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QUERY

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UniRef90_UPI00038184E1	L	D	H	I	E	R	N	W	T	D	M	R	P	K	S	L	I	A	D	A	M	D
UniRef90_F8B101	L	D	Y	I	E	T	Y	W	T	D	M	R	P	K	S	L	I	E	A	M	E	
UniRef90_U5WMB4	L	Q	Y	V	E	E	H	W	T	D	M	R	P	K	S	L	I	R	E	A	V	N
UniRef90_L8PJV1	L	A	Y	V	E	E	S	W	T	D	M	R	P	K	S	L	I	V	D	A	M	D
UniRef90_S7SZQ8	V	E	Y	V	D	Q	H	W	T	D	L	R	P	K	S	L	I	R	E	K	L	
UniRef90_S2YF11	L	D	H	I	E	R	H	W	T	D	M	R	P	R	S	L	I	A	E	A	M	
UniRef90_V8CY24	L	D	Y	V	D	E	H	W	K	D	M	R	P	K	S	L	I	R	D	A	M	D
UniRef90_UPI0003632BAD	L	D	Y	V	E	T	H	W	T	D	M	R	P	K	S	L	I	A	A	M	E	
UniRef90_A0A017T3M0	L	A	Y	I	E	V	W	T	D	M	R	P	L	S	L	I	R	K	K	M	E	
UniRef90_UPI00035DCFE5	L	R	Y	V	E	T	H	W	T	D	L	R	P	R	S	L	I	R	L	A	M	E
UniRef90_A8CF84	L	A	Y	V	E	Q	N	W	T	D	M	R	P	K	S	L	I	R	E	A	M	
UniRef90_V2H0L5	L	E	Y	I	E	T	H	W	T	D	M	R	P	A	S	L	I	R	A	A	M	E
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UniRef90_G2GEQ8	L	E	Y	I	E	T	H	W	T	D	L	R	P	A	S	L	I	R	R	A	M	D
UniRef90_L1LW18	L	A	Y	I	E	E	V	W	T	D	M	R	P	L	S	L	I	R	Q	K	M	D
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UniRef90_UPI00037DCA38	L	D	Y	V	E	R	N	W	T	D	L	R	P	K	S	L	R	R	E	A
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UniRef90_UPI0001FFEA33	L	E	H	V	E	Q	H	W	T	D	L	R	P	R	S	L	R	R	E	R
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UniRef90_D2BF44	L	E	H	I	E	A	N	W	T	D	M	R	P	K	S	L	I	E		
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UniRef90_UPI00036562AE	L	A	Y	V	E	R	T	W	T	D	L	R	P	R	T	L	R	A	A	M
UniRef90_G5D8W9	L	D	Y	V	E	Q	N	W	T	D	M	R	P	A	S	L	A	A	L	D
UniRef90_S5TUB6	I	A	Y	V	D	D	N	W	V	D	M	R	P	K	S	L	R	R	E	A
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UniRef90_K4RA61	L	D	Y	V	E	E	H	W	T	D	L	R	P	A	S	L	V	R	A	A
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UniRef90_D7C289	L	A	Y	I	E	K	H	W	T	D	M	R	P	T	S	L	V	A	A	M
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UniRef90_S4A4M6	L	D	H	V	E	A	N	W	T	D	L	R	P	K	S	L	Q	E	A	
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UniRef90_W0H5M6	L	S	Y	I	E	K	V	W	T	D	M	R	P	L	S	L	R	R	Q	A
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UniRef90_S4AWD6	L	A	H	I	K	E	V	W	T	D	M	R	P	K	S	L	R	R	E	R
UniRef90_A9GMB7	L	Q	H	I	E	K	V	W	T	D	M	R	P	L	S	L	R	R	Q	A
UniRef90_W8B2Z3	L	E	Y	V	E	A	H	W	T	D	M	R	P	A	S	L	V	Q	A	M
UniRef90_U5DQY1	L	D	Y	I	E	E	N	W	T	D	M	R	P	L	S	L	R	R	Q	Q
UniRef90_G4HZB1	V	Q	Y	V	E	Q	N	W	S	D	M	R	P	K	S	L	R			
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UniRef90_H0BQH8	L	D	H	I	E	K	H	W	T	D	M	R	P	A	S	L	I	A	D	M
UniRef90_D9UHH1	L	E	Y	V	E	R	N	W	T	D	M	R	P	A	S	L	I	R	A	M
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UniRef90_F3ZG02	A	D	Y	I	E	T	H	W	T	D	M	R	P	K	S	L	V	D		
UniRef90_D0LMA9	L	A	W	I	E	D	H	W	T	D	M	R	P	L	S	L	R	R	Q	A
UniRef90_H8IWP9	L	E	Y	I	E	Q	N	W	P	D	L	R	P	K	T	L	R	R	N	R
UniRef90_U7GGN4	V	D	Y	V	N	A	N	W	T	D	L	R	P	K	S	L	R	R	D	A
UniRef90_H0JZ69	M	D	Y	I	G	S	H	V	W	T	D	M	R	P	A	S	L	R	A	R
UniRef90_J7LOT6	L	R	Y	V	E	E	N	W	T	D	L	R	P	K	S	L				
UniRef90_Q45R81	L	D	Y	I	E	A	N	W	T	D	M	R	P	Q	S	L	I	D	A	M
UniRef90_UPI00036B296F	L	D	H	I	T	E	H	W	T	D	M	R	P	R	S	L	V	L	S	M
UniRef90_D7BZL3	L	A	Y	V	E	R	T	W	T	D	L	R	P	K	S	L	I	D	A	
