

1      10      20      30      40

QUERY	P P A D G G Q	K G V G S G R	C L D	V P D A S T S D G T Q L Q	L W D C H S G T N
UniRef90_B5H6V7	I R G V G S G R	C L D I Q G A S P	S T Y A A V V N D C C	L G V T V	
UniRef90_D6Y5E0	I K G V A S G R	C L D V P N G N T A D G T R	V Q L W D C H S G S N		
UniRef90_F2RHT8	V P S V A I R G V G S G R	C L D V T G A S Q A N G A Q A Q I	W D C H S G Q A N		
UniRef90_UPI0003616C4C	S G T G E I	I R G T Q S G R C I D V P N R S Q T D G T R	V T L Y D C H S G N A T		
UniRef90_F4F8A1	I K G V A S G R	C L D V P A S T A N G T R A Q L	W D C H S G S N		
UniRef90_G8SM07	V P S V A I R G V G S G R	C L D V T G A S Q A N G A Q A Q I	W D C H S G Q A N		
UniRef90_H2JW16	A T T S R L R G S A S G R	C A D V D N S S T A A G A T V L L	W D C H T A A N		
UniRef90_W2ES86	G S I V V G G Q S G R	C C V D V T G A S Q T N G T Q A Q I	Y D C H S G Q A N		
UniRef90_L1L464	P G T D G V A L V G S A S G R	C C V D I D K N T Y V N A T Q A G I	W D C H S G G R N		
UniRef90_L8PL64	V R A T G A G K C C L D V P G F S Q T N G T Q T H I	W D C H H G G T N			
UniRef90_UPI0004048F70	S G H L T G T G S G R	C C L D V P G Q S T A N G T Q L Q I	Y D C H W N G S N		
UniRef90_UPI00037DAA98	G T G N V L R G T G S N R	C C L D V P G A S T T N G V Q T A I	W D C H S G N G T N		
UniRef90_U5W416	L R G Q A S G R	C C V D V P F S T E V N R T R V E L	F D C H H G S A N		
UniRef90_C6W801	S P G G R L V N T A S G R	C C V D V P G S T T A N G T Q L Q I	W D C H H G Q P N		
UniRef90_D8HQB3	P A A G V L K G A G S G R	C C V D V P G A V S T N G T Q V A L	W D C H H G G T N		
UniRef90_C7Q354	P P P S G G A L H A V G A G K C	C C V D V P N S T T S S G T Q V Q I	Y S C H N G Q A N		
UniRef90_T1WSV4	T S G A L R G V G S G R	C C L D V P D A G R T N G T Y L Q I	Y D C H W G G T N		
UniRef90_G8SJ7	I R G A G S G R	C C L D D D P N S S T T N G T Q V V I	W D C H S G G G N		
UniRef90_U5W804	P V P G N R L R N S G S G R	C C L D V P G A V T V N N T Q V A I	Y D C H G T G T N		
UniRef90_UPI0003715ADB			A N N N T G N L T L T	T N N W T T S	
UniRef90_U5W4H4	L R N V N A N R C L D V P N A S Q A N G T Q L A L	W D C H N A G A N			
UniRef90_C7QC25	I V G T A S G R C A D V P N S T Q T L G T Q V Q L	W D C H S G A T N N			
UniRef90_D8HKQ3	N K C L D V D A S Q G T A N G T A V V I	W D C H S G N Q A N			
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UniRef90_W7TD21	V Y S G S S Q C C L D A Y G Q G T T S G T K V V T W T C	H N G Q A N			
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UniRef90_M3FPX5	P A A K G F A I I I G R G S N R C C L D V D V M N G K G D G T P L R I W E C	A G T A N			
UniRef90_UPI0004796FCB	G G Y Y R V V S Q A S G K C C L D I D R A S T A D G A K A I L W P C	N G G A N			
UniRef90_E4N4T1	G S L M N A N S G K C C L D A P D S G G Q G T Q V T Q H W C	H G G L N			
UniRef90_V6KIL3	P G Q G T L V V N A Q S G R C C L D V D G A V T T S G A R T I V Y D C	H R K A N			
UniRef90_E3FTB1	G T Y T L V V N I N S G K C C L D V D V A S S G L T D G T N I Q Q W T C	N G T N A			
UniRef90_D8I9D3	A T T S R L R G A G A N R C C L D V D N A S T A S G A G T L I W D C	Q T A A N			
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UniRef90_C7Q3H9	R A L G K C C L D V D T G N T Q A E L W D C H N G G Q N				
UniRef90_K4QX25	P G T D S T L A V G T Q S G R C C L D L Y D N T I G N G T Q A E L W D C H N G G Q N				
UniRef90_B5I744	P G K N G T L I T G T G S G R C A D I N N N T I S N G T D A Q L W D C H N G G Q N				
UniRef90_L1L908	P Q G Y Y R L V N R R S G K V L D V D S G S T A D G A K A I Q W T W T G G A N				
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UniRef90_UPI00036C2C04	T G V G P V K G L A G K C C L D V D V T G N T D A Q G T A L E I W D C H S G Q T N A				
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UniRef90_UPI000416BA9	L V S A A S G R C C L D V D V P G S A T A N G T G L V I W D C H T A A N				
UniRef90_UPI00036F34AB	A A G K A I R G L A G K C C L D V D V A A A N S A N G T P V Q I Y D C	N G T A A			
UniRef90_H2K666	G Y Y K L V A R H S G K A L D V D V E N A S T S D G A N V I Q Y S Y S G G D N				
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UniRef90_F3ZLP2	P P S G T Q G I T G Y G G K C C V D V D V A A A S S A N G T A V Q M Y D C	N G T T A			
UniRef90_UPI00036C6B1AE	Q I T G L G G K C C V D V D V A A A S S A N G T A V Q M Y D C	N G T T A			
UniRef90_U5W4M5	R A L G K C C L D V D V T G Q G T V N G T R L Q I W E C	N G S G A			
UniRef90_D8I5J3	G A I T G I G G K C C V D V D V A N G S S A D G T Q I Q L W T C N Q S T A				
UniRef90_F3NTZ0	F T W P G G T S				
UniRef90_UPI0004773293	P G A G G T L K A L D R C C L D V Q V S G T N W P S G A Q Q V I A A A G T G				
UniRef90_M3CGB2	P P A D T G R I T G Y G G K C C V D V S G G G T A D R T T V Q L W T C N G T G A				
UniRef90_U5W800	P G E G G T L R A L G R C C L D V D V S G G G T A N G A K V Q L W Q C	N G T G A			
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UniRef90_I0H4S9	S P N A S T V F P Q T L T D Y V R V Y S Y				
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UniRef90_F2R1W8	V R A V A A N R C C L D V D V P G S S T T A G T Q V V Q V W D C H G S G A N				
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UniRef90_B5HZA0	T P A G E L R V Y D G T R C C L D V D V T N G G T A G G T R V I Q W E C	N G G A N			
UniRef90_U5VVG3	G T V I S A L N G R C C L D I P N G N F S D G V R V Q M W N C	N G S A A			
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UniRef90_UPI00015FBDA7	P N T T F R L R S Q S A D R C C L D V D V S G A D S S N G A Q M I T W D C H T G A N				
UniRef90_M3DMY7	G T G G R I T G L A G K C C M D V I A A S N A N G T P V Q L Y D C	N G S E A			
UniRef90_UPI00035F9D9B	P A G K C C L D V D V A G G S G A D G T P V Q L Y T C	N G T A A			
UniRef90_UPI0003C74B06	P D G S V R L V N R N S G R C C L D S P S G A G Q G T Q L D Q A Q D T G T D N				
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UniRef90_UPI000400AE65	A S T G P T V G V G S G R C C L D G T G N P S N G V Q P Y I W D C	S T G G A N			
UniRef90_W7TFW9	A R T G A F V G L A G K C C L D V D V A G G S S A N G T A V V Q L Y D C	N G S A A			
UniRef90_H2K9D9					

50 60 70 80

QUERY				
UniRef90_B5H6V7	Q Q W A T D A G E L R V Y G D K C L	D A A G T S N G S K V Q I Y S C W G G D N		
UniRef90_D6Y5E0	W G V R D S D S W R A E H T P L L F N N D G S K K P A Y T A V L N A L I N G G D S			
UniRef90_F2RHT8	Q Q W T Y T S S G E I R I F G N K C L	D A G G S G N G A I I Q I Y S C W G G N N		
UniRef90_UPI0003616C4C	Q R W T H T A G K Q L K I H G D K C L	D A K G T A N G T A V V V W D C C N G G T N		
UniRef90_F4F8A1	Q Q W T P T A S G E L R V Y G T K C L	D A Y G T A N G T Q V I I W D C C N G Q A N		
UniRef90_G8SM07	S I A V P T T S G D Y R L F V L	D A Q G N R S A E S V S I V R R Q G T S S		
UniRef90_H2JW16	Q Q W T Y T S N R Q L T V Y G T K C L	D A A G S G N S A A I Q I Y S C N G Q A N		
UniRef90_W2ES86	Q L W T T W A G G E I R V Y G D K C L	D A Y G T A N G T R V I I T W P C N G Q D N		
UniRef90_L1L464	Q R W T Y T S G K Q L Q V F G S K C L	D A Y G T S N G T Q V I I W D C C N G Q T N		
UniRef90_L8PL64	Q T F T Q T S R G E L V V Y G N K C L	D A N G T A N G T K V I I W D C C T G G T N		
UniRef90_UPI0004048F70	Q T W T S T S T K Q L T V Y G G K C L	D A T G T T A G A K V A I W D C C H G G T N		
UniRef90_UPI00037DAA98	Q Q W T Y T D A G E L R V Y G N K C L	D A E G T A D G T L A I I W D C C T G G A N		
UniRef90_U5W416	Q E W T S T A K E L L R V Y G N K C L	D A F G T S P G T K V V I W D C C T G G A N		
UniRef90_C6W801	Q T W T A T A A R E L K V Y G T K C L	D V D G T A D G T P V T I F D C C T G G T N		
UniRef90_D8HQB3	Q S W A L N S A K Q L V N G A K C L	D A H G T A N G T Q V V L W D C C H G D T N		
UniRef90_C7Q354	Q Q W T Y T S G R Q L L T V Y G T K C L	D A Q G T T A G T K A Q I W D C C T G A A N		
UniRef90_T1WSV4	Q A F T H H N S T S E L L T V T D A G V T D C	K G K T T N G T K V I I Y P C N G Q P N		
UniRef90_G8SJ7	Q Q W T L T D S N Q L T V Y G D T C L	D V P G T T A G T R V Q I W T C C S G G A N		
UniRef90_U5W804	Q R W T R V G N Q L Q V L G K C L	D A Y N T T N G T K V E W D C C N G Q T N		
UniRef90_UPI0003715ADB	Q Q W T G T S A R E L R V Y G T K C L	D A R G T A N G T A V V I Y D C C T G G T N		
UniRef90_U5W4H4	S A T N V T S G S R G N T N T G T V V	V T G G N N W P S G A Q T V K A N A G Q S		
UniRef90_C7Q25	Q Q W T A T A A G Q L Q V Y G T K C L	D A G A G T S G T R A V I A A C C T G A A G		
UniRef90_D8HKQ3	Q Q W T A T S A G E L R V Y S G D C L	D A Y G T T P G T K V A I W S C C N G Q T N		
UniRef90_UPI000381CEC9	Q Q W T V N A N G T I A V Q S N L C C L	D A Q G T A N G T K V L L W T C C N G Q A N		
UniRef90_W7TD21	Q N W V N P N G T I T V Q S G L C L	D V S G G G D D G T K V Q L W T C C N G S G A		
UniRef90_I0H3Z8	Q N W A R S G A T F R A L G K C L	D V T G T T N G T P V E L W S C C N G Q S N		
UniRef90_UPI00028A0EEB	Q L W S A Y T D G T L R S L G K C L	D V G G T A N G T K A Q L W T C C H G G A N		
UniRef90_M3FPX5	Q K W D F R G D G T V R S V G M C M	D V V G T A N G T K T H L W T C C H G G A N		
UniRef90_UPI0004796FCB	Q Q W R L R E P G L V S R H S G K C L	D M D V A W G D D G A V I Q L J A R C C S G N P A		
UniRef90_E4N4T1	Q K W N P D N T G T T Y T L T D L D G S A T V F A R G A	G T D		
UniRef90_V6KIL3	Q Q W A R T A S N E L R V Y G D R C L	D A S G T A D G T P V I I W D C C R G T A N		
UniRef90_E3FTB1	Q A F D G T D G Y N L V N A N S G K C V	E V E V G G T T G S G T N V Q Q W S C C N N G S H		
UniRef90_D8I9D3	Q L W T T W A N G E I R V F G D K C L	D A T T S G A R V F S R T C T G Q S N		
UniRef90_H2JW18	Q K W T G L S G T S T P P D G T C S L	P S T Y R W T S T G A L A Q P A N G W V I S		
UniRef90_UPI000372FA6E	Q R W T L T T A A E L R I Y S D K C L	M D A G A S Q D G T R V T I N S C C N G S N S		
UniRef90_UPI0004221F71	Q R W S V S G A H D I N P Q A D K C L	D M D A N G S A N G T R L Q I W T C T G A T N		
UniRef90_C7Q1L1	G G G T G S A K Q I I G T P S G R C V	D I N N T T N G T Q A Q L W D C C N G Q S N		
UniRef90_UPI0004658030	Q R W K L L A S A G T V V S A T G G K C L	D V P G T D D D V Q L I Q W T C C N G G T N		
UniRef90_C7Q3H9	Q S W T L L N S A K S L V V Y G N K C L	D A A G T A P G T P V I I W D C C N G G T N		
UniRef90_K4QX25	Q R W T V T A A R D I N P Q A D K C L	D V T G N N N G T R L Q I W S C C T G G A N		
UniRef90_B5I744	Q Q W T Y T S R K E L V V V Y G N K C L	D A Y G T T N G T K V V I W D C C N G Q N N		
UniRef90_L1L908	Q V W Q Y N S R K E L V V V Y G N K C L	D A Y G T T N G T R V V I W D C C T G G T N		
UniRef90_C4RJ02	Q Q W R D A S Y K L V S R H S G K C V	E V P G T T S G V Q L D Q W S D T N S S H		
UniRef90_D9UCP0	Q Q W N V G A D G T I T R A L G K C L	D V G S T A N G A K L Q L W D C C N G Q T N		
UniRef90_UPI000476E535	Q L W T A T S S K Q L T V Y G N K C L	D M D A N G T T N G T A V I I Y D C C N G G T N		
UniRef90_UPI00047B7A11	Q Q W R F Q E V G I I S Q A S G R C C L	D V D S T A N G A R I I Q W S C C N G G T N		
UniRef90_UPI00036C2C04	T T T P P T G A R T I R G I G G K C C L	D V D A V G S A N G T A V Q L Y D C C N G T G A N		
UniRef90_M3DIR0	Q R W V V T A A R D I N P Q A D K C L	D V D V T G N N N G T R L Q I W T C C A G T A N		
UniRef90_W2ETF2	Q A F E F T S A G E L R T F G G R C C V	D V D A N G T S P G T K V V I W S C C N G Q N N		
UniRef90_I0L9Z3	Q T W T V S G S T I K A L G K C C L	D V D V S G G A D G T K I Q L W T C C N G S G A		
UniRef90_I0LAA5	Q R W T Y T A G K Q I Q V Y G N K C L	D A Q G T T N G T Q V I W D C C H G G T N		
UniRef90_V6KVJ4	D T G T I T G L A G A S S A R C C L	D V D V A G S A D G T P V Q L Y D C C N G T N A W		
UniRef90_F8JSU6	S S V G T T H P L A G A S S A R C C L	D V D V A G T T P G T P V D I R D C C D G G A W		
UniRef90_F4H7M4	Q T W T A G A D G T L R S L G K C L	D A D P P S A T A G T R V Q Q L W D C C N G G T N		
UniRef90_F2R8E1	Q Q W T V G G D G T I R A L G K C C L	D V D V I N G T A D G S K V Q L Y D C C N D T A A		
UniRef90_UPI000378C5F3	Q Q W T V G S D G T I R A L G K C C L	D V D V D V A G S A N G T P V V Q L Y D C C N G G P N		
UniRef90_UPI0002416BA9	Q Q W R L V D L G D G Y Y H S G K A L C L	D V D V E N T S D G A N V I Q Y S Y S G G D N		
UniRef90_UPI00036F34AB	Q R W T L L A S D G T V R A L G K C C L	D V D V T G T A D G T K V Q L Y T C C N G T G A N		
UniRef90_H2K666	Q Q W T V G S D G T I R A L G K C C L	D V D V T G T A D G A K A Q L W T C C T G A A N		
UniRef90_G8SD62	Q K W T L T A S K D L N L A A N R C C L	D V D I K D G N D G A K L Q L W D C C S G G A H		
UniRef90_E4NIX2	Q Q W T V G T D G T V R A L G K C C L	D V D I L T G T A N G T Q A Q L Y D C C N G T G A		
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UniRef90_UPI00036CB1AE	Q R W T V A G A D D T L R A L G K C C L	D V D I D V S G T V D G T K I Q L Y G C N G T V A		
UniRef90_U5W4M5	Q N W S V N A D G S V R A L G K C C L	D V D I D V T N T T N G N L I P Q M W S C S S G P N		
UniRef90_D8IJ53	G A T G T V A G P V H A V G A N K C C L	D V D I D V S G T T P G A V V Q I W D C C N G G T N		
UniRef90_F3NTZ0	Q R W V T G P D S S L N P Q S G R C C L	D V D I D D P G T E D G T Q L Q I Y E C C N G S A A		
UniRef90_UPI0004773293	Q N W S V N A D G S V R A L G K C C L	D V D I D D P G T E D G T Q L Q I Y D C C N G T G A		
UniRef90_M3CGB2	Q R W I P G P D S S I N P Q S G R C C L	D V D I D D A A S T A D R T Q L Q I H D C C N A T D A		
UniRef90_U5W800	Q K W T A A G Q A L Q A L G K C C L	D V D I D D P T G A T A G T K V V Q L W D C C S G A T N		
UniRef90_UPI00035CD2F9	M S W T F A S D G T V R A L G R C C L	D V D I D D P V A G T G N G A K V V Q L A D C C N G G P A		
UniRef90_UPI000374C97B	Q S G G G G A T G Q I I T G F G G K C C L	D V D I D D P V A G A N N G A T Q V V Q L W D C C N G T N A		
UniRef90_I0H4S9	Q I I T S A S G Q Q L R I I G G R C C L	D V D I D D P V A G A N V T D G T R V I I L W T C C G S G A N		
UniRef90_E8W3S6	Q K W Q F A S D G T I R I I K G L C C L	D V D I D D P V A N A N D D G T P I Q I A W C C N G N A A		
UniRef90_G0K0D0	Q S W K F S N T S I I V G V A A N K V L C C L	D V D I D D P V A T G S A N G T K I Q I Y S N A Q T S S N		
UniRef90_UPI00035D38EA	Q Q W T R T A A G E L T V Y S G R C C L	D V D I D D P T S G T S A G T A A V I A A C T G G T T		
UniRef90_F2R1W8	Q R W T Y T T H D V V N A G A N K C C L	D V D I D D P T S G T S A G T A A V I A A C T G G T T		
UniRef90_U5VXU7	Q Q F R L N A D G T I T V Q S G Q C C L	D V D I D D P V S G G G P G T A I I I W P C C H R A A N		
UniRef90_B5HZ0	A S G T I I T G L A G A K C C L	D V D I D D P V A G T A N G T A V V Q L Y D C C N G T G A		
UniRef90_U5VVG3	Q K W E F V N G T L R T G N N K C C L	D V D I D D P V A T G A N G A I L Q I V T C C S G N P A		
UniRef90_C7Q3F1	Q V W K S G S N G S I I N P A S G K C C L	D V D I D D P P S T T D D G T Q L Q I W D C C N G N S N		
UniRef90_H0BH26	Q K W E F V N G T L R T G N N K C C L	D V D I D D P P G H H N D G Q P I F M W D C C N G A D A		
UniRef90_UPI000371B970	Q R W T V G A D G T I R A L G K C C L	D V D I D D P V A G T A N G T A V V Q L Y A C C N G T A A		
UniRef90_UPI00015FBDA7	Q Q F R M E S A G I R N V N S N R C C L	D V D I D D P V A G T S D G A R I I Q Y S C W S G E N		
UniRef90_M3DMY7	Q Q F F T Q T Q G T L R V M G R C C L	D V D I D D P V A G T S D G A R I I Q Y S C W S G E N		
UniRef90_UPI00035F9D9B	Q R W T V G T D G T I R A L G K C C L	D V D I D D P V A G T A N G T P V Q L W D C C T G G G A N		
UniRef90_UPI0003C74B06	Q R W T L A A D G S V R A L G K C C L	D V D I D D P V A G T A N G T P V Q L W D C C N G S A A		
UniRef90_D8I684	Q W W K L A D T G D V N V R T G L C C C A D V E G G N D G A R V I A W A A N T G T N G			
UniRef90_UPI000400AE65	D R Y K L F A N R D Y S Y T Y R L K P L D I G Q A M A L A R R P A E S G G S G			
UniRef90_W7TFW9	Q Q Y S Y T S A G E L V Q V A G K C C L	D V D I D D P V A G T A N G T P G T K V I I W T C C N G Q A N		
UniRef90_H2K9D9	Q Q W T V Q A D G S I I Q A L G K C C L	D V D I D D P V A S S T A D G A K V Q L Y D C C N G T G A		

