

QUERY	1	10	20	30	40
UniRef90_W5W5A9	D D I Q F Q V V V N H E E Q Y S I W P E Y K E I P Q G W R A A G K S G				K K D C C
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UniRef90_W9FNK3	E D G R F Y V V L V N D E E D Q H S S L W P T F S E V P Q G W R V V F G E D S R Q A C C				
UniRef90_L8EV42	N D G S Y L V V L V N D E E G Q H S S L W P A F A D V P A G W T V T F G E S S R Q E C C				
UniRef90_W7IJ48	E N G T F L V L V N D E E G Q H S S L W P A F A E I P E G W T S V H G E A G R Q E C C				
UniRef90_Q93N85	E D G T Y L V L V N D E E G Q H S S L W P E F V E V P A G W T T A H G P A G R A E C C				
UniRef90_G2NX43	E N G T F L V L V N D E E G Q H S S L W P V F A E I P Q G W T V A H G E D D R Q A C C				
UniRef90_P59965	D G R Y L V L V N D E E G Q H S S L W P A F A E V P A G W T V A H G E D D R Q A C C				
UniRef90_D1ACX0	D N G A F F V V L V N D E E D Q H S S L W P V F A D V P A G W R V V H G E A S R A A C C				
UniRef90_C7MU87	D G T F L V L V N D E E G Q Y S S L W P S F A E V P A G W T V A K S A D T R Q A C C				
UniRef90_S3ZJB3	E N G V Y H V V L V N D E E G Q Y S S L W P S F I E V P A G W R E V L S G K S R Q E C C				
UniRef90_A8LAS6	D G Q F Y V V L V N D E E Q H S S L W P S F S E V P A G W R V V F G E A G R Q E C C				
UniRef90_D6B714	E N G T F F V V L V N S E E G Q H S S L W P S F A A V P A G W T V V H G E E T R Q S C C				
UniRef90_V8D2J6	D N G I F Y V V L V N D E E N Q H S S L W P T F A K V P D G W T V V F G E D S R Q N C C				
UniRef90_G2PAS0	E D G R F F V V L V N D E E N Q H S S L W P T F A D I P A G W N K V F G E A S R A E C C				
UniRef90_W5WC55	E N G S Y Y V V L V N D E E R Q H S S L W P A F A E V P A G W T V V H G Q D N R Q A C C				
UniRef90_V6U6X0	D N G R F F L V L V N D E E N Q H S S L W P A F A D V P G G W T V V K T E S S R Q E C C				
UniRef90_UP100036FA490	D G T Y L V L V N D A E N Q H S S L W P E F V E V P A G W T V V H G P A E R Q A C C				
UniRef90_UP1000382FB24	D G T F L V L V N D E E G Q H S S L W P A F A E V P A G W E V V V Q E T D R K T C C				
UniRef90_B2HRU0	E A G T F L V L V N H E E Q H S S L W P T F A D V P A G W R V V H G E G T R A E C C				
UniRef90_L8PAV8	D D A S Y R V V L V N A E E G Q H S S L W P D F A D V P A G W E A V F G P A P R Q E C C				
UniRef90_M2XCF6	E D G T F L V L V N S E E G Q H S S L W P L F A Q V P A G W T E V H G P A G R P E E C C				
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UniRef90_A3WX55	D D V T F A V V I V N D E E Q Y S S L W P T F K D V P A G W K E V G K T G S K K E C C				
UniRef90_A0A014LI7	D A E F L V L V N D E E G Q Y S S L W P A F A D V P E G W H V A H G K D T R E A C C				
UniRef90_UP1000463926F	E D G I F Y V L S N D E E Q Y S S L W P A F A D I P A G W Q V V F G E S T R S D C C				
UniRef90_UP100035D677B	E S G T F L V L V N D E E N Q H S S L W P A F A E V P A G W K S V F G E E S R K A C C				
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UniRef90_U1KHY5	E N G T F K V V L V N H E E Q Y S S L W P S Y K S V P G G W Q D V G V E G D K E T C C				
UniRef90_W4ME09	E N G T Y L V L I V N D E E G Q H S S L W P A F R E I P K G K W T A A G P K G K R Q E C C				
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UniRef90_UP100038184E1	D G T F L V L V N D E E N Q H S S L W P Q F A D V P A G W T V A H G P D T H A A C C				
UniRef90_F8B101	D G V Y T V V L V N A E E Q Y S S L W P D F I D V P A G W T V E H G P G P R Q E C C				
UniRef90_U5WMB4	E T G T F C V V L V N D E E Q H S S L W P T F A E I P V G W R K V Y G E A S R A D C C				
UniRef90_L8PJY1	D G T Y F V V L V N S E E G Q H S S L W P S F A E I P A G W T T A F G E A D R A A C C				
UniRef90_S7SZQ8	E D G M F F V V L I V N D E E Q H S S L W P T F A D V P A G W R V V F G E A S R A S C C				
UniRef90_S2YF11	E S G V F R V V L V N D E E G Q Y S S L W P D F A P V P A G W T S V H G P D T R A A C C				
UniRef90_V8CY24	D E G T F Y V V L V N D E E Q Y S S L W P T F A E V P Q G W R I V H G A A G R Q E C C				
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UniRef90_A0A017T3M0	E N A T F H V V M N H E E E Q Y S S I W P E G R E I P A G W K A V G K T G P K K E C C				
UniRef90_UP100035DCFE5	D A R Y L V L V N E E E Q Y S S I W P A F A E V P A G W T A V F G E D S R E A C C				
UniRef90_A8CF84	E D G Q F Q V V L V N D E D Q H S S L W P A F A P V P D G W R V V F G A D R R D R Q C C				
UniRef90_V2H0L5	D T I L F Q V V I N P E E Q Y S S I W P D Y R P I P A G W R A V G F S G Q R Q Q C C				