UniRef90_UPI00034AB330	L	E	Y	V	N	E	Q	W	T	D	M	R	P	L	S	L	Q	R	A	M
UniRef90_UPI00035DD5B4	L	A	H	I	E	T	V	W	T	D	M	R	P	L	S	L	R	R	A	L
UniRef90_UPI00047AA348	L	A	H	V	E	T	V	W	T	D	M	R	P	L	S	L	R	R	A	M
UniRef90_UPI00029AE943	V	E	Y	I	N	T	H	W	T	D	M	R	P	K	S	L	V	E	A	M
UniRef90_E4NJZ8	L	D	V	I	E	R	V	W	T	D	M	R	P	A	G	L	V	A	A	M
UniRef90_R9UR22	L	D	W	I	E	N	H	W	T	D	M	R	P	K	S	L	A	A	R	L
UniRef90_UPI00035EB63F	L	A	H	I	G	E	V	W	T	D	M	R	P	L	S	L	R	Q	R	M
UniRef90_S5UJW6	L	D	F	V	E	R	N	W	T	D	M	R	P	A	S	L	V	A	A	L
UniRef90_A0A022MN24	L	E	Y	V	E	T	H	W	T	D	L	R	P	R	S	L	A	E	A	A
UniRef90_L8EYE6	L	D	Y	V	E	E	H	W	T	D	M	R	P	R	S	L	A	E	A	M
UniRef90_H2K0W6	S	A	Y	V	D	E	V	W	T	D	M	R	P	K	S	L	R	R	E	R
UniRef90_B9UJ10	L	D	H	I	E	R	V	W	T	D	M	R	P	L	S	L	R	R	L	F
UniRef90_D8I011	L	D	H	V	E	A	N	W	T	D	M	R	P	K	S	L	A	D	A	M
UniRef90_G8JYX6	L	E	Y	V	D	T	H	W	T	D	L	R	P	K	S	L				
UniRef90_W7IP79	L	A	Y	V	E	E	H	W	T	D	L	R	P	A	S	L	V	R	Q	
UniRef90_Q2Y7Y9	L	E	H	V	E	K	V	W	T	D	M	R	P	L	S	L	R	R	F	M

UniRef90_UPI00047E7334	V E F I	E T N W T	D M R P	N G L	V E A M
UniRef90_UPI000362FF77	L D Y I	H R H W T	D L R P	R S L	R Q A
UniRef90_J3DKZ6	L A Y I	D A H W T	D M R P	L S L	R R K A M E
UniRef90_UPI00036A8E3E	L D Y I	E E V W T	D M R P	L S L	R R N Y M E
UniRef90_UPI00037DA6D5	L D H V	E R V W T	D M R P	R S L	R R E A M
UniRef90_D9XUN5	V D F I	E R E W T	D M R P	T S L	V E A L E
UniRef90_W5TR49	L D Y V	E S H W T	D M R P	T S L	L I E A M
UniRef90_G6EHJ3	M A W I	D E N W T	D M R P	L S L	L V R E M D
UniRef90_I4MYN3	L A F I	E Q V W T	D M R P	L S L	R R L H M E
UniRef90_W7ISS7	L E H I	E E V W T	D M R P	R S L	R R E R M
UniRef90_UPI00038202A3	L D Y I	K D V W T	D M R P	L S L	R R K A M
UniRef90_F8JJQ1	L A H I	E K T W T	D M R P	L S L	R R S A P E
UniRef90_UPI00036F19FA	L A Y I	N E N W T	D M R P	R S V	V E A M
UniRef90_UPI0003638ECE	L D Y V	N T H W T	D L R P	R S L	R E A L
UniRef90_L1KJX1	L E Y V	E R E W T	D L R P	G S L	V R A M
UniRef90_UPI0003818B45	L K Y V	E Q N W T	D M R P	T S L	V T A M E
UniRef90_UPI0003F63296	T T H I	D Q V W T	D M R P	R S L	R E H M D
UniRef90_UPI00037B4570	G A Y I	E A N W T	D M R P	R S L	L A A R
UniRef90_W1J800	I A Y I	E E H W V D	M R P	A S L	L R N R
UniRef90_K0JVK5	V E Y V	E R E W T	D L R P	R S L	V E A
UniRef90_UPI0003785790	L R Y V	N Q I W T	D L R P	R S T	R E A L
UniRef90_L8ENU0	V D Y V	N E T W T	D M R P	K S L	V A D A M D
UniRef90_G8MJF1	V A Y I	N E N W T	D I R P	A S L	L R R
UniRef90_UPI00016A6811	L A H I	E T V W T	D M R P	A S L	R R R H L
UniRef90_F2RDR1	L A Y V	E E H W T	D M R P	R S L	R R E R
UniRef90_H6N124	L A Y V	E D N W R	D M R P	A S L	I A A M
UniRef90_Z5X8G7	V E F V	E Q N W A	D I R P	K S L	R A A
UniRef90_A4FD49	L D H I	E S A W T	D M R P	A S L	V D R A E
UniRef90_I3CVG8	L Q H I	E T V W T	D M R P	R S L	R E F M
UniRef90_U2ZL66	L A Y I	A S V W T	D M R P	R S L	R E A M D
UniRef90_D8HX16	L A H I	D A V W T	D M R P	R S L	R R E R M
UniRef90_A4KVL2	L A Y I	E Q A W T	D M R P	L S L	R R S M
UniRef90_V4IUQ8	A E Y V	D T H W T	D M R P	A S L	L
UniRef90_R4UAT0	V E Y V	E A N W V D	M R P	K S L	R D L M
UniRef90_UPI0003775808	L A Y V	E E H W T	D L R P	A S L	L A A Q Q D
UniRef90_R4SV55	M D H V	D E V W T	D M R P	R S L	R R E R M
UniRef90_S3ZL75	L A Y V	E Q H W S	D M R P	T S L	R D R
