

QUERY	1	10	20	30	40
UniRef90_I3JPM8	K E P E Q	L R K L I F V V G G G I S	F E T T E E Y H I L R S H F E	Q W G T L T D C V V M R	
UniRef90_G7NVZ8		V K K K V F V G G G I K E D T T E E Y H I L R S H F E		Q W G T L T D C V V M R	
UniRef90_S9XHT7		V K K K V F V G G G I K E D T T E E Y H I L R S H F E		Q W G T L T D C V V M R	
UniRef90_H2Y680	E E E Q	L R K L I F V V G G G I S	F E T T E E Y H I L R S H F E	Q W G T L T D C V V M R	
UniRef90_S4RV67		V K K K V F V G G G I K E D T T E E Y H I L R S H F E		Q W G T L T D C V V M R	
UniRef90_J9K9C9	R E P E H L R K K L F V V G G G I S	K D Y K T T D E N L K K D Y F S	K Y F S K F G G R V E I M D V V V M K		
UniRef90_UPI0001E46748	P P Q P R K L F I V G G G L S	H E T T D E Q L R R Q Y Y S Q W G T	V V D C I V I R		
UniRef90_G4T873		K I L Y V G G L S R E W N T D D E Q L R R E A F R Q S Y G N I L G G T I N I V S			
UniRef90_T1PDZ8		V K K L F V G G L S R E W N T D D E Q L R R E A F R Q S Y G N I L G G T I N I V S			
UniRef90_F7IE80	E E P E Q	L R K L I F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_P07909		V K K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_E4X6P4	E P E Q A R K I F I V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_I1IDU7	P E T E H K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_M4DBY8		S T K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_U6HZ21		V K K I F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_F7BTN0		M K K I F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_W5P2S3	K E N E Q	L R K L F I G G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_B0X7P8		K V F L V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_K3V7G2		M S K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_G0S0F3		M S K L F I G G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_UPI000298AC11	K V K K I F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_K4CF07					
UniRef90_Q99729	K N E E D A G K M F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_UPI000455DFE5		L Y V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_K5WIU4	P T K T I F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_A6R3X5		M S K L F I G G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_M7BCR4	E E G K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_B9SQH1	E L G K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_R7S3D9		L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_H2L051	F T K I F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_C9YCY4	S S K I Y V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_I4DTL1	E P G K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_L9L8T2	R E K E Q F C K L F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_T0QU04		T K K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_E0VUK8	E P E Q L R K M F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_D7G4R7		K I F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_W5K1Q0	L W K M F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_F5YJC7		K L Y V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_V4N533		K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_H3EBD5	D R Q R S V F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_D6PZY7		S S K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_F4WAY4	Q E S Q E D R K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_C7YR41		K E D R K M F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_D8RYI0		R K L Y I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_Q7YTD5	P N D P G K M F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_K5XZH0		T V Y R N L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_UPI000209A893	P S S K M F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_E6ZG37	P H D P C K M F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_S7ZZ83		M S K V Y V G N L A W S V T D E L R T T F E Q Y G V E Q A I V M R			