UniRef90_UP100036B293D	S G T Y L V L I V N D E E G Q Y S S L W P E F A A V P A G W S V A K T A S S R Q S C C				
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UniRef90_G2GEQ8	E N G Q Y L V L I A N D E E E Q Y H S S L W P A Q I A V P A G W R T V H G V D S R A A C C				
UniRef90_L1LW18	D D I Q F Q V V V N H E E E Q Y S S I W P D Y K E V P A G W R T V G K S G L K K D C C				
UniRef90_W4M164	D T T I Y N V V I N H E E E Q Y S S I W P A D R D N P P G W Q E V G K R G L K Q E C C				
UniRef90_UP100036F499D	E G S Y Y V V L V N D E E G Q Y S S L W P V F V D V P A G W R V N F G A E N R Q A C C				
UniRef90_UP1000379ECC0	E N A E F L V L V N D E E N Q H S S L W P V F A D V P A G W T S V H G P A G R A E C C				
UniRef90_S5UCP7	D T T V F R V V I N D E E E Q Y S S I W P A D R D L P P G W R D E G T T G P K P A C C				
UniRef90_A0A014NV5P	E N G S F L V L L I N D E E G Q Y S S L W P A F A E V P A G W R V V F G E D A R K N C C				
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UniRef90_UP100034D9287	D G S F L V L I V N N E E G Q Y S S L W P S F A E I P R G W R I I F G P E A R Q P C C				
UniRef90_S2KL48	E D A T F K V V L V N A E E Q Y S S L W P D Y K A V P A G W R E A G K S G P K Q D C C				
UniRef90_UP100047CD08A	D A T Y L V L I V N D E E G Q Y S S L W P S F A E V P G G W T V V V T E T D R Q S C C				
UniRef90_S5TUD7	D D H R F L V L V N D E E G Q H S S L W P A F A E V P A G W R V A F G E D S R Q A C C				
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UniRef90_UP1000368CFCF	D D A T F L V L V N H E E E Q Y S S I W P D Y K P V P G G W R A A G F S G N R Q A C C				
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UniRef90_D9VJM4	E G R F L V L V N D E E G Q H S S I W P S F A P V P P G G W T T V F G E D T R D A C C				

QUERY

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UniRef90_D9VJM4

50 60

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

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UniRef90_UPI000362F777 UniRef90_J3DKZ6 N A S F K V V I N H E E E Q Y S S I W P S Y K S L P G G W R E A G K E G N K E E C
UniRef90_UPI00036A8E3E D K T | V Y E V V V N D E E E Q Y S S I W P T Y K E V P V G W K A L N I S G S K K E C
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UniRef90_W7ISS7 E D T V F T V V V N H E E E Q Y S S I W P E Y K A I P Q G W R E A G K S G L K A E C
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UniRef90_UPI00036F19FA D D R R Y L V V R N H E E E Q Y S S I W P K D H E M P P G W D P V G V A G S K P E E C
UniRef90_UPI0003638ECE D G R Y L V L I N D E E G Q Y S S L W P A F A E V P V G W T V A Q Q E T G H A E S
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UniRef90_UPI00037B4570 D D I T Y Q V L T N D E E G Q Y S S I W P A D R D I P A G W H A E G T T G T K D E C
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D D A E F Q V V L V N D E G Q Y S I W P V A N E V P A G W R A D G F R G R Q E C
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E G T Y L V L V N D E E G Q Y S I W P A S I A I P P G W N I A F A E N T R S A C
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D S R E Y A V V I N H E E E Q Y S I W P A G R E L P S G W T E V G V R G P K R D C
D T A E F D V V V N D E E E Q Y S I W P V G R E V P A G W R A V G Q R G P K R D C
D T T K Y A V V I N A E E E G Q Y S I W P A D R E V P A G W R L E G T M G L K D E C
E S L T F L V L V N S Q G Q H S L W P T F A P E P A G W R R L F G P S D R S D C
D K T I Y K V V V N H E E Q Q Y S I W P A E R E N A L G W Q D A G R R S S R E E C
E D G T Y F V V L V I N A E E Q Q Y H S L W P H A V D V P A G W S V V H G P A G R S A C
A I F K V V I N H E E Q Y S I W P I D R E S P K G W N E V G K S G T K E E C
T T M Y I V V V N H E E Q Y S I W P E D R A V P D G W R G A G K A G S K E E C
E D G T F L V L R N D E N Q C S S L W P D G F A L P A G W S I V H G P D T R A S C
E A T Y L V L V N H E E Q Y S I W P S F A E V P A G W T V T V Q A A G R Q D A C
D G T Y L V L V N V E Q Y S I W P A F I R T P D G W T A V L E E G T H Q E C
D T T Q Y M V V V N H E E Q Y S I W P A N R E L P L G W N N A G F S G D K S S C
T Y H V V V N D E E Q Y S I W L A E Q E I P A G W R A T G T S G T Q E E C
D G V Y S V L I N E E G Q H S L W P A S A D A P A G W A V A Y G P A R R G A C
T A T H R V V V N E E E Q Y S I W P L D A E I P T P G W R P A G K E G A K E D C
D G R F L V L V N D E D Q H S L W P V F A D T P T G W A V V F G A A G R D D A C
R F H V V V N D E E Q Y S I W P A D Q E I P A G W R P E G P L G S K E E C
