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QUERY	A	V	L	P	R	A	R	G	R	A	D	I	K	K	R	T	S	H	I	T	V	I	L	G	E	K	H	G	K					
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UniRef90_F8AA42	R	L	K	P	R	A	F	G	R	A	D	R	I	L	R	K	R	T	S	H	I	T	V	V	V	G	E	E	K	P	E	K		
UniRef90_F0SY13	T	M	K	P	R	A	M	G	R	A	D	R	I	R	K	R	S	S	H	I	T	V	V	V	G	E	D	K	K	K	K			
UniRef90_B0U0Y4	T	M	K	R	R	A	K	G	R	G	N	R	I	L	L	K	R	T	S	H	I	T	V	K	V	A	E	E	K	N	A	K		
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UniRef90_E6SLC6	R	W	R	P	R	A	R	G	R	A	F	P	I	L	K	P	T	S	H	I	V	T	V	V	V	A	E	R	E	R	K			
UniRef90_K9XZW8	R	Y	R	P	R	A	Q	G	R	A	Y	Q	I	L	R	K	P	T	S	H	I	T	V	V	V	A	E	R	E	R	K			
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UniRef90_D3FEV0	T	L	K	P	R	A	M	G	R	A	T	P	I	R	K	R	T	S	H	I	L	T	I	L	L	T	P	K	E	E	K			
UniRef90_UPI00041C36A7	T	L	K	P	R	A	M	G	R	A	S	R	I	N	K	R	T	S	H	I	T	V	V	L	T	E	K	K	K	K				
UniRef90_Q110B2	C	L	R	P	R	A	Q	G	R	A	Y	K	I	R	K	P	T	S	H	I	T	V	A	V	A	E	S	R	E	K	K			
UniRef90_F8AV21	T	L	K	P	R	A	Q	G	R	A	Y	R	I	R	K	R	T	S	H	I	T	V	V	V	A	E	S	R	E	K	K			
UniRef90_D3QB83	T	M	K	P	R	A	H	G	R	A	Y	R	I	R	K	R	T	S	H	I	T	V	V	V	E	S	E	V	Q	A	E	A		
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UniRef90_U1WVU6	T	L	K	P	R	A	M	G	R	A	S	R	I	N	K	R	T	S	H	I	V	T	V	I	L	S	E	E	K	K	K	K		
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UniRef90_I3BWT9	T	M	K	P	R	A	K	G	R	A	N	R	I	L	K	R	T	S	H	I	T	V	A	V	A	G	E	K	E	K	K	K		
UniRef90_F3L619	T	M	K	P	R	A	K	G	R	A	D	R	I	L	L	K	R	T	S	H	I	T	V	K	V	A	D	D	G	E	G	G		
UniRef90_A4J116	R	M	M	P	R	A	M	G	R	A	D	I	K	R	R	T	S	H	I	T	V	V	V	V	A	E	S	D	K	K	K	K		
UniRef90_K8E7F9	T	M	K	P	R	A	K	G	S	A	S	P	I	M	K	R	T	S	H	I	T	V	V	V	V	S	E	K	K	K	K	K		
UniRef90_UPI00036C22D5	T	W	K	P	R	A	F	G	R	A	Y	L	I	R	K	R	T	S	H	I	T	I	V	V	V	S	E	A	E	E	E	E		
UniRef90_UPI0003B70944	S	L	K	P	R	A	Q	G	R	A	Y	R	I	N	K	R	T	S	H	I	L	T	V	Q	L	T	P	K	E	E	E	E		
UniRef90_E3T2H2	T	L	K	P	R	A	Q	G	R	A	Y	P	I	H	K	P	T	S	H	I	T	I	V	V	V	K	G	K	K	K	K	K		
UniRef90_A0PXV1	T	L	K	P	R	A	Q	G	R	A	Y	S	I	M	K	R	T	S	H	I	V	T	L	V	V	K	E	R	N	K	K	K		
UniRef90_D1J747	V	L	R	P	R	A	Q	G	R	G	Y	Q	I	N	K	P	T	S	H	I	T	I	L	V	V	E	S	E	T	N	N	N		
UniRef90_F5SIB9	T	M	K	P	R	A	Q	G	R	A	S	R	I	N	K	R	T	S	H	I	T	V	V	V	V	K	E	T	N	K	K	K		
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UniRef90_U5UF71	T	L	K	P	R	A	K	G	S	A	S	P	I	N	K	R	T	S	H	I	T	V	V	V	A	E	K	E	K	K	K	K		
UniRef90_R5VLX8	L	M	K	P	R	A	Q	G	R	A	F	R	I	Y	K	R	T	S	H	I	T	V	V	L	V	K	E	E	E	E	E	E		
UniRef90_Q890P2	T	L	K	P	H	A	Q	G	R	A	F	R	I	N	K	R	T	S	H	I	V	T	L	V	V	K	E	R	E	R	E	E		
UniRef90_UPI0002F88E4B	V	L	K	P	R	A	Q	G	R	A	Y	R	I	R	K	P	T	S	H	I	T	L	A	V	A	E	R	E	R	E	E	E		
UniRef90_Q1H4N2	V	L	K	R	R	A	K	G	R	A	G	R	I	J	K	P	T	S	H	I	T	V	T	V	V	A	E	R	E	R	E	E		