UniRef90_V8NT83					
UniRef90_N1RD38	E Q E K T S K I F V G G V L S Q E T T D Q E F K E Y F A Q F G R V V D A T L M M				
UniRef90_W5PPC2	E P P K K V F V G G V L S P D T T S E E Q L K E Y F G A F G G D V L S T S V M R				
UniRef90_I1N106		K L F I G G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_W9CAS4		K M F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_K1QXS6	E A E Q Y R K L F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_M0R6B7		D E G K L F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_UPI0003B338CD		N I Y V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_G8QR18		K K I Y V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_A4QP67	K T K E P V K K I F V G G L S P D T P E E K L R E Y F D A Y G T V L S A S I I				
UniRef90_M4D2Q4		K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_H2AS11		K D N C K M F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_Q98SJ2	E N S R S N K I F V G G L S P H N C G T E L K E Y F N R F G G V V T S V M I Y				
UniRef90_F5YCK7		K K L Y V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_T1HKF5	D E D E Q G K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_F4JYK6		E S C K L F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
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UniRef90_UPI00027F9DBC	E N S Q L C K L F I G G L S N V Q T S E S G L R G H F E A F G T L T D C V V V V				
UniRef90_B9SQT1		T K L Y F V G G L S P Y N V D S A Q L A G D I T Q D Y G T P E L V J E V L Y			
UniRef90_J9JKI7		K S M R S V F V G N I P Y E A T E E E L K E H F A R Y G T V L S F K L V Y			
UniRef90_I1GMV1		E M R K L Y V G G L S P P S A H E E E L K E H F A R Y G T V L S F K L V Y			
UniRef90_W2RNZ7	D K E A T K N L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_K4DBF5	P G R T R K I F V G G L S A S T V T E T A F K Q Y F E Q F G T I T D A R V M Y				
UniRef90_UPI00032A6AE9	P E T E Y K L F V G G L S S W T V T S E S L T Q A F Q E Y G T V V G A R V L Y				
UniRef90_UPI0002C33474		S S K L F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_C4QY74		K M F I G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_D8QPR6	K D P A H R K L F V R G L A W E T T S Q A L R D A F Q H Y G E I E E G A V I T				
UniRef90_M3IRM1		L Y V G N L P K S A S E M V K D L E S V G G P I K T I K V L N			
UniRef90_M4EGA7		T K L Y F V G N L P Y N V D S A T L A Q L I S V D F A N P E L V J E V L Y			
UniRef90_UPI0002C357D2		K L F I G G L S P E T T E A T L Q D Y F G Q Y G A V L G S T V A K			
UniRef90_I2FM98	E M P E E G K M F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R				
UniRef90_A5EVT9		M T N I Y V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_C6ZQX3		K T F V G G L S P E T S D E E L K T F F E Q Y G N V V E M E T P F			
UniRef90_U6MKK8	E D P E K E C K V F I G G I P P T M T T G T S T A S S R H G T V E S V S L I T				
UniRef90_T1AAS2		M T K I Y V G G L S P F S A S E N E R E L F S Q R G T V E S V S L I T			
UniRef90_W0TFZ1	E E Q D K T G K I F V G G I G P D V R P K E F E E F F S Q W G S I I D A Q L M L				
UniRef90_V7CDP6	Q P P E E V K I F V G N L P Y D V D S E Q L A S L F K P A G T V E V A E V I Y				
UniRef90_UPI00032AE1E7		D E G K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_C3KHJ9		D E G K L F V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_C4XL28		S S K L Y V G G L S R E W N T D D E Q L R R S H F E Q W A L L T D R V V M R			
UniRef90_V9E525	E K P D G C T S I F I G N L A W D V D E N T V R N T F A S Y G E I T S C R N L A T				