UniRef90_UPI000367AB83	L E H I	E N H W T	D M R P	R S L	V A A T E
UniRef90_A0QH54	L Q Y I	E E S W P	D I R A	K S L	R R D T L
UniRef90_UPI000378BBFA	L E Y V	E R T W T	D M R P	R S L	R A E A D
UniRef90_M3BP28	V D Y V	E R H W T	D M R P	A S L	L S R R
UniRef90_W71V85	L A Y V	E A N W T	D M R P	K S L	V A Q
UniRef90_UPI000465B556	L D Y V	D T H W T	D M R P	A S L	L I A
UniRef90_S5TLJ0	L N H I	E E N W V D	M R P	L S L	L V R A M
UniRef90_U5YQN9	V A Y V	D A H W T	D M R P	R S L	L A R A M D
UniRef90_D7AW39	L E Y V	E R E W T	D L R P	A S L	L I A A Q E
UniRef90_L8EL23	L D H V	S E R W T	D M R P	K S L	L V E A M E
UniRef90_UPI00031520E6	L E Y I	K E V W T	D M R P	L S L	R R K K M E
UniRef90_L0DQD1	L A H I	E A V W T	D M R P	L S L	R R R A M D
UniRef90_UPI00036E09D4	L D Y I	A Q V W T	D M R P	L S L	R R R A M D
UniRef90_I0L9R5	L D H V	E R V W V D	M R P	A S L	R R E H L D
UniRef90_C6WLN3	L E W I	D A N W T	D M R P	L S L	R R E A L
UniRef90_UPI00036C4D24	L E Y I	A A Q W T	D M R P	L S L	L V R A M E
UniRef90_C7Q932	L A Y V	E E H W T	D L R P	A S L	A R
UniRef90_UPI00036CBE9E	L D Y I	E E N W T	D L R P	A S L	
UniRef90_C6CCI6	L A Y I	E Q V W T	D M R P	L S L	R R K H M D
UniRef90_UPI00016A7EEC	I A Y V	D E V W T	D M R P	L S L	R R R F L E
UniRef90_U5DH03	L D Y I	K T V W T	D M R P	L S L	R R R K M D
UniRef90_NOAJJ3	L D Y I	E K T W I	D M R P	L S L	R R R A L E
UniRef90_C8XGT9	L A H I	T E V W T	D M R P	L S L	R R R R M D
UniRef90_F8K3D1	L D F I	A A N W T	D M R P	K S L	J A A A M D
UniRef90_X2CTS3	P E Y V	A R N R T	D L R P	R S P	R E A M
UniRef90_I2EY94	L E Y I	E Q A W T	D M S P	L S L	R R K K M
UniRef90_H0RVV9	L K H I	D E V W T	D M R P	L S L	R R R R M
UniRef90_L1MBU1	L D Y V	N E N W T	D I L P	L S L	A R K A
UniRef90_UPI00035D9DEB	L A Y V	E S N W T	D L R P	A N L	V A A Q
UniRef90_UPI000375659E	L E Y I	K E V W T	D M R P	S L	R R R Q M E
UniRef90_S7WGZ7	L D H I	E K V W T	D M R P	L S L	R R K K T E
UniRef90_A3YGI2	L S W I	K D N W T	D M R P	K S L	L Q D A M
UniRef90_A4FE39	V D Y V	E Q N W T	D L R P	R S L	R E A
UniRef90_UPI0004064F35	Q E Y I	S S N W A	D L R P	N S L	K P A L
UniRef90_F4FD52	L A Y V	E S S W T	D I R P	R S L	V A Q M
UniRef90_W2EYF8	L T Y I	A E N W T	D L R P	K S L	V E S M N
UniRef90_K0K126	L S F V	E D N W T	D M R P	R S L	R E A H E
UniRef90_H0TKN9	L Q Y I	E D V W T	D M R P	L S L	R R K R M
UniRef90_D5UN61	L G Y I	E Q A W T	D I R P	L S L	R R A
UniRef90_W5WBE7	L D F I	N E V W T	D M R P	L S L	R R R Q L D
UniRef90_A0A024YW54	L D W L	E A H W T	D I R P	A S L	L A A L D
UniRef90_G7LM22	I E Y T	E K H W L	D M R P	A S L	R R A
UniRef90_UPI000363E248	L A H I	D E V W T	D M R P	K S L	R R E R M
UniRef90_Z4WSB8	L A Y I	E E V W T	D M R P	L S L	R R R H V D
UniRef90_UPI0004793A9A	L N W I	E T Q W Q	D M R P	A S L	R R R Q A
UniRef90_UPI00036255D5	L S Y I	E Q H W T	D L R P	A G L	I
UniRef90_M2YCB2	L A H I	G E V W T	D M R P	L S L	R R R Q L D
UniRef90_UPI00034746C1	L E F I	E E N W T	D M R P	R R V	L R D
UniRef90_UPI0004124B75	T E F I	E R S W Q	D M R P	K S L	R D A M
UniRef90_S5TM31	L D H I	E E N W T	D M R P	A S L	L V R A M
UniRef90_A9AW99	L D H I	K A V W T	D M R P	L S L	R R Q A L
UniRef90_A3HRL9	L S Y I	E S V W T	D M R P	L S L	R R K K L E