UniRef90_UPI00047D103F	I	I	K	P	R	A	Q	G	R	A	Y	R	I	N	K	R	T	S	H	I	V	T	L	V	V	A	E	K	Q	K	K	K		
UniRef90_D4W4Y5	T	L	K	P	R	A	Q	G	R	A	S	Q	I	N	K	R	T	S	H	I	T	V	V	V	V	A	E	R	K	K	K	K		
UniRef90_R6TIU1	T	L	K	P	R	A	Q	G	R	G	D	R	I	L	K	R	T	S	H	I	T	V	V	V	V	A	R	E	K	E	D	K	K	
UniRef90_A9B417	V	L	K	P	R	A	R	G	R	G	D	R	I	L	L	K	R	S	S	H	I	T	V	I	V	D	D	D	G	E	E	E	E	
UniRef90_Q1NPK3	M	L	K	P	M	A	M	G	R	A	G	R	I	L	K	R	S	S	H	I	T	V	V	L	V	D	D	E	Q	K	K	K		
UniRef90_E3W0Z0	T	R	K	P	Q	A	R	G	R	V	H	P	I	R	R	R	S	S	H	I	T	V	V	L	K	D	K	K	K	K	K	K		
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UniRef90_C5NW58	T	L	K	P	R	A	K	G	A	S	S	S	I	N	K	R	T	S	H	I	T	I	V	L	V	S	D	N	K	K	K	K		
UniRef90_D1BP58	T	L	K	P	R	S	R	G	Q	A	F	K	I	L	K	R	T	S	H	I	V	T	V	V	V	K	E	R	E	E	E	E		
UniRef90_UPI00036F0806	T	M	K	P	R	A	K	G	S	A	S	P	I	N	K	R	T	S	H	I	T	V	V	V	V	A	E	K	E	E	E	E		
UniRef90_W0RYG7	V	M	K	P	R	A	Q	G	R	A	Y	K	I	L	K	P	T	S	H	I	N	I	S	V	V	S	E	K	E	E	E	E		
UniRef90_UPI00024903DF	T	L	K	P	R	A	K	G	S	A	S	P	I	N	K	R	T	S	H	I	T	V	V	V	V	S	E	K	E	E	E	E		
UniRef90_V6IU86	T	L	K	P	R	A	Q	G	R	A	S	K	I	N	K	R	T	S	H	I	T	I	I	V	V	S	E	K	K	K	K	K		
UniRef90_E4NCP2	T	L	K	P	R	A	Q	G	R	A	Y	R	I	R	K	R	T	S	H	I	T	V	V	V	V	S	S	K	E	G	G	G		
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UniRef90_J0N302	I	L	K	P	R	A	Q	G	R	A	F	R	I	L	L	K	R	T	S	H	I	V	T	L	V	L	K	E	K	E	E	E		
UniRef90_D7CJL8	R	L	K	P	R	A	Y	G	R	A	D	V	M	K	R	T	S	H	I	T	V	V	V	V	K	E	K	E	V	R	E	E		
UniRef90_I1N5M5	T	M	K	P	V	A	R	G	R	A	H	P	I	L	K	R	T	S	H	I	T	I	T	V	K	E	E	E	E	E	E	E		
UniRef90_Q0ABH0	M	L	K	P	R	A	K	G	R	A	N	R	I	L	L	K	R	T	S	H	I	T	V	T	V	A	E	Q	Q	E	E	E		
UniRef90_M3USG6	T	L	K	P	R	A	Q	G	R	A	F	R	I	R	K	R	T	S	H	I	T	V	V	V	V	S	A	A	E	N	N	N		
UniRef90_F0JL09	T	W	K	P	R	A	M	G	R	A	Y	R	V	V	K	R	T	S	H	I	T	I	V	V	V	K	E	R	E	E	E	E		
UniRef90_B0PCV7	T	M	K	P	R	A	Q	G	R	A	F	R	V	L	K	R	T	S	H	I	V	F	I	T	V	K	E	R	E	E	E	E		
UniRef90_UPI0003AD42D5	T	L	K	P	R	A	Q	G	R	A	Y	R	I	N	K	R	T	S	H	I	T	V	V	V	V	E	S	R	D	D	D	D		
UniRef90_A0A024B3Z0	V	L	K	P	R	A	Q	G	R	A	F	P	I	R	K	P	T	S	H	I	T	I	V	V	V	K	N	R	E	K	E	E		
UniRef90_R5JIY1	T	M	K	P	R	A	Q	G	R	A	T	A	I	R	K	R	T	S	H	I	E	V	V	V	V	K	E	R	E	N	E	E		
UniRef90_A7X5F6	T	L	K	P	R	A	Q	G	R	A	S	A	I	N	K	R	T	S	H	I	T	I	V	V	V	S	D	G	K	E	E	E		
UniRef90_UPI00036D2D2F	T	M	K	P	R	A	M	G	R	A	S	R	I	N	K	R	T	S	H	I	T	L	V	V	V	S	E	K	E	E	E	E		
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UniRef90_Q31IX7	I	M	K	R	R	A	K	G	R	G	N	R	I	L	K	R	I	S	H	I	T	V	T	V	V	G	D	K	K	K	K	K		
UniRef90_A0A023H9W7	K	L	K	P	R	A	Q	G	R	A	F	K	I	L	K	P	T	S	H	I	T	I	V	M	K	E	E	E	E	E	E	E		
UniRef90_H9UD92	R	M	K	P	R	G	R	G	R	A	D	I	Q	K	R	M	S	H	I	T	V	V	V	V	R	D	R	E	K	E	E	E		
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UniRef90_I8I5W9	V	M	K	P	R	A	K	G	R	A	D	R	I	S	K	P	T	S	H	I	V	T	I	R	V	S	D	E	E	E	E	E		
UniRef90_E3H922	V	L																																

