90_K0G516	K	V	I	A	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_B3ER35	Q	P	V	F	C	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K
UniRef90_UPI00036CE330	K	A	I	L	L	T	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K
UniRef90_UPI0002890C7F	K	P	I	V	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
UniRef90_M5CG75	S	V	I	L	L	T	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K
UniRef90_K2B325	T	P	I	M	C	L	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K
UniRef90_L0GB07	K	V	I	L	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
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UniRef90_K3XLK7	K	V	I	A	V	G	E	T	R	A	Q	Q	Y	Q	D	N	Q	T	L	S	V	L	D	D	Q	L	S	V	L	Q	T	F	R	V	P	R	G	K	
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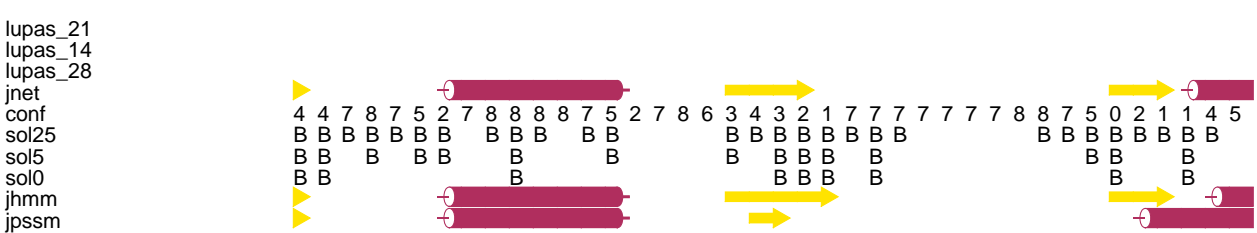
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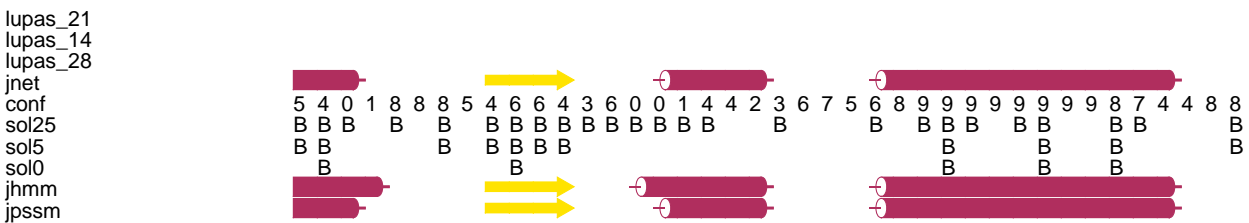
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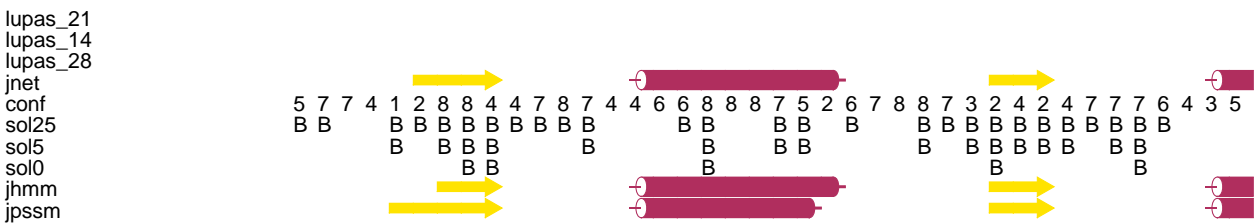
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