D G V V F Q V L V N D E E Q Y S I W P G D K E V P A G W R P E G M R G S R E E C
D G N F S V S L V N D E E Q Y S I W P A T L A V P S G W T I A H R E D S R Q A C
D R L Y K V V V N H E E Q Y S I W F A D K E N A L G W S D E G K T G T R E E C
Y E V V V N D E E Q Y S I W P A D K A I P L G W H L A G K R G V R E S S C
D H P Y L V V R N D E E Q Y S I W P A G R N L P A G W H E A G F S G A K Q E E C
E N G S F L V L V N D E E G Q H S L W P A F Q A A P D G W R S V L G P V S R S E A C
D G Q F V A V V V N T E N Q H S L W P T A L D V P G G W T V V H G P D T R Q N C
D A R F L V L V N A E R Q H S L W P A V I A V P A G W T V V H G E D C R A A C
D T Q S Y V V V L V N D E E Q Y S I W P A D R D L P P G W R G D G V S G S E A E C
D D I H Y Y A L V V N G E E Q Y S I W P T T I E V P E G W S V A H G P S D R Q S C
F R V V I N D E E Q Y S I W P A D R A L P A G W N D V G Q R G D R T S C
D T T I Y Q V V V N H E E Q Q Y S I W P D Y K E I P G G W R T V G K T G N K Q E C
N T E F T V V V I N A Q E Q Y S I W P T Y H L V P N G W T E V G V K G N K E H C
E S G R F V V L V N E E G Q H S L W P A H I D I P G G W R I E G R E G S R Q E C
D S D Y L V L V I N D E E G Q H S L W P A F I P V P Q G W T A T F G Q A A R E A C
E N T V F E V V V N H E E E Q Y S I W P E V K E L P P G G W K H V G K R G N R Q E C
E Q G T Y V V L M N E E E G Q Y S I W P A F V H I P A G W E I V C G E T S R S A C
E D G T F L V L V N D E E Q H S L W P S F A A V P D G W R V A L D A T D R A S A C
R Y I V V I N H E E Q Y S I W P E Y R E L P L G W F D A G K R G S K D E C
E N L I F I V L V N Q E E N Q H S L W P E F I P V P D G W E P V F G P A S R A E C
D Q R L L V V I N D E E Q Y S I W P A Y K P I P A G W R A E G M E G N K A D C
R Y V V V V N D E E D Q H S L W P E G K D V P A G W R T D G A A G S K E D C
E G T Y L V L V N D E E D Q H S L W P S F A E V P P G G W R V A Q P R T G R E A A C
N E G I F H V L V N A E E G Q H S L W P A F A G M P A G W T A V L E A V G R D D A C
D G K F L V L M N H E E G Q Y S I W P A F A A I P A G W N Q V L G L G T R E E C
Q V V V N H E E Q Q Y S I W P A D R E P P A G W T P V G V A G P E E E C
D D E L Y V V L L N K E E G Q Y S I W P A F I D V P P G W E I S Y R E D T R E K C
E N G R F L V L V N A E E E R S S L W P V F A A V P A G W T V A Q G E S S R A E A C
D R S Y D V L V N D E E G Q H S S L W P T G T T V P A G W R T V L A D R S R E E C
D G A F L V L V N G E E D Q H S S L W P G F A R I P E G W T A V H G P V S K D E A C
Y Q V V V N D E E Q Y S I W P A Y R D L P A G W R A T P Q P G P K Q A C
D I D Y L V L R N D E E G Q Y S I W P E F A E V P Q G W E Q V F R G D R A T C
E Q Q F V V V V N D E E Q Y S I W W A A D R P V P A G W R A P G P R G T R Q E C
D S L T F Y V L M N T Q R V Y Q S I W P A F A D V P A G W H Q V I G P D T R T A C
D G T F L V L V N G E E G Q H S I W P A F A Q R P E G W V A V L D E S P R D A A C
D G I F H V V V N D E E Q H A L W P V F A D I P A G W E G V W G P P R A G A C
E S L P F L V L I N Q Q E Q Y S I W P Q F A A V P A G W H E V M G P A T R A E C
T R Y T V V V N D E E Q Y S I W A A D R A L P A G W H A A G T S G T R E E C
R Y E V V I N D E E Q Y S I W P A G R S V P S G W R L V G Q Q G V K S V C
N G S Y L V L M N D E E G Q Y S I W P A F A M V P E G W S P V L G P E M R Q V C
D R T I Y R A V V N D E E Q Y S I W P A D R D L P P G W R D A G R T G P K A D C
D R T T Y E V V V N R E E Q Y S I W P D F K D I P D G W Q A V G K S G N K E A C
E E Q A Y L V L I N D E Q Y S I W P S D L E V P P G W R K E G Y A G G K D E C
D T Q F Q V V V N A E E R Q Y S I W P E Y K P V P A G W Q E I G I C G D R Q T C
E D E L Y D V V M N E E E Q Y S I W A V G K A M P L G W K A V G K Q G P K A E C
Q H R V V L V N D E E G Q H S I W P E F A E I P A G W R A V H G P A S R E E C
E D L H Y N V V I S D E E R Y Q Y S I W P V Y K A V P A G W R L S G F S G S K Q A C
D I A Y Q V V L V N D E E G Q Y S I W P A D R P L P A G W R A E G T S G D K E Q C
E D T Q F E V V V N D Q D E Q Y S I W P T Y H P I P E G G W Q S V G V K G N R Q T C
D D G V Y R V V R N D E E Q Y S I W W A D R E L P L G W T A E G T S G S K Q E C
D P T V Y R V V V N H E E Q Y S I W P A D R P R P N G W D D T G H S G P P R E S C C
E N A H F F V V L V N T E E G Q H S I W P V S I D V P H G W N V V H G E D T R Q G C
E D E T F I V V V N H E E G Q Y S I W P H W K K V P G G W T A V T D E G D K K T V
D G E F R V V L V N A E E Q Q H S I W P A F A D V P A G W T T V F G P E S R S D C
E N D R Y E V L R N D E E Q Y S I W P V G I D V P A G W A R V G K E G T R D E C