UniRef90_K6VRZ1 MEAKAQAARNVLRVITPMKARRRVDLIRRGKRAVAALAVLQFASN
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UniRef90_UPI0003828CF0	V L K P R A Q G R A S K I	R K P T S H H I	T V V V L T V V L A V K
UniRef90_UPI000479063A	T L K P R A H G R A Y E I	L K R T S H H I	T L I V L T V V L S D
UniRef90_UPI0004276FBD	T L K P R A Q G R A G R I	N K R T S H H I	T V V V V T V V V S
UniRef90_H9A9L2	R L F P R A K G K T N K I	K K R T S H H I	T V V V T V V V T P K E S
UniRef90_T1D1P9	V L K R R A K G R G N R I	V K P T C H I	I Y V T V V A D E E D
UniRef90_R6BZ44	T L R P A A K G S A V R I	R K R T S H H I	T I V L K E R D
UniRef90_E9UXX7	T M K P R A Q G R A T R I	N K R T S H H I	T L V V K E R G G K
UniRef90_UPI00047A6F55	R Y K P R A R G R A D V M	R R R T S H H I	T V V V K E R
UniRef90_UPI0003B6F0DF	T L K P R A R G S A N L L	K K R T S H H I	T I V V G E K G A K
UniRef90_UPI00047CB854	T M K P R A H G R A S R I	N K R T C H I	T V I V D D K
UniRef90_A6UZJ3	S L K P R A K G R A D R I	V K R S C H I	T V K V A D K
UniRef90_A6TWH7	T M K P R A M G R A T T I	R K R T S H H I	G I V V K E K
UniRef90_B0I2Q0	K F K P R A R G R S Y P I	N K R P T C H I	T I V L K K R S K E
UniRef90_W9GK10	T M K P R A Q G R A G R I	N K R T S H H I	T V V V A E
UniRef90_B1YGV5	T L K P R A M G R A S R I	N K R T S H H I	H I V V S E K
UniRef90_S3XXP4	T M K P R A Q G R A F Q I	K K R T S H H I	T V V V A P S K K K
UniRef90_UPI00036219CA	T L K P R A Q G R A T R I	L K R T S H H I	T V V L A D K E G
UniRef90_C0E8N8	I L K P R A Q G R A F R V	F K R T S H H I	T L S V S E K E
UniRef90_A0L5X8	S M K P R A R G R A T R I	L K R T S H H I	T V A V
UniRef90_C4K7B3	T M K P R A K G R A D R L	L K R T S H H I	T V V V S D
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UniRef90_Q5ZYN8	T L K P R A K G R A N R I	C K R T C H I	T I K V S D E E
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UniRef90_UPI0004251047	T M K P R A Q G R A T K I	N K R T S H H I	T V V V
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UniRef90_B0I2R6	K L R P R A R G R S Y P I	K R P T C H I	T I L L R D K
UniRef90_Q9MUU1	I L K P R A Q G R G F P I	R K P T C Q I	S I T V
UniRef90_B8IYH7	T W K P R A Q G R A T K I	N K R T S H H I	T V I L A E G Q
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UniRef90_R5GT30	T L K P K D H G R A H R I	L K R T S N I	V L V V K E A E
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UniRef90_K4KKY0	T L K P R A R G R G Y L I	K R P T C R I	T V V L K D
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UniRef90_F5YYL4	T I K P R A Q G R A Y R I	R R R T S H H I	T V V V S R P S K
UniRef90_F7YY14	R L K R R G R G R A D I	Q K R M C H I	T V K L K P I E T K