UniRef90_D8HVR1	L A H I	D R V W T	D M R P	L S L	R R Q R M D
UniRef90_Q0K0K0	L A H I	E T V W T	D M R P	L S L	R Q R A L
UniRef90_D6X806	L A H I	T D R W T	D M R P	Q S L	I D A M N

	50										60												
UniRef90_U5W526	L	A	Y	I	E	R	S	W	W	D	L	R	P	A	S	L	I	T	R	M			
UniRef90_A71J34	L	A	H	V	E	Q	I	W	T	D	M	R	P	L	S	L	R	R	A	M	D		
UniRef90_Q9F5J2	L	A	Y	I	E	E	A	W	T	D	L	R	P	K	S	L	I	D	A	T	D		
UniRef90_UPI00037EA81B	L	D	Y	V	E	Q	N	W	T	D	I	R	P	L	S	T	R	R					
UniRef90_A0A024Z1N9	L	D	H	I	E	V	T	W	T	D	L	R	P	A	S	L	V	A	A	L			
UniRef90_UPI0003829239	L	A	H	I	E	E	V	W	T	D	M	R	P	L	S	L	R	R	R	M			
UniRef90_UPI00036FF999	H	D	Y	I	H	T	H	W	T	D	M	R	P	N	S	L	R	R	E				
UniRef90_E5XLR8	L	D	F	V	E	T	A	W	T	D	L	R	P	L	G	L	R	K	A	M			
UniRef90_UPI000374A088	L	R	H	I	E	E	E	W	T	D	M	R	P	K	S	L	R	R	L	A	M	D	
UniRef90_A7BXA7	G	E	Y	V	K	K	V	W	T	D	M	R	P	L	S	L	R	R	K	K	M		
UniRef90_D8I2Q8	M	D	H	V	D	E	V	W	T	D	M	R	P	L	S	L	L	Q	R	Q	M		
UniRef90_A0A059N8E0	I	D	Y	I	Q	T	H	W	Q	D	L	R	P	L	S	L							
UniRef90_V6K9E0	L	A	H	I	E	R	V	W	T	D	M	R	P	L	S	L	L	R	R	A	M	E	
UniRef90_UPI00035DCE01	L	A	H	I	E	E	V	W	T	D	M	R	P	L	S	L	L	R	K	R	M	E	
UniRef90_Q93GZ2	V	E	Y	V	E	E	Q	W	V	D	M	R	P	R	S	L	L	A	A	A	M	D	
UniRef90_E3I9M0	L	D	Y	I	N	A	H	W	L	D	M	R	P	N	S	L	L	K	D				
UniRef90_C6WS65	V	A	Y	V	E	K	N	W	T	D	L	R	P	V	S	L	L	R					
UniRef90_R1IHA8	L	D	H	I	E	R	V	W	T	D	M	R	P	L	S	L	L	R	T	A	M		
UniRef90_UPI000474584F	L	A	W	I	D	E	N	W	T	D	M	R	P	R	G	L	R	D	A	L			
UniRef90_UPI00035CFE98	M	A	H	I	K	E	V	W	T	D	M	R	P	L	S	L	L	R	R	H	M	E	
UniRef90_C0H3Q6	L	D	Y	I	Q	S	H	W	S	D	M	R	P	N	S	L	L	K					
UniRef90_UPI00035EEE8E	V	K	F	V	D	E	H	W	T	D	M	R	P	K	S	L	L	R	E	A			
UniRef90_K9X9A9	L	A	Y	I	K	E	V	W	T	D	M	R	P	L	S	L	L	R	K	T	M	E	
UniRef90_UPI00035CA9BE	L	G	Y	V	S	T	H	W	A	D	L	R	P	R	S	L	L	V	A	E	L		
UniRef90_B7JX28	L	A	Y	I	K	E	V	W	T	D	M	R	P	L	S	L	L	R	K	Q			
UniRef90_D0LUM9	L	V	Y	V	E	Q	I	W	T	D	M	R	P	L	S	L	L	R	Q				
UniRef90_UPI000370AB84	L	D	H	V	E	Q	T	W	T	D	L	R	P	R	S	L	L	T	V	A	L	D	
UniRef90_G1UHX7	L	D	R	I	A	G	L	W	T	D	M	R	P	K	S	L	L	V	D	A	M	N	
UniRef90_F5LRL2	L	D	Y	I	E	S	S	W	T	D	M	R	P	A	S	L	L	R	E				
UniRef90_UPI00047BE11F	L	G	H	I	Q	T	V	W	T	D	M	R	P	L	S	L	L	R	K	A	M		
UniRef90_Q9FB14	L	R	H	I	D	E	V	W	T	D	M	R	P	R	S	L	L	R					
UniRef90_D2B8R4	V	D	Y	V	N	S	N	W	T	D	M	R	P	R	S	L	L	A	A	R	M		
UniRef90_UPI00047632F3	L	A	Y	V	D	E	V	W	T	D	M	R	P	L	S	L	L	R	L	H	M	E	
UniRef90_UPI000477A252	L	R	F	V	E	E	N	W	T	D	M	R	P	R	S	L	L	R	E	H	M	E	
UniRef90_F8JMK6	L	R	H	I	E	E	T	W	T	D	M	R	P	L	S	L	L	V	R	R	A	L	D
UniRef90_D9V900	M	S	H	V	D	Q	V	W	T	D	M	R	P	R	S	L	L	R	R	E	R	M	
UniRef90_UPI000382CAB5	L	D	Y	I	E	Q	N	W	T	D	L	R	P	R	S	L	L	A	R	R			
UniRef90_UPI000476B2E2	L	E	H	I	E	K	I	W	T	D	M	R	P	L	S	L	L	R	Q	Y	M	D	
UniRef90_UPI0003803AA6	L	E	Y	I	N	E	V	W	L	D	M	R	P	L	S	L	L	R	K	H	M		
UniRef90_D2B1D5	L	D	H	I	E	T	V	W	T	D	M	R	P	L	S	L	L	R	Q				
UniRef90_L7ZAZ6	L	A	H	V	E	A	N	W	T	D	L	R	P	N	S	L	L	I	A	Q			
UniRef90_D9WLN0	V	D	Y	I	E	N	H	W	T	D	M	R	P	A	S	L	L	I	R				
UniRef90_UPI00037E4E1A	L	E	Y	V	E	T	H	W	T	D	M	R	P	A	S	L	L						
UniRef90_W7ITH0	L	A	H	I	G	E	V	W	T	D	M	R	P	L	S	L	L	R	R	A	L		
UniRef90_H5X8K0	V	E	F	I	E	H	T	W	T	D	M	R	P	K	S	L	L	I	D	A	M	E	
UniRef90_UPI000368B4AD	L	D	Y	I	E	R	V	W	V	D	M	R	P	A	S	L	L	V	R	K	Q	M	
UniRef90_G3IY27	L	D	H	I	K	E	V	W	T	D	M	R	P	L	S	L	L	Q	I	H	M		
