



QUERY Y L E M G K T L T V A A P G A A S M Q L A E E K L M N E I I Q R A M G P L Q Q Q Q T Q A M  
UniRef90\_B0JWN3 Y L E M G K T L T V A A P G A A S M Q L A E E K L M N E I I Q R A M G P L Q Q Q Q T Q A M  
UniRef90\_L8N659 Y L E M G K T L T V A A P G A A S M Q L A E E K L M N E I I Q R A M G P L Q Q Q Q T Q A M  
UniRef90\_B1XN69 Y L E M G K T L T V A A P G A A S M Q L A E E K L M N E I I Q R A M G P L Q Q Q Q T Q A M  
UniRef90\_UPI000377B77C Y L E M G K T L T V A A P G A A S M Q L A E E K L M N E I I Q R A M G P L Q Q Q Q T Q A M  
UniRef90\_K9VSN3 Y T E M G T T I T P A A M S A A N M Q F A E E N T L N E N Q I K K Q M T P A P L E D D Q Q S Q A M  
UniRef90\_K9EK07 Y L E M G K T L T V A A P G A A S M Q L A E E K L M N E I I Q R A M G P L Q Q Q Q T Q A M  
UniRef90\_B2J290 Y T E M G R S I T V A A P G A A S M V L A E G G L L E Q Q I K K Q M T P F P E A Q Q T R V M  
UniRef90\_D8G6B3 Y T E M G T S I T P A A P G A A S M V I A E G G L L A E Q I K K Q M P P P L Q A Q Q T R Q A M  
UniRef90\_K9WB84 Y T E M G T S I T P A A P G A A S M I L A E G G L L A E Q I K K Q M P P P L Q A Q Q T R Q A M  
UniRef90\_K9TA34 Y T E M G K T I T V A A P G A A S M I L A E E K S L L D Q Q I K K Q M T S P R Q T E Q Q T Q V M  
UniRef90\_K9RF23 Y T E M G K T I T V A A P G A A S M I L A E E K S L L D Q Q I K K Q M T S P R Q T E Q Q T Q V M  
UniRef90\_UPI00034CAFAC Y L E T A K T I T V A A S G A A V N M E F A E P T L L N E I I K K M S F A E E E Q S T Q V M  
UniRef90\_B2J618 Y A E L G R T I T P A A P G K A N L Q L L M E E G L F N E I I K K M S H F E E E Q T Q V M  
UniRef90\_K9XB15 Y T E M G R S I T P A A P G A A R L Q L L A E E S L L S Q I K K A M N F H F A E Q S T Q V M  
UniRef90\_UPI0002001998 Y L E M G T T I T V A A P A A A R M Q Q F A E E Q V L L S Q I K K A M N F H F A E Q S T Q V M  
UniRef90\_UPI0002D2B0C6 Y T E M G T I T T P A A M D V V N M M F A D N I L A S Q I K K Q M P A L E Q Q T Q V M  
UniRef90\_K9UAZ7 Y T E M G V T I T P A A T G S A S M A L A Q Q L L E N D Q I K K Q M S P P A Q Q T Q V M  
UniRef90\_K9STT3 Y T E M G R S I T P A A L G S A R V L A Q G G I L L E Q I K K Q M S P P A Q Q T Q V M  
UniRef90\_A0ZL50 Y T E M G R S I T P A A P G A A R M Q F A E E G V L L N Q I K K Q M S H A A Q Q T D V M  
UniRef90\_A5GV16 Y L E M G K T I T P A A P G A A R M A L A E E P T L L K E I A G M S A D E Q Q T K V M  
UniRef90\_UPI0003464B16 Y T E M G R S I T P A A T G A A R L Q M A E E G L L N S Q I K K Q M S H A A Q Q L E A M  
UniRef90\_K9U398 Y T E M G R S I T P A A P G A A R L Q L L A E E G L L N S Q I K K Q M S H A A Q Q L E A M  
UniRef90\_UPI0002E576C6 Y T E M S N S I T P A A T G V A R L Q L L A E E G L L N Q I K K Q M P H A D E Q Q L L  