UniRef90_R7BSH2	T I K P R A K G S A S R I	N K R T S H H I	T V I V S T R E
UniRef90_L8DKR9	T L K P R A Q G R A F R I	R K R T S H H I	T V I V E
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UniRef90_G1WKN2	T L K P R A K G S A S R I	L K R T S H H I	T I V V A P R K
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L K A A G L I H K A L L Q S S A V A N A E N N N E L D V D V K N I V D H G L L
U n i R e f 9 0 _ U P I 0 0 0 3 B 6 0 0 7 F
K Y A A R A I E K L L K S S A L A N A Q H N H G A K N I D L F V K E A F V D D E G G P P
U n i R e f 9 0 _ D 5 M K 3 7
S L A T E A I Q K C L L R S S A A N A E N N N H G M S P S D E L W V S N A I V D D E G G F P
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Y Q A S Y P I F K L L Y S A V A N A S H N M G L N E A D S F I S S E A K V N R S K P
U n i R e f 9 0 _ U 6 A 3 K 7
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U n i R e f 9 0 _ R 5 V U W 1
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U n i R e f 9 0 _ E 0 T K 3 7
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U n i R e f 9 0 _ U 7 J L P 8
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U n i R e f 9 0 _ M 4 I T P 3
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UniRef90_Q06GM0	R L K P R A R G R S Y L I	K K P T C H I T I V L	K D R
UniRef90_K2D8A7	R M R R R A K G R G C R I	L K R T S H I T N V V	S D G K
UniRef90_UPI000478E351	T M K P R A Q G R A Y R I	E K R T S H I T I V L	S D E R
UniRef90_D0WJ04	T M K P R A K G S A S P I	R K R T S H I T V I V	A P R E
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UniRef90_D2PU78	T L K P R A Q G R A T R I	D K R T S H I T V V V	G P R
UniRef90_R5E796	T L R R R A K G R G A R I	G K Q T C H I Y V T V	G D T P A K
UniRef90_U2V0S0	T L K P R A K G S A S R I	N K R T S H I T I V V	A
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UniRef90_A9QC86	S L K R Q A R G C S Y P I	K R P T C H I T I V M	K D R
UniRef90_B0U5K4	M L K R R A K G R S S R I	V K R S S H I T V V V	R
UniRef90_UPI0002DECD09	T L K P R S R G Q S F S I	F K R T S H I S V V L	R P K H N
UniRef90_C8WJK7	T L K P R A K G S A S R I	R K R T S H I T I V V	A P R E
UniRef90_A9BHA0	R L K P R S H G R A D L I	Q K R M S H I Y I T V	R D K S A
UniRef90_UPI00042888ED	T L K R R A K G R G N R I	U P I T A H H I Y I T V	R
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UniRef90_D5EDY5	R M K P V S M G R A H P Y	Q H R T S H I V T I I V	A E R
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UniRef90_R5VUW1	T M K P R A R G M A Y R I	E K R M C H I T I I L	N E R
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UniRef90_E3PTV9	T L K P R A Q G R A T G I	R K R T S H I G V V V	R E R
