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50 60 70 80

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

QUERY	130	140	150	160
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UniRef90_UPI0003705B85	M N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E E D G G A E K K G K G Y N
UniRef90_N6WXZ7	M N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E E D G G A D K K G K G Y N
UniRef90_W9UYA1	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E E D G G A D K K G K G Y N
UniRef90_I2JHU8	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E E D G G A D K K G K G Y N
UniRef90_Q11BE3	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P E T E D G G A E K K G K G Y N
UniRef90_Q0VQ33	K N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I S D E T D G G A E K K G K G Y N
UniRef90_K9HM45	N N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P Q E A D D G A E K K G K G Y N
UniRef90_CORES0	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E A D D G A E K K G K G Y N
UniRef90_A0A031MI29	M N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E A D D G A E K K G K G Y N
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UniRef90_H1G2R8	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E E D G G A E K K G K G Y N
UniRef90_UPI0003824C28	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E E D G G A E K K G K G Y N
UniRef90_A0A011U9P9	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S S D A D D G A E K K G K G Y N
UniRef90_K2KSL1	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S D E A D D G A E K K G K G Y N
UniRef90_UPI00031346E6	N N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I D D D D D G A E R G T V Y N
UniRef90_UPI00035CBD0A	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I M G T P P A G A G G G Y D
UniRef90_B1MB69	L N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I P E E A D D G A E K K G K G Y N
UniRef90_W8H2Y6	L N A R F A L	N A S N A R W G S	L Y D A L Y G T D	V I P E E A D D G A E A G A S Y N
UniRef90_UPI000262CE06	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S N D N G D A S E P G L E Y N
UniRef90_A8TSU2	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S A N D D G D A E R T N G Y N
UniRef90_UPI000380B7BD	M N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I P E T T D D G A E K K G K G Y N
UniRef90_UPI0003FA5ADE	L N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I P S E T D D G A E K K G T S Y N
UniRef90_Q5P811	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P S E D D G G A S E K A G S Y N
UniRef90_UPI0002FD761C	D N A R Y A I	N A A N A R W G S	L Y D A L Y G T D	V I S S E E N G G A E K K A G R G Y N
UniRef90_UPI000255B778	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E E N G G A E K K A G R G Y N
UniRef90_W8ID85	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E E D G G A E R A G S Y N
UniRef90_UPI0002D4D8D6	N N A R Y A I	N A A N S R W G S	L Y D A L Y G T D	V I S S E E D G G A E R A G S Y N
UniRef90_E3HRL2	S N S R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P A T P G E D T E R H G Y N
UniRef90_V4RU28	T N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P A D T G A G L E R G G G Y N
UniRef90_R4YN64	M N A R F A L	N A S N A R W G S	L Y D A L Y G T D	V I K A I S E E E D G A T E K G G P Y N
UniRef90_UPI0004630DD9	T N A R F A I	N A A N A R W G S	L Y D A L Y G T D	V I P E E N D G A E K K A G S Y N
UniRef90_UPI0003639DEB	S N P R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P E E D D G A E R A G S Y N
UniRef90_B8KJ13	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P E E D D G A E R A G S Y N
UniRef90_E5WK14	N N G R Y A I	N A A N A R W G S	L Y D A L Y G T D	V I S E E N G G A N R K G G Y N
UniRef90_UPI00035DC403	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S E E D G G A E K K G N A Y N