D A A Y H V L V N E E G Q H S I W P A F A E V P A G W T V V L R Q A G R E A C

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UniRef90_U5W526	L A Y I E R S W W D [R P A S L I T R M
UniRef90_A7J34	L A H V E Q [WT D M R P [S L R R A M D
UniRef90_Q9F5J2	L A Y I E E A W T D [R P K S [I D A T D
UniRef90_UPI00037EA81B	L D Y V E Q N W T D [R P [S T R R
UniRef90_A0A024Z1N9	L D H I E V [WT D [R P A S L V A A L
UniRef90_UPI0003829239	L A H I E E V [WT D M R P [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 E
UniRef90_E5XLR8	L D F V E T A W T D [R P [G L R K A M
UniRef90_UPI000374A088	L R H I E E E W T D M R P K S [R L A M D
UniRef90_A7BXA7	G E Y V K K V W T D M R P [S L R K K M
UniRef90_D8I2Q8	M D H V D E V W T D M R P L S L Q R Q M
UniRef90_A0A059N8E0	I D Y I Q T H W Q D [R P [S L R R A M E
UniRef90_V6K9E0	L A H I E R V [WT D M R P [S L R R A M E
UniRef90_UPI00035DCE01	L A H I E E V [WT D M R P [S L R K R M E
UniRef90_Q93GZ2	V E Y I E E Q W [V D M R P R S L A A A M D
UniRef90_E319M0	L D Y I N A H W I D M R P [S L K D
UniRef90_C6WS65	V A Y V E K N W T D [R P [V S L R
UniRef90_R11HA8	L D H I E R V [WT D M R P [S 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 [WT D M R P [S L R R H M E
UniRef90_C0H3Q6	L D Y I Q S H W S D M R P N S L K
UniRef90_UPI00035EEE8E	V K F V D E H W T D M R P K S L R E A
UniRef90_K9X9A9	L A Y I K E V [WT D M R P [S L R K T M E
UniRef90_UPI00035CA9BE	L G Y V S T H W A D [R P R S L V A E L
UniRef90_B7JX28	L A Y I K E V [WT D M R P [S L R K Q
UniRef90_DOLUM9	L V I Y V E Q I [WT D M R P [S L R Q
UniRef90_UPI000370AB84	L D H V E Q T W T D [R P R S L T V A L D
UniRef90_G1UHX7	L D R I A G [WT D M R P K S L V D A M N
UniRef90_F5LRL2	L D Y I E S S W T D M R P A S L R E
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UniRef90_D2B8R4	V D Y V V N S N W T D M R P R S L A A R M
UniRef90_UPI00047632F3	L A Y V D E V [WT D M R P [S L R [H M E
UniRef90_UPI000477A252	L R F V E E N W T D M R P R S L R E H M E
UniRef90_F8JMK6	L R H I E E T W T D M R P [S L V R R A L D
UniRef90_D9V900	M S H V D Q V [WT D M R P R S L R E R M
UniRef90_UPI000382CAB5	L D Y I E Q N W T D [R P R S A R R
UniRef90_UPI000476B2E2	L E H I E K I [WT D M R P [S L R Q Y M D
UniRef90_UPI0003803AA6	L E Y I N E V W [D M R P [S L R K H M
UniRef90_D2B1D5	L D H I E T V [WT D M R P [S L R Q
UniRef90_L7ZAZ6	L A H V E A N W T D [R P N S L I A Q
UniRef90_D9WLNO	V D Y I E N H W T D M R P A S L I R
UniRef90_UPI00037E4E1A	L E Y V E T H W T D M R P A S L
UniRef90_W7ITH0	L A H I G E V [WT D M R P [S L R R A L
UniRef90_H5X8K0	V E F I E H T W T D M R P K S L I D A M E
UniRef90_UPI000368B4AD	L D Y I E R V W [D M R P A S V R K Q M
UniRef90_G3IY27	L D H I K E V [WT D M R P [S L Q [H M
UniRef90_U5A908	L E H I R E V W T D M R P K S L R D A I D
UniRef90_G2NR39	L E A V E S V W T D M R P A G L V R A T E
UniRef90_UPI000248DD18	L D Y I A A H W P D [R P R S L R K H L E
UniRef90_H8FDN6	L A Y I E E V [WT D L R P [S L R K H L E
UniRef90_V7Q512	I D Y I S S N W T D L S P N S L K P A A E
UniRef90_H2JUK7	V A Y V E S N W T D L R P [S L Q R Q
UniRef90_K8A8T8	L A H I T E V [WT D M R P [S L R K H L
UniRef90_V5AUY9	L H Y I E E N W Q D I K P K S L Q
UniRef90_D3POX7	L A H I E R V [WT D M R P [S L R K T L D
UniRef90_D8HWZ1	L R H V E E V W [D M R P [S L R R K M
UniRef90_UPI00024940A1	L A Y V E S R W T D M R P K S L V M A M
UniRef90_X0P3V6	L S Y V E D H W T D M R P A S L V K I M E
UniRef90_D3EA28	V A Y I N E K W [D L R P R S L
UniRef90_W7IRY5	L D W I E A H W T D L R P [S L R R A M
UniRef90_UPI0002F2DE6D	L A Y I N E E W T D M R P [S L K K S L
UniRef90_R1FWK6	L A H V E A T W T D [R P K S L R D A
UniRef90_D6BB74	L A H V E A H W T D M R P R S L R A A
UniRef90_UPI00034C9CD6	L D H V D R H W T D [R P R S L R E A
UniRef90_L9PKN8	L D Y I E T H W [D M R P R S L R E Q
UniRef90_UPI0003721DDE	L E H V E T N W T D M R P R S L V A A M E
UniRef90_UPI0002FE7A14	L D H I G R V [WT D M R P R S L R I A M
UniRef90_D0KLZ0	M T Y I E T H W [D M R P A S L Q
UniRef90_UPI0003C76FA8	L A Y V E E N W T D M R P [S L R E
UniRef90_I2MUG0	L E Y V E A N W T D [R P K S L
UniRef90_L0MG66	I A F I E A H W Q D M R P A A L K
UniRef90_R4LI97	L A E I G R V [WT D L R P R S L R R A M
UniRef90_L9PAT9	L D Y I N T V W T D M R P [S L R Q Q M
UniRef90_UPI00030DD930	L A Y I A E V W T D M R P [S L R R R L
UniRef90_UPI000362AA5D	L A Y I K E A W T D M R P [S L R R Q G D
UniRef90_UPI00045EC663	M A Y I D E T W T D M R P [S L R E