90                    100                    110                    120

QUERY	Q K W R [L] N S D G S [V] G [V] Q S G [L] C [C] D A [V] G N G T A N G T [L] I [Q] [L] Y T C S N			
UniRef90_B5H6V7	T T P P P G D G D T I K G V G G S G R C [C] L D [V] P S A S T T D G T Q [V] Q [L] W D C H N			
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UniRef90_G8SM07	Q Q W N [V] N A N G T I [T] G V Q S G R C [C] L D V [W] G T A N G Q Q V [Q] L Y D C N G			
UniRef90_H2JW16	Q K W T L G Q D G S I R N V H A G L [C] L D A D G A G T A D G T P [L] V L W T C N G			
UniRef90_W2ES86	Q Q W N V N S N G T I [T] G V Q S G L [C] L D A N G G G T A N G T K [L] I [L] W T C N G			
UniRef90_L1L464	Q K W T [L] T P G G T I T N N L S G L [C] L D A S G A A T A N G T K [L] I [L] W T C N G			
UniRef90_L8PL64	Q Q W N R N S N G T I T S V Q S G L [C] L D [V] A G G S T A N G A L V [Q] L W D C N G			
UniRef90_UPI0004048F70	Q K W N L N G D G S I T N A Q S G L [C] L D V E G G Y T A N G S L V H L W S C H			
UniRef90_UPI00037DAA98	Q Q W N L N G D G T V T S V Q S G L [C] L D V T G G S T A N G A L V E L W T C N G			
UniRef90_U5W416	Q Q W N V T T D G A V V S V A S G K [C] L D A V G A A T A N G T Q [I] W P C T G			
UniRef90_C6W801	Q Q W T A N A D G T I I G V Q S G L [C] L D V A G G D T A N G G K [L] V L W S C G G			
UniRef90_D8HQB3	Q Q W N [L] N A D G T I V T G V Q S G L [C] L D A A A N G T A N G T P [I] Q [L] W T C N G			
UniRef90_C7Q354	Q Q W T I N S N G T I [T] G V Q S G L [C] L D V T G A S T A N G A L V E L W T C N G			
UniRef90_T1WSV4	Q Q W R V N P D G T V V [V] G V E S G L [C] L E V A G A G T A N G T A V Q L W T C N G			
UniRef90_G8SJ7	Q Q W T V N A D G T I T G V Q S G L [C] L D V T G A A T A N N T L V E L W T C N G			
UniRef90_U5W804	Q Q W N V N A N G T I [T] G V A S G R C [C] L D V T Q N G T A N G S R M Q L W D C T G			
UniRef90_UPI0003715ADB	T T T P P P R Q N V Q I V G T P S G R C V D V A G A N T A N G S G I Q [L] W D C H S			
UniRef90_U5W4H4	Q Q W R L N A D D S V T S A Q S G L [C] L D A S G A G T A N G T A V I L W T C T N			
UniRef90_C7QC25	Q Q W R L N A D G T I T G V Q S G L [C] L D A T G A A T A N G T L L E L W T C N G			
UniRef90_D8HQK3	Q Q W T V P Q A D G T V R N P Q S A K C L D A S G G T W N D G T P V H L W T C H T			
UniRef90_UPI000381CEC9	Q Q W R V V A P Q A D G S I R N P Q S G R C [C] L D V S Q N S S A D G Q Q I H I W D C H G			
UniRef90_W7TD21	Q N W A P Q A D G S I R N P Q S G R C [C] L D V S Q N S S A D G Q Q I H I W D C H G			
UniRef90_I0H3Z8	Q V W Q A Y N G G Y R N P A S G R C [C] L D V P G S T T A D G T Q L Q L W D C H G			
UniRef90_UPI00028A0EEB	Q Q F V L S T E G D L V N P Q A D K C V D V K D N A T G D G A R L Q L W T C A G			
UniRef90_M3FPX5	Q Q W T L			
UniRef90_UPI0004796FCB	Q F Q V R S E S G P E A A S T T R Y V Y D V T D G			
UniRef90_E4N4T1	Q Q W R V D A D G S V V G V A S G K C L T P A A G G T A N G T R L E L R T C G A			
UniRef90_V6KIL3	Q S W S F T P			
UniRef90_E3FTB1	Q Q W T L G S D G T I R N V Q S G L [C] L D V E G A A T A N G T H A I L W T C N G			
UniRef90_D8I9D3	L K D F T T V T Y N G K H L V Y A S N V S G S S Y G S M A F A P F T N W S D M A			
UniRef90_H2JW18	Q K W V F N S N G T V T S T Q S G R C [C] L D V N G G G T A D N T A V I V W S C H G			
UniRef90_UPI000372FA6E	Q K W T A P A A G			
UniRef90_UPI0004221F71	Q Q W T P T A T K Q L M I Y G T K C L D A S N Q G T T N G T P A V I W D C N G			
UniRef90_C7Q1L1	Q Q W K F T K T G			
UniRef90_UPI0004658030	Q Q W T M N S N G T V T A V Q S G L [C] L D V T K G G T S N G T A I E L W T C N G			
UniRef90_C7Q3H9	Q K W T V			
UniRef90_K4QX25	Q K W N V N S D G T I T N V N A G L [C] L D A Y N A G T A N G T Q T V L W S C N G			
UniRef90_B5I744	Q Q W N V N S D G T I T N V N A G L [C] L D A Y G A A T T N G T K L V L W S C N G			
UniRef90_L1L908	Q R W Q L V D T G R L V N V R T G L V I A D V S G G S L D D G A Q V I Q W A A S G			
UniRef90_C4RJ02	Q K W T V T A A K D L V N P Q A D K C A D V Q D K S T A N G A R V Q L W T C T G			
UniRef90_D9UCP0	Q Q W N V N S N G T I T G V Q S G L [C] L D A N G A A T A N G T K L I L W S C N G			
UniRef90_UPI000476E535	Q Q W E L R D A G E I I V A R H S G R C [C] L D V I D S S T A N S A R L H Q Y D C C W G			
UniRef90_UPI00047B7A11	Q Q W D V R S D G T I R A L G K C L D A K D G A T A N G T L V Q L W D C N G			
UniRef90_UPI00036C2C04	Q K W T V			
UniRef90_M3DIR0	Q K W R Q N A D G S V T G V Q S G L [C] L D V N G N G T A N G T A V I L W T C G G			
UniRef90_W2ETF2	Q N W A A Q S D G S L R N T S S G K C [C] L D V S G N N S A D S T I V H L W T C N G			
UniRef90_I0L9Z3	Q Q W N L N S N G S I S G V Q S G L [C] L D A N G A G T A N G T K L I L W A C N G			
UniRef90_I0LA5A5	Q Q W T V G S D G T I R A L G K C [C] L D V T G N S T A D G A K A Q L W S C T G			
UniRef90_V6KVJ4	Q A W T P T A S G E L R V Y G G T Q C L D A Y D N R T S P G T P V K L W P C N G			
UniRef90_F8JSU6	Q Q W T S Q A D G T I R G A R S G L [C] L D V D R N L T A N S T A V L L W T C T G			
UniRef90_F4H7M4	Q N W D V G T D G T I K A L G K C [C] L D V T S A G T A N G T A I Q L W D C N G			
UniRef90_F2R8E1	Q K W V V S S A N D I V N P Q A N K C L D V T D N N P A N G T R L Q I W T C G G			
UniRef90_UPI000378C5F3	Q Q W R L V D D Y Y K L V A R H S G K A L D V E N A S T S D G A N V I Q Y S Y S G			
UniRef90_UPI0002416BA9	Q R W T Y A P G T H V V N T A A N K C L D V T G N S S A D G T R T Q I W T C T G			
UniRef90_UPI00036F34AB	Q K W T V T A A H D I V N P Q A N K C L D V T G N N S A N G T R A Q I W T C T G			
UniRef90_H2K666	Q K W T F S G S G			
UniRef90_G8SD62	Q Q W Q A Q S N K T L V N P V S G R C [C] L D A T G P S S A N G T R L Q L W D C F A			
UniRef90_E4NIX2	Q A W Q P G S G D T L V N P A S G K C [C] L D V T D K S T A N G A R L Q L W T C A G			
UniRef90_UPI00039D76E7	Q T W K L P S D G T T P P P G S C A P A L A P G Q			
UniRef90_F3ZLP2	UniRef90_UPI00036CB1AE	Q K W S P Q P D G T L K N P S S G K C [C] L D A S G V S S A D G T K L H L W T C H T		
UniRef90_U5W4M5	Q T W T L G T D G T V R A L G K C [C] L D L K D S S T A D G A T V Q L W D C F G			
UniRef90_D8IJ53	Q A W A R S G S G E L Y S G D S T R C L D A S G Q G T T P G T K V V I W N C N G			
UniRef90_F3NTZ0	Q R W T P T P D T G V P G R G S			
UniRef90_UPI0004773293	Q K W A Y N S N G Q I V N P Q S G K C [C] L D A T D V S S A N G T R L Q I W D C G G			
UniRef90_M3CGB2	Q R W T P T P			
UniRef90_U5W800	Q R W N R N T N G T I S N V A S G L [C] L D V N G N A T A A G S P V I L W T C T A			
UniRef90_UPI00035CD2F9	Q Q F R L N D A H D L V N R Q A D K C V D V T D A K T A D G T G L Q I W D C T G			
UniRef90_UPI000374C97B	Q R W T V G T D G T I R A L G K C [C] L D V S G G S T A N G A R V Q L W D C N G			
UniRef90_I0H4S9	Q Q W T L Q S D G T V R G A R S G K C [C] L D V N A A A T A N N S P I I L W T C T A			
UniRef90_E8W3S6	Q K F A L N G A H D L V N T V V G M C V D I A G A N R N S G A A L Q L L H C S G			
UniRef90_G0K0D0	Q K W E F N P A N G S I V G V G G K C [C] L D V E G A N T A D G T R V Q L W D C T G			
UniRef90_UPI00035D38EA	Q K W T A T G N G T L T N G Q S G M C [C] L D V S G A A T A N G S K V I I W T C H G			
UniRef90_F2R1W8	Q K W T H N			
UniRef90_U5VXU7	Q I W			
UniRef90_B5HZ0	Q I W S N P G D G T L R A L G K C [C] L D I A D R G T A D G A A V Q L W D C S G			
UniRef90_U5VVG3	Q Q W V L S A A G D L V N P Q A N K C A D I D A W N P N D G A V L V L W E C T G			
UniRef90_C7Q3F1	Q S W			
UniRef90_H0BH26	Q K W R F G S D G T I R A R D K C [C] L D V A N A N F N N G S R I Q L A W C N G			
UniRef90_UPI000371B970	Q Q W T Y D P V T H V V G A G S G K C [C] L D V T G N T S A D G A K T Q I W S C T G			
UniRef90_UPI00015FBDA7	Q Q W S F T D V A R L T A R N S G K S L D V Y G R G T A D G T A V I Q W T S N G			
UniRef90_M3DMY7	Q Q W N L N T D G T I G N A Q T G L C [C] L D V N G G S T A N G A R V I V W S C H T			
UniRef90_UPI00035F9D9B	Q K W A V S G A R D I V N P Q A D K C [C] L D V T G N S S A N S T R L Q I W T C A G G			
UniRef90_UPI0003C74B06	Q R W S Y N A A T R L V N T A A D K C [C] L D V R D R S S A D G A R T Q I W T C T G			
UniRef90_D8I684	Q Q W Q I V D			
UniRef90_UPI000400AE65	G P V E P G T F Y Q L V A Q H S G K A A D I D G A S T A A G A A L I Q W P L N G			
UniRef90_U5VFW9	Q K W K L N V N G S I T G V Q S S L C [C] L D V T G M G T A N G S L V Q L W T C N G			
UniRef90_H2K9D9	Q R W S Y N A T S D V V N T A A N K C [C] L D V T D N S S A N G A R A Q I W S C T G			

QUERY	G S N Q R W T R T
UniRef90_B5H6V7	G T N Q Q W T Y T
UniRef90_D6Y5E0	G N N Q K W T W T
UniRef90_F2RHT8	V G N Q K W S
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UniRef90_F4F8A1	G T H Q R W T Y T
UniRef90_G8SM07	Q A N Q Q F T Y S
UniRef90_H2JW16	Q A G Q K W T R
UniRef90_W2ES86	G A N Q Q W S L
UniRef90_L1L464	Q N N Q K W T L T
UniRef90_L8PL64	G S N Q Q W R L
UniRef90_UPI0004048F70	G T N Q Q W T L
UniRef90_UPI00037DAA98	G S N Q K W S R
UniRef90_U5W416	G G N Q R W S R S
UniRef90_C6W801	Q A D Q R W T L
UniRef90_D8HQB3	G S N Q R W S R
UniRef90_C7Q354	G S N Q Q W T L S
UniRef90_T1WSV4	G G N Q K W T
UniRef90_G8SJ7	G S N Q K W T L S
UniRef90_U5W804	E A N Q S W S R
UniRef90_UPI0003715ADB	G T N Q R F T Y T
UniRef90_U5W4H4	G T N Q K W R R S
UniRef90_C7QC25	Q S N Q Q W T R
UniRef90_D8HKQ3	
UniRef90_UPI000381CEC9	G P N Q K W T L
UniRef90_W7TD21	
UniRef90_I0H3Z8	G A N Q K W A L
UniRef90_UPI00028A0EEB	G T N Q K W T
UniRef90_M3FPX5	T P N Q K W R
UniRef90_UPI0004796FCB	
UniRef90_E4N4T1	G D G Q R W T
UniRef90_V6KIL3	
UniRef90_E3FTB1	Q A N Q R W S R
UniRef90_D8I9D3	S A R Q
UniRef90_H2JW18	G S N Q I W T R
UniRef90_UPI000372FA6E	
UniRef90_UPI0004221F71	Q T N Q Q W T I
UniRef90_C7Q1L1	
UniRef90_UPI0004658030	G S N Q K W
UniRef90_C7Q3H9	
UniRef90_K4QX25	Q A N Q K W T L
UniRef90_B5I744	Q N N Q K W S L T
UniRef90_L1L908	G P N Q Q W Q I
UniRef90_C4RJ02	T S N Q K W
UniRef90_D9UCP0	Q S N Q Q W S L
UniRef90_UPI000476E535	G A N Q Q W S
UniRef90_UPI00047B7A11	T A A Q R W G I S
UniRef90_UPI00036C2C04	
UniRef90_M3DIR0	
UniRef90_W2ETF2	Q A N Q K W S
UniRef90_I0L9Z3	A A N Q K W T L
UniRef90_I0LAA5	Q Q N Q Q W A L
UniRef90_V6KVJ4	G A N Q K W A V T
UniRef90_F8JSU6	G A N Q R W N L
UniRef90_F4H7M4	A V N Q R W S R
UniRef90_F2R8E1	S A A Q R W T V T
UniRef90_UPI000378C5F3	G A N Q K W T
UniRef90_UPI0002416BA9	G D N Q Q W R L
UniRef90_UPI00036F34AB	G A N Q K W T
UniRef90_H2K666	A A N Q K W
UniRef90_G8SD62	
UniRef90_E4NIX2	G A N Q Q W N L
UniRef90_UPI00039D76E7	G T N Q Q F H L
UniRef90_F3ZLP2	
UniRef90_UPI00036CB1AE	G A N Q K W V L
UniRef90_U5W4M5	G P N Q R W T Y T
UniRef90_D8I5J3	Q G N Q R W Q V T
UniRef90_F3NTZ0	
UniRef90_UPI0004773293	G A N Q K W S R S
UniRef90_M3CGB2	
UniRef90_U5W800	A A N Q V W T
UniRef90_UPI00035CD2F9	A D N Q K W S
UniRef90_UPI000374C97B	T G A Q R W T Y T
UniRef90_I0H4S9	A A N Q R W S R
UniRef90_E8W3S6	N P A Q K W S
UniRef90_G0K0D0	V P Q Q R F E L
UniRef90_UPI00035D38EA	G T N Q Q W T L
UniRef90_F2R1W8	
UniRef90_U5VXU7	
UniRef90_B5HZA0	G A N Q Q W V V S
UniRef90_U5VVG3	G A N Q K W R R
UniRef90_C7Q3F1	
UniRef90_H0BH26	A D A Q K F T L
UniRef90_UPI000371B970	G A N Q K W T L
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T G T Y R I T N D N S G K F L E V A N A A T D D G A T V Q Q Y G D T G H P C  
G V S A A L C V D A A D S G T A D G T H A Q I W T C N G S Y A

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

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

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

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

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

G K C V D V A G A N S A N G T A V Q L Y D C N G S G A  
Q W V F D H N F G A

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

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

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

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

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

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

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UniRef90_V6KNF5	Q Q W S Y N A G D V V N L A A N K C L D V N S S A N G A R A Q I W S C T G A A N	
UniRef90_U5VWJ5	Q R F T R T A A G E L K V L D R C L D V N G T A N G T K V Q L W T C N G T G A	
UniRef90_M0CR19	Q E W S V I E D T G G G V Y H S G K V L D V E G T A D D G A N L I Q W S D N E A D N	
UniRef90_D6KD42	Q D W V I A A D G T L R T L G K C L D A S G T G N G T R V Q L W T C N G S G A	
UniRef90_D2PL23	UniRef90_Q9RDQ1	Q K W R V D G D S L V N V N S G K C L D V N G T A D G T R I Q Q W T C K Q N G A
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UniRef90_W9FJ32	UniRef90_W7SH60	Q K W T A V N G A L Q A Q N N K C M D V A G T A A G S A I Q L Y T C N G T G A
UniRef90_E4N5Q7	UniRef90_B5HZ16	Q L W T L A D N G S V Q G R G K C L D V A N T T D G A A V H L W D C F D S T S
UniRef90_B5HUTO	UniRef90_UP10003A6585A	Q Q W Q A V D Y H F V N R H S G K C C L D V P S T A D S V Q L V Q Y T C N G T A A
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UniRef90_UP10003617C7A	UniRef90_D5SL58	Q K W R F G S D G T I R A R D K C L D V A N A D G S R L Q L A W C N G S A A G
UniRef90_UP1000474DF81	UniRef90_UP100036ADD52	A W T W N N W S D G S C S S G P T I L I T D Y N G T P T N Y G A A Y K A H L A S L G
UniRef90_UP1000474DF81	UniRef90_UP100047A0018	G S T G G D Y T G R I T G P G G M C V D V A G S A D S T P I Q L H N C T G N A A
UniRef90_UP10003675A2A	UniRef90_D8HZ8	Q T W T H T A S N Q F T V Y S G M C L D A Y N T T P G T K V E L W S C N G Q S N N
UniRef90_D8HZ8	UniRef90_U5WA41	Q Q W T L L Q D Q G N G Y Y H S G K C M D V E N T A N G A R L I Q W P C G T G S N
UniRef90_U5WA41	UniRef90_V5X1N9	Q Q W T L A T S D G T M R A M G K C M D P A G G T N G T P I Q L V T C N G N P V
UniRef90_V5X1N9	UniRef90_S4NP66	Q Q W S V D S S N G Y L V N A K S G Y C L E D T A D G N P L I I W A C N P G D V
UniRef90_S4NP66	UniRef90_M2YT40	Q R W T L G D D G T V R A L G K C L D A Q G T A D G T R V Q L Y T C N G T G A
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UniRef90_C6W969	UniRef90_UP100037018B9	Q Q W T V G T D G T L K A L G K C L D V T G T T D G A Q L Q L W D C G G T A N
UniRef90_UP100037018B9	UniRef90_U5W3Y3	M I L N V A V G G N W P G Y P D G S T Q P T M L V D Y V R V S A W T D G G T
UniRef90_U5W3Y3	UniRef90_D9UGB5	Q K W K I I D Y K L I S Q S S G K A L D V V G T H D G A N V Q Q W A D N G S A Q
UniRef90_D9UGB5	UniRef90_F7IWR1	Q Q F R L A D S P D I N R N S G K A V E V Q N T A D G A K V V Q F T D W G G A N
UniRef90_F7IWR1	UniRef90_R1HRX5	Q Q W R F V N L T D G Y Y H S G K C L D V S G A S H G A H L I Q W P C H N G Q N
UniRef90_R1HRX5	UniRef90_H2K6D7	Q N W T F Y T D G S I T R A L G K C L D V S N S G D G T V I Q L W D C N G T G A
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UniRef90_S4XMU0	UniRef90_R1HI67	Q Q W T V S A D G T I R A L G K C L D V G G T A D G T R T Q L W D C N G S A A
UniRef90_R1HI67	UniRef90_W2ESH6	Q Q W S A E P S G F V A R N S G K C L S V D G T A N G A R L S Q Q Q C D G S P A
UniRef90_W2ESH6	UniRef90_M0A4B4	Q Q W Y V E A V G N G E Y N S G K R L E V A N T V D G A V V Q Q Y A A T D C D C
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UniRef90_G2GLC1	UniRef90_G2GD13	E K W Q F R S T G D V N Q F N N K S W D V D G T A D G T K V H L W D Y V G G T N
UniRef90_G2GD13	UniRef90_B1SD5J	Q R W K I I D A G N I S A V S G K A L D V G D T K A G A N V Q Q W Y E T G G D N
UniRef90_B1SD5J	UniRef90_A0A22MIC2	Q S W T A A S D G T L R A L G K C M T V A G T A N G T A V Q L A T C S G A A S
UniRef90_A0A22MIC2	UniRef90_C7QGB8	Q Q W T V I E S N G S L Q Q A L G K C L D V N G T A N G S L V Q L Y T C N G T V A
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UniRef90_UP100028A1C0E	UniRef90_U5W3Y3	Q Q W T Y T A G K D L N V K A N K C L D I K D N N D G A K L Q L W T C G G G A N
UniRef90_U5W3Y3	UniRef90_D9UGB5	Q R W T L G T D G T L R T N G K C L D V T G T A D G A K L Q L Y D C N G T G A
UniRef90_D9UGB5	UniRef90_F7IWR1	Q Q W Q L V Q N S E I I N R H S G K C L D V H S T A D G A N I V Q W D Q S G Y P
UniRef90_F7IWR1	UniRef90_R1HRX5	Q S W T R T S A R E L T V Y N G R C L D A Q G T T P G T K I V I W N C N G Q A N
UniRef90_R1HRX5	UniRef90_H2K6D7	A Y V V N T S G G S Q R T D A G R S L A Y T L P A G A I A T F V W S S T G T P A
UniRef90_H2K6D7	UniRef90_UP100035E83BB	G W D N N A A Y R L T N A K N G K A L S V E G G S L A L A A P A T S P E
UniRef90_UP100035E83BB	UniRef90_S4XMU0	Q Q W S V T E A G G G A V R I G K V I D A Y G S P P G T A L V Q R A S N G G A S
UniRef90_S4XMU0	UniRef90_R1HI67	Q Q W R Q N A D G T I T G G Q G L C L D V N G T A N G T A V I L W T C H G G T N
UniRef90_R1HI67	UniRef90_W2ESH6	Q L W Q V T S G G Y Y R L N P A Q V W D V T N T A D A A P V Q L W A Y G G G D N
UniRef90_W2ESH6	UniRef90_H2JTG1	Q Q W S F T D A G D G V V R I G N R N D T N S T A D G A A V H L W S Y G G G A N
UniRef90_H2JTG1	UniRef90_UP100028A06BA	P I G D A P V V V V Q V E A A K G K C L D V A G T A N G T P I Q L T T C N K S A A
UniRef90_UP100028A06BA	UniRef90_W5W2K6	Q H W F L T G D G S V Q A M G K C M D V S G T A N A T K V Q L W D C N G S G A
UniRef90_W5W2K6	UniRef90_U4R2N8	Q K W R M V D Y K I V N M G S G K L L E V T S T A N G G D V A Q W T D N G G K N
UniRef90_U4R2N8	UniRef90_W7TE41	Q Q W Q F T A N G F F R V A S R A R L D V E G G A D G T H V Q L W T Y G G G T N
UniRef90_W7TE41	UniRef90_A9WSJ7	Q Q W S F T D A G D G V V R I G N R N D T N S T A D G A A V H L W S Y G G G A N
UniRef90_A9WSJ7	UniRef90_UP100046464FD	L Q G G G C G G K S I I G L A N K C I D V P N S D D G K R L Q L W D C N G S S A
UniRef90_UP100046464FD	UniRef90_N4WAN9	Q Q W S F A D Y K I V N R N S G K L L E I L N T E N G G D A I Q G T D S G S D S S
UniRef90_N4WAN9	UniRef90_UP100047DB769	Q Q W R I V D V G E L N I H S G K A M E V W S T D N G A S V T Q W T D W N G E S
UniRef90_UP100047DB769	UniRef90_G2P4N9	Q Q F Q F V D S G G G Y Y H S G K V L D V W S T A D G A N I H Q W T D H G G A N
UniRef90_G2P4N9	UniRef90_W7TH98	Q Q F L W A K D A G G Q Q V H S S Q C L T V A G T A D G A A V V Q S A C G A G T N
UniRef90_W7TH98	UniRef90_E8SCA7	Q Q W S F V Q A G T T L H V L G K C M D I T G T A N G T K V Q L Y D C N N T G A
UniRef90_E8SCA7	UniRef90_UP100035D7B23	R I I I S N N W N N K C V D V P N S N D D G V P L Q A W N C N G T A A
UniRef90_UP100035D7B23	UniRef90_W7VG66	Q K W Q V D P V G D G S Y T I G K C L E V P Q G Q S T E L D V Q Q Y A C N G G G N
UniRef90_W7VG66	UniRef90_UP1000471DE81	Q Q W Q F Q D A G N V S R N S G K C L D V V I S T A D G A E L I Q Y T C G T G T N
UniRef90_UP1000471DE81	UniRef90_W5W190	N I S F A A T N A R Y V R M Y G T Q R A T E Y G Y S L W D F E V Y S D S G P V D
UniRef90_W5W190	UniRef90_C7QAI8	AT G P I T G L A G K C V D V A S N A N G T A V Q L Y D C N G T N A
UniRef90_C7QAI8	UniRef90_Q1D3S1	Q Q F T V N A N G S L S V L G K C M D I I G T A N G V K V Q L Y D C N G T G A
UniRef90_Q1D3S1	UniRef90_UP100036D6FB5	Q R F R V T P T S I I N V N S N S A K C L E I K S T A A N A L V H Q W G Y G G G A N
UniRef90_UP100036D6FB5	UniRef90_UP100039EB8DA	Q N W R D N S W L L T N V N S N S A K C L E I W G D E D G A A A D Q W T C N G S A T
UniRef90_UP100039EB8DA	UniRef90_UP1000262A55F	Q E W T L R A R G L T G V N S G H C V D V E N G S P G A N V R Q W Y C N A Q P A
UniRef90_UP1000262A55F	UniRef90_UP100037B892B	Q A W Y F T N A S L I A T G G K V L D V Y G S T N G M P L Q L W D N L G G A N
UniRef90_UP100037B892B	UniRef90_UP100036D83A7	L S T V Q Q G G T Y T L R Y T P G K V L D V H S T A T T G V Q L Q W T P T G A T N
UniRef90_UP100036D83A7	UniRef90_UP100047555CD	Q Q W S L A D S R L I N R T S G K A L E V Q G T T D G A P V V Q Y S D W G G T N
UniRef90_UP100047555CD	UniRef90_UP10003B6A6BC	I T N N N D T D G A L V S N E A G S N N T I S G N S E F N S
UniRef90_UP10003B6A6BC	UniRef90_I0L2J8	Q Q W S L E T D G T I R A Y D K C L D I N G T A N Y T K V E L W D C D G A G G G
UniRef90_I0L2J8	UniRef90_M3F5C5	Q Q W Q F V D S G G G F Y R S G K V L D V T G T T D G A A I V Q W T D N N A S N
UniRef90_M3F5C5	UniRef90_C6IVJ2	Q R W T F S G S A I V S A R S G L C L D V N S T A E D H A L I Q W T C R N T A N
UniRef90_C6IVJ2	UniRef90_UP100036D09E8	Q R F R L E S T G D G Y Y H S G K V L D V P S T A A G V Q L Q Q W T D N G T D A
UniRef90_UP100036D09E8	UniRef90_D9T1D4	E Q W I A G R D G S L W V Q G K C A M A G R G G A A G T A L V L A A C D G S A V
UniRef90_D9T1D4	UniRef90_Q9ADL1	Q K W T F S G T A L K S Q N N K C M I D A G S T A N G A V Q L Y T C N G T G A
UniRef90_Q9ADL1	UniRef90_UP1000377FD58	Q F R F R E F A Y R I R L N V Q S D Q C L D V R S T A D G A A V V Q Y T C H D N A N
UniRef90_UP1000377FD58	UniRef90_UP10002F733BB	Q K W E Y G T H G T T R L Y N G N C F D L A D Y T N S R D G R M W D C T G K A P
UniRef90_UP10002F733BB	UniRef90_E8W4J0	G H T L V N V A S G K L L D V T G T A D G A P V G V H Q P T T G A N
UniRef90_E8W4J0	UniRef90_U2U7R9	Q Q W Q F V D S G G G S G Q F V S R L L N G C F D L W S T A N G G S I V Q W T D L L S T N
UniRef90_U2U7R9	UniRef90_R1I5R2	Q G W Q F V D S G N G Y Y N S G K V L D V P N S D D G V Q L Q M W N C N G S N A
UniRef90_R1I5R2	UniRef90_UP10003B6A6BC	W S T A D G G K V Q Q W T D L N G T N