UniRef90_U5A908	L	E	H	I	R	E	V	W	T	D	M	R	P	K	S	L	L	R	D	A	L	D	
UniRef90_G2NR39	L	E	A	V	E	S	V	W	T	D	M	R	P	A	G	L	L	V	R	A	T	E	
UniRef90_UPI000248DD18	L	D	Y	I	A	A	H	W	P	D	L	R	P	R	S	L	L						
UniRef90_H8FDN6	L	A	Y	I	E	E	V	W	T	D	L	R	P	L	S	L	L	R	K	H	L	E	
UniRef90_V7Q512	I	D	Y	I	S	S	N	W	T	D	L	S	P	L	S	L	L	K	P	A	A	E	
UniRef90_H2JUK7	V	A	Y	V	E	S	N	W	T	D	L	R	P	L	S	L	L	Q	R	Q			
UniRef90_K8A8T8	L	A	H	I	T	E	V	W	T	D	M	R	P	L	S	L	L	R	K	H	L		
UniRef90_V5AUY9	L	H	Y	I	E	E	N	W	Q	D	L	K	P	K	S	L	L	R	Q				
UniRef90_D3P0X7	L	A	H	I	E	R	V	W	T	D	M	R	P	L	S	L	L	R	K	T	L	D	
UniRef90_D8HWZ1	L	R	H	V	E	E	V	W	L	D	M	R	P	L	S	L	L	R	R	K	M		
UniRef90_UPI00024940A1	L	A	Y	V	E	S	R	W	T	D	M	R	P	K	S	L	L	V	M	A	M		
UniRef90_X0P3V6	L	S	Y	V	E	D	H	W	T	D	M	R	P	A	S	L	L	V	K	I	M	E	
UniRef90_D3EA28	V	A	Y	I	N	E	K	W	V	D	L	R	P	R	S	L	L						
UniRef90_W7IRY5	L	D	W	I	E	A	H	W	T	D	L	R	P	L	S	L	L	R	R	A	M		
UniRef90_UPI0002F2DE6D	L	A	Y	I	N	E	E	W	T	D	M	R	P	L	S	L	L	K	K	S	L		
UniRef90_R1FWK6	L	A	H	V	E	A	T	W	T	D	L	R	P	K	S	L	L	R	D	A			
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UniRef90_UPI00034C9CD6	L	D	H	V	D	R	H	W	T	D	L	R	P	R	S	L	L	R	E	A			
UniRef90_L9PKN8	L	D	Y	I	E	T	H	W	V	D	M	R	P	R	S	L	L	R	E	Q			
UniRef90_UPI0003721DDE	L	E	H	V	E	T	N	W	T	D	M	R	P	R	S	L	L	V	A	A	M	E	
UniRef90_UPI0002FE7A14	L	D	H	I	G	R	V	W	T	D	M	R	P	R	S	L	L	R	I	A	M		
UniRef90_D0KLZ0	M	T	Y	I	E	T	H	W	V	D	M	R	P	A	S	L	L	Q					
UniRef90_UPI0003C76FA8	L	A	Y	V	E	E	N	W	T	D	M	R	P	L	S	L	L	R	E				
UniRef90_I2MUG0	L	E	Y	V	E	A	N	W	T	D	L	R	P	K	S	L	L						
UniRef90_L0MG66	I	A	F	I	E	A	H	W	Q	D	M	R	P	A	A	L	L	K					
UniRef90_R4LI97	L	A	E	I	G	R	V	W	T	D	L	R	P	R	S	L	L	R	R	A	M		
UniRef90_L9PAT9	L	D	Y	I	N	T	V	W	T	D	M	R	P	L	S	L	L	R	Q	Q	M		
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UniRef90_UPI000362AA5D	L	A	Y	I	A	E	V	W	T	D	M	R	P	L	S	L	L	R	R	R	L		
UniRef90_UPI00045EC663	L	A	Y	I	K	E	A	W	T	D	M	R	P	L	S	L	L	R	R	Q	G	D	
UniRef90_Q70C37	M	A	Y	I	D	E	T	W	T	D	M	R	P	L	S	L	L	R	E				
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UniRef90_H1Q7N8	L	E	Y	V	R	E	V	W	V	D	M	R	P	K	S	L	R	L	Q	M	E	
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UniRef90_V6L3N0	L	E	Y	V	T	A	N	W	T	D	L	R	P	R	S	L	V	A	Q			
UniRef90_L8PJM7	L	A	H	I	D	R	V	W	T	D	L	R	P	L	S	L	R	S	Q	L		
UniRef90_A7GPK1	L	T	Y	I	E	L	H	W	T	D	M	M	P	K	R	L	H	Q				
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UniRef90_UPI00018169A6	L	D	Y	V	D	Q	V	W	T	D	M	R	P	T	S	L	R	Q	R			
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UniRef90_C6WLF3	L	A	R	V	A	E	V	W	T	D	M	R	P	L	S	L	R	A	R	M		
UniRef90_UPI00041ED3F6	L	D	Y	V	E	V	H	W	T	D	L	T	P	R	S	A	R	V	A	M		
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UniRef90_K6W6W2	L	A	Y	V	E	A	N	W	H	D	L	R	P	L	A	P	T	Q	A			
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UniRef90_S5VS01	L	A	H	I	E	R	V	W	T	D	M	R	P	L	S	L	R	L	S	M		
UniRef90_A0A059KJV6	L	D	Y	I	K	E	V	W	T	D	M	R	P	L	S	L	R	K	A	M		
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UniRef90_R4T986	L	D	H	I	E	R	V	W	T	D	L	R	P	R	S	L	R	A	D			
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UniRef90_G8S6Y1	L	A	H	I	D	R	V	W	T	D	M	R	P	L	S	L	R	R	L	M		
UniRef90_A5EJ33	I	D	Y	I	D	T	N	W	T	D	M	R	P	R	A							