UniRef90_Q70C37	S A H V D E V W T D M R P K S L R D A M
UniRef90_C1LDL3	L A H I S G I W S D M R P S S L R E A M
UniRef90_L9PR88	L E Y I K E V W T D M R P [S L R K Q M
UniRef90_UPI0002D7D200	L A Y V D A H W T D [L T P R S
UniRef90_K0K132	S A H V D E V W T D M R P K S L R D A M
UniRef90_Q7CT22	L D H I E V E W T D M R P [S L R R L M D
UniRef90_A6YE15	L A H I E T V W T D M R P [S L V R R R A E
UniRef90_D5C314	L Q Y I S E T W [D M R P R S L R E A L E
UniRef90_C4RK61	L D H I G K V W S D M R P R S L R E Q M
UniRef90_G0PZX5	L A Y I E T V W T D M R P [S L R R R
UniRef90_D2BFH5	L D F T D A N W T D M R P R S L
UniRef90_N6YXS8	L E Y V E K T W T D M R P [S L R K W M D
UniRef90_UPI0003AD70E0	I G Y V T A N W K D [R P R S L
UniRef90_U5VYN3	S A Y V D E V W T D M R P K T L R D Q M E
UniRef90_S4MH16	V D Y V N T H W T D M R P G S L G R R

50 60

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UniRef90_A8KCJ1	L D Y I E A H WT D L R P R S V A R R
UniRef90_V8D209	L Q F V E Q N W R D I A P A S L K R S M
UniRef90_UPI00036CBFE6	L A H I G E V WT D M R P L S L R R H M E
UniRef90_W2F0B3	L G H I E E V WT D M R P R S L R Q
UniRef90_UPI00036F5C80	L D Y I E R T WT D M R P R S L R D W M
UniRef90_M3C9W0	L D H I D R V WT D L R P A S L R A A
UniRef90_UPI0003770A79	I N Y I N E N W T D I K P K S L I A
UniRef90_H1Q7N8	L E Y V R E V W V D M R P K S L R L Q M E
UniRef90_UPI000376AD91	L D H I E R V W V D M R P K S L R E A L
UniRef90_F2LRJ7	L D Y I D E T W T D M R P L S L R
UniRef90_UPI000473FABD	L K Y I N S H W I D I K P N S L K
UniRef90_UPI00036FC449	V R Y V E E H W R D L R P A S L I K A
UniRef90_V6L3N0	L E Y V T A N W T D I R P R S L V A Q
UniRef90_L8PJM7	L A H I D R V WT 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
UniRef90_I9DMY5	L D Y I N S Q W C D M R P N S L K
UniRef90_UPI00018169A6	L D Y V D Q V WT D M R P T S L R Q R
UniRef90_H6CGS8	M D Y I S T H W T D M R P D S L R P K A D
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
UniRef90_UPI0003617280	L R H I E Q V W T D L K P L S L R
UniRef90_K6W6W2	L A Y V E A N W H D I R P L A P T Q A
UniRef90_B1ZYK7	L A H I K A V W T D M T P A S L R R A
UniRef90_UPI00034A40AA	L E Y V E E N W T D M R P T S L V S A L
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
UniRef90_UPI0003477EA6	L S Y I D T N W T D M R P H R V R Q
UniRef90_C4RLD0	L A H I D T V W T D M R P R S V R E A I
UniRef90_R4T986	L D H I E R V W T D L R P R S L A D
UniRef90_UPI0003478F17	L D Y I K E V W L D M R P L S L R K
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
UniRef90_V6JTA0	L N Y V E S H W T D M R P A R L I E A
UniRef90_UPI000346282F	L D H I E T R W T D M R P L S L V R A M D
UniRef90_F3F3L8	L E Y V E R V W T D M R P L S L R T W M D
UniRef90_UPI00028872AD	L D Y I A K H W T D M R P R S L R K A
UniRef90_D9UJZ4	L A H I D T V W T D L R P L S L R R R M
UniRef90_UPI000380BB65	L H Y I E A T W T D L R P R S A R
UniRef90_UPI00023788E2	L R Y V E L N W T D L R P A N L R E
UniRef90_A0A014MTB0	L E H I R K V W T D I R P L S V R K R M
UniRef90_UPI000369DC8D	L D W I H E H W T D I R P K S L R D H I
UniRef90_U0Z4X3	V S Y L D A N W T D I R P R S L R
UniRef90_L8EYH6	L A A V E R D W T D M R P K S L V T A
UniRef90_D3POE4	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
UniRef90_B4VB77	L S H I A E V W T D M R P L S L R
UniRef90_Q0R171	L D N I E L T W A D M R P R S L R R R M
UniRef90_UPI0003B5D2E0	L A H I D V V W T D M R P L S L R Q R M
UniRef90_UPI000419EF6F	G E Y I E A N W T D M R P R S V V A A M
UniRef90_E0IE81	L E Y I Q E V W T D M R P L S L R K K M E
UniRef90_A1UUT4	L D H I E A E W T D L R P R S V A A R
UniRef90_D1A2G7	L E Y V V R T H W T D L R P R S L I E A
UniRef90_D6KCK3	L A H I G T V W T D M R P L S L R K R M D
UniRef90_UPI00035D17D0	L D Y I E H T W T D M R P R S L A E A
UniRef90_S9T5D3	I E Y I N L H W I D M R P R S L V A
UniRef90_UPI000479BA2D	D E Y L R R T W T D M R P K S L R V A L D
UniRef90_UPI00037651A8	L D H I E R V W T D M R P R S V R E R L
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UniRef90_F6CU77	L E Y I E K N W T D I R P Q A L
UniRef90_UPI0003633841	V A W V D E I W T D I R P K S L R V A L
UniRef90_I0H619	L D H V D R T W L D M R P K S V R T A
UniRef90_UPI0003C7746B	L D H I G R V W T D M R P L S L R R H L
UniRef90_E2EKP2	L A Y L D R T W T D M R P A S L R Q S L
UniRef90_Q5V8A7	L D N V E K N W T D M R P L S L R
UniRef90_G2GKM2	L K H I E R V W T D M R P R S V R E R
UniRef90_Q93H60	L A R I A E V W T D M R P L S L R R H M