90                    100                    110                    120

UniRef90_A8M8D2	Q Q W [V L] T G A N D [L V]   N P Q A N K C [L] D [V K D W N S A D G A R [L] Q T Y E C H G		
UniRef90_R11B8	Q K W T R S G S T F T N P A T G K C [L] D A N S S T A N G S P V R L W G C N G		
UniRef90_V6KNF5	Q K W H L		
UniRef90_U5VWJ5	Q R F T A N P D G S L V N T N S L K C I D V S G N G T A N G T L V Q L Y E C N G		
UniRef90_M0CR19	Q R W R I V D D G G S Y A V H S G K V A D V Y G W S T D N G G N V V Q W S D T G		
UniRef90_D6KD42	Q Q W T P G D G D S L V N P H S G L C [L] D D P S G S T T G G T Q L Q L Y T C D K		
UniRef90_D2PL23	Q Q W T R P G D G T V R A L G K C C L D V I A G G G T A D G S R V Q L Y T C N G		
UniRef90_Q9RDQ1	Q G W E F T P N T Q L R L N T G S G K C C L D L H T Y A N S Q D A W L W Q C N G		
UniRef90_F2R8E2	Q Q W Q A V E D G R F V N R N S G K C C L D V P A A S A A D S V Q L A Q Y T C N G		
UniRef90UPI0003B58DFC	Q Q W K L		
UniRef90_H1QQG1	G W I G D S P M I V H I H A A S D K C [L] E V A G N S K A D G A V V Q M Y T C H S		
UniRef90_U5VTB6	Q [V W Q A Q S N G T L R N P V S N K C L D A S G N S S A N G T R L Q I W E C F A		
UniRef90_S5VA52	Q Q W T L P G D G S V R A L G K C C L D V T S A S T A D G A K V Q L Y D C N G		
UniRef90_D6K2N2	Q K W R V Q D		
UniRef90UPI00028A0A8C	Q Q W T L H P D G T I T G V Q S G L C [L] N V T G G A T A D G S P A E L W T C N G		
UniRef90_U5VSC7	Q Q F V L L S G A G D L V N P Q S N K C V D I K D W N G A D G A R L Q L W D C A G		
UniRef90_G8S4Z5	Q K W T L L N A A G D L V N K A S G K C C L D V R D R N T A N G A K L Q L W T C T G		
UniRef90_D7BR66	Q R F Q V A P		
UniRef90UPI00046A380E	Q Q W V H Q A N G S L R N P Q S G R C [L] D D P Q G V T T D G T K L Q I Y D C N G		
UniRef90_W9FJ32	Q K F T L N G A H D L V N T V V G K C V D I P N H S K G R G T Y L I L W E C T G		
UniRef90_W7SH60	G G P G G G T S G P L H A V G A G K C L D V P N Q S T T A G T Q L D I R D C N G		
UniRef90_E4N5Q7	Q Q W T V G T D G T V R A L G K C C L D V A A A S H N D G A V I Q L Y T C N G		
UniRef90_B5HZ16	Q Q W T L N S S G T I T G V Q S G L C C L D I A G G A T A D G S L V E L R T C N G		
UniRef90_B5HUT0	Q Q F Q		
UniRef90UPI0003A6585A	Q R F T L S A A G D L V N V S A N R C V D V K D R N T A N G A Q L Q L W D C T G		
UniRef90UPI0003617C7A	G Q K W Q V P T G T S A S G P S G R V A G Y N G K A G A E G A A V Q L N T C G S		
UniRef90_D5SL58	Q R W A Y N S A R D L V N V P A N K C L D V L G Q N P A D A T P T Q L W T C S G		
UniRef90UPI000474DF81	Q Q W T I G G D G T V R A L G K C C L D V A G G S T A D G A V V V Q L Y T C N G		
UniRef90UPI00036ADD52	Q Q F R L L N S S N D L V N P Q A N K C V D V K D Q G T A N G T R L Q L W D C N G		
UniRef90UPI00047A0018	Q Q W T F N G D G T V R A L G K C C L D V S G G S T A D G A K V Q L W T C N G		
UniRef90_D8HZ8	Q R W A A T A A K D L V G A G S D K C V D A T G N S S A N G T R L Q I W T C T G		
UniRef90_U5WA41	T P P P A T G G T A L K S N F S G R C I D I P G G N A V D G A R L Q L W D C N G		
UniRef90_V5X1N9	Q R W R F		
UniRef90_S4NP66	Q Q W R L		
UniRef90_M2YT40	Q Q W R I		
UniRef90_C6W969	Q K W A V S G A N D V V N I N A D K C C L D I K G N T S A D G T R V Q L W T C T G		
UniRef90UPI00037018B9	E Q W Q T N S S G E I V N P V S G L C L T D A S N G A T N R T Q L T I A T C T G		
UniRef90UPI0002896FAD	Q Q W N V N A D G T I T T A Q A G L C C L D A V V G Q G T G N G T K I Q V W S C S G		
UniRef90UPI00036BB18F	Q Q W T V T A A R D I V N P Q A N K C C L D A T A N S S A N G T R L Q I W T C T G		
UniRef90UPI0003675A2A	Q T F S L E H		
UniRef90_M0A4B4	Q R W Y I N D D G N L E A V H S G K C L D V E G A S T S D G A N V I Q W P D T G		
UniRef90_G2GLC1	Q K W Q F A S D G T V R I N G L C C L D V A N A N Y N D G T P M Q I A W C S G		
UniRef90_G2GD13	Q Q W R A E S Q Y R F V A R H S N K C L A V D G S S T A D G A K L S Q Q T C S G		
UniRef90_B1SDJ5	Q K W Q F T K V D E S H N T G S N T G S D T P V A T		
UniRef90_A0A022MIC2	Q K W Q A Q A N G T L V G T Q S G K C C L D A T G P S S A N G T K L Q I W T C A A		
UniRef90_C7QGB8	Q V W Q A Q S N G E L V N P H S G R C C L D D T A S G G S G T Q L Q I W D C T A		
UniRef90UPI00028A1C0E	Q Q W Q L T P		
UniRef90_U5W3Y3	Q K W T V N G A S T P P T T P P V T P T T V P P G S G N P D L G P N V S I F D P		
UniRef90_D9UGB5	Q R W T Y D A T S H V V N T A A N K C C L D V T D R S T A N G A R A Q I W T C T G		
UniRef90_F7IWR1	Q Q W S L L Q Q V G N L V S R L S G K A L E V V Y N H S T A N G A N V V Q W D Y S		
UniRef90_R1HRX5	Q Q W T V Q S N G T I T G V Q S G L C C L D V T G S A T A N G T P I Q L A T C T G		
UniRef90_H2K6D7	G P I D S A A W Y Q V V N A N S G A C L D A V D W G T A N G T A V V Q Q W T C G T		
UniRef90UPI00035E83BB	Q H W M L S T T G N L I N A A T G S L L D V T G G A T S D G A P V G T Y Q P T T		
UniRef90_S4XMU0	Q Q F K L T P		
UniRef90_R1HI67	Q Q W		
UniRef90_W2ESH6	Q Q W Q P V E E Y H F V N R H S G K C C L D V P G A S T A D S V Q L Q Q Y T C N G		
UniRef90_H2JTG1	Q Q W L P V D D G H F V N R N S G K C C L D D P G A S L A D S V Q F V Q Y T C N G		
UniRef90UPI00028A06BA	Q S W Q L V D D G Y S L W N P N A M K C C L D V S G S N P A N G T K I Q I Y T C N S		
UniRef90_W5W2K6	Q K W K A S S G A L V N P Q S G K C C L D D P N S T T T D G T Q L Q I W E C N G		
UniRef90_U4R2N8	Q Q W Y L		
UniRef90_W7TE41	Q Q W K P V D Q G N L V A Q H S N A C L D V T G G S S A D N T R L Q Q L Q C T G		
UniRef90_A9WSJ7	Q K W D F A G D G T L R A D G K C M D A P G A G T S N G T P V Q L A N C S G		
UniRef90UPI00046464FD	Q K W R L I D I G K I V N M R S G K C L D V L S V S T A N G G D V A Q W T D N G		
UniRef90_N4WAN9	Q Q W E I V D L G N I I N R Y S G K A L E V F E W S T D N G A N I V Q W D D L G		
UniRef90UPI00047DB769	Q Q F R L A D H V R L I N R N S S K A V E V Q N A A T D D G A N V V Q Y S D W G G		
UniRef90_G2P4N9	Q Q W R A T D T D G D Y G A R S S G K C C L D V A D E S T A D K A A L L Q W S C T G		
UniRef90_W7TH98	Q V W I P Q S N G T I L Y N P Q S N K C C L D D P A Y S T T P G T Q V Q I W D C A G		
UniRef90_E8SAC7	Q A W T F T G G S L R T Q N N M C M D V A W G S R D N G A V I Q I A T C S G		
UniRef90UPI00035D7B23	Q H W K P T A V Y S L A N V T S R L C A D V A G V G T Q D G A K V L Q W T C N G		
UniRef90_W7VG66	Q Q F Q M V T G G Q L R A R H S G K C C V D V P A A S T A D G V V L K Q Y A C N T		
UniRef90UPI000471DE81	T G I I I S G A V Y K L T A Q H S G K N L D V A G G S A S D G A N V Q Q W T D N G		
UniRef90_W5W190	Q Q W T L S G N T L R A L G K C C L D V A S A N S A N G T K V Q L Y E C N G		
UniRef90_C7QAI8	Q V W N A Q S N G T L L N P Q S G R C C L D D P A S S T T D G T Q L Q I W D C N G		
UniRef90_Q1D3S1	Q Q F R F V K E F S I R A R H T D M A I D V Y W G N T A N G T E L V Q Y P Y E Q		
UniRef90UPI00036D6FB5	Q N W		
UniRef90UPI00039EB8DA	Q D W R L E N A G R G Y Y R S S G Q C C L D V S E G S R T A G A N V Q Q W T C N G		
UniRef90UPI000262A55F	Q R W S F N P A S G E I R V S T G R C C L D V V N F S T A P G T P V Q I W D C N G		
UniRef90UPI00037B892B	Q Q W Y L P R T G D I V G Y E S G L A A D V Y G N S T A D G A A V V Q W T A T G		
UniRef90UPI00036D83A7	Q Q W Q L V P		
UniRef90UPI00047555CD	V S F D S N S F Y Q I V N R N S G K C L L E V T N A S T S D G A N I Q Q W T A N G		
UniRef90UPI0003B6A6BC	Q Q W V A R S D G S L I Y N P Q S G R C C L D D P Q A E T A E G T Q L Q I Y D C N G		
UniRef90J0L2J8	Q Q F R L A D N V R L I G R Q S G K A V E V Q G A S T A D G A N V V Q Y A D T G		
UniRef90_M3F5C5	Q Q W S L		
UniRef90_C6IVJ2	Q R W R I V D A G K L I S K A S G L V M D V S G A S T A D G A A V Q Q W T D N G		
UniRef90UPI00036D09E8	Q Q W R A G S G R T L V N Q A S G L C V E V K G S A T A E G T P L L A R V C D T		
UniRef90_D9T1D4	Q Q F T L I N A A G D L V L N L Q A G K C V D I K D W N G N D G A R L Q L W D C G G		
UniRef90_Q9ADL1	Q Q W S V T E A G R I T S R L S G R V I D A Y G S P P A S G T A L V Q R A S S G		
UniRef90UPI000377FD58	Q Q F D V V P S G H		
UniRef90UPI0002F733BB	Q S W T F P S W K S L A F R H S S K C C L D V S G A S T A D G A A V V Q Y G C N S		
UniRef90_E8W4J0	Q Q W R L A D Y V R F I S R H S G K A L E V Q G A S T A D G A N I V Q Y D D W G		
UniRef90_U2U7R9	Q Q W S F V I N G T L Q A G K C M D V A W G S T A N G A A I Q L A N C S G		
UniRef90_R1I5R2	Q Q F G L A D Y V R L L N R N S G K A V E V S G L C S T A D G A A I V Q Y G D W Q		

UniRef90_A8M8D2	G A N Q K W R [L]
UniRef90_R11B8	S G G Q N W Q
UniRef90_V6KNF5	
UniRef90_U5VWJ5	T G A Q R W T
UniRef90_M0CR19	G A N Q R W T F
UniRef90_D6KD42	S A A Q T W K [L]
UniRef90_D2PL23	S A A Q Q W N Q T
UniRef90_Q9RDQ1	T D P Q K F
UniRef90_F2R8E2	T A A Q R F Q [V]T
UniRef90_UP10003B58DFC	G A N Q K W R [I]
UniRef90_H1QQG1	G T N Q R W T [L]
UniRef90_U5VTB6	T G A Q K W S Y
UniRef90_S5VA52	
UniRef90_D6K2N2	
UniRef90_UP100028A0A8C	A G S Q R W T [L]
UniRef90_U5VSC7	T A N Q K W
UniRef90_G8S4Z5	T S N Q K W T F
UniRef90_D7BR66	
UniRef90_UP100046A380E	[L]W T Q Q W T [L]
UniRef90_W9FJ32	L D N Q K W S
UniRef90_W7SH60	G T N Q Q W T H T
UniRef90_E4N5Q7	T S A Q Q W T
UniRef90_B5HZ16	G S S Q R W T [L]
UniRef90_B5HUTO	
UniRef90_UP10003A6585A	G S N Q K W T R
UniRef90_UP10003617C7A	A A S Q S W T
UniRef90_D5SL58	N P N Q K W N [L]
UniRef90_UP1000474DF81	T N A Q K W T Y T
UniRef90_UP100036ADD52	Q D N Q K W S
UniRef90_UP100047A0018	T G A Q Q W [V]Y T
UniRef90_D8HZ8	A A N Q K W
UniRef90_U5WA41	S T A Q K W
UniRef90_V5X1N9	
UniRef90_S4NP66	
UniRef90_M2YT40	
UniRef90_C6W969	A A N Q K W
UniRef90_UP100037018B9	S T G Q R W T
UniRef90_UP10002896FAD	G D N Q H W S
UniRef90_UP100036BB18F	S A N Q K W T
UniRef90_UP10003675A2A	
UniRef90_M0A4B4	G A N Q R W T F
UniRef90_G2GLC1	N N A Q K F [V]L
UniRef90_G2GD13	S A A Q T F R L [T]
UniRef90_B1SDJ5	
UniRef90_A0A022MIC2	S D N Q [L]W K [L]
UniRef90_C7QGB8	S A N Q K W Q L
UniRef90_UP100028A1C0E	
UniRef90_U5W3Y3	S M S Q
UniRef90_D9UGB5	A S N Q K W T [L]
UniRef90_F7IWR1	N P N Q [L]W T I
UniRef90_R1HRX5	A N N Q K W T F
UniRef90_H2K6D7	G A N Q A W Q F
UniRef90_UP100035E83BB	G R N Q S W T F
UniRef90_S4XMU0	
UniRef90_R1HI67	
UniRef90_W2ESH6	T A A Q S F [V]
UniRef90_H2JTG1	T A A Q R F Q
UniRef90_UP100028A06BA	S P A Q Q W K F
UniRef90_W5W2K6	S G A Q [L]W R [L]
UniRef90_U4R2N8	
UniRef90_W7TE41	G P S Q [L]F
UniRef90_A9WSJ7	N K A Q Q F T [L]S
UniRef90_UP100046464FD	G K N Q Q W Y L
UniRef90_N4WAN9	G E N Q Q W Q I
UniRef90_UP100047DB769	G A N Q Q W Q L
UniRef90_G2P4N9	G A N Q Q W Q R
UniRef90_W7TH98	T A N Q [L]W H L S
UniRef90_E8SCA7	N P A Q Q F [V]L S
UniRef90_UP100035D7B23	A S N Q K W K F T
UniRef90_W7VG66	G A N Q Q W S R T
UniRef90_UP1000471DE81	N P Q Q K W K
UniRef90_W5W190	S A A Q Q W T [V]S
UniRef90_C7QA18	G A N Q K W T [L]
UniRef90_Q1D3S1	R T N Q R W T F
UniRef90_UP100036D6FB5	
UniRef90_UP100039EB8DA	G Q P Q [L]W R [L]
UniRef90_UP1000262A55F	T Q N Q A W Q L
UniRef90_UP100037B892B	G A N Q Q W Q L
UniRef90_UP100036D83A7	
UniRef90_UP100047555CD	C S C Q N W S F
UniRef90_UP10003B6A6BC	[L]F T Q K W
UniRef90_I0L2J8	G A N Q Q W Q L
UniRef90_M3F5C5	
UniRef90_C6IVJ2	T D A Q K W M F T
UniRef90_UP100036D09E8	S A G Q R F
UniRef90_D9T1D4	T A N Q K W R
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UniRef90_UPI0002E7F146	Q Q W   R   L   I   K		
UniRef90_D7B0W7	Q Q F   R   L   E   D   H   I   R   L   V   N   R   H   S   G   K   A   V   E   V   Q   G   A   S   T   A   D   G   A   N   V   V   Q   Y   D   D   W   G		
UniRef90_F2RHT6	Q Q W   Q   L   V   K   V   G		
UniRef90_UPI0003B2E6EE	Q R W   Y   F   S   D   Q   G		
UniRef90_UPI000368C167	Q K W   N   I   P   S		
UniRef90_W4BEV6	Q Q W   L   P   I   D   V   G   G   Y   V   N   R   N   S   G   L   T   V   D   I   N   Q   G   S   L   T   A   G   A   S   T   I   Q   W   A   D   N   G		
UniRef90_N9V175	Q R F   R   L   D   G   E   R   V   R   V   G   D   K   C   L   D   V   A   G   D   R   R   E   P   G   A   R   V   V   V   A   W   E   C   H   D		
UniRef90_G8S9Z5	Q Q F   S   V   Q   S   G   N   Q   L   I   N   R   N   S   G   K   A   V   E   V   Q   G   A   T   T   D   G   A   N   V   V   Q   Y   T   D   G   N		
UniRef90_E4NIX1	Q S   F   T   F   G   S   T   V   T   N   P   P   G   T   P   D   F   G   P   N   V   T   V   F   D   P   S   M   P   A   A   T   V   Q   A   K   L   N   A		
UniRef90_W7Z1A7	Q Q W   S   I   V   P		
UniRef90_S6D107	Q R F   Y   L   H   D   Q   G   H   I   Q   P   V   H   S   Q   K   A   V   E   V   E   S   S   S   T   S   D   G   A   N   V   Q   Q   Y   D   W   H   G		
UniRef90_UPI0002883BEF	Q Q W   S   V   T   A   S   G   S   Y   W   S   R   A   S   G   E   C   L   D   V   N   G   G   S   T   A   N   S   A   A   I   I   T   Y   T   C   N   G		
UniRef90_B4CYS8	Q K   W   T   I   T   P   A   G   R   L   L   N   V   N   S   G   K   A   A   D   V   S   G   G   S   T   A   D   G   A   V   V   I   Q   W   P   Y   S   G		
UniRef90_UPI000248D15B	Q R   W   S   I   E   P   L   G   D   I   T   A   K   H   S   G   K   V   L   D   V   K   N   G   R   T   D   D   P   A   F   L   H   Q   W   P   F   Q   N		
UniRef90_R4LM51	Q Q F   R   L   H		
UniRef90_I0XLJ1	M R   F   D   F   V   G   D   S   I   R   N   R   I   N   S   L   Y   A   V   D   A   N   G   T   S   S   G   S   L   V   S   Q   W   E   F   K   N		
UniRef90_D9XFK8	Q E   W   E   F   R   A   V   S   E   L   L   R   N   V   A   T   D   K   C   L   D   L   H   K   F   D   N   S   Q   D   S   W   L   W   T   C   N   G		
UniRef90_UPI00037AFFE3	Q K   W   Q   R   W   A   S   Y   D   L   Q   N   P   N   S   G   K   C   L   D   V   L   N   G   S   T   T   D   G   T   K   I   Q   I   R   D   C   G   T		
UniRef90_UPI0003658C92	Q R   F   R   F   G   G   W   V   R   I   V   N   Q   A   T   G   K   V   A   D   V   A   D   C   S   T   A   D   G   A   D   V   V   R   Q   W   T   W   L   N		
UniRef90_W8F6U5	Q Y   W   Q   I   L   S   N   G   R   I   L   N   K   F   S   G   K   A   L   D   V   E   N   N   S   T   A   D   G   A   A   V   H   Q   W   T   Y   G   G		
UniRef90_C9ZEC5	Q A   W   Q   I   R   K		
UniRef90_C0BAT2	Q K   W   Q   I   S   K   Y   Y   K   I   S   E   V   S   T   G   K   V   L   D   I   Y   N   G   N   S   T   N   G   T   N   L   Q   T   F   S   W   N   G		
UniRef90_C0BAT2	Q K   W   Q   I   S   K   Y   Y   K   I   S   E   V   S   T   G   K   V   L   D   I   Y   N   G   N   S   T   N   G   T   N   L   Q   T   F   S   W   N   G		
UniRef90_W01YK7	Q R   W   I   P   V   P   Y   Y   K   L   V   S   A   N   T   G   L   V   L   V   V   A   D   S   S   T   A   N   G   A   R   I   I   Q   Q   E   F   S   G		
UniRef90_UPI0003674B76	Q K   W   T   L   H		
UniRef90_UPI000361C061	Q T   F   L   Y   E   S   L   G   Q   L   R   A   S   H   S   D   C   L   D   V   S   E   R   S   L   A   N   G   A   N   V   I   Q   W   P   C   H   G		
UniRef90_A0A022MJZ8	Q   I   W   G   V   P   S   S   R   P   V   V   S   G   Y   G   G   K   C   A   E   V   A   G   S   A   S   A   N   G   T   A   V   V   Q   L   N   V   C   G   T		
UniRef90_C0B964	Q K   W   I   A   V   K   Y   L   L   Y   S   A   L   T   E   N   L   V   I   D   V   T   G   A   N   I   K   N   G   S   N   V   V   Q   V   Y   R   K   N   E		
UniRef90_UPI0003478700	Q Q   W   R   P   V   D   T   G   Q   L   I   N   R   N   S   G   K   A   L   E   I   W   E   W   S   T   T   P   G   D   R   L   S   Q   Y   D   S   L   G		
UniRef90_B5HPX8	Q Q   W   R   L   N   N   A   Y   A   L   I   N   N   E   N   S   Q   K   C   L   D   V   Q   S   S   N   P   A   N   G   T   K   I   Q   I   W   T   C   N   G		
UniRef90_F8JK44	Q K   W   V   H   Q   A   N   G   S   L   L   N   P   Q   S   G   R   C   L   D   D   P   Q   A   K   T   D   N   G   T   Q   L   Q   I   Y   D   C   N   G		
UniRef90_D6TYG5	Q Q   W   Q   V		
UniRef90_UPI00037B40B3	Q Q   W   T   A   T   S   S   G   G   Y   W   A   R   T   T   G   E   C   L   D   V   N   G   A   S   A   D   N   S   A   A   I   I   T   Y   S   C   S   G		
UniRef90_U2SK9V	Q Q   F   R   P   V   S   T   G   S   G   W   A   R   H   S   G   K   V   L   D   V   A   D   W   T   S   S   D   G   A   R   L   L   Q   Q   W   T   W   A   N		
UniRef90_F4FFB2	Q Q   W   Q   I   L   V   R   V   G   V		
UniRef90_J3CGB7	Q Q   W   K   I   T   S   V   G   N   G   Y   A   C   A   P   N   S   C   L   D   V   N   Q   S   A   T   A   D   G   T   K   I   Q   I   W   T   A   N   G		
UniRef90_Q091X3	Q Q   F   K   P   V   S   L   G   N   G   Y   S   R   H   S   G   K   V   L   D   V   T   D   C   T   S   D   G   A   R   L   L   Q   Q   W   A   W   S   N		
UniRef90_UPI000465B0EA	A   P   P   A   Q   T   S   V   F   Q   L   V   N   R   Q   S   G   K   A   V   D   V   A   G   A   S   T   A   N   G   A   G   L   I   Q   Y   T   P   S   S		
UniRef90_U2RQL4	Q   L   W   S   F		
UniRef90_D5UBT5	Q Q   W   Q   L   V   P   I   G   S   P   V   T   P   T   S   S   P   T   P   G   P   T   S		
UniRef90_R9PUH4	Q   V   W   S   L   V   D   K   G   E   I   R   N   K   Q   S   G   K   C   L   E   I   A   N   N   S   G   A   N   G   A   D   L   R   Q   W   S   C   D   G		
UniRef90_S4YE52	Q   Q   W   S   F   T   D   V   T   R   L   T   A   R   H   S   G   K   S   L   D   V   A   G   S   A   D   G   A   G   L   L   Q   Q   W   G   W   A   N		
UniRef90_UPI0003765BFB	Q   K   F   D   I   V   P   S   G   H		
UniRef90_C4RG89	Q   R   W   S   L   I   D   W   M   W   R   L   E   N   V   N   S   G   K   V   A   D   V   A   D   C   G   T   T   D   G   T   T   V   R   L   W   A   W   L   N		
UniRef90_UPI000364CA30	Q   Q   W   R   V   E   G   D   D   H   L   R   N   V   K   S   L   K   C   L   D   V   A   G   N   N   S   A   N   G   T   K   I   Q   L   I   T   C   S   G		
UniRef90_W0V1T0	Q   Q   W   Q   I   N   A   N   H   T   L   I   N   Q   N   S   G   K   A   L   H   V   S   N   S   G   T   A   N   G   S   A   V   V   Q   I   F   T   S   N   G		
UniRef90_UPI0004150A7E	Q   Q   F   Q   L   V   P		
UniRef90_UPI0003635804	Q   Q   W   S   L   T   T   S   G   S   Y   V   N   R   A   S   G   E   C   L   D   V   N   G   A   S   T   A   N   S   A   A   L   I   T   Y   T   C   N   G		
UniRef90_V6JIA2	Q   Q   W   I   F   E   K   Y   Y		
UniRef90_B3RR08	Q   Q   F   V   L   P   S   G   A   G   D   L   V   S   V   L   A   N   K   C   V   D   I   V   N   H   N   P   N   D   G   A   R   L   I   I   Y   E   C   T   G		
UniRef90_F8CJ72	Q   Q   F   V   L   P   S   G   A   G   D   L   V   S   V   L   A   N   K   C   V   D   I   V   N   H   N   P   N   D   G   A   R   L   I   I   Y   E   C   T   G		
UniRef90_W5N3U8	Q   Q   W   R   Y   R   K   D   K   S   I   Y   H   P   I   S   N   S   C   V   D   A   S   P   A   E   K   K   V   F   M   N   S   C   D   S		
UniRef90_UPI000466B8FB	Q   Q   W   R   I   A   D   T   G   D   L   T   C   A   R   S   G   K   V   L   G   V   T   G   G   S   T   A   D   G   A   T   I   E   Q   Q   T   A   D   G		
UniRef90_UPI0003612A7B	Q   Q   W   R   I   F   T   Y   V   I   R   N   F   E   S   R   Q   A   L   E   V   P   G   D   S   T   T   G   G   T   A   L   G   Q   W   T   P   L   N		
UniRef90_C0BAS9	Q   Q   R   Y   K   F   Y   E   T   G   C   Y   I   T   T   E   S   G   T   V   L   D   V   S   A   G   R   I   A   N   S   S   N   V   Q   L   Y   G   L   N   K		
UniRef90_G8S547	Q   Q   K   F   V   Q   P   Q   A   D   G   S   L   R   N   P   Q   S   G   R   C   V   D   S   P   N   G   T   T   A   N   G   T   R   L   Q   L   W   D   C   N   G		
UniRef90_UPI000381CF4D	Q   Q   W   W   T   H   D   G   T   T   L   R   S   A   T   G   K   C   L   T   T   G   G   G   S   A   T   V   I   R   T   C   D   G		
UniRef90_G0AGQ2	Q   Q   W   Q   V   T   P   W   F   R   L   T   S   R   N   S   G   K   V   L   D   V   A   N   C   G   T   A   D   T   T   N   I   Q   Q   W   D   W   L   N		
UniRef90_UPI00029B0031	Q   Q   W   Q   V   W   V   E   G   D   D   H   L   R   N   V   G   S   Q   K   C   L   D   V   S   N   T   S   A   D   G   A   K   I   Q   I   W   T   C   N   S		
UniRef90_UPI0003B5E6A2	Q   Q   D   W   F   I   T   K   E   G   K   I   I   N   A   Y   S   G   L   A   L   D   V   S   A   A   S   Q   E   D   G   A   N   V   Q   T   W   T   W   N   G		
UniRef90_S4Y486	Q   Q   K   W   D   V   L   D   R   G   D   L   R   S   V   N   S   G   K   C   V   D   V   S   G   V   S   T   A   D   N   A   R   F   I   Q   Y   T   C   S   T		
UniRef90_S9PC74	Q   Q   F   K   F   V   G   R   G   N   I   H   V   R   H   T   D   M   A   L   D   L   Y   W   G   S   A   N   N   G   T   Q   Y   V   Q   Y   P   Y   T   G		
UniRef90_UPI000365CDB5	Q   Q   E   W   K   L   I   D   A   G   S   I   V   N   I   N   S   D   K   V   L   D   V   K   G   E   S   T   S   D   S   A   S   I   I   Q   Y   T   G   R   G		
UniRef90_W2F115	Q   Q   G   F   E   F   T   S   A   G   E   L   R   T   F   G   G   T   R   C   V   D   A   Y   G   Q   G   T   S   A   G   T   K   V   V   I   W   T   C   N   G		
UniRef90_W5XC74	Q   Q   W   Q   V   Q   V   Y   N   L   K   N   V   N   S   G   L   L   D   V   V   G   A   K   R   N   N   G   T   L   V   D   Q   Y   Q   S   N   G		
UniRef90_UPI0003B6450A	Q   Q   W   Q   F   N   G   Y   Y   K   I   V   N   R   Y   S   G   K   V   L   D   V   N   G   G   S   L   D   D   L   G   K   V   Q   Q   W   T   S   N   N		
UniRef90_A0A024YU03	Q   Q   F   V   R   D   G   A   T   L   R   P   A   A   P   S   M   C   L   T   V   A   A   A   H   E   P   L   R   L   R   S   C   D   G		
UniRef90_D2QTW7	Q   Q   K   F   K   L   I   D   A   G   D   V   V   N   S   N   S   T   R   C   L   E   V   Q   A   S   S   T   A   D   G   A   L   L   Q   Q   S   A   C   G   D		
UniRef90_UPI0003790430	Q   Q   W   S   I   E   Q   C   Y   R   I   T   A   R   N   G   K   A   V   S   V   S   N   E   S   K   D   N   G   A   I   I   R   Q   Q   A   Y   S   G		
UniRef90_D6XBF2	Q   Q   K   F   R   V   V   A   K   T   H		