UniRef90\_Q7NPK5 Y T E T G R T I T P A A L G A A S M A L V E E G M L L D Q I K K Q M P P A Q Q T R V M  
UniRef90\_B4WUA8 Y L E M G K T L S I T T P D P V N M Q F V S S T L L S Q I K K M S F S E E Q S T Q L M  
UniRef90\_K9F7M9 Y T E M G L T I T P A A M E V V P M V F A E E K L L T Q I K K Q M P P Y L E Q Q T Q A M  
UniRef90\_K9T629 Y T Q M G R S I T P A A P G A A R L Q Q F A E E G L L N Q I K K Q M S Y D D E Q Q L Q F M  
UniRef90\_Q8DJF6 Y T E T G R S I T A A A P G T A R L L Q Q F A E E G L L N Q I K K A L S F D D E Q L Q F M  
UniRef90\_E0UCU5 Y T E M G R T I T P A A P G A A R L L Q Q F A E E G L L N E I K K Q M S G D D E Q L K V M  
UniRef90\_X5JJ34 Y T E M G S F I T P A A T G A A R L L Q Q F A E E G L L N E I K K Q M S G H D D Q Q L Q V M  
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UniRef90\_U7QB80 Y T E K M G R T I T P A A P G A A R L L Q Q F A E E G L L N E I K K Q M S P P W D E Q L K A M  
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UniRef90\_A0ZK37 Y T E M G R S I T P A A T G A A R L Q L L A E E G L L T Q I K K Q M S H V E E R L N V M  
UniRef90\_K9XGK7 Y K E M G D S V T P A A P G A A S P D I L A E E G L L E I K K E K S H H E E Q L Q F Q  
UniRef90\_K9YEN1 Y L Q T G K A I T P A A P G A A R L Q L L A E E G L L N Q I K K A M S F H H E E Q L Q F M  
UniRef90\_K8GTF0 Y T E M G T S V T P A A P G A A R L Q L L A E E G L L N Q I K K A M S F S E E Q L T F M  
UniRef90\_B4VWR9 Y L E M G K T I T P A A P G A A R M V L A E E P T L L N Q I K K Q M S F Q D E Q Q T Q A M  
UniRef90\_B1WXE3 Y T E L G R S I T P A A P G A A R L Q Q F A E E G L L I E Q Q V K A M P D N E Q L Q F M  
UniRef90\_UPI0003811A88 Y E N M G R A I T P A A P G A A R L Q Q F A E E G L L I E Q Q V K A M P D N E Q L Q F M  
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UniRef90\_K9QUX6 Y K E M G G A I T P A A P G A A S P E I A E G G L F E E Q V K E L L N H H E E Q L Q V M  
UniRef90\_K9QGS4 Y K E M G G S V T P A A P A A S P E I A E G G L F E E Q V K E L L S H H E E Q L Q V M  
UniRef90\_L8LJZ5 Y T E M G E S I T P A A P G A A S P E I A K G L F E E Q V K E M S Y D E E Q L Q V M  
UniRef90\_K9SL95 Y T E L G R S I T P A A P G A A R L L A A G L L D Q I K K A M S F D E E Q L Q T M  
UniRef90\_UPI000344B3BA Y T E M G K A I T P A A P G A A R L L H A E E G L L E Q I K A M E P G E E Q L Q V M  
UniRef90\_UPI000476212B Y K E M G K S I T P A A P G A A S D S V A E E G L F E E Q V K E L L P S R E E Q L Q F Q  
UniRef90\_B8HMA7 Y T E M G Q S I T P A A P A A S P Q V V A E E G L F E E Q V K D M S R E E Q L Q V M  
UniRef90\_K9XWM1 Y T K M G T S I T P A A P G A A S D E I A K G L F E E Q V K E L S H H E E Q L Q V M  