UniRef90_UPI0004074154	L A W I D R T W T D M R P R T L R E A M
UniRef90_W7ICJ8	L D H I E R N W T D I T P A S A R D
UniRef90_F4F5W6	L A Y I E Q V W T D M R P R S L R E
UniRef90_K5BEQ6	L A Y V D T A W T D I R P A
UniRef90_G8SK10	L E H I D A V W T D M R P A S L R R R M
UniRef90_S5UWG5	L A R I D S V W T D M R P L S L R Q W M
UniRef90_UPI00029A9F3C	Q S Y I N E H W T D M R P A S L R Q W M
UniRef90_J2DYG9	L D W I D K T W T D M T P R S L R S R
UniRef90_H0E2J6	L A H V E A E W T D M R P R S L A A A I E
UniRef90_C5BK39	L S Y I E T H W T D M R P L S L R
UniRef90_UPI000316B799	L E F I T V N W A D I R P R S L V A Q
UniRef90_D9XF50	L E V I R T H W D D M R P L S L R S T F E
UniRef90_Q217L8	L S F I K E V W T D M R P L S L R G Q L
UniRef90_Q8GGS3	L A R I D E V W T D M R P L S L R R R A M
UniRef90_K0JXK0	L D H I A R V W T D L R P R S V R D H L
UniRef90_F7NIV9	L D Y I N S R W T D M R P N S L K
UniRef90_B5UZX6	L Q Y V E N T W T D L N P K S
UniRef90_UPI0002E29A43	L Q H I E K V W T D M R P L S L R N A I
UniRef90_L0M9S5	L D K I S E V W T D M R P K S L R A A L
UniRef90_S5TU54	L D H I E R V W T D V R P L S V R K R L
UniRef90_R1GA47	L A Y V G E H W V D L R P R G V A E

1 D E R S Y A | V V V | N S E E Q Y S I | W R S D Q E | V P D G W Q R T | G V S G T K T E C
UniRef90_UPI00035D46F2 N H E E E Q Y S I | C P S D R E N P L G W K E A G K Q G L K Q E C
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UniRef90_UPI00036E8FA9 D T A G Y L V L R N E E D Q Y S I | W P E F A A V P A G W Q V A L D R T S R A Q C
UniRef90_UPI00036D92D6 D Q G R F F A L V N H E E E Q Y S I | W P T F K P V P G G W A I A H G A A P R A E V
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UniRef90_UPI0002413 UniRef90_UPI0002DC46B7 Y N V V I N I E E Q Y S I | W P T Y K A I P S G W K E V G F Q G D K E S C
UniRef90_UPI00036C0379 R F T V V R N D E E Q Y S I | W A A G R D L P A G W T A V G F E G T K D E C
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UniRef90_K6VP63 E S G R F F V L V N E E E Q Y S I | W P V F R E L P P G G W R V V F G A A S R A E C
UniRef90_UPI0004648A58 D E E Y L V V R N D E E Q Y S I | W R A D R E L P A G W Y P E G V R G R Q A C
UniRef90_D3P860 E Y K V V V N D E E G Q Y S I | W P D K R K S P A G W H E E G T V G R K D V C
UniRef90_C9ZDB9 D G Q F H V L R N E E G Q F S I | W P N F A D I P S G W R S V S G P S P R G S A
UniRef90_UPI0003777DF9 D T V R F R V V V N H E E E Q Y S I | W F T E R P L P A G W T E T G V S G T R E E C
UniRef90_J2EI50 F V V V V V N H E E E Q Y S I | W P D Y K A L P E G W R A A G H Q G N K A Q C
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UniRef90_UPI000416462A E F R V V V N D E E E Q Y S I | W P A D R D L P A G W L G T G H T G S K V D C
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UniRef90_W0V4C5 D A Q F L V L R N D E E G Q Y H S S | W P Q H I A V P A G W S V V L E A S Q R A A C
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UniRef90_UPI00047D945F E G R F H V L V N D D E G Q H S S | W P A F I P V P A G W T A V L R D A A R P D C
UniRef90_UPI0003608BA8 M T H L V V V N D E E Q Y S I | W P A G G A P P D G W R A T G F T G S R V E C
UniRef90_H2ACL1 E D G S Y H V L V N A E E G Q Y S I | W P A Y L D V P D G W E T R L T N E T R P V C
UniRef90_UPI000376E045 N R E Y L A L V N D E E G Q H S S | W P G S I D V P P G W A V A H G P A G R Q D C
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UniRef90_B1FD06 N D A V F K V V V N H E E E Q Y A I | W P D D K H V P E G W R A A G P S G T R D A C
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UniRef90_UPI000382FF16 D R A F S V L V N A E E Q H S S | W P G D L P V P P G W R V A H A D D T R A A C
UniRef90_UPI0003615F15 D G D R Y V V V V N H E E E Q Y S I | W F A D R E L P D G W T A T G A Q G T R Q E C
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UniRef90_UPI00037C0C3A D S L E F V V V L V N A L Q H S S | W P V F K T V P Q G W K L I F G P A S R F H C
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UniRef90_V9W317 D S T Y K V L M N G E E G Q Y S I | W P A F I E V P A G W S I V H E Q D S R Q A C
UniRef90_H2JN58 M T Y T V V V N D E E Q Y S I | W P E A K T L P A G W R T T G F S G S R E E C
UniRef90_Q7N7D2 E Y L V V I N D E E Q Y A C V I H S E W P V A T G W R A T G F S G T Q E A C
UniRef90_K7RIP2 F L V V V N D E E G Q Y S I | W P E A K E I P L G W K S E G T Q G S E Q Q C
UniRef90_UPI000346578C E F R V V V N D E E Q Y S I | W P T A L K V P A G W K E A G V T G D R E R C