UniRef90_I0KW63	G T N Q Q WQ F
UniRef90_S9P6R7	T A N Q <span style="border: 1px solid black; padding: 0 2px;">L</span> WT F
UniRef90_Q08ZY2	<span style="border: 1px solid black; padding: 0 2px;">V</span> A S Q K WT
UniRef90_U5WC43	S P A Q <span style="border: 1px solid black; padding: 0 2px;">V</span> F R
UniRef90_U5VV25	T K A Q A W K F
UniRef90_C0B963	H A C Q Q W
UniRef90_D2S1R0	
UniRef90_R7KXL2	T G A Q K W T
UniRef90_I0L6N8	Q A N Q Q W K F
UniRef90_R6GFL4	S Q S E K W <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_A0A022MQC0	
UniRef90_R4LQA6	
UniRef90UPI000476A781	G N N Q Q W Q <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_G9PD71	G A S Q R W T
UniRef90UPI00042442B2	S A S Q Q W K
UniRef90UPI0003B4C295	T P A Q R W T <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90UPI0003790D94	Q D N Q K W S R
UniRef90_J7LK03	
UniRef90UPI00037825D9	S P A Q R W A <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_V6JX03	
UniRef90_C4RL93	
UniRef90_K4QYN1	
UniRef90UPI0002E7F146	G G N Q Q W R <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_D7B0W7	
UniRef90_F2RHT6	
UniRef90UPI0003B2E6EE	
UniRef90UPI000368C167	
UniRef90_W4BEV6	G A N Q Q W S <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_N9VI75	G S N Q Q W R R
UniRef90_G8S9Z5	G T N Q Q W Q <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_E4NIX1	<span style="border: 1px solid black; padding: 0 2px;">V</span> F A Q Q
UniRef90_W7Z1A7	
UniRef90_S6D107	G D N Q <span style="border: 1px solid black; padding: 0 2px;">L</span> W T F
UniRef90UPI0002883BEF	A T N Q Q W T R
UniRef90_B4CY88	A T N Q <span style="border: 1px solid black; padding: 0 2px;">L</span> W Q <span style="border: 1px solid black; padding: 0 2px;">L</span> S
UniRef90UPI000248D15B	T D N Q K W F <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_R4LM51	
UniRef90_I0XLJ1	T S N Q <span style="border: 1px solid black; padding: 0 2px;">L</span> W K R S
UniRef90_D9XFK8	T N P Q R F R
UniRef90UPI00037AFFE3	A K A Q Q W K F
UniRef90UPI0003658C92	N N C Q Q W K <span style="border: 1px solid black; padding: 0 2px;">L</span> S
UniRef90_W8F6U5	G D N Q R W W F S
UniRef90_C9ZEC5	
UniRef90_C0BAT2	T D A Q <span style="border: 1px solid black; padding: 0 2px;">L</span> W K F
UniRef90_C0BAT2	T D A Q <span style="border: 1px solid black; padding: 0 2px;">L</span> W K F
UniRef90_W01YK7	<span style="border: 1px solid black; padding: 0 2px;">L</span> P G Q Q W Q
UniRef90UPI0003674B76	
UniRef90UPI000361C061	G S N Q Q W
UniRef90_A0A022MJZ8	G S A Q S W T
UniRef90_C0B964	T T A Q Q F <span style="border: 1px solid black; padding: 0 2px;">L</span> F T
UniRef90UPI0003478700	G A N Q <span style="border: 1px solid black; padding: 0 2px;">V</span> W
UniRef90_B5HPX8	S K A Q Q W N F
UniRef90_F8JK44	<span style="border: 1px solid black; padding: 0 2px;">L</span> F T Q <span style="border: 1px solid black; padding: 0 2px;">V</span> W N <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_D6TYG5	
UniRef90UPI00037B40B3	A T N Q Q W T R
UniRef90_U2SKV9	N D C Q Q F R <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_F4FFB2	
UniRef90_J3CGB7	S S A Q K W K <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_Q091X3	N D C Q Q F R <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90UPI000465B0EA	A <span style="border: 1px solid black; padding: 0 2px;">V</span> N Q Q F R F
UniRef90_U2RQL4	
UniRef90_D5UBT5	
UniRef90_R9PUH4	G T N Q R F K F
UniRef90_S4YE52	G N N Q K F S <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90UPI0003765BFB	
UniRef90_C4RG89	N Y C Q Q W Q
UniRef90UPI000364CA30	S P A Q T W
UniRef90_W0V1T0	S A A Q K W Q <span style="border: 1px solid black; padding: 0 2px;">L</span> T
UniRef90UPI0004150A7E	
UniRef90UPI0003635804	G T N Q Q W T R
UniRef90_V6JIA2	
UniRef90_B3RR08	
UniRef90_F8CJ72	N P N Q K W
UniRef90_W5N3U8	S K T Q Q W <span style="border: 1px solid black; padding: 0 2px;">V</span> F
UniRef90UPI000466B8FB	G T G Q Q W R R
UniRef90UPI0003612A7B	Q T N Q <span style="border: 1px solid black; padding: 0 2px;">L</span> W T <span style="border: 1px solid black; padding: 0 2px;">I</span>
UniRef90_C0BAS9	T <span style="border: 1px solid black; padding: 0 2px;">V</span> A Q K W C F
UniRef90_G8S547	A A A Q K F
UniRef90UPI000381CF4D	T A G Q R W T R
UniRef90_G0AGQ2	N A C Q Q W K <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90UPI00029B0031	S P A Q T W
UniRef90UPI0003B5E6A2	T D A Q <span style="border: 1px solid black; padding: 0 2px;">L</span> W E <span style="border: 1px solid black; padding: 0 2px;">T</span>
UniRef90_S4Y486	G T N Q R F R <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_S9PC74	A A N Q <span style="border: 1px solid black; padding: 0 2px;">L</span> Y T F
UniRef90UPI000365CDB5	S S N Q L W K <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_W2F115	Q A N Q R W R
UniRef90_W5XC74	K T N Q Q W R F
UniRef90UPI0003B6450A	G D N Q Q W A <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_A0A024YU03	S A N Q R F
UniRef90_D2QTW7	G N N Q K F <span style="border: 1px solid black; padding: 0 2px;">L</span> F T
UniRef90UPI0003790430	R A S Q Q W K <span style="border: 1px solid black; padding: 0 2px;">L</span>
UniRef90_D6XBF2	

1 10 20 30 40

P T G W V T	V A A K H S G K C V	D A A A A G T A D G T A V	Q Q Y A C N G T T A
P G R Y R	V R N I I G S G L L E	V Y G G V K G S G A V V	Q Q G R D S G A A A
UniRef90_UPI000365F27D	A Y Y R L V S V R S G K V M D	V N A F S T A D G T R I	Q Q W T D Q S T A N
UniRef90_R7FIX5	Y T I K S V H S N K Y L D I	A E N G L N N G V N I	I Q S S Y S G T P D
UniRef90_C9Z035	G Y Y V I K C A N S G K A L L	D V S W G D K N D G A N V	Q Q C S V N G S D A
UniRef90_L7F1D1	P I P F V R F I G L Y A G R C V	N A L C V A A I A F A L L	T T F A T
UniRef90_E1SVP1	G W Y R I A N R N S G K V L	G V D G M S T A N S A H V	Q F G D T G T A D
UniRef90_B3RR09	T G R C L D V Q G G S A T	V G A R A H I W D C L E	V D S
UniRef90_M3Y546	G S Y T L T N I A S G R V L D	E P A N R T A N G T R M T	V W D A N G G T H
UniRef90_D9W4W0	G R G G Q I E T R G R G L C L D I	S R Q V V N G A P L	Q T W N C N G R V N
UniRef90_T7M9T8	P A P W R G Q E I R G Q N G L C L D V A G G L R A	G N A L N V Y Q C T	G A E N
UniRef90_W4DC43	A G T Y Q I K N V N S G L A L D	T V N S N G T A Q G Q T L V	D Q A T P S S S T T
UniRef90_E0RC68	G G W R S L R A A H S G K V L D	V T G G S T S A G T H L	E Q W Q I A N H P N
UniRef90_D5WMI0	G T R Y N L I N Q N S G L C M D	V S G Q S M S P G G P I	I Q W T C N G G T N
UniRef90_G1WG92	T T A Y R L V N K A T G K C V	D V E A Q S T A D G A K I	H Q W A C H T G S S
UniRef90_A4FJK6	S G I I R S V N S G L A L D	D V A G G S N K G A N L	I Q W P P H F G E N
UniRef90_A5FIN0	G P G A A I T G V G G K C V D	D V A G G D L G G N T A V	V Q D C K A L A A D
UniRef90_I0H4T3	I R G Q F S N R C V D	D V N Y N R D T T L G A L V R	L Y D C N G G T A
UniRef90_K9IYY9	G R L Y H L Q T G K C L V A Q G R P S Q K Q G G L	V V L K A C D S D P N	N
UniRef90_A0A0177981	P K F S G K L H N T G V G F C A D Y R S R G G V S E G P V	E L S P C T D A T N	C
UniRef90_A0A036E9615	G Y Y R L V I N S H S G K A L L D A A D C G T A D G T D V	R Q W A W L D N A C	N
UniRef90_B5HSM9	G T V Y R I V N R K S G K V V D F V N F G T A N G T N I	Q Q W P W L N N T A	N
UniRef90_M0FWA8	G G E Y R I V N E N S N R A L D V P D G T T D G A S L	Q Q W P W Y T G A P	N
UniRef90_D5WM0	R I K G Q G T G K C L D L R S G T A A A G Q P V	Q Q L Y A C N A T T A	N
UniRef90_UPI00036CD2C3	F G R I H N K A P E K C C V D V S G A G T S E G S R I H L	W S C H D G P N	N
UniRef90_L8WRL4	N Y Y S I V S L H S G F C L D V A D W G T E D G V N V L	Q Q W D N K L T A N	N
UniRef90_R7FF4	P V Q R G R L R H L Q T G K C L V A H N D P S E K G G L	V V V R P C D S G D E	N
UniRef90_D7B406	G V P F T L Q S R N S N L Y L D V V G Q M D A D G A S A V	Q Q S S T G G P H	N
UniRef90_K0KE38	G G V Y Q L A V T K S G M C I D V T A G S K D N G A L L	Q Q W G C T S G A T	N
UniRef90_G1WG92	G S G E I R S Q H S A F C L D N S S V W G N G A N V I	Q Q W P N T G A T N	N
UniRef90_I0BTM1	G G F F R L I R A S H H S G K V A D V L N L S T A D G A D V I	Q Q W P N T G A T N	N
UniRef90_A7A7C2	P P T G Y Y N I I I S R N S N K G L L D V A D N S T T S G G R I	Q Q Y D I T G G N N	N
UniRef90_A7A7C2	G Y V T L I S V N S G K V L D V Y G A S T A N G A N V	Q Q Y V S S N N T Y A	N
UniRef90_R5J100	G Y V T L I S V N S G K V L D V Y G A S T A N G A N V	Q Q Y V S S N N T Y A	N
UniRef90_D5WMI0	G Y Y T L I N S A D E E K I V T V N S N L T F N G I E A D	L R T D F D I N S	N
UniRef90_UPI000378D540	Y Q F V V N V N S N L C L D I F G V S T D A G A G A D Q W T	C N G Q A N	N
UniRef90_D8HPU1	G S N A G K C L D A E N R D G A P V K L A D C	C Q Q S T S	N
UniRef90_W2VHH0	G S T Y R I R N V N S G L Y L Q V A G A A A Q S G A N V	Q Q W G T D G T S V	N
UniRef90_M3EIW9	G N D G E I R S R F H N K C L E V L G L D P A N G A R V	G L W D C W G G A N	N
UniRef90_A4FJK6	G Y Y R I R S V S S Q K G L D L K D G F L A G A K I	Q Q W D Y S S A N N	N
UniRef90_X8GTE4	Y S L V A A H S G K S A D I S G A S T A A G A T L	C S G G E N	N
UniRef90_UPI0003B31A5D	G I N K N L V L D V T N G S T V N G A R I Q L J Y G S N G T D A	N	
UniRef90_UPI000476B3CB	A Y Y R L V S V R S G K V L D V D G Y S T A D G T R I	Q Q W T D Q N T S N	N
UniRef90_UPI00037F8218	V G T Y R I I V V E S N G R V L D V L N A S T D D G A T V	V Q F P W H G G S H	N
UniRef90_G8TE58	G Y Y R I I I S A L S N K V L D L A E R K T A N G T N V	Q Q W A Y S E N A H	N
UniRef90_W7TF43	P N G W Y G I I A R S S G R S L D V R G G S Q E A G A A I	V Q W E F T H P A S	N
UniRef90_UPI000288F4F9	Y W T I L K P A H S G R A L E V A G A A T T N N G A N I	Q Q W A Y S E N A H	N
UniRef90_E6MGX3	P S A P G R T L V V A A S G K C L A A G G K C L E A A G G G K A N G T V V	Q M Y T C N N T A A	N
UniRef90_A0A022MI73	S G Y Y R I I I N H N S G K D M V V Q S A S T S D G A A I	I Q Y T Y G G S A T	N
UniRef90_B4V8E0	T Q W V R I Q N K H H S S K L L A V Q N Q S T A N S A E V	T Q Y A D N G T P D	N
UniRef90_I0H4T3	P Y T F Y R I R T F C L G K M F D V S Q G S H A N S A T V	T Q Y A D N G T P D	N
UniRef90_UPI00047C5C35	P E P P Y H R V Q N K N S G K V L A V D R M S L A D G G R V	H Q F D N S G T S D	N
UniRef90_D9W4W0	P A T D T G D G V H P N D A G I V K L A N N W Y A P L T Q F L S N P G G G G D E	N	
UniRef90_U2U7A1	T G Y V I F T N L G S D K V L D V Y G G I I Q N G G N V Q L Y D Y N G S Y A	N	
UniRef90_S9NYA0	P Y G R G D V K N L I G T L S C L D T L A Q N N Q Q G K P G L Y P C H K M G T N	N	
UniRef90_C3IB67	P N G Y K S I V N A K S G K V A G I L E G S T T D G A K A V L W T E N N S N D	N	
UniRef90_UPI00036CAF3A	L G T G K V V L T A T A G N G V V G N D V N G E K Q N W A W A	N	
UniRef90_S9NXR7	A S G E I L S K A K P M C I D S A V D N R N Y H K P V N M W P C H N G G N	N	
UniRef90_UPI000402DD8	W Y R L R N K H S G K V L A V D G M S H A D S A R V V Q F A D S G T A D	N	
UniRef90_R7FIX5	P S G F T N L Q A K H S G K C I D L T N G A M T N G S Q Y Q Q W N C S T S N S	N	
UniRef90_E1SVP1	G T Y T I I T A L H H S S K V L L D V K D A S K R N L T K V Q Q Y T S N G T D A	N	
UniRef90_B3RR09	G T Y T I I T A L H H S S K V L L D V K D A S K R N L T K V Q Q Y T S N G T D A	N	
UniRef90_UPI00037063F7	A A H N H L L N R N S G K C A D V W Y L S T A D D A S V N S G N C N S G A N	N	
UniRef90_M3Y546	T D T Y S V V N H S S G K C L D I S A V S T A N G A A V Q Q W T C H G G T N	N	
UniRef90_M2PWT0	P G F F G M L Q N K G N D Y C F D Y P N E H Q T G H Q V I L Y H C H G G Q N	N	
UniRef90_D9VBY1	S G Y Y E I R P L N S Q K C L D V I E G E G H D Q G A P A M Q W S C W G G A K	N	
UniRef90_J7W0W0	G K L P A N S M C L D T M G K T A N A Y M S Q P C A N S W T	N	
UniRef90_E0RC68	P G F F G M L Q N K G K D Y C F D Y P N E N Q M G H Q V L L Y L C H G G Q N	N	
UniRef90_F3ZIS5	P Y P A G R I T G V T G K C V D V D H S Q I A N G T A V R L W N C N G T G A	N	
UniRef90_UPI0003787532	G T I R H Q D K C L D A K D A G T T N G T P L Q I V V C H N H P A	N	
UniRef90_K1QC18	Y A V A N Q N S G K V M D V Y S S S K D D N A L V Q Y Y W H G G S S N	N	
UniRef90_I0H9J1	S G Y Y K I V N R N S G K L I G V I E S G I T T D G T V I E Q W S D G G W S S	N	

50                    60                    70                    80

UniRef90_UPI0003698DA0	Q Q W Q F Q P T S D G Y V R V N N R N D A S K A W D A A P V Q L W S Y S N G A N		
UniRef90_E2PXZ9	Q E W R I D P Y H F V S A A S G K R L D V A D T E N G A R I Q Q W R P N N F G A		
UniRef90_UPI000262F9EA	Q Q W R L K P A G D V N R N S G K V L G I N S T A Q G A A A E Q Q T D S S S P S		
UniRef90_UP100046E8150	Q Q W E L I S A D N E Q Y E L R N V L Q R R S I L N G G N I Q Q Q D H R N S T H		
UniRef90_E6UGI9	Q K W E G S S Y A L I N K N S G K A L D V E G R N D N A N V L Q W R Y T G A S N		
UniRef90_UP1000361DC3E	R V E A Q T V G P I T I S G M N L C A D V D S T T G G A S V I S W G C S G G A N D		
UniRef90_E8WGP1	H L W R L V A N G D G W Y R I R N Q V D L M S T A N S A H V V Q F D D N D T A D		
UniRef90_UP10004790358	Q R W T L A E D R T L R A L G L C L A P L D G T R R G S P L G M T D C T G A S A W		
UniRef90_UP100035D7610	W Y V L V N R H S G Q A L D V Y D T N D G A R I A Q W P R N D G Y W		
UniRef90_K4QUN3	Q H W K A H R N S D G N V A S G R A L E I V P G T A N G T P V Q I W D T T N G G A N		
UniRef90_C1D781	Q R F R R V G E E I R I D G K C L D V A G Q Q D G A R V I A Y T C N G G E N		
UniRef90_UP10003773509	Q R F A W T R Q G E M R V G D L C L D V G S T R Q G A R V I A W Q C R N Q P N		
UniRef90_W2EV25	Q T W T L T D Y K I V N R A S G L V L G I M N T G N G G T A L I W G D N G T A D		
UniRef90_F4GZR2	G G G L P T G T G T V K L A N S L C L D V P W T H D G N P I Q V V N C N G N A A		
UniRef90_L0J8L6	Q Q F T F E R Y R I V V R H S G Q V L D I E S M D D G A P L I Q Y D W K G G D N		
UniRef90_A0A038GTN0	Q T F S L T P Q G A G Y A H S G L C L D V T A S S T T Q G N Q L T Q Q V C N G S A T		
UniRef90_S9P6K0	Q Q W T L Q P T Q I V S R A H S G K A L D V V I S T A D G A P V Q Q W T W S N G S N		
UniRef90_G9I461	Q Q W I F D N G L I K L K S G D L C L D V V G G G K C G T D I I A W T P H G Q S N G		
UniRef90_T1WA79	Q H W L G S V Y G H T L S T L G R C L D V V N G T A N G T H V E L Y D C N G A G G		
UniRef90_I0HA72	Q Q W E G T Y Y E I R N R N T G T C L D D F S T A A N A D V G L Y T C N G S T A S		
UniRef90_K9IYY9	Q V W I Y N E H E L V L S N L C L D D M S E T R S S D P P R L M K C H G G G S		
UniRef90_UP10003C26046	Q D F E Y S S M K E I R S G S A P Q L C F D I R H D T V I F Q N C T E G A E N N		
UniRef90_UP100036E9615	Q Q W Q L T P T T D G N R S S S G K V L D V C G T A S G T N V R L W S S L G N T C		
UniRef90_B5HSM9	Q K W T F A S T G D G N V N S G K L M E V A G R V D G G N V A Y A D N N V P Q		
UniRef90_M0FWA8	Q K W N I D N G D G T Y R I K N E V Y N A G T A D G D D V V Q W P W N G G D N		
UniRef90_UP10002DAB961	Q N W R F P D R G T L V V H D D W C L R P A G N T A G S A L Q I Q K C D G S A A		
UniRef90_UP100036BF961	Q V W L R G T S N S F R I Y M A L L D I K D P F W G N G M R A H W T F H G G K S		
UniRef90_I0X995	Q L W K F G Y Y K I I N K H S G K V L D V S S T E D G A N V Q Q W T W N G T D A		
UniRef90_S4RAU6	Q V W V Y N E G Q E L Q O L A N L C L D M P E M E P R A S P R L M K C H G G G S		
UniRef90_UP10003790FA6	Q S W Q F V N G T V R G A G G C L D V Q S T A N G T P I I W T C H G R A N		
UniRef90_A0A017T981	Q H W L L S P G G D V N E H S G L S L E A S G S S V V G A S V V Q N A A S G S D T		
UniRef90_UP10003679F83	W Q Q F K T Q Y Q L V N V S S G R C L D V P P G T S G V Q L Q Q W G C A A Q T N		
UniRef90_C5BPF4	Q K F S I N G D G S I R T M M S S Q V L D V T N G V D G G N I Q G W S D L N N T V		
UniRef90_I0BTM1	Q Q W S F I S T N I K N R N S G K L L D V E N N G T A N G L K V V Q Q R T F S N S N E		
UniRef90_A5FIN0	Q R W R F V S D G A G N Y Y M Y L A V E E N N G T A N G L K V V Q L Y S A N G T N A		
UniRef90_A7A7C2	Q K W I A I K N S D G S Y T F N K V L D V S G T A N G A N V Q L Y S A N G T N A		
UniRef90_R5J100	Q K W Y I E Y L Q D G Y Y V D N Y V L D V K G T T N G T K V V Q L Y T S N K S N A		
UniRef90_D5WMW0	Q S F K L I P Q G I V A S Q S N L C L A V A S T A Q G S Q I T Q Q P C S G G P		
UniRef90_UP100036CD2C3	Q D Q K W T W S G Q T L Q T L G K C L D I A G G V V N G T K L Q L A T C N G G G Y		
UniRef90_L8WRL4	Q K W S F G S K S H V K L H G N K C L D V K D G V D G T K L Q I W T C N S S Q N		
UniRef90_R7FF4	H D I W K C S A G E G Y Y Y L A S V V V G D G G T Y N G T N L D I Y P Y N G G S N		
UniRef90_D7B406	Q Q W T E G S D G T F R A F N K C L D V V A G T A A G T P V Q L W T C N G T G A		
UniRef90_K0KE38	Q K W Y V A N N G E I R S M H H K C L E V F D P A N G A R V G G M W D C W G G S N		
UniRef90_G1WG92	Q K W V K N S D G T Y S V V S A S T G L A W D L S G S S L V C N P V S S S S S		
UniRef90_UP1000378D540	Q A W V R A A D G T L R L P S D Y C L T A D G T A N G A A V R V R D C A G T G T		
UniRef90_D8HPU1	Q Q F D F L A S A D G Y Y H S G L V L Q V A G S A S G A D I T Q Q P D T D T A T		
UniRef90_W2VHH0	Q C Y R F Q A Y R I V V N A N S G K V L D V S G G V I D G A V L Q Q Y G D N G T L A		
UniRef90_M3EIW9	Q Q W K L K P A G L V N R N S G K V L D V D S T A G S A A E Q Q T D N S S T S		
UniRef90_A4FJK6	Q Q F R L Q P L G D G Y V H S G K V L E V Q N T A N G A L V T Q R A W H G G D N		
UniRef90_X8GTE4	Q K F T L I D E M H S A V N D R K V A D L P G G E D G C N L Q I Y D G N G S R A Y		
UniRef90_UP10003B31A5D	Q Q W R F V P Y R I E A R H S G K C L T V D K P D E N A P L I Q R P W S G S F Y		
UniRef90_UP1000476B3CB	Q Q W F N G A Y A I V N V N S G K S L T V E V A G G N D G D N I Y Q N S D A A V S S		
UniRef90_UP100037F8218	Q Q W E V W G D D R G N V N S G K C L T E V N S T A N G A K I V Q L S T C S S A P A		
UniRef90_G8TE58	N D E W Q G Y Y R I V V N R N S G K V V E V A G T S N N A A V D Q Q A T W N G G E N		
UniRef90_W7TF43	Q H L W A I V P D R I V N R H S G K I L A V H N T D D G A H V Q Q Y V D N G T P D		
UniRef90_UP1000288F4F9	Q R W Q F T E G T A R A A G K C M T D V A G G E D R T E I Q L S T C T G S A S		
UniRef90_E6MGX3	Q S W L A V R M G E V Q A G M N L C L D V Q G G G S N G T N V R L W T A N T S A A		
UniRef90_A0A022MI73	Q D W W Y D P A G R T F H T Q D R C C L D V P G Y Q A G A A L I V W N C S G S A N		
UniRef90_B4V8E0	Q R W R F E T L S E G Y V H S S K C L D V Q G G G S D G A R I V Q S Q C D D G S A G		
UniRef90_I0H4T3	Q Q F R L Q A D S R L I N R A S G K A L E V W S T A D G A K V S Q Y Q D L D G A N		
UniRef90_UP100047C5C35	Q T W W Y D P T Y H T G L S H D R C L D S R D I A A P T A A I L W N C H G G T N		
UniRef90_D9W4W0	Q Q W D H T P A K E L R V N G N K C L T A D G A N Q G A K V T T T T C D G R A E		
UniRef90_U2U7A1	F V Q G N L Q F K N E L S D T V L D I T T N N V Y A S G T S V G M W L A H G G T N		
UniRef90_S9NYA0	Q Q R W L L E S T G D G F F H S G K C M D V A G A S M G T N V V Q H T C N G G D N		
UniRef90_C3IB67	Q Q N F L V F N L D D G Y S H S G K V L D L S Q S I Y W I I Q Y D F R N A D N		
UniRef90_UP100036CAF3A	H S W Q L L E R E I R N G H S G K V L A V D G T A N S A P V V V Q Y E D D G A P D		
UniRef90_S9NXR7	V I E N G T Y R I T P R D S P D K A L D V H G T A D D N T N V L Q W S Y G G A N N		
UniRef90_U2PA73	Q Q K W I V I S T D K L D S N Y V L D L S S G S A Q N G K N I Q I Y Q S N N S N A		
UniRef90_T2M9T8	Q Q Y F I F T K K F E I W V H D G L C L D L S D S D L N A K V K L W P C H K G G N		
UniRef90_W4DC43	Q Q W T L Q A S G I V N R N S G Q T L G I G S T E E G A Q V V M Q Q A D A G S T D		
UniRef90_UP100036A5189	A S P T D P A S G M L T S W R S T S G C L T A S A E S A P T L V R T C S K D D A		
UniRef90_K1QC18	Q F W M L S K N G E I R R D D G C L D Y S G E S V I V Y P C H G Q G N		
UniRef90_I0H9J1	W Y V F V N R H S G K A M D V Y N T T A G A G I A Q F T R N D G N W		
UniRef90_F3ZIS5	H L W E L V P E G D G W Y R V R N R V D L M S T A D S A H V V Q F A D N G T D D		
UniRef90_UP10003787532	N Q R F N N E Y Q I Q S Q Q S N L C L E L K D G N D G A V I H Q W V C N S N N N		
UniRef90_R7FIX5	Q K W N D N T Y S I M S K S N G L F L D I E S G K A G A N I Q T Y H F N G T N A		
UniRef90_R7FIX5	Q K W N D N T Y S I M S K S N G L F L D I E S G K A G A N I Q T Y H F N G T N A		
UniRef90_C9Z035	Q Q W V S T P V G R V N V N S G K C L Q V S G T A D G A A I V V Q S T C T G A P H		
UniRef90_L7F1D1	Q R F N S H D Y Q L V A V N S G K C L D V S N T A T G A L V H Q W T C D P G S N		
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UniRef90_UP100036F27D	V S T T V A S Q N S G Q C L D T G T A N G T Q Y Q Y C E G G Y Q		
UniRef90_UP10004402DD8	Q F F E Y T S Q N E L R Y N T H Q P E G C V A V E A G T D V L L I M H C E G A T D		
UniRef90_E1SVP1	D Q R W F Y D Q F Q N K K A N R A L C L D N R G Q Y D G G E V V V W E C V D S D N		
UniRef90_UP1000363686C	Q H W R L A D V G N G Y Y E I R K C L D I A G E G H G A R A M I W D C W G G A K		
UniRef90_B3RR09	M E M S Y S I L E E L V V S E L C L D V S D N K D G A R I Q L Y D C H G G G N		
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UniRef90_M3Y546	Q F F E Y T S Q K E I R Y N T H Q C I A V E A G T D I L T M H L C Q D T V P E N		
UniRef90_M2PWT0	Q T W A V Q N G T L R S L L G K C L D V D V N S G T A D G T K T Q L W D C N K T G A P		
UniRef90_D9VBY1	Q Q F L P R A D G S L N P V S G R C L D V A S N M E T G T Q L Y W D C N A T N P		
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90                    100                    110                    120