UniRef90_X5S229	I N G R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P G A D D G A E M G R G Y N
UniRef90_UPI00036AF751	M N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I A E E P G L E K T A K Y N
UniRef90_UPI00046E6689	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S E E V N G G A E K K G Q G Y N
UniRef90_H2FXN4	N N A R Y C	N A A N A R W G S	L Y D A L Y G S D	V I A I P E T D D G A E K T K S L N
UniRef90_UPI00047CEC3C	L N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P H E E G G A E T G M S Y N
UniRef90_B1KED9	K N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I P E T E E G G A E L G S S Y N
UniRef90_W8X896	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P E T E D G A E R A G S Y N
UniRef90_Q5WZF6	N N A R F A I	N A A N A R W G S	L Y D A L Y G T D	V I S E E A G A D K K G N A Y N
UniRef90_B7GJS2	T N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S E E E D G G A E R G K G Y N
UniRef90_UPI00047C6ED6	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P E S E G A E E R G T S Y N
UniRef90_V4JLR4	N N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I A E D D D G A E E R G S A F N
UniRef90_A0A031MCV2	M N G R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I A E D D D G A E E R G P G Y N
UniRef90_F6EMM0	L N A R F A I	N A A N A R W G S	L Y D A L Y G T D	V I P E D D G A E K G T S Y N
UniRef90_W9GYM9	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P S E D D G E R T S T P G Y D
UniRef90_C1DFQ4	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I G E E G D G A E K S S A Y N
UniRef90_W0P6L3	T N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S E E E D G A T R D S G G Y N
UniRef90_A6GUD0	L N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S E E G G A E R A G G G Y N
UniRef90_G8MNP4	S N L R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I D E S G G A E R T A Q F N
UniRef90_W1N6T3	N N P R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S E E E D G G C E K G S S F N
UniRef90_R4V5T1	N N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P D A D D G A E K K G S A F N
UniRef90_F4PFC8	D N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S E E E D G G A E K K G A Y N
UniRef90_F2F4A0	S N A R Y A I	N A A N A R W G S	F Y D A L Y G T D	V I S S E E D G T E A G K G Y N
UniRef90_NOB1X5	N N P R Y A I	N A A N A R W G S	L Y D A L Y G T D	V I S E E N G T E R R K G Y N
UniRef90_UPI000469BE42	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S E E D D G A E R R G G A Y N
UniRef90_D3RPC6	S N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P E D E G L E R G A E F N
UniRef90_G4E4B6	S N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I A D D S G E T A R G G A D Y N
UniRef90_S6GMD0	M N A R F A L	N A V N A R W G S	L Y D A L Y G T D	V I D D Q D D C A A G S E Y N
UniRef90_X0R338	R N A R Y A L	N A T N A R W G S	L Y D A L Y G T D	V I S D E N G G Q A E K G G Y N
UniRef90_W6V857	V N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S N D N G G A E P G R T Y N
UniRef90_A0Z7A6	M N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I P E D N G G A E R A G G Y N
UniRef90_UPI0002F94F45	N N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P T E G G S E E R G K T F N
UniRef90_F7Q9E0	T N A R F S L	N A A N A R W G S	L Y D A L Y G A D	V I P E T D N G A E K K G T S Y N
UniRef90_H0JF11	L N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P E T E D G A E R G K G Y N
UniRef90_B1VEG9	L N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I S E E N G Q E K G T G Y N
UniRef90_UPI0002F88F59	N N A R Y A I	N A A N A R W G S	L Y D A L Y G T D	V I S E E K N G A E L G S T Y N
UniRef90_UPI00029B53F9	M N A R F A L	N A G N A R W G S	L Y D A L Y G T D	V I P E T D D G A E P G S S Y N