UniRef90_UPI00047632FD D G V Y Q V L V N E E Q Q H S S | W P N D L R V P P A G W S P V F G P D T R D A C
UniRef90_G7G8I5 E S M A F V V L I N H E K K Q Y S I | W P E V L T I P S G W E Q V F G P Q T R D T C
UniRef90_B5H1G8 R W K V V V N D E E Q Y S I | W S A Q R E T P A G W R E D G V H G T K D E C
UniRef90_H2JPF5 Q W L V V V N D E E Q Y S I | W W A D R S V P E G W R A I G V S G P K E E E C
UniRef90_L7ZKS6 E S L R F S V L V N A Q Q Q Y S I | W P Q F A D T P Q G G W R V L M G P A S R G E C
UniRef90_UPI00034CEBBG E G S F L V L V N D E E D Q H A L | W P G F A R V P A G R T L V H G P V S R D G A
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UniRef90_UPI0003757480 D G S E F T V L V N A E E E Q Y S I | W R T G L E L P A G W R E V G R R G T K G E C
UniRef90_A1TTJ5 E D E T F L V L I N H E E E Q Y S I | W P H W K A V P E G W K A V E G R G D K K T V
UniRef90_Q6WZ99 D T A Y Q V V L V N D E E Q Y Y S I | W P V G R P L P A G W R A E G T V G G R Q A C
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UniRef90_UPI00040E5B7F E D S N Y L V L I N E E G Q Y S I | W P A S L T V P L G W T L M G K A K R R I C
UniRef90_G0BC06 E H Q I C L I L Q N D E E Q Q Y S I | W P D F S A V P A G W T P V F G P A V R S L C
UniRef90_F2JWF5 E S L T F S V L V N D L N Q H S S | W P E F A V I P L G W E S V F G P A S H A E C
UniRef90_UPI00035C79BD UniRef90_R H V V V N H E E Q Y S I | W P A H R Q N P P G W R D T G H E G T R A E C
UniRef90_UPI00005100F8 T A T F R V L V N D L Q Q H S S | W P S F A D A P A G W A I I A F G P A E R D E C
UniRef90_UPI0001FFEF4B D G S F Y A L V N R E G Q Y S S | W P T F Q V V P S G W T V A H G E R P R Q E V
UniRef90_V5Z8U3 E S L S F L V L L N A R Q Y S S | W P A F A E V P A G W Q V A G A L S R A E C
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UniRef90_UPI00030CCEBE E G T I F D V V V N G E G Q F S S | W P A G R A L P D G W H T A G F S G P R A A C
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UniRef90_UPI00036254A8 K V V V N D E E Q Y S I | W P V D R D T P D G W H D E G F T G P R A D C
UniRef90_UPI00016A274E E G S F F V L S N A E E G Q H S S | W P A S I A L P A G W T V V F G Q D A R Q P C
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UniRef90_UPI00036E58E5 UniRef90_U7R2G1 E S L D F F V L I N D E E N Q H S S | W P A G K P L P K G W Q P V G F E G S R A I C
UniRef90_UPI000136ED0ED D D V Q F R V V I N E G Q H S S | W P E F A D V P S G W V A V F G A A A R Q D C
UniRef90_UPI000378253E T T Y H V V I N D E E Q Y S I | W P P G D R T V P E G W R W T G F T G G R E D C
UniRef90_X0P421 D G T Y R V L A N D E E G Q H C L | W E T V V V N D E E Q Y S I | W A V N R Q I P G G W K E T G V R G T R Q E S
UniRef90_F6K7G9 D G T Y R V L A N D E E G Q H C L | W P D A L D V P Q G W H T L R G A G T R Q E S
UniRef90_A0A010Q3U2 UniRef90_UPI00036ED0ED D G T Y R V V I N E G Q H S S | W P E F A D V P S G W V A V F G A A A R Q D C
UniRef90_UPI000378253E T T Y H V V I N D E E Q Y S I | W P P G D R T V P E G W R W T G F T G G R E D C
UniRef90_R4LLN0 D G T Y R V L A N D E E G Q H S S | D E E Y L V L V N D L H Q H S S | W P A R L A P P A G W T V A H G A T G Y Q A C
UniRef90_B4VZN3 D R V I Y K V V K N H E H Q Y S I | W P L P A D W E N P L G G W W D G G K R G F Q T E C
UniRef90_J0L6T0 E H R V V V N D E E Q Y A S I | W P R H K E V P D G W R D A G C A G S R Q E C
UniRef90_X0NH66 Y Q I V I V N H E E E Q Y S I | W P V N R K I P L G W I V V G A P R T K Q E C
UniRef90_UPI0003700E99 G P F R V V V N H E E E Q Y S I | W P T D R E N A P G W G D E G T V G D R E T C
UniRef90_I3P626 F V L L N D E E Q Q M S S | W P A F T P V P D G W R A A F G P A V R T E C
UniRef90_UPI0003766393 E W A V V I N G E E Q Y S S V | W P A D G P A L V G W R E I S R H G T R E E C
UniRef90_U2LYD4 E Q Q I C Y V L R N E E L L Y S L | W P D F S A I P A G W V S V F G P A S R E H C
UniRef90_I1D2G3 UniRef90_D2PSL8 R H L V V V N D E D Q Y S I | W V V R N D E Q Q Y S I | W P L G R D L P P G W A E V G I S G S E E D C

50 60

UniRef90_UPI00035D46F2	L D H I E S V WT D M R P L S L R K W M
UniRef90_UPI0003698532	L D Y I K E V WT D M R P L S L R K K M D
UniRef90_UPI000377B661	L A H I E Q V WT D M R P K S L R
UniRef90_UPI00036E8FA9	L D R I E T L WT D M R P L S L R Q R
UniRef90_UPI00036D92D6	L D Y I N R T WT D L R P A S V R
UniRef90_UPI000377B3D9	L E W I E R T WT D L R P K S L R D
UniRef90_H0S413	L D Y I N S I WT D M R P L S L R Q Q M
UniRef90_UPI0002DC46B7	L Q F I Q E N WT D M R P A S L K