UniRef90_H3E9J7		E D R K I F V G G I A Y D V T N E D L Q T H F S Q Y G E V A Q A Q V K F			

QUERY D P N T K R S R R G F G F V T Y A T V E E V D A A M N A R P H K V D G R V V E P 80
UniRef90_I3JPM8 E R S T G K K R S R G F F C F V T T F D D H D S T V D K I V A Q K F H T I N F H N C E V R
UniRef90_G7NVZ8 D R R G S G K K K R S R G F F A F V T T F D D H D S T V D K I V I Q K Y H T V N S H N C E V R
UniRef90_S9XHT7 D R Q R S G K K K R S R G F F A F V T T F D D H D S T V D K I V I Q K Y H T V N S H N C E V R
UniRef90_H2Y680 D N S T T G K R S R K G F F G F V T T F E T E T E A D A C M E E R F P H T L N N R Q L I D V K
UniRef90_S4RV67 D K Q T T G K K R S R K G F F A F V T T F Y A A A H M V D D A Q G A R P H T K I I N C H K T L E V R
UniRef90_J9K9C9 D P Q T T K R S R R G F F G F V T T F A T A Q M A E A A M A D R P H T I L N D N G K V V D P K
UniRef90_UPI0001E46748 D P Q T T K Y S R R G F F G F V T T F A T A Q M A E A A M A D R P H T I L N D N G K V V D P K
UniRef90_G4T873 D R E T T G R S R R G F F A F V T T F S E E E A S N A I S L Q N E S T S L I L N D N G K V V D P K
UniRef90_T1PDZ8 D K E T T G K K R S R G F F A F V T T F S D D Y D P V D K I I L L Q K S H T I L K N G K N L D V K
UniRef90_F7IE80 D P N T K C S R R G F F G F V T T F Y A T E E E V D A A M S V R P H K V L D G R V V E P K
UniRef90_P07909 D K E T T G K K R S R G F F A F V T T F D D Y D P V D K V V L Q K Q P H K V L A G R K M V D V K
UniRef90_E4X6P4 D P K T T K F A K G F F A F V T T F T R G T A V D E V M T N R P H K V L A G R K M V D V K
UniRef90_I1IDU7 D G E T T G R S R R G F F G F V T T F Y S T K E E M D Q A I E L N G G T E I L E G R E I R V N
UniRef90_M4DBY8 D R E T T G K K R S R R G F F A F V T T F S D E T A A N A A I E M D Q K E S I N G N E N K I R V N
UniRef90_U6HZ21 D R E T T G R S R R G F F A F V T T F S D E T A A N A A I E M D Q K E S I N G N E N K I R V N
UniRef90_F7BTN0 D Q Q S G K K R S R R G F F A F V T T F D D H D T V D K I F V K Y H T I I N G H N C E S K
UniRef90_W5P2S3 G L A S Q K K S R R G F F G F V T T F S S V A E V D A A M A A R P H S I D S G R V V D P K
UniRef90_B0X7P8 D Q E T T K K R S R R G F F G F V T T F S F E N E A V E R A T A E H F V N I L D S G R V V D P K
UniRef90_K3VTG2 D R E T T G R S R R G F F G F V T T F S T E E Q A N A A V D A N E Q E L L D D G R Q I R V N
UniRef90_G0S0F3 D R D T T G K R S R R G F F G F V T T F R Y T N E A D A K A M D M N N V E F L D D G R Q I R V N
UniRef90_UPI000298AC11 D R D S T G K K R S R R G F F G F V T T F V D Q D S A D K S V V I K F H T I L N G H K V E V K
UniRef90_K4CF07 D R T T T G R A R R G F F G F I V F A D P A V A D R V I K E K H N I L D D G R M V E A K
UniRef90_Q99729 D P N T T G R S R R G F F G F I L F F K T D A A S V E K V L D Q K Q E H R L L D D G R V I R V N
UniRef90_UPI000455DFE5 D R E T T G R S R R G F F G F V T T F T A S P E A V D K A L E L N G K E L L D D G R S I R V N
UniRef90_K5WIU4 D R N T T G R S R R G F F G F V T T F A S P E A V D K A L E L N G K E L L D D G R S I R V N
UniRef90_A6R3X5 D R D T T N R S R R G F F G F V T T F A S P E A V D K A L E L N G K E L L D D G R S I R V N
UniRef90_M7BCR4 D K D T T Q R S R R G F F G F I T T F A S N P E H A S D A M R A M N G E V D D G R Q I R V D
UniRef90_B9SQH1 D R A T T G R A R R G F F G F V T T F A D P A V A E R V V M E K H L I D D G R N V E A K
UniRef90_R7S3D9 D R E S T G R S R R G F F G F V T T F V D V D A A K A F E A L G T E I D D G R S I R V N
UniRef90_H2L051 D R N T T Q R S R R G F F G F V T T M K R D R A S A E R A C K D P N P L I D D G R K A N L V N
UniRef90_C9YCY4 D R D T T G R S R R G F F A F V E M S T P A F A Q A A I D L N G Q S V L D D G R S I R V N
UniRef90_I4DTL1 D P M T K R S R R G F F G F V T T F S D Q A S A D A A M T T R P Q S L D D G R T I D P K