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UniRef90_U0Z4X3	V	S	Y	L	D	A	N	W	T	D	L	R	P	R	S	L	R					
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UniRef90_D3P0E4	L	E	R	I	E	R	V	W	T	D	M	R	P	A	S	L	R	R	R			
UniRef90_UPI00037ACF94	L	D	H	V	A	S	S	W	T	D	M	R	P	A	S	L	A	A	Q	L	D	
UniRef90_F3DBJ0	G	Q	W	L	E	E	H	W	L	D	L	R	P	A	S	L	R	A	A	L	N	
UniRef90_V8DK33	L	A	Y	I	K	E	V	W	T	D	M	R	P	L	S	L	R	Q	Q			
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UniRef90_D1A2G7	L	E	Y	V	R	T	H	W	T	D	L	R	P	R	S	L	I	E	A			
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UniRef90_G8SK10	L	E	H	I	D	A	V	W	T	D	M	R	P	A	S	L	R	R	R	M		
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UniRef90_UPI000377B661	L A H V	E Q V W T D M R P K S	L R R Q R
UniRef90_UPI00036E8FA9	L D R I	E T L W T D M R P L S	L R R Q R
UniRef90_UPI00036D92D6	L D Y I	N R T W T D L R P A S	V R R D
UniRef90_UPI000377B3D9	L E W I	E R T W T D L R P K S	L R Q Q M
UniRef90_H0S413	L D Y I	N S L W T D M R P L S	L R Q Q M
UniRef90_UPI0002DC46B7	L Q F I	Q E N W T D M R P A S	L K V R
UniRef90_UPI00036C0379	L A H I	E T V W T D M R P L S	V R
UniRef90_E4WHL7	V A Y I	D A H W T D L R P	
UniRef90_K6VP63	Y E F V	E R T W V D M R P L S	I R
UniRef90_UPI0004648A58	L D H I	G V I W T D M R P L S	L R R R L
UniRef90_UPI00036D3P860	L K R I	E E V W T D M R P L S	L R R K Q M E
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UniRef90_UPI00036J2E150	L A W I	E E Q W T D M R P L S	L R T A L
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UniRef90_W0V4C5	A A Y I	E S H W Q D M R P L S	L
UniRef90_UPI00035DB391	L A H I	E A I W T D L R P R S	L R V A S E
UniRef90_U7G9L3	L A H I	N D V W T D Q R P K R	L R D A
UniRef90_UPI00036A733F	L A Y V	E E H W R D L T P A G	L R G A
UniRef90_UPI00036K6CDB8	L D Y I	A E H W T D M R P R S	L R E
UniRef90_UPI00036FA8A4	L S H I	D K V W T D M R P R S	T R E A M N
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UniRef90_UPI0003608BA8	L D H I	G R L W T D Q R P R S	A R
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UniRef90_UPI000382FF16	L D H I	E Q V W T D L T P R S	V R A A
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UniRef90_UPI00036M4N8U4	L A H V	D R S W T D L R P A S	L R R
UniRef90_W1RVG5	L E Y V	E T H W T D I R P	
UniRef90_D6B9W4	H A Y V	E E H W T D L T P R S	A R R
UniRef90_UPI00036V9W317	L D Y I	E L H W N N M E P N Q	L I
UniRef90_UPI00036H2JN58	L D H V	A T V W T D I R P K S	V A P A
UniRef90_UPI00036Q7N7D2	K K W I	E E V W T D M R P A S	L R
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UniRef90_UPI0003646578C	L E H I	E S V W A D I R P R S	L R E R
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UniRef90_UPI00036G7G8I5	L S W L	N D N W T D L R P K S	L I E M D
UniRef90_UPI00036B5H1G8	L A H I	E R V W T D M R P R S	L R E R
UniRef90_UPI00036H2JPF5	L D Y I	E R T W T D M R P L S	L R N A
UniRef90_UPI00036L7ZKS6	I D Y I	E T H W Q D M R P	
UniRef90_UPI00034CEBBD	L D Y V	N T H W S D L R P R S	L H E A
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UniRef90_UPI000363757480	L A Y V	E E T W A D L R P L T	L R R Q M
UniRef90_UPI00036A1TTJ5	V A Y V	D G A W T D M R P K S	L R D W M