UniRef90_UPI00036C0379	L A H I E T V WT D M R P L S V R
UniRef90_E4WHL7	V A Y I D A H WT D L R P
UniRef90_K6VP63	C E F I V E R T W V D M R P L S I R
UniRef90_UPI0004648A58	L D H I G V I WT D M R P L S L R R R L
UniRef90_D3P860	L K R I E E V WT D M R P L S L R K Q M E
UniRef90_C9ZDB9	L E Y I E K E WT D M R P A S V R E
UniRef90_UPI0003777DF9	L A H I A E V WT D L T P R S V R E A
UniRef90_J2EI50	L A W I E E Q WT D M R P L S L R T A L
UniRef90_Q8CUZ8	Q D Y I E D Y W N D L L P T S L K K K
UniRef90_UPI000376E52B	L K R I E E L WT D M R P K S L R D R
UniRef90_UPI000416462A	L N H I D E V WT D L R P L S L R S A
UniRef90_D2B722	L A H I D Q V WT D M R P L S V R Q A
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 WT D L R P R S L R V A S E
UniRef90_U7G9L3	L A H I N D V WT D Q R P K R L R D A
UniRef90_UPI00036A733F	L A Y I E E H W R D L T P A G L R G A
UniRef90_K6CDB8	L D Y I A E H WT D M R P R S L R E
UniRef90_UPI00036FA8A4	L S H I D K V WT D M R P R S T R E A M N
UniRef90_C7Q4X6	L A H I E A V WT D M R P R S V R E A
UniRef90_D6K411	L E R I G L I WT D L R P A S L R R R M
UniRef90_D2AY12	L V H I D Q V WT D M R P L S A R E A
UniRef90_UPI00047D945F	Q H H I D T H WT D L R P R S L
UniRef90_UPI0003608BA8	L D H I G R I WT D Q R P R S A R
UniRef90_H2ACL1	L E Y I E T N W R D M R P E S L K R
UniRef90_UPI000376E045	L S F I E E E W K D M R P L T L A R S M D
UniRef90_UPI00037FE520	L A H I E E V WT D M R P L S A R
UniRef90_B1FD06	L E W I S A N W I D M R P L S V R V A L
UniRef90_UPI00037C0C3A	L D H I D R V WT D I R P L S V R R G L E
UniRef90_C6WLP0	L D Y V E R H W T D L R P L S A R P R
UniRef90_UPI000382FF16	L D H I E Q V WT D L T P R S V R A A
UniRef90_UPI0003615F15	L E F I V E G S W R D M R P A T L I A
UniRef90_M4N8U4	L A H I 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 I E E H W T D L T P R S A R R
UniRef90_V9W317	L D Y I E L H W N N M E P N Q I
UniRef90_H2JN58	L D H I V A T V WT D I R P K S V A P A
UniRef90_Q7N7D2	K K W I E E V W T D M R P A S L R
UniRef90_K7RIP2	L A H I D K A W T D M R P H S L K E G W D
UniRef90_UPI000346578C	L E H I E S V W A D I R P R S L R E R
UniRef90_UPI00047632FD	V D H V E S H W L D L R P A S T R A R
UniRef90_G7G8I5	L S W L N D N W T D L R P K S L I E M D
UniRef90_B5H1G8	L A H I E R V W T D M R P R S L R E R
UniRef90_H2JPF5	L D Y I E R T W T D M R P L S L R N A
UniRef90_L7ZKS6	I D Y I E T H W Q D M R P
UniRef90_UPI00034CEBB	L D Y V N T H W S D L R P R S L H E A
UniRef90_W7J1M7	L D H I E R V W T D M R P A S L R
UniRef90_UPI0003757480	L A Y I V E E T W A D L R P L T L R R Q M
UniRef90_A1TTJ5	V A Y V D G A W T D M R P K S L R D W M
UniRef90_Q6WZ99	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_G0BC06	V S W L E Q H W Q D M R P A S L R K A
UniRef90_F2JWF5	L V F I D Q H W T D I R P V S
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_V5Z8U3	I N Y I E E H W Q D M R P A E L Q
UniRef90_H5BX8	I H Y V D A H W P D I R
UniRef90_Q87WM5	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
UniRef90_U5YQZ5	T A Y V E T H W T D L R P A S L I R A M E
UniRef90_UPI00036254A8	L A H I D E I 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_D6APB9	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
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D P Q S Y L V V V N H E E Q Y S V W R S D R A L P D G W N A V G S P A G R A E C
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V N H E E Q Y S S I W P A D L E I P D G W T D A G F Q G A K E D C
D G G H V V L T D A L G R H S S L W P A G I I A V P A G W S V R H G T D S R E C
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E G Q F L V L T N A E E G Q H S S L W P L F A P V P A G W S T A H G P C A R Q E A
N G G F F A L V G D E E Q H S S L W P N L V I Q V G T C R R P V Y G Q T V Q A A P
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UniRef90_V3TKP9	I E Y I E N H W D M R P A D L K
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UniRef90_A0A022LUK7	T D Y V S E H W H D 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 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
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UniRef90_UPI00036F7451	L D H V A R V W T D M R P R S V R R
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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 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 I 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
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