UniRef90_L9L8T2 V P A S K R S R R G F F G F V T T F S M A E A D A A M T T R P Q S L D D G R V I E P K
UniRef90_T0QU04 N R E T T N K S R R G F F G F V T T F F E T E A S V E L V L Q D K T H V I D D G K S V E V K
UniRef90_E0VUK8 D P K S R R S R R G F F G F I T Y S K A S M V D D A M N N R Q H I I V D D N R R V E A K
UniRef90_D7G4R7 D A V S R R S R R G F F G F I T Y M N S A S V D A A L S V K Q H I I V D D N R R V E A K
UniRef90_W5K1Q0 D P M T G R S R R G F F G F V T T F L K E A E S V E K V I Q Q K E H K L L N G K V I D P K
UniRef90_F5YJC7 D R D T T G N S R R G F F G F V T T F E M S T E E E A Q A A I R G N S T D L D D G R S I K V N
UniRef90_V4N533 D R V S D R S R R G F F G F V T T F E M S T E E E A Q A A I R G N S T D L D D G R S I K V N
UniRef90_H3EBD5 D R E T T G K P K G Y G F A E F S D V K S A E L A I N L N G H E L L N G R A I R V D
UniRef90_D6PZY7 D R D T T G R S R R G F F A F V S F T S T E E A A S A L A L D G Q D L H H G R Q I R V N
UniRef90_F4WAY4 D P N T T G R S R R G F F A F I V F A K A E S L D K I M S A G D H V I N N K K V D P K
UniRef90_C7YR41 D S S T T G R S R R G F F G F L T T F K D A K T V N I V M V K E H F L D D G K Q I D P K
UniRef90_D8RYI0 D K N T T N K S R R G F F A F V T T Y K T V A A R N A I D D P A N K T I V D G R K V I V K
UniRef90_Q7YTD5 D Q A T T K R S R R G F F G F I T T Y K R D P A S V E K V L A Q A H E L L D D G R K I D P K
UniRef90_K5XZH0 D R D T T G R S R R G F F G F V T T F S N S G E A D A A I N L N E Q E L L D D G R R I K V N
UniRef90_UPI000209A893 D P T T K R S R R G F F G F V T T F A D P A G V E K V L G Q P R H H E L L D D S K T I D P K
UniRef90_E6ZG37 D P V T T K R S R R G F F G F V T T Y A E Q A G V E K V L A Q N R H E L L D D G R H L K V N
UniRef90_S7ZZ83 D R D T T G R S R R G F F G F V T T F G A P E E A D A A I N L N E T E L L D D G R H L K V N
UniRef90_V8NT83 D P V T T G R S R R G F F G F V T T F K D A A S V E K V L E L K E H K L L D D G K L I D P K
UniRef90_N1RD38 D K D T T G R S R R G F F G F V T T F K E N E A G V D A C I N V P L E I H H G K P L I E V K
UniRef90_W5PPC2 D T K T N E R R R G F F C F I T Y T D E E P V K K L L E S R Y H Q I G S G K C E I K
UniRef90_I1NI06 E K N T G K P R R G F F G F V T T F A D P N I L D R V L E D K H V I D D G R T V D A K
UniRef90_W9CAS4 D G A S G R S R R G F F G F L T T Y K A D A R T V N I V M V K E H Y L D D G K I V R P D
UniRef90_K1QXS6 D P Q T T K R S R R G F F G F I T T Y E K V A M L D E C Q A N R P H K I D D G R T V E T K
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E N K K V F V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
R L F V V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
Q D P A Q R K L F I G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
R T K K L F V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
L R K M F I V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
E D D Q P R T R L Y V V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
P E P N K R L Y V V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
E A D H P G K L F I V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
R S V F V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
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Q P S R V V F V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
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K L A V L G L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
M T N L Y V V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
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K K R T L Y V V G N L S N S Y N T T R D E E Q S L K Q A F S N F F G G E V V Q S A K M I M
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