UniRef90\_K9TUQ8 Y K K M G D S I T P A A P G A A S A D V I A E G L F E E Q V K E K S H H E E Q L Q F Q  
UniRef90\_K9VLB8 Y T Q M G K S I T P A A P G A S G S E I A E G L F E E Q V K P L P H H E E Q L Q V M  
UniRef90\_D8FVD5 Y T E L G K S I T P A A P G A S G S E I A Q G L F E E Q V K E L P H H E E Q L Q V M  
UniRef90\_K9UZS4 Y T E M G E S I T P A A P N A S P A I A E E G L F E E Q V K E M S Y D E E Q L Q V M  
UniRef90\_UPI000372AE25 Y K E M G G A V T P A A P G A S S P A I A E E G L F E E Q V K D L P R E E Q L N V M  
UniRef90\_K9W1T0 Y T K L G S S I T P A A P G A S G S D I A E E G L F E E Q V K E L P H H E E Q L Q V M  
UniRef90\_A3IWS1 Y E K M G S I T P A A P N T A E P A I A A G G L F E E Q V Y E K S H H E E Q L Q A I M  
UniRef90\_UPI0002D38BCB Y K E M G E S I T P A A P S A A E P E L A P L L L S D Y Y G K L S H H E E Q L A I M  
UniRef90\_U9VQH1 Y K E M G G A V T P A A T G A A R L Q Q F A T G L L G Q V V K D L S P N E E Q L A F M  
UniRef90\_UPI0002FEBFE8 Y K E M G S V T P A A P G A A S D A V A V G L L F N Q V V K E L S H H E E Q L Q L Q  
UniRef90\_K9RDS3 Y K E M G D S I T P A A P G A S P A V A D G L L F N Q V V K D L S H H E E Q L Q L Q  
UniRef90\_L8MAU3 Y E N L G G A I T P A A P G A A R E Q F T Q G L L T K V V K A L S Y E E E Q L Q F M  
UniRef90\_B7KDD9 Y E K M G K G V T P A A P D A A A P T I A E E G L F N Q V V K E K S H H E E Q L D I M  
UniRef90\_K9JL5 Y K E L G K S I T P A A P G A A A P T I A E E G L F K Q V A E M S H H E E Q L D I M  
UniRef90\_UPI000348DA05 Y E K M G D T V T P A A P S A A E P E L A P M L V G D Y L Q L S D E E Q L E I M  
UniRef90\_K9TCM5 Y T E M G R S I T P A A P L E I A K E F H L A K R L L L G D M K N A S H D E E Q L E I M  
UniRef90\_K9QYJ4 Y E K M G D S V T P A D P T A A E P E L A P L L L N G D F F E L S D E E Q L N I M  
UniRef90\_X5JQY4 Y E N M G A L V T P A T P S A T R K L T G G L L I Y E V A N L P H H E E Q L Q F M  
UniRef90\_UPI00037E9584 Y E K M G D S I T P A A P M A A E P E L A P K L L L G D Y Y K L S D E E Q L A I M  
UniRef90\_K9X013 Y E K M G D S V T P A A P G A A E P E L A P L L V E D Y L E L S D E E Q L A I M  
UniRef90\_U9W3Y2 Y E N M G G L V T P A A S G A T R K L A G D L I Y Q V A N L S H H E E Q L Q F M  
UniRef90\_K9WL88 Y E K M G S I T P A A P T A A N P E M A P R L L N G E F Y D S S D Q D D Q L A V M  
UniRef90\_Q4BX67 Y T E L G R S I T P A A P G A A R L Q F A E E G L L N G F K N M S S D Q D D Q L Q A M  
UniRef90\_K9XC65 Y K K M G S S I T P A A P A A T D P E L A P M L L G D Y Y K L S D D E E Q L A I M  
UniRef90\_UPI00035E0704 Y K E M G D S V T P A A P A T A A R D V L A G G L Y E Q V K A T P Q Q D D Q L Q I M  