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UniRef90_UPI00046E8150	Q K W Q L Y D Q Y N I I N V R S N K A L D V E D W N T I D G G N I Q Q W S Y A G		
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UniRef90_UPI000361DC3E	Q Q W R P V P T G H F V N Q N S G L C M D V T G E S L N A G A A I I Q W A C N G		
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UniRef90_U1XX10	G G L Y T L Q N L R S G K Y L D I P A A K A V E G A Q V Q Q Y T E N S T K A			
UniRef90_K4R4S1	G Y Y R L L N R N S G K V L L D D F G W S K K A G S A I V Q W K D L N A A N			
UniRef90_A8NHW7	L R V S G T P Y C L D A G D P P F T N G K K V H L W C I H G □ P A			
UniRef90_R5UZ53	Y H F Q N V Y G S Q Y L E V D S G K A E N G A N V Q Q W G A D T F D G			
UniRef90_C6TZF6	P S R S G Y K L V V S A H D A L C A S A A G A S P G S R M V Q Q R C D E H A S			
UniRef90_G3NPZ2	G R L R N L A T G R C L V A Q G R P S Q K G G V V V L R P C D R D P E			
UniRef90_Q10472	G E I R N V E T N Q C L D N M A R K E N E K V G L F N C H G G G N			
UniRef90_W7S9S4	Y T I V N V N V N S G K L V L N V P G A T T Q G T Q L I Q Y H D D G N A N			
UniRef90_M2QM01	G W F R V K V N R N S G K V L V G D L M S T A N S A R V V Q F D D N G T A D			
UniRef90_B8A6C4	P A A W G E I R N A A S G L C V D S K H G S T G T E L R L D N C T W A H E			
UniRef90_B7T136	A H G R L V V Q K S R L C L D V A G G R G P H G N N V L I Y N C E K A A D			
UniRef90_UPI000318C161	P E G R Y I L I N K L S N K S L D V T G Y S Q Q A N S A N I I Q W N L G S G L N			
UniRef90_G9I456	G V I K S V N S G L A I D V K G G A K E G S P L I Q W D P H G G D N			
UniRef90_T1IE0	P G D A V R N L G Y G A K T C L D S P A R K S N L H K P V G L Y P C H R G G N			
UniRef90_L7ET12	S G R P L V V A A S G K C L S G G A G T E G V Q L F Q A T C D G S A T			
UniRef90_I3I488	G T Y S I R A V H S G K A L D L Y G W N T N D G A E V R Q W T Y T G A D N			
UniRef90_UPI00039CD7A7	A A N N H L L N R N S G K C A D V W F S T A D G A A V D S G N C N S G A N			
UniRef90_UPI0004632D7B	G S Y V L T N V N V N S G K V L L D V S S G Q A H N G A T V W Q Y D F N G T A A N			
UniRef90_A9FD15	T F T N Q N S G L N M D V Y Y S E T T P L S P I I Q W P A T G G P N			
UniRef90_C6D792	G S T Y K I I N R A S G K A L E V P G G Q N T N A L Q L Q Q Y T D N G A T A			
UniRef90_A7A6R6	G M V L D V A D G S R K D G A N V R L W S S N G T K A			
UniRef90_D6B669	G G V G T L Q N K A P G K C L D T E T E A A R N G N P V V V R I C S G K S N S			
UniRef90_UPI0003EA97D8	Y K L R N L L V D K C L V A Q G R P S Q K G G I V V V V R D C D S S D S			
UniRef90_UPI000309953D	P A Q S R G E I R Q G Q N R C I D V I A G G A N N N P S P L I L F P C T G G K N N			
UniRef90_S4XXT8	F K L M N R R S G K V M T V A G A S S E D G A A V V Q S A D D G G D N			
UniRef90_UPI0003C4C33F	P P R F S G K L Y N T G V G F C A D Y R S A W D A A G P L E L S P C S D S I □ N G V G S G R C L G L D G A G E R A I A E L A V C T G G P E			
UniRef90_F4F6E7				
UniRef90_H2JL0				
UniRef90_R7GV75	G Y Y Y V R S V G D G K Y L D I A Y G N P E D G A N I G W S D T K S D A			
UniRef90_W4QE17	G A T Y K L Q N R A S G K M I D V P G G Q N N N G Q L Q Q W A D N N A T A			
UniRef90_R7IVZ4	G Y Y H I L T G A S G K C V D V A G K K A T D G A N I L Q Y T Y K G S T N			
UniRef90_UPI0003943335	P A A A W G E I Q N V G S G M C M E V K H F V I S G S P I R L E N C G W S H G			
UniRef90_UPI000334749F	P R F S G K L H N T G L G F C A D C R A D G A P L G C A M E L A P C S D S R W			
UniRef90_B5HEY3				
UniRef90_E0S394	Q N Y W S A G G L G			
UniRef90_A0A023GK6W	G W Y Y I K N I N S Q M Y V E V A N A S D A N G A N V Q Q Y T G N G N A C			
UniRef90_A8NDT5	▀ A S G E V R N K G Q G S C L D S P A G R D N M H K P V G M Y P C H G G G N			
UniRef90_J3C7G2	P G S E G Y T I Q C V E T R V A D L A A G K P G N N V P I Y G W H S H G R N			
UniRef90_S2J334	P N G T Y K L V N R N T R G G K Y L D N L G A T T D G A N V A Q W A G G S S N N			
UniRef90_D6KDT8	P S G Y F Y I K S R N S G K V I D V D G A S T K N D G K I L I W H N D D R D N N			
UniRef90_I5ATA2	P E G W Y Y I R N V H A G K Y L Q V E C D L A E A G A N V L L C D S D R N S G			
UniRef90_E2PY62	G P I T G L G G K V I D A S G A T N G T K A I L Y R A T G K A N			
UniRef90_F7UZZ8	G T Y S I K S A G N D Q V I D V S S G Q L A N G A N I I Q T F E N N G T G A			
UniRef90_R5S437	Y Y I K N K F S G L Y L D I E N G S A Q D G A N I R Q W S Y N G S D A			
UniRef90_E0VK8	G D I K N V E T E Q C L D T M G R K S G E N V G M S Y C H G G G N			
UniRef90_R6U217	G T Y Y I K S A L S G K Y L D V Y K A K A D N G T N V Q Q Y R G T T G G N N			
UniRef90_E6UF16	Y T I K N L N S G L Y L S V K G S N A G N G V N V E Q A A A N G A Q N			
UniRef90_UPI0002E12E88	G A A Y Y I V N Q N S S M A I D L P N G K L G E G T N I Q Q W E Q N D S W A			
UniRef90_U1WP13	G N G F E F R S A L D G G K V L D L N G K V A N S S N I Q T Y H R N L T A A			
UniRef90_A0A044V9N1	S G G N Q I R N K G G G N C L D W T S R G K R R S A A L G Y W C H K G G N			
UniRef90_UPI0003F18EC1	G L F K S K A S D T C L D V I G G R D T P G A K V A L W T E H G Q F R			
UniRef90_K9HNX3	N G N T A K C L D V Q G A V L A N G T P V Q I F D C N Q T P A			
UniRef90_Q9KGY6				
UniRef90_F6PWL5	P A A A W G E I R N V G T Q C I G T K H G S L G S A L R L E S C A W G N L			
UniRef90_T1EDJ9	C A D V V G E R G A R V K L M D C H E G N Q			
UniRef90_D2B5E9	Q L R N G A T G D C L D V D G N S S R N G R K L L G W A C E G T R N			
UniRef90_Q59139	P Q F S G K L H N T G L G F C A D C G A D G A L P G C G L T L A P C S D S R S			
UniRef90_UPI0003318E9E	R Q G D F C L D T M G N L A D G T V G L F Q C H N T G G N			
UniRef90_UPI0003C3A3A5	S T G L Q L F N V N S G K L L E I P G A Q T A D G V R A Q W G P T G N A T			
UniRef90_UPI000468904C				

50            60            70            80

UniRef90_I3CEQ2	Q Q W R L E G G R L V N A G G K C L D V G G D F N G T N V Q W D C I N D A P N
UniRef90_UPI00034B311C	Q R W R F V P Y E I E A I G A N K L L E I P T G P D G P G A S L L L T R T G Q P N
UniRef90_UPI0003F07EA8	Q Q H L H H I S R K Q I H F G S P Q H L C F D V S G E L V T L Q N C T E G G R
UniRef90_C5APK1	F V P A A G G Y Q I R S R G T T G Q C L A V E N G S N G A R L V Q Q G C S G A A N
UniRef90_UPI0003774D36	Q F W A F D P G A L R N T V T G K C L H L P G F D N S R D A V Q S T C N G S S A
UniRef90_W6EZD7	Q Q F R L L Q K V R L S V Y S G K Y L D V N G S G D G A G I D V W N S W G G A N
UniRef90_K4RC93	Q N W T L T R W T I R N Q N S L K C I A I P S T A N G T Q A I Q W T C D S N T D
UniRef90_R6CYE4	Q K W F V N Y L G N G Y Y S I K P Y L S L D Y S L D G T N V Q L Y K Y N G S N A
UniRef90_A0A031GG82	Q Q W R F A S Q T I S N R Y S N L T L D V L I N T A E N A Q I I Q W N L T N A N N
UniRef90_UPI00037A1048	Q R W A L V G D G S Y V S F W N Q G I D G A S T A A G A V A I I Q A N G S G D A N
UniRef90_D9S293	Q W W T F A S D G S V R V E G G L C L D V A W G R D G V P V Q T A W C S G N P A
UniRef90_R6B6K3	Q K F K F T P T G T K T I N D G K V V D I G G T Q D G T N I G V W E N S S T A N
UniRef90_D6M543	Q P P A Q D F S R P L G A I V G R Y E G F Q G H C A G G A L K L Y P C D G G A D
UniRef90_G8NY97	Q W E F H N G T A S G Y Y Y V T W N V T G N G T T N G S L I Q T W T Y A G N P N
UniRef90_V6KE39	Q Q W R D G S Y T L T N L A S G R V L E E P G T G N G T R M E V W D S G G G A N
UniRef90_G8NPA5	Q Q W Q V T A L G L T N V Q S G Q A L D V D S T T P G G Q L D Q F P Y K G S A W
UniRef90_D7B0Z2	Q Q W R F I P Y E I E G V G Q S G K L L E I P A D P A A Q P A L L T R T G S P N
UniRef90_F2R377	Q S W R W H N Y R L V N V E S G K C L E I F S R A D G A R A Q Q W T C A N A G S
UniRef90_M3C8A5	G R C M D D P G T T N G T Q V A L W D C N G G A N
UniRef90_N0D1T5	Q Q F R F T D G G F T R I A A R K A V D V T G T A D N A P L Q L W T Y S S G G T N
UniRef90_E3ENH5	Q R W F I R D S G A G Y Y N W V L D L S G G N T A N G A A I R L Y A P N G T A S
UniRef90_U3SVC9	Q Q W I I K E F E I V S K N K N M L L D V A G G K A G T N V Q L Y V R N G S L A
UniRef90_C6AQY6	Q Q F H G G R H L I I N Y S S G K S L D I T G G S D G A N A I Q W R T T G G E N
UniRef90_X5PZ5	N M Q T G K C L A V A E G R N N A P A V Q Q F N C D G D Q W
UniRef90_G1W172	Q R W R V T H D T F I N V A S G L A L D V Q W G N S G T P V Q Q Y A P N G S W S
UniRef90_U3P599	Q K W T T T P E G E L R T R M A D D V C A T V Q E N G N V A G Y R C T G G T N
UniRef90_UPI00034B2108	Q L W Q I N E V S F I N V N S Q K A L D L Y D S T D G A N I S Q W S Y L G H D A
UniRef90_Q8RTY5	Q K W Y F P D P K G S I K L A G D A G L C L H N T Q D H S Q L A L A P C D S N P A
UniRef90_E9SE25	Q K W Y F E T Y T F K N V N S G L Y L S V E G A N N G S N V E Q S S A N G A Q T
UniRef90_E8X7S4	Q I W Q L Y P Y G N V S L N S Q K C D L P N G N N G T V L Q Q W S C G S N S N
UniRef90_UPI00028941D7	Q Q F K K S S D G Y L R L V N R F S G M A V G V V D D G G N V V Q N R D G S G A D
UniRef90_B5I3U6	Q Q W R F L D S G G G Y Y H S G K V L D N W S T T A G S N L V Q W S D Q N A A N
UniRef90_U1XX10	Q Q W E I V P D G Y F V L R A Y L N G N L V L D T K E G I L K L G F A D G D A T
UniRef90_K4R4S1	Q Q F K K S S Q N G H V R L V N R F S G M A V A V R N G G G V V Q D R D R G G A S
UniRef90_A8NHW7	Q I W R Y D Y T G R W Y L D S G Y C L D L T D G D N G N Q L Q I W E C N D G P N
UniRef90_R5UZ53	H N S W K I A A G D G Y Y Y R S C V G D G K T Y D G T N I G I W E N T H S D A G
UniRef90_C6TZF6	Q T L Y V S A P P E L V I G M N G G L C I D G G A A G A Q A V Q R T C D D A P O G
UniRef90_G3NPZ2	Q E W A Y D E E S Q L V L A G L L C L D V S E V R T F D P P R L M K C H G G G S
UniRef90_Q10472	Q V F S Y T A N K E I R T D D L C L D V S K L N G P V I T M L K C H H L K G N N
UniRef90_W7S9S4	S R W R L V D A G P N R V G G L N L D A Y N N S D G A A I I Q W S A N P G A N
UniRef90_M2QM01	H L W R F L D N G D G N L N S G K V L D L M S T A D S A I V V Q F D D N G T A D
UniRef90_B8A6C4	Q I F T F G W R E D I R P G H T R K F C F D A I S Q N S P I T L Y D C H G K G N
UniRef90_B7T136	Q F F S F Y E N G E L N E K S R L C L D V S G I L D G S G N V I M Y D C E G T Y D
UniRef90_UPI000318C161	Q R W D L Q Q V N D D I Y H S G K S L D A N N Q A S G A N V T Q Y T T H G N I N
UniRef90_G9I456	Q Q W L I W D N G L I K L R S G S L A I D V K G G G N Q G A E I V A W K P H G N A N
UniRef90_T1IEI0	Q I R N D A S G Q C I D C K P E D L H K P V G L W P C H K G G N
UniRef90_L7ET12	Q R W Q I G S D G T V R S S G K C M T A A G T D S R T E V Q L T G C D G R A S
UniRef90_I3I488	Q R W Y I N D T G N N Y Y S I G R A M D V W N M Y A G A E V V N M F S Y W G G A G
UniRef90_UPI00039CD7A7	Q Q W V P T A L G S V N V N S G K C L Q I A G T A D G A M A A Q S T C T G V P E
UniRef90_UPI0004632D7B	Q R W Y L R D A G N A Y Y N W V L N V T V G S F A D G S T I V L S S P D G S D C
UniRef90_A9FD15	Q S F E L I P T G D K P K H S G L C F D I P Y S E D G V G L I Q Y T C T G N P N
UniRef90_C6D792	Q Q W V I T D Q G T Y N N Y N K V M D V R R N G N N G E A I Q L M S D Y N N T A
UniRef90_A7A6R6	Q Q W T V S H D S K G N V N S G K A L D V K D G K N G S N V H Q Y A P N S Y R S
UniRef90_D6B669	Q K W V V E G G G S R N L A T Q K C L D V Q N N N N G T P L A I W T C N E S P A
UniRef90_UPI0003EA97D8	Q E W T Y D E D H E L I L A G L L C C L D M S E I R S S D P P R L M K C H G G G S
UniRef90_UPI000309953D	Q K W S F L S N G T I R G Q G N R C I D V A G G E N S S P L I L F P C T G G N N
UniRef90_S4XXT8	Q K W S L N Y N G L T N V K S G K V D V P D K S D G I A L K Q W T D H D G D N
UniRef90_UPI0003C4C33F	Q H F E Y N S M K E I R F G S T L Q F C F D V R H E K A V I L Q N C T E N S P
UniRef90_F4F6E7	Q R W I V S R Y G L A N A A Y H Q C D V E G G D D G A R L L Q Y G C H G E V N
UniRef90_H2JL0	H N Y T V V Y W N T G G P R S V R L A N A A M S T A D G G R A L L W S D S G T A D S
UniRef90_R7GV75	Q L F K F V K N A D G S Y T D D S C L G V N S T E L G A N V L Q W S C N E T D S
UniRef90_W4QE17	Q Q W L I I D D M G T Y N N F Y R K V M D V R N G H N G E A I Q L M S D F G N S A
UniRef90_R7IVZ4	Q Q Y K I E L Q S D G T Y A S G L D V Y A W S T E S G G N I I N Q W N Y W G G Q C
UniRef90_UPI0003943335	Q V L T F G W R E D I R V M H T R K L C F D A V S H S S P V T L Y D C H G K G N
UniRef90_UPI000334749F	Q Q H L E H A G R K Q I H F G G T Q G L C F D V Q Q E Q V I L Q N C T K E G Q
UniRef90_B5HEY3	W I G D S P V V I E L R G T T G K C L D V E G T A N G T P V Q V Y T C N G S A A
UniRef90_E0S394	Q K W Y V T N L G S N Y I A G G R M L D V N G G S N G T N I Q I W P A N G K D S
UniRef90_A0A023GK6W	Q Y W M L S K E G E I R R D E A C L D Y A G S D V V L I Y P C H G S G N
UniRef90_A8NDT5	Q Q W E I E P H R I R N I Q G G S V V D A Y L N D P E K K A G W T W H G G D N
UniRef90_J3C7G2	Q R W V I T Y S G G Y Y V T G G K Y L D I A H T A D G S T V G Q W T G G T S T N
UniRef90_S2J334	Q L W Y Y Q D G F V V N K C S G K A L D V R G G P L V D D A W I C Q Y D D A Q N
UniRef90_D6KDT8	Q T W R F T R Q G D G N A E S G L C A D V S G T A P G A E V I V I Q W T C T G G A N
UniRef90_I5ATA2	Q E W Y V V S H G E D G T I T F N L D I A Y G K D E D G A N V G I Y H A Y G G E A
UniRef90_E2PY62	Q A W V L G A D G A V H L M K G L C L T V A N T A A G S P V Q V S T C D G G G T G
UniRef90_F7UZZ8	Q K W N I T S I G D V N A K S G K A L D V K S A N A G A N I Q Q H V W N N T A A
UniRef90_R5S437	Q K F K F V S T G D G Y Y Y Y K K C V D V D G G K D G T N I M Q W S Y W G G E M
UniRef90_E0VK88	Q V F S Y T K R H Q I T A D D N C L D A A S V R G P V K L V R C H G G G N
UniRef90_R6U217	Q K F K L V S D G N G Y Y N Y K S C L D V W S R D N G A N I N Q W Q Y H G G D C
UniRef90_E6UF16	K F K A V A I A G D G Y F Y L V S Q L G D G N S T E D G T N I E I Y T F N K G E N
UniRef90_UPI0002E12E88	Q Q W R D S D Y C R I V S I G D E S M C I N S S A D G V N I E L Q K Y S G T D N
UniRef90_U1WP13	Q G W T L T K T S T V S P M L R L A V K G A S S A N A A N V V M A T D N N Q V S
UniRef90_A0A044V9N1	Q F W M L S K D G E I R R D D S C I D Y A G T D V M V Y P C H G K G N
UniRef90_UPI0003F18EC1	Q K W R L I N K N G T I S S Y D H L V L D V K G G C D K T H V I Q P L E G E E T
UniRef90_K9HNX3	Q Q W V I A P G Q G Q V Q L A N T T F C L D S P A S G T G M K L W E C F D N P A
UniRef90_Q9KGY6	Y R V T P K H S A K S L D V C A N S N G A N I S Q W S W L N N D C
UniRef90_F6PWL5	Q V F T F S W R E D I R P Q H T K K F C D S I S H S S P V T L F D C H G K G N
UniRef90_T1EDJ9	L W N Y N R D T K Q L K H A S G W C L D V G G M K M N D N I K L N D C S A A G S
UniRef90_D2B5E9	Q A F W Y D P T R H T E L S H D R C A D I D G G R A G T A I Q V W D C N G S A A
UniRef90_Q59139	L G I T V W G V R D T D S W R S D Q T P L F D G N G N K V L N A L N G G G T S
UniRef90_UPI0003318E9E	Q R L E H T G R K E I R V A Q R L C L D V Q Q E R V I L E N C T E G S R
UniRef90_UPI0003C3A3A5	Q E W A Y T K R Q Q I K H D D L C L T L V Q F S R G S Q V I M K L C C D D S E N
UniRef90_UPI000468904C	Q V W S P T Y W T L T N A N S G K P L E I A G T A D G A Y A Q Q R T A D G T S T

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UniRef90_UPI0003F07EA8	Q H W D V Q E N G M I V H I L S G R C M E A V V Q E N N R H L Y L H Q C D G			
UniRef90_C5APK1	A L F R L R K W T E V V A N H S N R C L S P T G A N D N S G S A I V Q W D C D G			
UniRef90_UPI0003774D36	Q T F R V V P K T H			
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UniRef90_K4RC93	Q V F I K D S W G R L R N L N S D K C L A V P N S S T A N G T E I I I Q W T C S E			
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UniRef90_V6KE39	Q H W R A D R N Y T L T N V A S G R A L E P S G Q T A N G T P V Q I W D S G G			
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UniRef90_D7B0Z2	Q H W S L I E V G P L V N R A T G Q A L E A Q G G A P D N G T R V A Q A P D G G			
UniRef90_F2R377	Q I W D F H R R T I F Y N F H S G K A L E I A D G S R A N G A R A Q Q W A			
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UniRef90_UPI00034B2108	Q Q W Q L I K Q A D V H S A P W D P S T T N G			
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UniRef90_M2QM01	H L W R L L D			
UniRef90_B8A6C4	Q H W S Y R K D K S L Y H L V S S G C M D C S P N D K R I F M N K C D P			
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1                    10                    20                    30                    40