UniRef90_UPI00036Q6WZ99	L D H I	E T V W T D L R P L S	A R A
UniRef90_UPI0002192A75	L E F I	D R T W T D M R P E S	L R N A
UniRef90_UPI00040E5B7F	L D Y I	A E Q W T D L K P L S	L
UniRef90_UPI00036G0BC06	V S W L	E Q H W Q D M R P A S	L R K A
UniRef90_UPI00036F2JWF5	L V F I	D Q H W T D I R P V S	L
UniRef90_UPI00035C79BD	L D H V	E R V W T D L R P R S	V R Q
UniRef90_UPI00005100F8	L E F V	E A N W T D I T P R R	L A E
UniRef90_UPI0001FFEF4B	L D W I	E R T W T D L R P R S	L R D R A D
UniRef90_UPI00036V5Z8U3	I N Y I	E E H W Q D M R P A E	L Q
UniRef90_UPI00036H5XBX8	I H Y V	D A H W P D L R	
UniRef90_UPI00036Q87WM5	L E Y I	K E V W T D M R P L S	L R Q R
UniRef90_UPI00030CCEBE	L A H V	D T I W R D M R P A R	L
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UniRef90_UPI00036254A8	L A H I	D E L W T D M R P K S	L R
UniRef90_UPI00016A274E	I D Y I	D T H W T D L A P R R	P R A A
UniRef90_UPI00036D6APB9	L A R V	G R S W T D M R P A S	L R R G L
UniRef90_UPI00036E58E5	L E H I	D A V W T D L R P L S	L R R S L
UniRef90_UPI00036U7R2G1	L S L V	E S N W K D M R L K S	L Q
UniRef90_UPI00036M4ULM0	I D Y V	E A H W T D M R P A S	L R
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UniRef90_UPI00047795F6	L E Y V	E H T W T D I T P R S	L
UniRef90_UPI00036X0P421	L S H I	D Q V W S D M R P L S	L R L A M D
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UniRef90_UPI00036ED0ED	L A H I	D E V W T D M R P L S	A R
UniRef90_UPI000368253E	L D Y V	D T H W T D L T P K	
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UniRef90_UPI0003700E99	L L R I	E E I W R D M R P A S	L R A R M
UniRef90_UPI00036I3P626	L A Y I	E R E W G D L R P A S	L R
UniRef90_UPI000363766393	L E H I	A E V W T D M R P L S	L R K R L
UniRef90_UPI00036U2LYD4	V N W L	E Q N W Q D M R P A S	L R K A
UniRef90_UPI00036I1D2G3	L A H I	E K V W T D M R P L S	V R R Q M D
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UniRef90_W0V3W4	L E W I	R K V W V D M R P L S L V R R
UniRef90_R8CWZ3	L Q R I	A E I W T D M R P K S L R
UniRef90_F2LEA5	L Q R I	E Q L W T D M V P A S V R E H L N
UniRef90_I0HB02	L A H I	A E V W T D L T P R S V R R D H S E
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UniRef90_Q9F2E7	L E Y I	G A H W P D I R P A R L
UniRef90_UPI00036CD81D	L A H I	D E V W T D L R P R G L R E W L E
UniRef90_A0A011ALA9	L D H I	D G V W T D M R P L S V R G A
UniRef90_J2JU43	L A H V	E R V W T D M R P L S L R
UniRef90_D1GLU5	L A H I	E H H W T D L R P
UniRef90_UPI000237B182	L T H I	R T A W P D L R P Q S L V S A L
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UniRef90_C6C328	I G Y T	Q A Q W L D M R P A
UniRef90_C4SQW0	V K Y L	E A N W T D M R P A S L I R A
UniRef90_UPI0003781C21	L E W I	E Q T W T D L R P Q S L R D H I
UniRef90_U7QY11	A E W V	E Q V W K D M R P V S L R E
UniRef90_L1KZF1	G R L V	D R L W T D M R P A S A R A K
UniRef90_V3TKP9	I E Y I	E N H W L D M R P A D L K
UniRef90_UPI000466D3E5	L D Y V	S Q T W T D M A P R R V A E
UniRef90_A0A022LUK7	T D Y V	S E H W H D I T P
UniRef90_UPI0003624F04	L E Y A	E A H W T D L R P A
UniRef90_W2EU10	L S H I	D E V W R D M R P R S A R E
UniRef90_UPI000237B37C	V D H I	E V N W T D M R P A