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UniRef90_V9TVL7	T M K P R A R G L L G R I	K R P F S H I T V I V	S E
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UniRef90_F4KWU8	R F R P A P H G R A H R I	R K R S N H V T I I V	E N R
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UniRef90_D7BKA5	T M K P R A Q G R A N R I	L K R T S H I T V I V	G D E K
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UniRef90_Q8IKG3	Y	T	K	K	R	A	R	G	K	T	D	I	I	R	E	P	H	T	H	I	R	V	V	L	E								
UniRef90_E5SPD4	I	V	K	R	H	A	L	E	R	W	G	I	V	K	Y	R	Y	S	N	V	F	V	R	L	E								
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UniRef90_M5VQV2	R	L	Y	H	G	K	S	N	N	G	T	K	V	R	P	N	N	Q	L	M	V	T	L	R	E								
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UniRef90_S7QIQ8	R	S	Q	K	R	G	R	G	R	F	G	I	K	V	H	P	D	S	R	M	H	V	V	L	K	E	G	E	T				
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UniRef90_Q09MB0																																	
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UniRef90_W4KFG3	R	L	E	P	R	G	R	G	H	G	I	R	V	H	P	D	S	R	M	S	V	I	L	K	E	G	K	T	R				
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UniRef90_K2EWL3	K	L	K	P	G	S	R	G	N	A	K	P	I	N	R	R	M	S	H	I	K	I	L	E	A	K	T	V	K				
UniRef90_T1CVY7	V	M	K	R	R	A	K	G	R	G	A	R	I	L	K	R	S	S	H	I	T	V	V	V									
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UniRef90_S9XBM8	Y	I	K	K	R	G	R	G	H	A	V	E	R	R	P	R	V	R	V	T	V	L	K	D	E								
UniRef90_I3V9N9	R	L	F	P	R	A	K	G	K	T	D	K	R	K	R	T	S	H	I	T	I	F	V	S									
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UniRef90_N6VZ61	T	L	K	P	R	A	F	G	R	A	T	P	K	N	Q	E	T	V	H	V	Q	V	L	E	E								
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UniRef90_M7TAY8 K R I A R D V I K G L E I A Q N E A I V G R G M
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UniRef90_G7Y9S8	R L Y K K G V R G Q L S A K N Y H Y A N L Y I R L R E		
UniRef90_Q75E09	Q F L K R G R G R Q G V I V H P R V H I R C I L K T K		
UniRef90_U5H6E6	S L K R K G R G R F G T K H H N S A K L H V L L A E G M T E		
UniRef90_F8AM62	T I K P R A F G R A S P K F Q E T V H I Q V I L S E E		
UniRef90_UPI00025564CB	S L K R R A K G R A D R I T K R T S H V I T L V V S D K		
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UniRef90_B8GKD8	A F F P R A M G R A T P K R R E T V N L E I I V R E V E		
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UniRef90_A4HZW1	T D K Q R S R G Y A W K T K K S S H L L T L A E		
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UniRef90_F6Q3N9					
UniRef90_G1QEF8					
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UniRef90_Q8ZWH7		A R A Y A P E Q R M S W K K S V E V A R F I K G M T L K Q A K T W L E F K K			