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UniRef90_F3ZEG2	R I V S K Q T K D V V D V I L S G S E N G A Q I H L W E D V G A D N
UniRef90_B0PHT4	A G T Y T L T N R N S D L V L D T A D G G T T P G T P V V Q A E A D G G P T
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UniRef90K5WW42	G V A G H I E V E G T G F C L D A G S S P A N G V G M K I W Q C F D N A Q
UniRef90G5JTS9	G F Y K L V H K A T G K A L D V N A G S T K N G T N V Q L W E S N G T E A
UniRef90C9Z3D2	G N T V R L V N A S S G L L G I Q N M S T S N G G R A L Q W T D N G T A D
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UniRef90W6TYJ6	D T G A I L L N R Q T N T V G D Q Q G G L A A L V Q G E Q N G A S P
UniRef90H3ATT4	P G F F G M L R N R G E N Y C F D Y P D E H H I T G Y K I L I Y S C H G G Q N
UniRef90P33183	M C L Q S N G E N N G V W M E D C E A T S L Q Q
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UniRef90D9SQS6	G T A Y R L T N T N S G K V L L D A V N C G T G N G T S V D L W S S L G N T C
UniRef90B5I624	M M K V A S S G L C A N V A N Q S R N Y D S G I I Q W D C D G A P N
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UniRef90D9T0A5	A S A G E L R G H A S N L C L D V K G G D Q P N G T S I V F P C N G G D N
UniRef90S1TAQ7	Y L K V N K N S G K Y L D I P N G S T T A G T A A N Q W Q N T N C T C
UniRef90D2B257	U P L G T G Q L V N K N S G K Y L D I P N G S T T A G T A A N Q W Q N T N C T C
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UniRef90F2ZBT4	G H I K H L D S G L C L I S Q N G P N E K G S L V V V S E C S E D K N
UniRef90E9SGA5	T G T I R G Q N G L C L D L N G A V T V D F N H V Q V F D C N N T G A
UniRef90C3YBV8	V V N Q S G G N C L E L P P G G S S A G G T Q I L R A S A C A G G A N
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UniRef90E2A417	P V R T G S V T V T E S V H A V D V A R C L D A R V A A V Q V W G C N G T A A
UniRef90UPI00045723B0	G Y Y T F M N P Q S G G K Y L E I K A A A T A N G T R V N L Y Q G N G T D A S
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UniRef90L9KUH6	G T I G H Y K N S Y S G L C L C L D A R G S A V N G T P V Q Q W V C N G L S N
UniRef90UPI00037F373A	P V I R T G S V T V T E S V H A V D V A R C L D A R V A A V Q V W G C N G T A A
UniRef90B7GB18	G Y Y T F M N P Q S G G K Y L E I K A A A T A N G T R V N L Y Q G N G T D A S
UniRef90UPI000367D73B	U N I N S G R C L C L A V S E R S K D A G A N V A Q G V K P E T A S
UniRef90G1NRH7	P G W H G A V R S V G S S E C L C L D V L P E H N P T G A H L S L F G C H G G G N
UniRef90C6WPF3	A G T Y T V T N G G S G L C L G S P G A A A D A Q L Q L Q A C T G A D G
UniRef90V9KXE2	P I K A G A I K N K G T G S C L D V G E Q N H G G K P L I L Y P C H G G G N
UniRef90B5HYX1	G Y Y K L V C V R S G K A L D D N N S T D S G V M V Q K T D N G S R Q
UniRef90B5HSM8	P A P G Y Q V I G Y S G D N F T G T A W T F T A D N P D L R V T G N N D Q R V
UniRef90L8DMP2	A G F C L D N K G G Y T Q G Q N N P V Q I W D C N G T G A
UniRef90F6QF07	P S V Y I R I K N R A Q G E Y L L T V T G N L A D M R T T L C S P Y N G K N T
UniRef90R6NES7	G D D V R L R N V A A D L C L D V R G E P G A G V G T R L A Q C S G A W T
UniRef90UPI0002F88B10	P V I S G Y I K S V G Q P L C L D V G E N N Q G G K P L I M Y T C H G G G N
UniRef90E7EUL0	T G E L E S R L I N G Y R I D V S G G S A Y N S A S I I N Y P E N N A V N
UniRef90C3Y894	G Y F Y L V S Q G N S Y A L D V N G R K T E D G T N I E I Y T F N K G E N
UniRef90E6UF15	P T F Y G A I K N L G I S Q C L D V G E N N R G G K P L I M Y S C H G G G N
UniRef90UPI00046B53EB	G E I R C M G Q N K C C L D F A S G R K E H N K P I S M Y P C H G G G N
UniRef90E5S8J4	P D G W Y M I V S G N D D W V L D V N G W H G E N G T N V E L Y H R N N T T N
UniRef90UPI0004233412	K L V N V G T G L V L G V Q N M S T A D G G L A V V W G D T G T A D
UniRef90UPI0003B4FDE3	G D I R N V E T K N C L D T M G R K S G E N L G M Y C H N L G G G N
UniRef90R4LHZ2	G E I R N V E T N Q C L D N M G R K E N E K V G I F N C H G G G N
UniRef90D6WVN2	T A N G A T V N L A P F Q D A Q G
UniRef90H0XIM8	G E I R N V E T N Q C L D N M G R K E N E K V G I F N C H G G G N
UniRef90C4RGY2	T G F Y I I T N T K S G K V L D I E S A K V A N S T N V R Q Y D S N N T L A
UniRef90F7V004	S F W D E A H N R N S G K C V N V R G G S D S A G A W I Q Q Y H C D N T P A
UniRef90UPI00036C4F83	P P L G T G Q L V N K N S G K Y L D I P A A S T A T N T A A D Q W R N S A C T C
UniRef90L7EVG3	D T Y K I K N V S S G K Y L T V R D N S T A N A A Q I V Q Y S N S I S D S
UniRef90TOMC16	P S G Y F K I F N V A S G K V L G V E N Q S P A D G A R I L Q W D D N G T L D
UniRef90B7T1S4	G E I R N A E T E T C L D T M G R K Y N E K V G L S Y C H G G G N
UniRef90L1L7I0	G Y G R V M N D A F G K C L D N L Q R N E D Q P Y N L G Q Y P C H A Q M S
UniRef90B4P5X0	G T I V N P R S S L V L G A A S G S S R T T L T V Q Q A Y S L G Q G W
UniRef90B5HRD3	G G N Q I A N M Q H G M C L D A K E K S E E E T P V S Y E C H G G G N
UniRef90A1UZA4	A V T G A L A G K Q S G K C L T A S A S G A V I T S C T G G S E
UniRef90J9JLD8	P V V A A T N V T A A N S N L C V S V N G G S T A A G A S I V Q G T C S N Q G A
UniRef90R7F631	G E I K N V D S Q S Q C L D T M S R K S G E K V G M S Y C H G G G N
UniRef90R7F631	Y T I R S V L P G R A I G I D A G S K E D G A N V N I W D Y Y G
UniRef90C7Q356	Y T I R S V L P G R A I G I D A G S K E D G A N V N I W D Y Y G
UniRef90W5JKD2	P D F A N G A Q S A A P A C V D T L N H G E K Q T I G L Y S C A E Q P N
UniRef90K5Y2V1	G G V Y T V A S G S S G K C V D V S G A A V G N A L L V Q V A C N G S A A D
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90                    100                    110                    120

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UniRef90_F3ZEG2	Q K W N V   P		
UniRef90_B0PHT4	Q Q W R I   V D P		
UniRef90_UPI00046784EF	Q   L W Q L V   P D P E G R N Y G T	G   L T   L G   V G D M S T E P G A P   V I Q W T D G	
UniRef90_UPI00035041EA	Q K W R L   N E D G T   I S S Y   S D Q V L D   I K G G N Y Y D K N H I V M M N P E E D		
UniRef90_UPI0003DOD968	E W H F R E D G T V Y H P H S G K   C L S A Y R T S G G R P D V Q M R T C N A		
UniRef90_UPI0002E003AF	Q T W R F T Q Q Y E I A N S E S G   C A D   V D G A S T T A G A R V I Q W T C N G		
UniRef90_H6CHL8	Q Q W Q   L K D A G K I V N R N S G K L I G   V E S G A T T D G A V I E Q W S D G G		
UniRef90_L1PHY8	Q K W A I   F S V Y M   L R N V G T G   L V V N   L R W G Q A R N G M A   D G Y   L A N G		
UniRef90_U5W1Q1	Q E W R   T P		
UniRef90_UPI000476FBDC	Q R W L   L N A N G Q   I L G E A S G K   C L D   V S G Q A T A D G S K   V I L Y S C N G		
UniRef90_F2U2H2	Q E W K   R S G K Q   I V H A A S K   L C L E A A V N G N D R K L I V N T C D N		
UniRef90_K5WW42	Q   V W   L E G P P G N H S N V D G S K   C M D   V E G A   F A N G T P V Q   I F D C N G		
UniRef90_G5JTS9	Q K F K F   D Y H   V S A L D E N M A L D   V E N E S K E D G A N   I Q   Y P		
UniRef90_C9Z3D2	H K W T   L L G Q G D I R N V N S G R   L A I A G N S T A V G A F A V Q D A D D G		
UniRef90_J0DEX7	Q H W H A R W   L G G F I G S G S G K F   L D P A G N T A L G T K L Q   W Q D T K		
UniRef90_W6TYJ6	Q Q F K V E D A G S G Y Y H   V S G S K   C L E   D S W S V A N G G Q A D L W D Y S G		
UniRef90_H3ATT4	Q K F V F K E D G S   F H P E T Q K   C L Q   A V A D A H N D S P A P   L R P C A D		
UniRef90_P33183	Q R W F F N S D G A I V N P K S R   H V M D V R A S N V S L R E   I I I F P A T G G		
UniRef90_UPI000371C983	Q R W L   F T R R Y T L K S Q   L S G   L L T T A A G   T D G A M V T Q Q P D T G		
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UniRef90_S1TAQ7	Q I   W F S L   A P Y A E G S M M N P D R   C L D   V Q G A S K A D N A L   V I V W S C N N		
UniRef90_D2B257	Q K W I   Y D A V S H   I Y S M H N G R   C L D   A D L N T G S N G T K V Q   L W D C N G		
UniRef90_UPI00045E711B	Q Q W R V   V G A N E   I I G Q N N M   C L D   V P R F G G A G T G   V V V A W P C K		
UniRef90_L7F3Y9	Q K W T   L T D G G K L   R N V N S T L V A G   V T Q S S T A D G A A V I Q W G S A S		
UniRef90_U6IXF9	Q H F E Y   T D N N E I R   Q N N N C M T I   S A N G K K I T T M E K   C T G		
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UniRef90_UPI00036A086C	A Q W R V   V S G Q   L L I N A A G D K C   L T D P   S G G T N S G T A V T   V T P C A G		
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UniRef90_E2A417	Q L W R Y   I E K Q W L   Q H G Y S S R   C L D   T D P   G S K   R V   F V   T T C D S		
UniRef90_UPI00045723B0	Q L W E   Y D V   Q N T F V   H   I N S Q S C L   S V R K Q D N G K   S D P   T V   E S C T G		
UniRef90_UPI00032B0418	Q I   W H Y   C R G L   F K S K A N D   T C L   D V I G G R D T P   G A K   V A L   W T E H G		
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UniRef90_BOBG74	Q Q W Q F   V K V G N H Y S R V S   G L V L G   V A E A S K D D G T   V V V Q W N M E K		
UniRef90_C7PWP5	Q   L W W Q   W P P		
UniRef90_L9KUH6	Q Q W T F G K N N R   L Y Q V   S V G Q   C L   R V V D P   L G Q K S S   V A M A   C D G		
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UniRef90UPI000367D73B	Q A W K   F V P		
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UniRef90_C6WPF3	Q V W S   L T E S G R V V   N P N A D K   C M N T K D N A T T A G A A V   V Q T N S C D S		
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UniRef90_B5HYX1	Q Q W N M T K   V G		
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UniRef90_F7V004	Q E W N F   V S W		
UniRef90UPI00036C4F83	Q Q W Q   L L P   G T M   I K N R S S G   R   C   V   P   D   F   S   S   A   D   R   V   T   L   R   Q   W T   C   P   G		
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UniRef90_TOMC16	Q Q W T   L T N T V   Y   I   K   T   I   L   S   K   G   Y   I   D   N   P   G   S   S   T   S   D   N   T   Q   L   V   L   Y   S   I   N   G		
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UniRef90_Q4U4N0	Q K W A   L   Y   G   D   G   S   I   R   P   K   Q   N   N   V   Q   C   L   T   C   Q   K   D   S   V   S   T   V   I   N   V   S   C   S   G		
UniRef90_B4P5X0	Q F   W   T   Y   R   E   N   T   Q   L   H   H   G   T   S   G   K   C   L   A   I   S   E   S   K   D   K   L   L   M   E   E   C   N   Q		
UniRef90_B5HRD3	Q Q W L   L   N   S   N   G   Q   V   V   S   E   A   L   G   T   C   L   D   V   G   G   Q   A   T   A   D   G   S   K   V   G   L   W   T   C   N   G		
UniRef90_A1UZA4	D   Q   W   T   L   V   P   V   G   R   L   I   S   V   S   S   G   M   C   L   N   V   S   G   G   S   L   S   P   G   A   P   L   I   Q   Y   P   C   Q   G		
UniRef90_I9JLD8	Q A   W   V   Y   D   S   K   E   M   I   K   H   K   T   D   Q   C   L   D   H   S   M   A   D   Q   Y   A   A   I   L   N   E   C   D   G   G		
UniRef90_R7F631	Q K   F   R   L   R   G   Y   Y   E   I   E   N   I   R   S   N   K   L   L   D   V   V   Q   S   I   Q   G   S   G   M   N   V   D   Q   W   S   N   N   G		
UniRef90_R7F631	Q L   Q   W   Q   L   V   P   Y   Y   R   I   V   V   N   T   N   G   M   V   A   D   S   W   G   N   T   A   N   G   A   P   R   Q   S   A   W   N   G		
UniRef90_C7Q356	Q L   W   R   Y   D   P   D   S   Q   M   L   K   Q   G   N   R   C   L   D   M   D   P   S   L   G   D   G   R   Q   V   F   V   N   P   C   N   T		
UniRef90_W5JKD2	Q E   W   F   L   T   S   D   D   R   I   A   L   V   D   R   G   C   L   D   L   T   T   G   N   L   T   N   V   V   Q   T   F   T   P   C   D   G		
UniRef90_K5Y2Y1	Q T   W   K   F   S   S   S   K   Y   L   V   R   S   V   S   S   G   L   C   M   S   N   R   D   G   S   T   A   G   N   P   I   V   Q   E   P   C   S   D		
UniRef90_D3CY37	Q   L   W   Q   L   V   P   Y   Y   R   I   V   V   N   T   N   G   M   V   A   D   S   W   G   N   T   A   N   G   A   P   R   Q   S   A   W   N   G		

UniRef90\_UPI00022469BA S K N Q Q W T Y  
 UniRef90\_R7TW90 S D N L R W T Y S  
 UniRef90\_F3ZEG2  
 UniRef90\_B0PHT4  
 UniRef90\_UPI00046784EF S P T  
 UniRef90\_UPI00035041EA K R S Q K W  
 UniRef90\_UPI0003DOD968 S D N Q V W K F  
 UniRef90\_UPI0002E003AF G S N Q R W N V T  
 UniRef90\_H6CHL8 W S S Q H W Q L  
 UniRef90\_L1PHY8 T T S Q Q W R L  
 UniRef90\_U5W1Q1  
 UniRef90\_UPI000476FBDC G A N E A W S  
 UniRef90\_F2U2H2 N A N Q E W T F T  
 UniRef90\_K5WW42 S S A Q Q W T L T  
 UniRef90\_G5JTS9  
 UniRef90\_C9Z3D2 T A D N R W R I  
 UniRef90\_J0DEX7 A T A Q Q W  
 UniRef90\_W6TYJ6 G N N Q K W S I  
 UniRef90\_H3ATT4 L A L Q K W F F  
 UniRef90\_P33183 N P N Q Q W V  
 UniRef90\_UPI000371C983 S A L Q H W T I  
 UniRef90\_D9SQS6  
 UniRef90\_B5I624 N T C Q Q W  
 UniRef90\_F3WVA3 A I N E R W S F T  
 UniRef90\_F7GSS0 K A R Q Q W R F  
 UniRef90\_UPI0004238CCD A P D Q Q W Q F  
 UniRef90\_B5H137 T A A Q N W Y F T  
 UniRef90\_UPI00035C81F2 S A G Q R W A L  
 UniRef90\_Q8N4A0 L D N Q I W S F  
 UniRef90\_D9T0A5 A A S R T W R L T  
 UniRef90\_S1TAQ7 R T N Q K W V  
 UniRef90\_D2B257 W S N Q K W S L  
 UniRef90\_UPI00045E711B N S N Q Q W  
 UniRef90\_L7F3Y9 L D D Q L W K I  
 UniRef90\_U6IFX9 S E Y Q K W V M S  
 UniRef90\_C7Q3E0 G A N Q V W R V S  
 UniRef90\_C5BTR5  
 UniRef90\_F2ZBT4  
 UniRef90\_E9SGA5 S W A Q Q W R L  
 UniRef90\_C3YBV8 S P V Q Q W R Y  
 UniRef90\_UPI00036A086C R A G Q R W S L  
 UniRef90\_M3DMS2 A N G R V W R L  
 UniRef90\_E2A417 S P T Q K W R I  
 UniRef90\_UPI00045723B0 S T L Q M W I L  
 UniRef90\_UPI00032B0418 Q L R Q K W R L  
 UniRef90\_UPI0004412BDD T T N Q N W V L  
 UniRef90\_U6EUH4 T P A Q L W K F T  
 UniRef90\_B0BG74 I P D Q L W F L  
 UniRef90\_C7PWP5  
 UniRef90\_L9KUH6 S P S Q Q W R L  
 UniRef90\_UPI00037F373A S S N Q V W  
 UniRef90\_B7GB18 G P D Q L W R  
 UniRef90\_UPI000367D73B  
 UniRef90\_G1NRH7 A D N Q M W K F  
 UniRef90\_C6WPF3 A T S K Q W G F T  
 UniRef90\_V9KXE2 D D S Q Q W S F  
 UniRef90\_B5HYX1  
 UniRef90\_B5HSM8 G P N Q Q W K I T  
 UniRef90\_L8DMP2 S A A Q K W V  
 UniRef90\_F6QF07 E L T Q K W  
 UniRef90\_R6NES7 A A D Q L W Y F  
 UniRef90\_UPI0002F88B10 S D A Q R W R  
 UniRef90\_E7EUL0 S D P Q K W I L S  
 UniRef90\_C3Y894 G T N Q G W T F  
 UniRef90\_E6UF15  
 UniRef90\_UPI00046B53EB S P H Q L W L F  
 UniRef90\_E5S8J4 Q N N Q Q W T F  
 UniRef90\_UPI0004233412 S A A Q Q W  
 UniRef90\_UPI0003B4FDE3 S N A Q R W K F  
 UniRef90\_R4LHZ2 S A D N N W R L  
 UniRef90\_D6WVN2 S P G Q Q W  
 UniRef90\_H0XIM8 S I L Q K W F L  
 UniRef90\_C4RGY2 T A D H L W T L  
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 UniRef90\_UPI00036C4F83 S A N Q E F Y L  
 UniRef90\_L7EVG3 V D D Q L W K I  
 UniRef90\_T0MC16 T N N Q K W V L  
 UniRef90\_B9T1S4 N P N Q I W  
 UniRef90\_L1L7I0 C T C Q L F T F  
 UniRef90\_B4NRX7 G K G Q Q W  
 UniRef90\_E9FYV1 G P S Q I W K F  
 UniRef90\_Q4U4N0 S S G Q R W V F T  
 UniRef90\_B4P5X0 S S R Q Q W T L  
 UniRef90\_B5HRD3 G T N Q A W S  
 UniRef90\_A1UZA4 A N N D Q F S L S  
 UniRef90\_J9JLD8 S R S Q Q W T  
 UniRef90\_R7F631 G D N Q K W I I  
 UniRef90\_R7F631 G D N Q K W I I  
 UniRef90\_C7Q356 G N N Q Q W S L T  
 UniRef90\_W5JKD2 N P H Q R W  
 UniRef90\_K5Y2Y1 N L N Q V W  
 UniRef90\_D3CY37 I A R M Q W R F

1                    10                    20                    30                    40

UniRef90_E6JZ04	G S Y V I T N V N S G K A L D V   S G S R T Y D R A K V Q Q W S V N G A A A			
UniRef90_F0K6Y8	G T Y Y I K S S L S G M Y L D V A N G Q N T D G T N I R Q W T P L N N N A			
UniRef90_W5KT20	P L Q F G A I K N I G K D S C L D A G E N N E G G K T L I M Y P C H G G N			
UniRef90_R7B667	G Y Y R I I S V H S N K A L T V Q N N S L V P G A N A V M Y T A N T A D N			
UniRef90_H1YAA3		A A L V Q G T Q T G T S P		
UniRef90_UPI0003B6A9A4	G W Y Y I K G V Q S Q K Y L T V N A D N V S G W K G V C   R T G S G   D A			
UniRef90_UPI0004769A61	S G R L H N V E S G L C I G V A G N K P L K G T E A E L Q T C S S A A G			
UniRef90_B4LP94	V A N G E I R N L G Y G T C L D S P T G K R N M K K P V G L Y P C H K Q G			
UniRef90_S4GAK7	G T Y V I R N K N S G K V L D V R Y A A A A N G A V V W Q Y A A N G S Q A			
UniRef90_UPI0003454906				
UniRef90_U1Y0N0	G W Y E I R A A G N G L A L D V S G A S G N D G A N V Q   Y K A N S T A A			
UniRef90_W5IGR6	V N T S Y A L D V D G D K T T N S T N V Q L Y S A N K S N G			
UniRef90_U5EVC4	V A S G E L R N Q G Y G N C M D S P A G K K N L R K P V G L Y P C H H G G N			
UniRef90_Q9M654	K C L E A E N T N V S R Y T K V F L D D C V D R Q Q			
UniRef90_U2KXV3	G A V Y M I Q N V N S G L Y L E V D G G K A A D G T N V Q Q W G A N E P A A			
UniRef90_E0W2D6	P A F G S I R Q R Q L C L D T L G H S I E Q T V G L Y V C H D T G G			
UniRef90_F7ZYNN	G W Y Y I K N I N A Q K Y L Q V A N N T G K A G Q N V E L G S G S G V A G			
UniRef90_UPI0002B4C9E5	P P A H G E V R N V A S N M C L D S M G N K G N R A Q I K V F P C H R G G N			
UniRef90_S3ZT17	V F T A T L L I A R H S D K A V S V D G E K K T D G A A I Q Q W A Y A D R D H			
UniRef90_E6MFBO	F T A K L L T N L N S G K V V A E S A T S T A T Q Q T Y A G G I S Q			
UniRef90_B3RR06	G K L R N P A S A N C L M V A G K T N S Y V R L I T C V H D T S S			
UniRef90_D4K2X3		S V K D G G N I R L G R Y E R K P E		
UniRef90_K1TW11	G Q Y R I K N R F T G K V M D L A M S G V V N G T W V H Q W E K T T G K G			
UniRef90_L1NVC7				
UniRef90_F1L2V2	V G Y G A L R N P N S G L C L D T L Q R D E K S T I T L G F A C Q G S S A			
UniRef90_F2B9M0	L I R T A D G Q C L D I S G G D G K S L I R Y P C H G R A N G			
UniRef90_UPI000249407F	S G E G A F V N T A S G M C L D L T S G L T N A G T A L Q A Y G C N G A K G			
UniRef90_R7U2Z5	L R N R W C G L V M E L R D G V A D P G T E V V T A Y R S S M A D			
UniRef90_E9SGH2	P Y R F K N V N S G L Y L E V K D G A A Q A Q A G A N V Q Q W G G D T V G D			
UniRef90_V8BS89	P G R V Y Y I R E K V S G N Y L D V K G G E A N N A V T A Q L Y T F N G S A A			
UniRef90_UPI00047836D6	Q H S G Q C L D N T D L R T N D G N Q Q Q F Y C E G G D Q			
UniRef90_Q6BE06	P P E G I Y Q I V T A L N N S S V V T M G I G L T T R C G V N L W S N N G N T L			
UniRef90_P82683		A N G A S V W V I T C G S S T N		
UniRef90_Q9M653	G S I T N P H G S G L V L T A P Q A A Q T T I I L V V R N T H S A G R S			
UniRef90_C3Y893	G Y F Y I E S R Q T G M V L D V N E A N T A S S T P I I V Y P K E G V E N			
UniRef90_UPI0002658733	F F G K I R N R A A E K C F G V S K S Y H Q P I G K V K L E D C T H Y A R			
UniRef90_W2FM85	I I R N A G S N R L L S E K D A G L Y M S T K S N D W L V I K E Q Q T			
UniRef90_V3ZDH7	A W G M M R N P S S N I C L D T L Q R D E K A I F E M G L F H C Q N G A N			
UniRef90_UPI000476093A	G W F S L R N G A N L S C M D A Y G G G G L N G T K V Q V W S C T Q G G A N			
UniRef90_R6EDM6	T Y M L K N V N S G M Y L D V S G A K A V N G T N V L Q Y T A S R A N N			
UniRef90_R7FDE8	G A V Y M L K N V N S G L Y L E V A N G A A E N G A N L Q Q W G A D S A A A			
UniRef90_R7TPX9	G T G T I I R T R L I N D F C L D I D D D Q N M C V N P Y R P D C P S S			
UniRef90_UPI0003942FB5	G T Y S L I V T Q S G K A L D T S Q W G T I D G T N I T L N D Y W G G E S			
UniRef90_B4V730	P T T G A A I T G V G G K C V D V A G A A T A N G T P V Q L Y D C N G T A A			
UniRef90_UPI0001C3768F	G A S F M I K N V N S G L Y M E V V G G A N A E E G A N V Q Q W G A N E P A A			
UniRef90_S2JVP9	I K S Q M N G R I V L D V S E G S T E D E A P I I V Y S Q K G E D N			
UniRef90_UPI0003C3530F	P P S A T G V I Q S L A P T Q C V D T M G K N L N A A I G L F G C H P H S N			
UniRef90_B0DP81	P T P T G V Q I H N F N N R K C M D V A G N R R R N G T P V Q L F D C N G S S A			
UniRef90_W6S3D2	G V Y M I K N V A T N M Y L E V K D G E A K K G A N V Q Q W G A S K A A A			
UniRef90_M7BJ04	P A V Y F R I K N R A Q D K Y L T V T G N S D A R A T S V C V S P Y N G K N T			
UniRef90_B4CYB3	P D D R Y K L T N R K T G K A I D V I E G R S H H D D G H K V L L W G Y T N G G N			
UniRef90_E1FH70	G E L R N V A A N K C V D T H F K N A E E K F G I R K C V S D G P A N			
UniRef90_UPI000365AFC3		D A S S Y P T H Q P N V I I I P N Q H D		
UniRef90_A7WM72	S F T G N I I G R D G L C V D V R N G Y D T D G T P I Q L W P C G S Q R N			
UniRef90_UPI000425BDF0	G Y Y S L T A K H S D M A L L N L Y G K E Y K G S P N I L Q H Q F T E G D D			
UniRef90_R7J3L1	G Y Y S L T A K H S D M A L L N L Y G K E Y K G S P N I L Q H Q F T E G D D			
UniRef90_R7J3L1	P V A H W P Q V R N E E S G L C I D T Q F K G Q N E R A P C L K D Q R G R S G E			
UniRef90_B7PV60	G E I R Q G A F C L D T L G H V L D G T V G I Y Q C H T A G N			
UniRef90_U4UH93	A A Y Y Q F V S V R S G N A L D V I A G A D H A D G V R I Q E E K R A A G A A			
UniRef90_UPI000377D029	V A H G E I K N L U G Y G T C M D A P A G K K H L K K S V G T Y P C H R G G N			
UniRef90_B4MIT5	P P N F A G A I Q S V H P N L C I D T L N N G E K G T V G L Y P C A S S H N			
UniRef90_U5ERV4	P A A W G M V G I L R S K K C L D A K F Q S E G A A L S L M P C K E E G N N D			
UniRef90_H2ZNJ2	P R F S G K L H N T G L C A D C A A E E A A P G C A V M L A P C D G E P Q			
UniRef90_W5Q161	G W G K V H A V V N S N I C L D D L L Q N N E K P Y N A G L Y P C G K Q K S			
UniRef90_Q6WV20	Y R F V V N D N S H L C L E A A D T L P E G A S L H Q A P C A A K S A			
UniRef90_UPI0003A34F22	P Q P P P V R L V N K N S G E L S V T G D S M A F G A E V S Q Q A A T G T R S			
UniRef90_S9QHH2	S A W Y G V I A R S S G R S L D I A N A S A E A G A A A V Q W E F T H A D S			
UniRef90_UPI0002DCEAC7				
UniRef90_UPI000365BC06	V A S G E V R N L G Y G N C L D S P A R K T D L N K P A G L Y P C H K G G N			
UniRef90_B5HZ18	R L R N A D T G T C L D A D G G K S V V G T D V R G W T C K G Q R N			
UniRef90_UPI00046BD144	P A A S Y V T L V N R A T G M F L D G M Y R F A D G S L A G Q W Q S S G S T A			
UniRef90_S3AW81	S N Y N L D V V Q N S S Y Q N G S N I Q F S K S S D S K			
UniRef90_UPI000382C14C	P A D G V S V R V R H S G Q Y I D V H N Y G T V E G N R V N Q Y Y K N C K T N			
UniRef90_UPI00031A25C3	N A A S G K C L D V Q G S S G A N G A N I Q E Y T C S G A A N			
UniRef90_C0B4U2				
UniRef90_UPI0003773A46	P A T N V V L R N T T T K R C V D V P G E N G Q A E G P V R Q F T C N E T P N			
UniRef90_F8JJ97	T L I N Q N S S K C L N V K D A S L D A G V R V E Q A S C D Q T N A			
UniRef90_G5BQI2	G G S F Q I R N L Q T G K C A T L A G G S T E N N V E L L Q F S C D T D P S			
UniRef90_D9WXX5	G S L I N R P S G L A I S A E S G E S G T T L T M Q V H L N A S K			
UniRef90_M4BSF2	G Q T A D V S G A S T E N G A N V I Q W A L T T R N T N			
UniRef90_N2IQJ3	S G G N Q I R N R G S K N C L D W A S H H G R Q S A N V G L Y W C H K G G N			
UniRef90_UPI0003C742CE	A N Q S L L D A A G A S P Q V G A N I S L W S N K N Q N N			
UniRef90_Q8W2E7	L G S N N V L D I P G G N A S D G V G A Q I W D N V S V A S S			
UniRef90_I2N2W0	G L C L T A S S D H R N Q L T L Q K C G H P G S			
UniRef90_A8NHR8	G W Y Y I K N T N A Q K Y L Q V K D N T G A N Q N V E I G T G T G V T G			
UniRef90_R7B6F3	T G Q V H D V A G G C L E N A N D S T A T N N A Q W L N T C G T N P G			
UniRef90_W8AMU9	T Y K I I S S S T G K V L N V R N Y S S Q S G A Q I E E L V D V G A L S			
UniRef90_F0KVU7	P A R W F R I V N V T S G L A V D G G G A V A A G S A L K V W T P D G S T N			
UniRef90_F2JK9A				
UniRef90_UPI00037599DC				
UniRef90_F0K7S3				
UniRef90_D8I2P8				