UniRef90\_UPI00030CA510 Y K H M G E S I T P A A P L A A E P Q N L A P Q L L L G D Y L K L S D D E E Q L Q I M  
UniRef90\_K9VUT6 Y K E M G K S I T Q A A P A A T D P Q L A P K L L L G D Y L Q L S N E E Q L A I M  
UniRef90\_K9PJC6 Y E K M G G S I T P A A P T A A D P E L A P L L R D Y L Q L S S K E Q L D I M  
UniRef90\_E0UAJ5 Y E K M G D S I T P A A G T N A I N D F L S S L I E D F L Q L S S D N E E Q L E I M  
UniRef90\_K9FFH2 Y K A M G N G V T P A A T G A A R L Q Q F A E E G L L S Q V V K A L G S D D G Q M A F M  
UniRef90\_D7DY68 Y Q E M G D S I T P A A P Y A A S E L A E A L L E H Q V V E F E L S D E E Q L Q I M  
UniRef90\_B2J276 Y K K M G D S I T P A A V P A A A E P E L S P L L L G D J F F E L S D E E Q L D I M  
UniRef90\_K9TNB3 Y E K M G D S I T P A A P G A A E P E N I A P M L M D D Y Y K L S D D E E Q L Q I M  
UniRef90\_Q8YMJ2 Y T E M G R S I T P A A T G A A R L Q L L A E E G L L N Q I K K Q M S H A A Q Q L Q V M  
UniRef90\_Q7NNZ8 Y E A M G E S V T P A A P G A A D L E L T A F F G E F N A L T D A G D Q L E A M  
UniRef90\_B4WHH8 Y E N M G G S I T P A A P R A A G P Q F T A N L L F N S V K G M E E A D Q M A F M  
UniRef90\_K9VD25 Y E K M G D S I T P A A P A A A E P Q L A P V L L D D D F Y K L S H D E E Q L N I M  
UniRef90\_UPI0002D882E9 Y L D K D Q L P A N Q T S A Q D T A A A L Y D O I K A L P S E E Q Q L Q A Q  
UniRef90\_A0Y159 Y K K M G S S I T P A A P G A A E P P I A E G L Y N Q I K E L S R D D Q L Q I Q  
UniRef90\_UPI0003070E1E Y L D K D Q L T P A N P G Y S T E S L G Q V L Y N Q V A V L P Q D D G Q L Q A Q  
UniRef90\_K9Q717 Y E N M G D S I T P A P A A E P E L L L L N D Y Q L Q L S E E E Q L Q A M  
UniRef90\_K9QV62 Y L D K D S L S P T T N Q S S V T S P A N A F F D Q V Q A L P Q E Q Q L Q A Q

QUERY	90	100	110	120
UniRef90_B0JWN3	C	C	L	A
UniRef90_L8N659	C	C	L	A
UniRef90_B1XN69	C	C	L	A
UniRef90_UPI000377B77C	C	C	L	A
UniRef90_K9VSN3	C	C	L	A
UniRef90_K9EK07	C	C	L	A
UniRef90_B2J290	Y	D	L	A
UniRef90_D8G6B3	Y	D	L	A
UniRef90_K9WB84	Y	D	L	A
UniRef90_K9TA34	C	D	L	A
UniRef90_K9RF23	C	D	L	A
UniRef90_UPI00034CAFAC	C	D	L	A
UniRef90_B2J618	R	D	L	A
UniRef90_K9XB15	R	D	L	A
UniRef90_UPI0002001998	C	C	L	A
UniRef90_UPI0002D2B0C6	C	C	L	A
UniRef90_K9UAZ7	T	D	L	A
UniRef90_K9STT3	T	D	L	A
UniRef90_A0ZL50	R	D	L	A
UniRef90_A5GV16	C	D	L	A
UniRef90_UPI0003464B16	R	D	L	A
UniRef90_K9U398	R	D	L	A
UniRef90_UPI0002E576C6	R	D	L	A
UniRef90_Q7NPK5	F	D	L	A
UniRef90_B4WUA8	H	C	D	L
UniRef90_K9F7M9	C	D	L	A
UniRef90_K9T629	R	D	L	A
UniRef90_Q8DJF6	R	D	L	A
UniRef90_E0UCU5	R	D	L	A
UniRef90_X5JJ34	R	D	L	A
UniRef90_B8HQQ8	R	D	L	A
UniRef90_U7QB80	R	D	L	A
UniRef90_UPI00031CB1DC	R	D	L	A
UniRef90_A0ZK37	R	D	L	A
UniRef90_K9XGK7	R	D	L	A
UniRef90_K9YEN1	R	N	L	V