UniRef90_UPI0003606DC9	G R Y L	A Q H W T D S R P R G L V A R L
UniRef90_UPI0003729392	L A H I	A A I W T D M R P L S V R
UniRef90_J2LIN1	I E F I	E A N W H D M R P A
UniRef90_Q2SFM3	I H Y I	E Q N W T D I R P R
UniRef90_UPI000371C034	I S W L	E S H W Q D M R P A S Q R A A
UniRef90_F1C7Q4	L D Y V	E R N W G D L Q P A G D R K W S E
UniRef90_D4E3C5	V S W L	E D N W Q D M R P A S Q R Q A
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UniRef90_K0JW82	L A R I	D R V W V D L R P A G V R A R L
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UniRef90_UPI00036CC864	I R H V	D A T W T D M R P L S L R T A L D
UniRef90_V6KYQ2	L A H I	E D V W T D M
UniRef90_UPI00036F7451	L D H V	A R V W T D M R P R S V R R
UniRef90_C4UM92	V R Y L	E M N W T D M R P L S L I N A
UniRef90_W0L544	I T W L	E Q H W Q D I R P T S Q R R A
UniRef90_UPI000372FF2D	I A Y V	D E Q W T D M R P L S L R R A L
UniRef90_UPI0003762C98	L D W I	T E H W T D L S P A A
UniRef90_C5AHM0	L E W V	R T A W T D M R P L S V R Q
UniRef90_W7SWB3	L A H V	D Q V W T D I K P
UniRef90_V6KVP1	L K H V	D R V W T D I R P R S V R
UniRef90_E1W0S7	N D Y V	Q E H W T D I T P R
UniRef90_F2LQ57	L D Y V	E R H W
UniRef90_G8SK18	V R Y V	E Q H W T D L R
UniRef90_UPI0004656E39	M Q Y V	D D H W I D M R P R A
UniRef90_U3A121	I D Y I	E A N W H D I R
UniRef90_F7YMD7	C N Y I	E A Q W L D I R
UniRef90_R4LVD3	L A H I	E D Q W T A L R P
UniRef90_UPI00035D9DD6	L A Y I	D R V W D N V L P R S L R D
UniRef90_G8AWH8	L D H I	E A A W T D L T P A A
UniRef90_F6CXE9	M D W L	E A N W T D L R P
UniRef90_D5XVE6	L	
UniRef90_D1BHC3	L G Y V	T E H W Q D I T P V H D Q E R I
UniRef90_UPI0002F939C4	L E Y V	R R Q W V D L R P
UniRef90_G0HH37	V E F I	E E Y W K D L R P K S L R D
UniRef90_A0A024YP57	A A F V	D A H W P D T R P F S L R G A
UniRef90_A0A038H4B4	L D Y I	D A H W T D P R S D R
UniRef90_L0MHT9	V G W L	E T H P Q D M R P A A Q R E Q
UniRef90_M9LS33	L E E I	G S V W K D M R R V S R Q Q R L
UniRef90_A0A038GK84	F D W I	Q S N W L D Q R P K F L R D
UniRef90_UPI0001851A1C	L D R I	A V V W T D L R P R
UniRef90_M3CDN0	L A R V	Q E A W T D P C P V S L R R R
UniRef90_H8DLQ6	L T W L	N E H W H D I R P
UniRef90_UPI0003675BD2	L A R V	T E L W S D M R P L S V V A A
UniRef90_B0CN30	L E H I	E T V W A G P T P A
UniRef90_D9VH02	L D Y L	E Q A W A D L R P L S L Q A R
UniRef90_D3Q0V8	L A E I	A E V W T D M R P A
UniRef90_UPI00045EA850	L A F I	E S E W R D L M P
UniRef90_J3HMQ0	I E F V	E M R W P A L R P
UniRef90_UPI000393FD60	L S Y V	E Q N W Q
UniRef90_Q4JT97	M E F I	D R E W T T L Q P A
UniRef90_B6A0B3	L A H I	R D V W T D P R P L S L R S A I
UniRef90_F8JKH5	L D H V	E K V W A G P R P A
UniRef90_N0CQQ4	L D R L	N A H W
UniRef90_I0RWM0	L D H T	G Q N R T D M R P K S L H K W L
UniRef90_S5Y4S8	L A R T	E E L W Q D P R P L A L R Q A M
UniRef90_C5BUC3	S A Y V	E T H W T
UniRef90_K0K4N8	D A Y V	I E H W T D
UniRef90_E6WIM9	L S W L	E Q N W G D I R P
UniRef90_H1QKL5	L E F T	A T A R T D P R A A
UniRef90_A0A014CU74	I A Y V	E K H W L T I N P
UniRef90_A4X3P4	L D Y V	E R N W T A L Q P A
UniRef90_G8MHD9	L D Y I	E T H W S D P R
UniRef90_L7ZG28	A E W L	E Q H W Q D I L P V A A R E A

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