50            60            70            80

UniRef90_E6JZ04	Q R W F I   R D A S D G Y Y N W V L D M A N G S T A D F T S V R   F T P N G T K A
UniRef90_F0K6Y8	Q K F K   V S D S D G C Y H Y K S C I   D V N S S S N G S N I E E W S Y W N G D M
UniRef90_W5KT20	Q Y F E Y S T H H E I   R H N   Q K E L C L   H G K D G A V K L E E C Q Y K G G A E
UniRef90_R7B667	Q   W R D G S Y T F F N K K N G Y A L Y V G S A S P G T N V C T S G Y S P T S N
UniRef90_H1YAA3	G   Q V G S I Y Q   F N R N S F K A L E F W G T A N Q T M A D Q W D Y   A G A N
UniRef90_UPI0003B6A9A4	Q K W Y V T N V N D G Y   M G N V M L D V A N G T D G A S I G   Y S A Y G G N A
UniRef90_UPI0004769A61	Q Q W S Y E T D G K L R S T A D P G L C L D S H   L A F E V Q L A P C T G T S N
UniRef90_B4LP94	G N Q I K S I N T D M C V   D A P K T G D E S P V G V Y P C H G G G H
UniRef90_S4GAK7	Q R W L I   R N A G N G Y F N W V L D I A G A N R A N G T R I S L Y R P N G T K A
UniRef90_UPI0003454906	H   S D K C L   H V N G N Q N G V A A T Q W Q C V D Q N N
UniRef90_U1Y0N0	Q T W H   N W Y R I V S A N S N K A L G V K G S V N R A N V A Q Y T T T N N V L G
UniRef90_W5IGR6	Q K W D I   Q S A T F V A L H K D N L A D A G S H A N G A N I R L F A R N K S D A
UniRef90_U5EVC4	Q Y W M Y S K T G E I R R D E A C L D Y A G Q D I V L Y P C H G S G N
UniRef90_Q9M654	Q R W A L Y S D G T I R A D S D R S L R V T A D G H R R S S I I I L A C K G W G N
UniRef90_U2KXV3	H   N T W Y T L Y P Q I G D K V S Y L D V A G N A N G T N I G   W S A T D A D A
UniRef90_E0W2D6	N Q E W G M E D D S Y I K H D L C L T I P N Y V P G A L V L M R L C E D A D N
UniRef90_F7ZY7	Q K W Y L   T N T G D G Y I T L K N A L G N Y E N K D G S N I Q L F N A Y S G D S
UniRef90_UPI0002B4C9E5	Q F F V L S K R G E I I H N D E S C L D Y S L E N E E N K V D M W N C H G G G N
UniRef90_S3ZT17	Q K W N L   E A T T G G Y V H S G K P M S V D S I D N G T P V I Q W P L G N R P N
UniRef90_E6MF80	Q F W R F T S Y T I T N A A S G K A L D V K G A L D G T I I Q T Y A S N N T N A S
UniRef90_B3RR06	M   F R F T I   R R E I E I N G K C L D A N R S S K R G S K I Q L V D C H M R D S S
UniRef90_D4K2X3	Q E W A F V R E G D G V Y R I R N R L M M T G T A N G T W L H L W E D V G G T S
UniRef90_K1TW11	Q R W E I V P A K I R N V L A D K V I D L V G M R N G T Q A Q Q W Q D V F G E N
UniRef90_L1NCV7	A R G L I R T G G E C L D V H G G D G K T L I R H A C H G R A N
UniRef90_F1L2V2	Q   V F S L T K S Q G Q L R R E T C A S V L R S R E D G P K G T R M P S C D D N
UniRef90_F2B9M0	Q Q F R F D A K S G A I T Q N G G C L D V A G A R D G A P V I R Y R C T G A A N
UniRef90_UPI000249407F	Q K F R D P A T G Q L K V V G R C A Q P T K G T S A G T L V V I A P C S S T A S
UniRef90_R7U2Z5	H   Q L F Y E D E Q T G T I R S A L N G Y C   D V Q D D I V V N P Y D P Y S K N
UniRef90_E9SGH2	W N V W R L K H K G Y N Y Y E   L W S Y L   L G D G S T Y G A N I A L N T N T N S N A
UniRef90_V8BS89	Q K W K L   I D G K D G Y M Q F G Y R L D L N N K S D G E K I Q Y G N N N T D A
UniRef90_UPI00047836D6	Q Q W N F K P Y T V V N Q Q T G K C L D V N S T A D G A V V V Q Q W T C S G A Q N
UniRef90_Q6BE06	Q K W R F V Y N G D Q N A F Q I K S L V L S G S N S G T S V T A E T N Q N R P N
UniRef90_P82683	Q N W A L Y G D G S I R Q N Q D Q C L T C Q G Q D S V A T V I N L V S C S G S S S G
UniRef90_Q9M653	V G D D V E P I V T Y I V G F K Y M C L Q G N N E N N T R V W L E D C A V D R P
UniRef90_C3Y893	Q W R Y K S E T G E L E S R N G Y R I D V S G G Y S S A S I I N Y P G N N G A N
UniRef90_UPI0002658733	Q Y F V Y M T G E G Y L M T D E S V C L D S P E G Y E D T N V V M   A C Q G I Q R
UniRef90_W2FM85	W F F D S T T K Q I R S K S G D R C L D A Y Q P W D G G I V H V Y R C M D N G N
UniRef90_V3ZDH7	Q   F S F S I E N E I R R E E G C L T T Q G E N N S V V K L E P C N R Q A T
UniRef90_UPI000476093A	Q W W R W E G D T I R T A D G G R C L D A D S G G N G T K I Q L W D C N G A Q N
UniRef90_R6EDM6	N T W K F V S N G N G Y Y Y I Y S Q L G N G S T F N G A N I G I W S N T N C N A Y
UniRef90_R7FDE8	H   N T W R V Y Y Y L Y S Q V G D K I T Y L M D T D N G T N A L W T K S S R E Y
UniRef90_R7TPX9	Q Q W D I   R G P H I A M R G S D Q V V D I H N E E P G A R I T V W E E S D G D N C
UniRef90_UPI0003942FB5	Q K F   I T P V D G I W H R I T P V I A P D Q A F N G A N I Q T W S Y E G G A C
UniRef90_B4V730	Q R W T V A G D G T V R A L G K C L D V G G T A D G V Q V R L W D C N G T A A
UniRef90_UPI0001C3768F	H   N T W T F T Q A T G D Y Y W Y L V D Q G S R E S G G N I V L A Q K N G Y S D A
UniRef90_S2JVP9	Q   L W R Y E D G Y F I N A K S A K V L D I S G G E M Q S P I I Q Y A Q K M S A N
UniRef90_UPI0003C3530F	Q F W D   L S H F H D I R N H K G D C L D V M D S H E N A T V W M W S C H N G G N
UniRef90_B0DP81	Q R W N   F R G T T R V Q L T G T N F C L D A G H H G E R I L K   W H C I D S P A
UniRef90_W6S3D2	H   N T W K V S A G N G Y Y Y K K F L L D V Y Y G K N G T N I R I H T D T A S D A
UniRef90_M7BJ04	Q   I W H Y C H G L F K S K A L A C L D I V S G R D G A K V A L W T E H G K A R
UniRef90_B4CYB3	Q Q W H N G S Y M L V N I E S G K A L S L P T T D D G T Q A Q Q S N V N K S A A
UniRef90_E1FH70	Q N   L R   T F W R D V R L H   T R T C F D V S V S G N R A P I V L F S C H G Q G N
UniRef90_UPI000365AFC3	Y P R S T H Q G L I R T A S G Q C L D Q S G S N Y R G V I A Y R C H G K A N
UniRef90_A7WM72	Q R W T F Y E D G T I Q S M R K C M T A N G L N S G S Y I M   F N C S T A A A
UniRef90_UPI000425BDF0	E K   L S N G Y Y K L T H A A S G K V L D L Y G T T Y Q A N V C V H D A N G S   A
UniRef90_R7J3L1	A S E W I A G N F Y I I I N K C G R F A D V S N G N V D G T N I N G W T G N S S D A
UniRef90_R7J3L1	A S E W I A G N F Y I I I N K C G R F A D V S N G N V D G T N I N G W T G N S S D A
UniRef90_B7PV60	Q Q L V L T W H K D V R P A K R S C F D V S S S D V H A P V M   W S C H G H G N
UniRef90_U4UH93	Q D W T   L T S D G L L K H Q D L C L T L V N A E E G S Q P I M R I C D G S E A
UniRef90_UPI000377D029	S Q Q W Q V Q C R L V N H N S G K V L G V R K A T G P A A L E E Q Q S D T G A A N
UniRef90_B4MIT5	Q Y W M L S K A G E I R R D D S C L D Y A G K D V T L Y A C H G S G N
UniRef90_U5ERV4	Q N F A L S W H R D L R L K F G M C W D V P D H S A K A K I L L F N C H G G G N
UniRef90_H2ZNJ2	Q N F I L T W K E D I R P G T K R K V C L D G Q G R S K P V L W Q C H G Q G N S
UniRef90_W5Q161	Q R L E H T G R S A I R Y G G P G H L C F D V R V I L Q N C T E G G S S
UniRef90_Q6WV20	Q L F S T F N T N V L R N E L S C A T V Q H S E S P P Y R V W M V P C M E N D N
UniRef90_UPI0003A34F22	Q E W S M T R P V S N P L S G R V M D V W S T A S G V P V W L W D F V I A G P H
UniRef90_S9QHH2	H   Q W N V V P S K L I N V Q S G Q V L G I R D T A A G A L A L Q W G D T L T R D
UniRef90_UPI0002DCEAC7	Q V F T V K Y L G G G Y Y V T G K V L D V T A G D N K A N V Q F W E D N G T E A
UniRef90_UPI000365BC06	Q Q W R F V P F R I I V R H T G Q S L T L T S P D E N A P L T Q R P W D G S F Y
UniRef90_B5HZ18	P   L T F Q G T H D A F A V Y L T P A T S G G E
UniRef90_UPI00046BD144	Q Y W M L S K   G E I R R D E S C L D Y A G N D V I L Y P C H G S G N G
UniRef90_S3AW81	Q   L W W Y D A E G R G Q T H D R C V Q S E G A V V Q A G A G L E L G N C S D A A G G
UniRef90_UPI000382C14C	Q Q W M V E A A G S Y V K I K N R A S G F L S S V N G A G V V Q K A G S T N F S
UniRef90_UPI00031A25C3	Q V F T V H Y L G N I H K S S G K A V D A G G S K N G A N I Q L Y D D N E S D Y
UniRef90_C0B4U2	Q M F R L   K K R E E K Y Y T M E P M V L A R A T S A D T L I L Q K Y S A G A A N
UniRef90_UPI0003773A46	Q Q F E L V A S G L V A A H S G K C V D L W S A S D G G A A Q Q W S C T G A A N
UniRef90_F8JJ97	Q   F E L V A S G L V A A H S G K C V D L W S A S D G G A A Q Q W S C T G A A N
UniRef90_G5BQI2	Q E W A L T K E K S V K H M D L C L T V D R A P G A L V K L Q G C R E N D S
UniRef90_D9WXX5	Q   L W D L D V K F I R N V K D R L C V D L P A A P V R S R I Q C E F T C D G T D N N
UniRef90_M4BSF2	W F F D S A T Q Q V R S K S S D R C L D A Y Q G W D G G I V H V F G C D Q A N
UniRef90_N2IQJ3	Q R W H M I N L K N L S V N S G K V L T A Q E A F K D S P I S Q E T W Q N L H T
UniRef90_UPI0003C742CE	R R W R V T S Y Q L V N V Q T R K C A T V R S T E N N V N L V Q F T C D N D P S
UniRef90_Q8W2E7	Q G W L P S N N T R L T P I I G N G L C V Q R N D Q E D V G L A T C C D D N N N
UniRef90_I2N2W0	Q   L W E P E A T G G G Y V H S G L C L N V K G N E D G A Q I I Q W T C G T D A N
UniRef90_A8NHR8	Q Y W M L S K D G E I R R D E S C L D Y A G A D V M V Y P C H G K G N
UniRef90_R7B6F3	Q M W Y I V P D G N G Y Y N Q N L V L D A T G S Q N G A N I T A W T D Q N N N N
UniRef90_W8AMU9	E S W I M T D V K I L N S I T G E V M D L F N T T D G T V I G Q W D D N G G A N
UniRef90_F0KVU7	Q R F T L L R R D R I I H N G K C L D A A G T R E G T P V I L Y S C T G N D N
UniRef90_F2JKA9	Q K W Y   T N T S N G Y V T L K N G L D Y M A N V D G T N I Q I Y S P N G M D A
UniRef90_UPI00037599DC	Q Q W S R W S D G T L R V Q G R C I D T L N G T G N G T R V V L V V C T A S T S
UniRef90_F0K7S3	E Q W K I   A D S G N G S Y K I N S L D G G V S T E G T D V K Q Y Q Y A G A E N
UniRef90_D8I2P8	L Q F G I E D T G D G F V K L T N R T D A G A T T A G G N P V Q S G Y T G A A S

	90	100	110	120
UniRef90_E6JZ04	Q K F Q [L] A P Q G R A M R I   S S G R [V] I D   P S G S R A D S T R A Q [Y] S W [G]			
UniRef90_F0K6Y8	Q K F K I Q K K Y A I L T K S S N F C [L] D   V Y N M S K D S G A N [V] C Q W N Y W G			
UniRef90_W5KT20	Q K W E L R E D Q L F Y N V A W K L C [L] D   S A R Y E N P S L V T C S S			
UniRef90_R7B667	Q K F K L L E R V T N L M A L N A S Q V L D   V T A G S G A N N A N   E T W T N N A			
UniRef90_H1YAA3	Q Q F K L E D A G G G Y Y H A T T K C [L] E   I Y G W S N A N G G Q A D L W D Y T G			
UniRef90_UP10003B6A9A4	Q Q F I V K T T G T N G I Y T I L G T K L D   V Y E K K T T D G S K V C Q W T Y N G			
UniRef90_UP10004769A61	[R] R Y D F T L Q G I L V P R W N Q D L A   A P A S T D G G G A L V L K T R A D			
UniRef90_B4LP94	Q Y W M L S K A G E I R R D Q S C [L] D Y A   G K D V I L F G C H G			
UniRef90_S4GAK7	Q L F F A A K N G I L L V K S A V V N N K M D   I R W G S L S N S A P L Q I Y Q S N G			
UniRef90_UP10003454906	L K W K L N D Y Y F I R S K F S D K C [L] Q   I D G A S M D N G A A V T Q W D C V N			
UniRef90_U1Y0N0	Q K W Q F G D T G F T F V N G S G K V L D   I A A G Q L L S G T N V Q Q D Q N N G			
UniRef90_W5IGR6	Q K W V I T H Y V I I R N K E S G K A L D   V A A G I A Q D G Q N I Q Q Y T Y N S			
UniRef90_U5EVC4	Q M W N Y S P Q T K Q V H G S S D K C [L] A I N   E S K S K L I M Q E C D P			
UniRef90_Q9M654	Q R W V F N T D G T L L N P N A K L V M D   V K D S D V S L L Q I I L H Q S T G			
UniRef90_U2KXV3	Q R F K F Y E A A D G V Y Y G D Q S C [V] A V V Q A A S T S A G A N V V E W A V N L			
UniRef90_E0W2D6	Q K W R L V N N G G L V K H E T S L C L D S R D A T T R   G L I V E K C D S			
UniRef90_F7ZY7	Q K F A V K A S S K N K S S N G S K V L D   D Y N F G T A D G T N V C Q W T Y G G			
UniRef90_UP10002B4C9E5	Q E W I Y T K			
UniRef90_S3ZT17	Q E W K L V Q K D D G Y A R H S G K V L S   I L S E D R T D G G K L V Q W T D E N			
UniRef90_E6MF80	Q K W V I E K N G S V Y V N L K P T R V L D   I S G A T K D E G A K A Q L Y T S N G			
UniRef90_B3RR06	Q E W K H K S D I N I L H V K S G M C L   C D R G L S L T   P V L M P C D H			
UniRef90_D4K2X3	Q M W K M E P T P A G T M W A A G K C I   D T V G M G T A D G A V L Q I   W Q E T A			
UniRef90_K1TW11	Q L W S I Q P			
UniRef90_L1NCV7	Q Q F R F D P A S G A I R   Q N G G C [L] D   V A G G E R R E G T P   V I L Y R C H G			
UniRef90_F1L2V2	N D K W S H E K G Q M K H Q A T G F C [L] D   V D G L K S   G D D I V A R T C A D			
UniRef90_F2B9M0	Q Q W Y A D G S R I R S A D S G K C [L] D   A S E H   R L A V R R C C N G			
UniRef90_UP1000249407F	Q Q W T A T S T G A L K H V A S G L C [L] T   V P G T N P A A G T D M V L G A C S G			
UniRef90_R7U2Z5	Q Q W R K F G K K V Q N R S K L S   L V Q   V A E A S M D A G A N I V P A E F S G			
UniRef90_E9SGH2	Q W F R F F K N Y T M I S R C [S] G D A L E   V A S A D T S W G A N V Q Q W E V N G			
UniRef90_V8BS89	Q K W K L H P N F Q I T S K A T K D K K A L   T N G S T T S G Q P   V Q S Y T R E G			
UniRef90_UP100047836D6	Q Q F T L P H D Y Q L V A R H S G K C [V] D   V S G V I S T A A H A L V   H Q W Q C N P			
UniRef90_Q6BE06	Q H W L I E E A G N G Y V Y N P N L V L D   V A G T S T A N G T N   I I L W N Y N G			
UniRef90_P82683	Q R W V F T N E G T I L L N L N G L V M D   V V A Q S N P S L R   R I I I Y P A T G			
UniRef90_Q9M653	Q Q W W A L Y S D G T I R V D S D R S L C [L] T   V T S D G H S S R D A   I I I L T C D G G			
UniRef90_C3Y893	Q K W Y F R K D G S I E S G G K Q W V L D   V Q G A D T N A G T K   V I L Y E R D G			
UniRef90_UP10002658733	Q K W R F D K T G A I M H L S S R L C [L] D   L P S K S P D G   L T L Q K C S P			
UniRef90_W2FM85	Q K W T Y E S S T G K H A T H Q G F C [L] D   T D P A Q G N K V V Q L Y G C S N			
UniRef90_V3ZDH7	Q K W K H D K E G A V V H E S S G K C [L] D   D K S D I S S   G K T V I V K D C K G			
UniRef90_UP1000476093A	Q Q W Y M D G S T I R T R A G G R C [L] L   L A N G S G A D G T K   V T L W D C			
UniRef90_R7EDM6	Q L Y K L V K N Y N I Y T K S S G N C V E   V V N A L T T K G A N V Q Q W A Y N G			
UniRef90_R7FDE8	A A Q Q Y L F S S Y T I Y T G A S D K C [V] E   V E N A K S S S G A N V Q Q W E S N G			
UniRef90_R7TPX9	Q H W Y I E H F F F I K S K L H G K V L D   V K G W E P T P G K K I I M Y S D S A			
UniRef90_UP10003942FB5	Q Q F R F A E T G Q I I T R G T D M S L N   V N N L S E E N D T N V M Q S T S T G			
UniRef90_B4V730				
UniRef90_UP10001C3768F	Q F F K F E D N G D I Y T R S S R D A C V V   E V G S T E S G A N I Q Q W E S N G			
UniRef90_S2JVP9	Q K W E I D E D G Y I F S A R P D L V L D   I Q G R E D E D G A V V I L Y E K R D			
UniRef90_UP10003C3530F	Q Y W S Y D L E H Q M I R H G V N R R F C [L] D   C L E A F V V A N N E K A V Y M N A C D K			
UniRef90_B0DP81	Q I W D F T N Q N Q I R S R R H P Q C V D   L P D G Q T F N G N Q L Q I F R C C N G			
UniRef90_W6S3D2	Q L F K I Q K N Y S I L T K A S N D C V E   V K D G S K S S G A N I Q Q W G F I D			
UniRef90_M7BJ04	Q K W R L L N K D G T I S S Y L S D Q V L D   I K G			
UniRef90_B4CYB3	Q Q W K L E K Y F K L I S Q H D G K A L   T A K A P G N G A A I I Q T P I S A			
UniRef90_E1FH70	Q H F K Y P D K Q Q M Y H P V S D L C M D C [L] D   V E R G E   I F M N P C D S			
UniRef90_UP1000365AFC3	Q R F K F V N S Q I K M N G Q C [L] D   L V G G E H Q D D G T K V I T Y R C H G			
UniRef90_A7WM72	Q K W E V T I D G S I I N P S S G L   L V M T A P R A A S R T I L L L E N N I L			
UniRef90_UP1000425BDF0	Q Q W A I I H S G N G Y A R C S G F C [L] V   D V E G S G T S N G T N V Q Q W P Y N G			
UniRef90_R7J3L1	Q K F K F V A V D D G G Q S L Y D G I V L   D V D Q A S T D N S A N V K L S K A N G			
UniRef90_R7J3L1	Q K F K F V A V D D G G Q S L Y D G I V L   D V D Q A S T D N S A N V K L S K A N G			
UniRef90_B7PV60	Q L W K Y D T V T H L F H P I T A N C L   D C D A K S H E   V F M S I C D S			
UniRef90_U4UH93	Q T W Q M S H P G A L I R H T T Y P C [L] D   T L H N   D L K G L T L Q Q C N S			
UniRef90_UP1000377D029	Q Q W K L T E A G Q I V S R G S G L V L   G V N N G G D   A A V V P S A D R G			
UniRef90_B4MIT5	Q F W T Y R E N T Q L H H G T S G K C [L] L   A Y S E A K D   K L M E E C N S			
UniRef90_U5ERV4	Q L W Q Y F P N T K Q I H Q G R G H C [L] D   S D P D A K E   V F I N P C D N			
UniRef90_H2ZNJ2	Q L W K Y K G N K L I H A V T N L C A T A D L   D T N K V V M L S T C D S G			
UniRef90_W5Q161	Q H W D H Q E N G M I V H I L S G K C M E A V V Q   E N N K D L Y L R E C D G			
UniRef90_Q6WV20	Q E W R Y E H Q H I H S N T G M C L D H Q G L K S   L D D A Q V   A P C D P			
UniRef90_UP10003A34F22	Q E W Y A H Y A S Q L V A T H S R K C [L] D   L E G G S T A P G A T L   V Q Q P C D T			
UniRef90_S9QHH2	H L W S I V D M G N L V N A H S G M V L G   R D A S R S V G A P A L Q W H D T G			
UniRef90_UP10002DCEAC7	Q Q W I I I N N T Y E I I I S R R S G L A I D   D V A N G K V S N N S N I Q M F I P P N K			
UniRef90_UP1000365BC06	Q Q W K L V P S G M L I S R G N D K C A S   L A A A D K F N G T P   V A Q K P Q N			
UniRef90_B5HZ18	Q Q W K L V P S G M L I S R G N D K C A S   L A A A D K F N G T P   V A Q K P Q N			
UniRef90_UP100046BD144	Q Y W N Y H K T K Q L R H G S S R K C [L] L   T I N S S S K D K   L M E E C D M			
UniRef90_S3AW81	Q R F V R Q G D T L R P A S D T G L C [L] D   P G L E D   R A R L A A C C N G			
UniRef90_UP1000382C14C	Q Q W S Q E T A G S Y V N R A T G L Y I D   D G M Q Q S T   D G A D L G Q W Q T S S			
UniRef90_UP100031A25C3	Q Q W L I K P G W N V I S K K S G L N L D   I T E R N I S N G T N I E L Y E K T T			
UniRef90_C0B4U2	Q L F G F T E I G Y L V I C K A G E K I T   V K G Q T Y T A G T E L V F S D H S G			
UniRef90_UP10003773A46	Q Q W N L V Y H S T N T N G S T N Y L I Q S A Y S G A T S G N P   V Y Q L T C N S			
UniRef90_F8JJ97	Q L W E P H E F D N F R S V N S G K C [L] L   N V R G G H E D G A E   V I Q Y H C D T			
UniRef90_G5BQI2	Q K W Q I E S N S K L R H V G S N   C L D   S R T A K S G G L   S V E V C S P			
UniRef90_D9WXX5	Q L W W V D K Q Y W I R N F A S N N C   C L D   V A G Y S T G N D T N L T L F D C S N			
UniRef90_M4BSF2	Q K W V F D S A T G Q I K H H Q G F C [L] D   D P A Q G N K V V Q L Y G C S N			
UniRef90_N2IQJ3	Q Q W Q M L P W F R L V N R S S G K V L N   V P G C K V G D G V D V D Q S Q W M K			
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UniRef90_I2N2W0	E Q W K F V A K G Q L V A R S S G K C [L] N V E V G G   V G Q G R N L I Q W T C D G			
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UniRef90_D8I2P8	Q Q W S I T D T G V I A N R A S G L V L D   G G G S V P S G S P L K V W S D D G			