UniRef90_K8GTF0	R	H	L	V
UniRef90_B4VWR9	C	D	L	A
UniRef90_B1WXE3	R	D	L	A
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UniRef90_UPI00036B5FEB	R	N	L	V
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UniRef90_L8LJZ5	R	D	L	A
UniRef90_K9SL95	R	D	L	A
UniRef90_UPI000344B3BA	R	D	L	A
UniRef90_UPI000476212B	R	D	L	A
UniRef90_B8HMA7	R	D	L	A
UniRef90_K9XWM1	R	Q	L	I
UniRef90_K9TUQ8	R	D	L	A
UniRef90_K9VLB8	R	D	L	A
UniRef90_D8FVD5	R	D	L	A
UniRef90_K9UZS4	R	D	L	A
UniRef90_UPI000372AE25	R	D	L	A
UniRef90_K9W1T0	R	D	L	A
UniRef90_A3IWS1	R	Q	L	I
UniRef90_UPI0002D38BCB	R	Q	L	I
UniRef90_U9VQH1	R	D	L	A
UniRef90_UPI0002FEBFE8	R	D	L	A
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UniRef90_K9QYJ4	R	A	I	V
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UniRef90_UPI00030CA510	R	E	I	V
UniRef90_K9VUT6	R	E	I	V
UniRef90_K9PJC6	R	E	I	V
UniRef90_E0UAJ5	R	D	L	A
UniRef90_K9FFH2	Q	D	L	A
UniRef90_D7DY68	R	D	L	A
UniRef90_B2J276	R	D	L	A
UniRef90_K9TNNB3	R	D	L	A
UniRef90_Q8YMJ2	R	D	L	A
UniRef90_Q7NNZ8	R	A	L	V
UniRef90_B4WHH8	R	D	L	A
UniRef90_K9VD25	R	G	I	V
UniRef90_UPI0002D882E9	R	D	L	A
UniRef90_A0YI59	R	D	L	A
UniRef90_UPI0003070E1E	R	D	L	A
UniRef90_K9Q717	R	D	L	A
UniRef90_K9QV62	R	D	L	A

QUERY P I P A G Y Q L S 130 A N A S A V L L A T G I 140 Q K K L L E S G G Q Q Q Q I T V L L R N A V V D M G F  
UniRef90\_B0JWN3 P I P K G Y Q L S A N A S A V L L A T G I 140 Q K K L L E S G G Q Q Q Q I T V L L R N A V V D M G F  
UniRef90\_L8N659 P I P E G Y R L L S A N A S A V L L A T G I 140 K K N S L E D P P G G Q Q Q Q I T T I L R R N A V V D M G F  
UniRef90\_B1XN69 P I P A G Y K L L S A N A S A V L L A T G I 140 R R G L L E P P G G Q Q Q Q I T V L L R R N A V V D M G F  
UniRef90\_UPI000377B77C P I P S G Y K L L S A N A S A V L L A T G I 140 R R G L L E P P G G Q Q Q Q I T V L L R R N A V V D M G F  
UniRef90\_K9VSN3 P I P E G Y K L L S A N A S A V L L A T G I 140 R R G L L E P P G G Q Q Q Q I T V L L R R N A V V D M G F  
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UniRef90\_K9TA34 P I P Q G Y Q L S D E G N A V L L A T G I 140 Q A A D D P G G Q Q Q Q I T V L L R R N A V V D M G F  
UniRef90\_K9RF23 P I P A N Y Q M S A N A N A V L L A T G I 140 K K L D D A S G G Q Q Q Q I T V L L R R N A V V D M G F  
UniRef90\_UPI00034CAFAC P I P E G Y K L L S A N A N A V L L A T G I 140 G L L G L G L D D A S G G Q Q Q Q I T V L L R R N A V V D M G F  
UniRef90\_B2J618 P M P V G Y Q M S T Q V K A V L L A T G I 140 Q K L D D Q S G Q Q Q Q I T V L L R R N T V V D M G F  
UniRef90\_K9XB15 P M P P G Y Q P S P A V A T E V L L A T G I 140 K K S L E F F G G Q Q Q Q I T T V L R R S T V V D M G F  
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