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UniRef90_S9WHH5	P T F Y G A I R N L G V D Q C L D V G E N N N G G K P L I M Y T C H G G S N
UniRef90_B1NQB9	P P V E W G E I R G F E T N Y C I D S M G H T N G G L V E L G P C H R M G G
UniRef90_H2ZTM3	P E P I V R I V G R N G L C C V D V R D G R F H H G N A I Q L W P C N T D A N
UniRef90_Q41143	P P V D W G E I R G L E T A Y C I D S M G K T N G G F V E L G P C H R G G N
UniRef90_UPI0003315D6B	P A Y D I M L R N P T T R M C A D L P A A D D T D S K N V Q S T C D E K S P T
UniRef90_L7FJ42	P N G T S A Q V V V N V G T G F C L D I R D G D L D N G T D V V T A P C S S S R T
UniRef90_S2YH48	K I V N A S T G A A L D V A N N S T A P G S S V I L Y A A N G G A N
UniRef90_G0A7U8	G A A F Q I R N P Q T G K C M T V A G G S T E N N V R L V Q F N C D T D P S
UniRef90_L7EYL0	G V Y W I R N R F T N K V L D L D A A N V A K G T S I L D F N E H G T F N
UniRef90_D7VH50	A A G L C L D V R G G T P G P G A E V L A R C S G A L T
UniRef90_A8NDT7	N S S T G K S L D A L N C G T A D G T R V H Q W S W G N A C
UniRef90_UPI0003C768D4	P P G A Y G R I V H A G S G L C L D I E D G V I V K R G G T V V A R C T Q A T T
UniRef90_Q08YV9	C L E G R A D G T L V I N K C N A Q P P
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UniRef90_B0DBT1	G S F L V K N Q Y N N Q Y L D V V A D S L Y D Q V N I L T W E K H N K P S
UniRef90_C2KXD2	V T Y Y Q Y Q L F Y Y S K C L D V A G Q A N G S I V Q Q Y T C N G T V N
UniRef90_UPI000476796E	P Y A S G S I Q S V A S S L C I D T M Q R G R G E P I G L Y P C S S N S H N
UniRef90_Q7QDR0	A F G R V Q V Q K G N L C L D N L Q N D E E K P Y N L G V Y E C H S Q P S
UniRef90_K7IVJ6	G G L H Y I A N Q N K T G L I D N G N T G A T E G A T V K Q W G Y N G N Q N
UniRef90_G9NXD9	P K F V A Q I H A A G S R K C I H V A G N I E N G T P L Q V G D C V G G G F
UniRef90_J6F4H8	P K G T Y V K I R N K N S G K Y A V V K D A S L D N E A L I T Q H S T G I G N D
UniRef90_I8VT55	G L C I D I P R G S T S D N V K V C L W N R H S A T N
UniRef90_S0B1B3	S A Y V P A V N S A T G L C L D V R G G T F A N G V D V I T R C R A G A P V
UniRef90_B4V8F2	G V Y K I V N V F S K H C L T S S T N P S G Q P T L V Q S Q Y R Q T P D
UniRef90_F4PB80	I I K S Q F N G R V L D V I E D G S T E D D A N I I V Y K Y E D C L N
UniRef90_I1C083	S T W S T L V N K N P N L E V G G K G E A E G S D I W H F R R
UniRef90_D6E4F1	T L V T V S G N L C L D V Y V G N S S T S G A V I D Q W T C N G Q S N
UniRef90_I7D0J4	P G Y Y G A I E N V K K G N C L D V G T D N T G E P T V L L Y G C H S M S S
UniRef90_H2YVG5	P A D F G A I Q S T N P N C I D T M N R G K G Q D V G L F S C H P Q A N
UniRef90_D1MLM6	G W G T V R N R K S G L C C L D T L N E S E E K T Y K L G L F P C D Q Y T N
UniRef90_T1K115	G R L R N L A S G L C V G V V G G D K A V R G A E T E L A D C S A A P T
UniRef90_H2JZF0	Q L I N Q R T G Q C I A V E L G S S N A G A N V A P A T C I D Q Q P
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UniRef90_D9X2H4	T D L C V A P S S S E G A Q L V L T N C N D D L
UniRef90_F4KQW3	G L C L E A K G A K G E I S E V C D R S A G
UniRef90_S5VNT8	P N G T Y A Q V V N A A S G R C L E V S G D F D K G T D V I T A P C T A A P T
UniRef90_UPI0003F491F0	S G F F N L V N K N S N L C L A V R N A S N L P G E E T Y Q W N A D G T T D
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UniRef90_UPI00047ABC15	T D L C V A P S S S E G A Q L V L T N C N D D L
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UniRef90_U1SHS9	G S Y T I I N S A S G L A L D V Q S G Q A R N D A R V I L W S P N G G N N
UniRef90_Q8LKQ1	D L C M E A N G S S V X V E T C V S H K Q N
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UniRef90_UPI000477264B	P P V E W G E I R G F E T S Y C I D S M G H T N G G N V E T G P C H R G G N
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UniRef90_E2A7V1	P T A P G T R L L R N A G A D L C L D V R D L P K E G S G T Q L A E C S T A W T
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UniRef90_UPI000405710F	P P T F A G A I I Q N V G D K R C I D T M G R R K H K R M G V Y A C A E D P Q K T
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UniRef90_L8PEL7	U H I S S N K C I T A K G T Y S Q P S G Y A V L E T C L P R P S
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UniRef90\_F6R554  
UniRef90\_D4JHM7  
UniRef90\_C9ZGD5

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

90 100 110 120

UniRef90_UPI00036AEF68	Q   W W L   D K Q Y W I   R N Y A S N N C   L   D   V   A G Y S T G N G E N   L   T   L   F   T   C   S   N
UniRef90_A0A034V908	E   Q W S Y E N E   H   L   H   L   N T   G   C   L   D   H   M G L   R   S   S   D   E   L   Q   V   T   R   C   D   N   D
UniRef90_UPI0002886D77	Q   R   Y   D   F   T   L   Q   G   T   L   V   P   R   W   S   Q   D   L   A   L   A   P   A   A   T   D   G   S   G   A   L   V   A   K   T   R   A   D
UniRef90_S9WHH5	Q   E   W   E   L   T   Q   F   E   Y   H   N   I   A   K   Q   L   C   L   H   A   S   A   G   T   L   G   L   R   S   C   H   G
UniRef90_B1NQB9	Q   R   W   V   F   K   N   D   G   T   I   Y   S   L   Y   D   D   M   V   M   D   V   K   G   S   D   P   S   L   Q   N   I   I   L   Y   P   Y   T   G
UniRef90_H2ZTM3	R   E   W   Q   Y   F   K   T   H   R   F   T   H   V   P   T   G   K   C   L   D   R   S   E   L   H   Q   V   F   L   S   D   C   D   S
UniRef90_Q41143	T   R   W   Q   I   W   D   N   G   T   I   I   N   P   R   S   S   L   V   L   A   A   T   S   G   N   S   G   T   T   L   T   V   Q   T   N   Y
UniRef90_UPI0003315D6B	K   E   W   Q   Y   F   K   S   F   R   F   T   H   I   P   T   G   R   C   L   D   R   S   D   V   L   H   Q   V   F   I   S   N   C   D   D
UniRef90_L7FJ42	Q   L   W   W   L   A   K   Q   Y   W   I   R   N   Y   A   S   N   A   C   L   D   V   A   G   F   S   T   G   K   G   T   N   L   T   L   F   T   C   S   N
UniRef90_S2YH48	L   R   F   T   V   D   P   D   G   V   I   R   P   A   I   A   I   E   T   A   L   T   P   N   G   D   G   T   F   L   R   P   L   N   G
UniRef90_G0A7U8	Q   Q   W   P   F   S   Q   Q   W   R   I   T   S   A   I   S   S   L   M   L   G   V   Y   Q   G   G   T   A   A   G   T   R   L   G   I   A   A   A   T   G
UniRef90_L7EYL0	R   R   W   S   L   V   N   W   E   L   V   N   D   Q   T   G   C   A   T   V   A   G   G   S   T   D   D   N   N   V   G   L   V   Q   F   D   C   D   R
UniRef90_D7VH50	Q   K   W   R   F   V   D   A   G   N   G   Y   Y   P   S   T   T   K   V   L   D   V   L   G   G   S   N   A   N   G   T   Q   I   Q   V   W   D   D   L   N
UniRef90_A8NDT7	Q   Q   W   R   I   E   W   V   Y   R   I   V   S   V   A   T   G   T   A   I   S   H   N   E   D   D   S   S   A   Y   T   V   A   W   S   V   D   D
UniRef90_UPI0003C768D4	V   R   Y   V   L   T   V   Q   G   V   V   P   R   H   G   T   A   A   L   A   P   L   E   A   A   A   G   T   P   V   V   V   R   V   R   D   N
UniRef90_Q08YV9	Q   R   W   N   F   T   P   S   G   D   G   Y   F   F   F   N   G   G   G   C   L   T   I   E   G   A   S   T   A   N   A   R   A   V   M   G   P   C   S   G
UniRef90_UPI00035ED19C	E   K   F   L   L   E   P   V   G   P   I   R   P   K   S   D   P   K   V   A   L   V   P   D   P   D   W   V   N   P   R   P   L   E   L   R   A   A   T   G
UniRef90_F4QSW1	Q   F   W   T   F   E   A   N   G   T   L   K   S   D   S   G   L   C   A   D   V   L   N   F   N   K   D   P   G   T   A   V   I   A   W   D   C   T   A
UniRef90_UPI0002E2065A	Q   K   K   F   V   Y   T   V   E   S   Q   L   R   P   K   N   S   R   Y   C   V   D   I   K   G   G   K   A   G   N   G   K   D   L   H   L   W   N   C   D   G
UniRef90_B0DBT1	Q   S   W   N   Y   T   N   G   D   H   I   E   L   S   T   E   P   C   L   D   L   T   D   G   N   L   E   N   W   S   V   V   Q   V   Y   Q   C   D   Q
UniRef90_C2KXD2	Q   R   F   Y   L   D   R   Y   P   A   A   V   Y   Y   N
UniRef90_UPI000476796E	Q   Q   W   T   T   R   S   W   P   L   L   V   A   R   H   S   G   K   C   L   T   P   Y   N   F   S   S   V   D   R   A   Q   Q   M   M   Q   Y   T   C   S   D
UniRef90_Q7QDR0	Q   F   F   Q   Y   D   H   D   T   R   Q   I   Y   A   G   K   D   F   C   F   D   A   D   G   M   N   D   K   L   I   L   N   R   C   N   K
UniRef90_K7IVJ6	R   E   W   M   L   T   E   D   G   K   I   L   H   L   R   T   G   L   C   L   D   A   T   G   O   R   T   K   E   D   V   L   A   A   A   C   S   D
UniRef90_G9NXD9	Q   R   W   V   M   E   K   Q   Y   L   I   Q   N   A   A   S   G   K   Y   L   D   G   A   S   N   T   S   N   G   A   T   L   I   Q   W   S   R   N   G
UniRef90_J6F4H8	Q   Q   F   D   Y   T   R   D   G   R   I   R   V   H   G   Q   N   C   L   D   V   T   D   G   K   L   E   N   G   N   P   I   Q   I   Y   S   C   G   D
UniRef90_I8VT55	E   S   W   I   L   T   K   H   F   R   L   R   N   K   N   S   G   K   Y   L   G   V   F   Q   N   S   M   Q   D   D   Y   K   L   V   Q   V   N   D   S   E
UniRef90_S0B1B3	N   H   W   T   L   Q   P   T   G   C   I   Q   S   A   H   S   E   L   T   L   D   V   Y   E   G   K   K   P   G   S   E   L   C   L   W   H   N   K   K
UniRef90_B4V8F2	L   V   F   S   T   D   A   T   G   R   I   K   P   R   I   A   P   G   Y   A   V   T   S   G   S   G   E   P   G   A   P   V   V   F   G   R   T   G   P
UniRef90_F4PB80	Q   Q   W   R   I   R   D   A   F   I   I   A   S   A   M   H   N   K   V   M   D   V   A   G   W   N   I   G   D   G   A   N   V   V   M   W   D   E   N   G
UniRef90_I1C083	Q   R   W   R   I   D   E   D   G   Y   I   F   C   E   A   P   D   L   V   L   D   I   I   Q   G   A   E   D   E   D   C   V   P   V   I   L   Y   E   R   R   E
UniRef90_D6E4F1	Q   R   W   Y   L   N   G   K   V   L   I   P   K   N   A   T   G   L   C   L   D   V   S   N   G   D   S   D   A   G   T   N   A   Q   L   W   E   P   N   G
UniRef90_I7D0J4	S   L   W   L   P   Q   Q   W   Q   F   K   N   R   N   S   G   L   C   L   D   V   Y   V   G   A   S   G   T   A   Q   Q   L   D   Q   W   P   C   K   N   Q
UniRef90_H2YVG5	Q   T   W   M   F   V   L   G   G   V   I   A   S   K   L   N   G   K   C   L   E   A   V   Q   Q   A   D   G   V   Y   K   A   V   L   L   R   C   D   P   Q
UniRef90_D1MLM6	Q   F   W   K   Y   N   L   K   T   K   Q   I   T   H   D   K   N   V   C   V   E   C   N   A   K   T   M   K   L   Y   V   N   K   C   D   N
UniRef90_T1K1I5	Q   R   W   K   H   S   K   N   G   L   I   V   N   G   A   F   Q   C   L   S   A   K   R   L   K   S   M   S   K   I   K   L   V   D   C   N   P
UniRef90_H2JZF0	A   A   R   D   L   H   Y   D   V   T   R   Q   G   P   R   S   D   Q   G   L   A   L   T   P   A   A   T   D   G   S   G   A   L   V   V   K   T   R   A   A
UniRef90_E1SNZ4	Q   R   F   R   A   L   D   E   G   W   V   L   Y   T   G   T   G   D   G   S   K   V   V   D   S   H   A   R   E   S   D   I   I   Q   W   K   D   L   G
UniRef90_B4D509	Q   R   W   R   I   E   K   Y   F   K   I   T   S   Q   L   D   G   K   A   L   T   A   K   G   Q   D   N   G   A   A   V   V   I   Q   A   P   Y   D   N
UniRef90_D9TG04	Q   K   W   R   F   I   S   C   Y   K   I   Q   N   I   L   N   E   M   V   L   D   V   Y   K   K   S   K   N   N   D   D   I   E   I   C   I   R   K   F   N   G
UniRef90_A0A017KBS5	Q   K   F   T   I   T   D   G   T   I   R   P   R   D   R   A   N   E   C   I   T   V   K   S   E   G   F   L   K   S   E   Q   C   V   S
UniRef90_Q8SA43	T   Y   W   E   I   W   D   N   G   T   I   I   N   P   K   S   A   L   V   L   S   A   E   S   S   A   M   G   G   K   L   T   V   Q   K   N   D   Y
UniRef90_UPI00035A1F57	P   H   W   Q   Y   R   Q   D   K   T   L   L   H   V   P   S   G   H   C   L   T   A   S   V   D   K   D   E   L   S   V   T   P   C   S   E
UniRef90_P11140	Q   Q   W   A   L   Y   T   D   G   S   I   R   S   Q   N   T   N   N   C   L   T   S   K   D   H   K   Q   G   S   T   I   I   L   L   M   G   C   S   N   G
UniRef90_L5LNE9	Q   Q   W   T   F   G   K   N   N   R   L   Y   Q   V   S   V   G   Q   C   L   K   A   V   D   P   L   S   H   K   G   Y   V   A   M   A   I   C   D   G
UniRef90_D9X2H4	L   R   F   T   V   D   A   D   G   V   I   R   P   A   I   A   I   E   T   A   V   T   P   D   G   G   G   L   S   L   E   P   L   T   G   G
UniRef90_F4KQW3	Q   N   W   I   F   I   H   A   G   N   I   Q   N   R   Y   S   R   L   Y   L   A   V   E   G   S   S   F   E   R   G   R   P   I   I   Q   W   A   D   L   G
UniRef90_S5VNT8	L   R   F   T   V   D   P   D   G   T   I   R   P   A   I   A   I   E   T   A   V   T   P   D   G   G   D   E   L   E   D   P   L   D   G   G
UniRef90_UPI0003F491F0	Q   Q   W   D   L   S   G   E   N   I   N   K   W   D   G   Q   N   L   C   M   D   L   T   D   G   D   S   D   G   T   V   L   Q   V   W   Q   C   D   G
UniRef90_V4PRL9	Q   Q   D   W   T   F   M   E   G   N   L   L   R   T   R   N   N   L   C   G   D   I   L   R   F   E   R   R   P   G   T   P   V   I   A   W   E   C   T   A
UniRef90_UPI00047ABC15	Q   Q   W   A   I   V   E   T   G   G   Y   I   I   N   R   C   S   G   M   A   L   D   V   K   N   Y   G   T   A   N   G   T   N   V   E   Q   F   P   F   N   A
UniRef90_UPI00035F93B3	E   R   A   D   D   V   R   Y   D   L   T   V   T   V   P   R   W   D   R   T   L   A   L   J   A   A   D   T   R   P   G   S   D   I   V   A   F   R   D   R
UniRef90_U1SHS9	Q   R   F   I   L   S   S   T   R   N   K   G   T   I   L   P   T   G   N   M   T   V   S   A   A   S   G   K   A   T   L   G   A   Q   L   K   G   N   Y   K   S
UniRef90_Q8LKQ1	Q   R   W   V   F   T   N   K   G   T   I   L   N   L   K   N   G   L   V   L   D   V   V   A   Q   S   N   P   S   L   R   R   I   I   I   Y   P   A   T   G
UniRef90_S3AXB6	Q   L   W   W   L   E   P   R   G   W   I   H   N   Y   A   S   H   C   L   A   V   V   H   G   P   N   V   K   D   A   R   L   N   I   Q   P   C   Q   N
UniRef90_J4KME5	Q   R   F   E   Y   H   D   G   Y   I   C   I   A   D   N   H   D   L   V   I   G   A   W   D   S   D   V   K   I   V   Y   R   D   D   G
UniRef90_UPI000477264B	Q   Q   W   R   L   A   D   Y   V   R   L   I   S   R   H   S   N   K   A   L   E   V   Q   G   A   S   T   A   D   G   A   N   V   Q   Y   D   D   W   G   G
UniRef90_UPI0003C90910	Q   R   W   D   F   T   Q   S   G   P   I   V   S   R   D   T   G   C   L   E   L   E   L   S   K   G   A   S   G   L   R   L   V   L   Q   R   C   S   G
UniRef90_H2M5T5	T   E   W   K   Y   F   K   D   H   R   F   T   H   M   P   T   G   K   C   M   D   R   S   D   L   L   H   K   V   F   I   S   D   C   D   T
UniRef90_B1NQC0	Q   Q   W   A   L   Y   T   D   G   S   I   R   S   Q   N   T   N   N   C   L   T   S   K   E   H   K   K   G   S   L   I   V   L   M   G   C   S   N
UniRef90_E2A7V1	Q   K   W   R   H   E   G   G   L   I   R   H   T   R   I   P   V   C   V   D   S   R   Y   H   A   Q   R   G   I   T   A   E   K   C   D   S
UniRef90_W7SRR4	Q   Q   W   R   I   V   A   A   G
UniRef90_P93543	T   K   W   V   V   S   I   D   G   T   I   T   N   P   R   S   G   L   V   L   T   A   P   K   A   A   E   G   T   L   V   S   L   E   K   N   V   H
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UniRef90_Q29E48	Q   Y   W   S   Y   D   Y   H   T   Q   T   I   K   H   G   R   D   R   C   L   E   L   L   P   F   A   Q   E   L   V   V   N   K   C   N   T
UniRef90_G8NXA6	Q   E   W   T   F   T   Y   Y   N   T   I   T   N   V   A   T   G   N   V   L   D   S   V   G   E   S   T   S   V   G   A   Q   L   N   Q   T   P   L   S   G
UniRef90_UPI000262F820	E   R   Y   D   L   T   V   Q   G   Q   L   L   P   R   W   D   E   Q   L   A   L   A   S   T   N   D   D   P   G   A   D   L   V   V   K   V   R   D   R
UniRef90_T1PJG1	Q   E   W   V   Y   D   E   D   K   S   I   R   H   T   N   T   G   N   C   L   Q   R   P   S   R   E   D   P   T   T   P   L   R   P   C   N   F
UniRef90_UPI00035B2199	Q   Q   W   Q   L   E   I   S   N   V   Q   I   T   N   T   R   Y   T   A   K   P   L   A   V   I   G   C   S   S   A   Q   N   Q   A   V   L   Q   S   N   Q   Q
UniRef90_F3NES6	V   R   Y   D   F   T   P   Q   G   G   L   V   P   R   R   D   Q   D   A   P   A   P   G   G   A   P   G   Q   G   T   A   L   V   L   K   P   R   A   G
UniRef90_C7Q0Y4	S   L   W   L   P   Q   Q   Q   W   Q   F   K   N   Q   N   S   G   L   C   L   D   V   Y   G   N   G   S   T   T   G   Q   Q   L   D   Q   W   P   C   K   N   E
UniRef90_D8Q504	Q   N   W   V   L   S   R   G   S   T   V   V   K   L   A   T   N   F   C   L   D   A   G   E   D   I   R   N   G   A   T   M   K   L   W   Q   C   Y   E
UniRef90_Q8K1B9	L   H   W   Q   F   S   Q   G   S   I   Q   N   R   K   S   K   C   L   E   L   Q   E   N   S   D   M   E   G   F   Q   L   V   L   Q   K   C   S   G   S
UniRef90_L5L2A2	K   E   W   Q   Y   F   K   N   N   R   F   T   H   I   P   S   G   K   C   L   D   R   S   E   V   L   H   Q   V   F   L   S   N   C   D   S
UniRef90_UPI000471E305	D   Q   W   Q   I   Q   G   Q   I   I   N   K   L   S   G   K   S   L   N   V   A   D   N   S   L   I   S   G   G   F   I   Q   W   T   Y   G   A
UniRef90_D2WL90	Q   E   W   V   L   A   K   D   K   I   Q   D   N   N   N   P   K   I   V   V   E   I   S   D   A   N   G   E   V   D   A   Q   L   T   Q   G   E   L   K   N   Y
UniRef90_U3KRF8	I   S   W   D   V   S   V   G   G   T   I   M   N   P   N   Y   E   D   L   A   L   T   S   N   K   A   T   R   S   T   N   L   T   M   E   V   N   T   Y
UniRef90_UPI00037AA15B	Q   L   W   W   A   E   K   Q   Y   W   I   R   N   F   A   S   N   K   C   L   D   V   S   G   Y   S   T   G   N   D   T   P   L   T   I   F   D   C   S   N
UniRef90_K4QYL7	Q   Q   W   R   I   S   D   R   G   R   I   A   N   R   S   T   G   L   V   L   D   G   D   P   T   K   A   D   A   S   V   Q   V   W   A   C   T   G
UniRef90_T0S0W5	Q   K   W   T   I   D   K   S   N   R   R   V   V   H   H   D   L   C   L   D   V   D   P   T   K   A   D   A   S   V   Q   V   W   A   C   T   G
UniRef90_UPI00037E7DB1	E   T   F   F   D   L   T   V   R   G   E   L   L   R   R   D   D   S   L   V   V   A   R   A   G   R   P   G   A   A   V   V   V   T   E   R   D   G
UniRef90_L8PM32	V   R   Y   D   F   T   L   Q   G   T   I   V   P   R   F   D   Q   D   L   A   L   S   P   A   A   T   D   G   S   G   R   L   V   L   K   S   R   Q   D   D
UniRef90_UPI000371DFA9	L   M   F   V   V   D   E   D   G   L   I   R   P   V   I   A   F   V   T   A   V   T   P   D   G   G   A   G   D   G   L   S   L   E   S   A   G   G
UniRef90_F1R475	Q   T   W   S   A   Q   M   S   G   A   I   A   S   T   F   P   G   M   V   L   D   I   K   G   G   K   T   Y   D   K   E   H   L   V   I   R   E   E   N   E
UniRef90_K6XGT9	Q   R   W   N   V   D   G   A   R   V   L   K   N   L   A   S   T   F   S   C   L   D   D   S   N   A   G   R   K   V   Y   T   L   D   C   N   G
UniRef90_L8PEL7	L   M   F   W   V   D   S   R   G   A   I   H   P   V   I   A   P   D   H   A   L   T   P   S   A   D   R   S   L   S   L   V   G   D   A   G
UniRef90_E1GA12	E   D   K   W   T   L   K   D   G   K   L   R   N   E   D   T   D   L   C   L   D   V   L   G   L   T   K   N   D   N   I   V   A   R   S   C   T   D
UniRef90_Q4RQI3	Q   K   W   Q   I   K   D   V   S   S   H   F   S   F   K   T   S   C   W   A   L   N   K   C   L   S   A   R   Q   D   H   P   F   L   A   A   C   N   P
UniRef90_F6R554	R   E   W   D   H   D   I   N   K   S   V   R   H   T   T   S   G   G   K   C   L   E   R   G   E   L   V   H   K   V   F   L   A   L   C   D   N
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UniRef90_C9ZGD5	Q   Q   W   Q   I   T   H   R   G   Q   I   A   N   R   S   T   G   L   V   L   D   G   G   T   V   A   S   G   S   T   A   K   Q   W   T   W   Q   Q

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

50                    60                    70                    80

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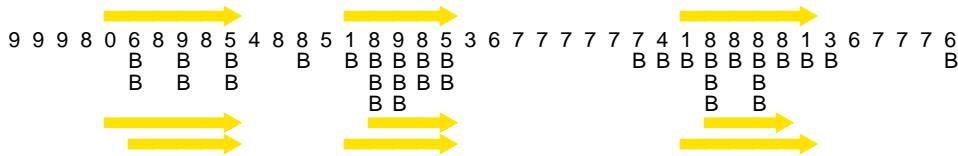
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 UniRef90\_H2PH55 Q L W K Y R K  
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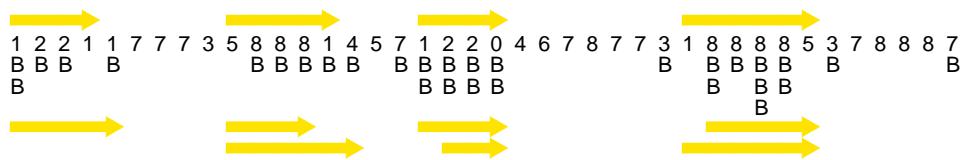
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UniRef90_X6MUA1	F F F F F F G C M F Y I C M Y V Y K Y I S G E S K S D D A A V L Q W K F E			
UniRef90_G5BMM4	Q F W C M K S D G R I Y S K K P N L V L D I K G G S Q Y D Q N H I I L N T V N E			
UniRef90UPI000361BA63	Q M W R Q K S Y Y R F V N V A T G K C L D N T A G G T T L G N K I Q I W S C S S			
UniRef90_W5JZ78	K Y W D F K Q G H A L K N R D T G R C L E I A L G P D G Y H Q L Y I Q D C S G			
UniRef90_C0EEC1	Q L W T V T K S G D G F I K I A G K S G G Q L V S E S G E S S N I H L W E D V A			
UniRef90_C7PM48	I V N K G N S L S V A G G G S T S N G A Q V I Q E T T A S			
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UniRef90_W4GV85	Q Q W N Y D G N A K L R H A T G F C L D	M G N A N G G I P H L W A C H D		
UniRef90_D9VQE0	Q F W I V F R H D D P G V V S I V A C I S G I P F A D G G R V R Q G E D T D			

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UniRef90_C0EEC1	D N K Q Y W T <b>I</b> T
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UniRef90_I4W3Y5	G K H Q <b>C</b> W K F
UniRef90_V2WV50	A Q N Q Q W Q <b>I</b> T
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UniRef90_H0YAK0	
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