UniRef90_H0A904	N N A R Y A L	N A G N A R W G S	L Y D A L Y G T D	V I P E E E G L A R G K G F N
UniRef90_E5XNU5	L N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S E E D D G A E K K G T S Y N
UniRef90_F1VV90	L N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S E T D D G A T K G Q G Y N
UniRef90_UPI0003B37E88	R N A R Y A L	N A A N A R W G S	L Y D A L Y G F D	V I D E A D D G A E K K G K G Y N
UniRef90_B8CPB6	K N A R F A L	N A A N A R W G S	L Y D A L Y G T D	V I S E S N D G A E L T K T Y N
UniRef90_L0DZW2	S N A R Y A L	N A V N A R W G S	L Y D A L Y G T D	V I P S D D D G A E R R A D Y N
UniRef90_Q1YEU5	M N A R Y T L	N A A N A R W T S	L Y D A L Y G T D	V I M G M P E R R A D Y N
UniRef90_L0GX25	S N P R Y A L	N A A N A R W G S	L Y D A L Y G S D	V I V P E E A D D G C E R R A D Y N
UniRef90_L1LRV8	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I M I D E A D D G A Q K S G G Y N
UniRef90_F9DWJ7	D N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S D E A D G A E A G V K Y N
UniRef90_I0HY39	T N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I A L P E T S D G A E T R A G A Y N
UniRef90_C8X008	N N P R Y A L	N A A N S R W G S	L Y D A L Y G T D	V I P E T D D G A E K T A E Y N
UniRef90_UPI00036F2076	S N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I A P V D P S A M G Y D
UniRef90_H3NXV9	M N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S S E E D G A V R A G G Y N
UniRef90_S6IDQ6	V N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I S S A N G A D L S A G Y N
UniRef90_W2UGC8	M N A R F A L	N A V N A R W G S	L Y D A L Y G N D	V I S S E E D G A A K V G P Y N
UniRef90_V4YUZ9	L N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I A E D G G A A K G P G Y N
UniRef90_W3RJV9	T N A R Y A L	N A A N A R W G S	L Y D A L Y G T D	V I P H A P E D A A V K G Y N
UniRef90_UPI0003B567F1	S N E R F A I	N A A N A R W G S	L Y D S L Y G S D	V I N E A G G A E Q K Q S Y N

QUERY	170	180	190	200
UniRef90_UPI000255A91C	K[V]R	G D K	V I	A Y A R K F L
UniRef90_UPI0003705B85	P[V]R	G A K	V I	A F A R R D F
UniRef90_N6WXZ7	P[V]R	G A K	V I	E Y F A R T F
UniRef90_W9UYA1	P[V]R	G A K	V I	E Y F A R R N
UniRef90_I2JHU8	P[V]R	G A K	V I	A Y A R R Q F
UniRef90_Q11BE3	P[V]R	G E K	V I	A W A R K F F
UniRef90_Q0VQ33	P[V]R	G A K	V I	A W A R D F L
UniRef90_K9HM45	P[V]R	G A K	V I	A F V R D F L
UniRef90_CORES0	P[V]R	G E K	V I	A W A K N F L
UniRef90_A0A031MI29	Q[V]R	G D K	V I	A F A R T F L
UniRef90_UPI000364FBA2	P[V]R	G A K	V I	E F A R R F L
UniRef90_H1G2R8	P[V]R	G E K	V I	E F A R E F L
UniRef90_UPI0003824C28	P[V]R	G Q K	V I	A W S R G F L
UniRef90_A0A011U9P9	P[V]R	G A K	V I	A W G R N F L
UniRef90_K2KSL1	P[V]R	G A K	V I	A Y A R N F L
UniRef90_UPI00031346E6	P[V]R	G E R	V I	A F A K D F L
UniRef90_UPI00035CBDOA	E[V]R	G A K	V I	A Y A R K F L
UniRef90_B1MB69	K[V]R	G D K	V I	A Y A R E F L
UniRef90_W8H2Y6	K[V]R	G D R	V I	A W A R T F L
UniRef90_UPI000262CE06	P[V]R	G E K	V I	A F A K T F L
UniRef90_A8TSU2	P[V]R	G A K	V I	A W A R G F L
UniRef90_UPI000380B7BD	P[V]R	G R K	V I	E F G R E F L
UniRef90_UPI0003FA5ADE	K[V]R	G D K	V I	A Y A K A F L
UniRef90_Q5P811	P[V]R	G A R	V I	A F A R N F L
UniRef90_UPI0002FD761C	P[V]R	G N K	V I	R Y A K D F L
UniRef90_UPI000255B778	P[V]R	G N K	V I	E Y G R E F L
UniRef90_W8ID85	P[V]R	G T K	V I	A W A R D F L
UniRef90_UPI0002D4D8D6	P[V]R	G A K	V I	E F A K N F L
UniRef90_E3HRL2	P[V]R	G A A	V I	A R A R A F L
UniRef90_V4RU28	P[V]R	G E E	V I	R R A K A F L
UniRef90_R4YN64	Q[V]R	G D K	V I	A Y A R D F L
UniRef90_UPI0004630DD9	R[V]R	G D K	V I	E W A R N F L
UniRef90_UPI0003639DEB	P[V]R	G R K	V I	S H A S A Y L
UniRef90_B8KJ13	P[V]R	G A K	V I	A W A R D F L
UniRef90_E5WK14	P[V]R	G E K	V I	A F A R E F L
UniRef90_UPI00035DC403	P[V]R	G D K	V I	K F G R D F L
UniRef90_X5S229	A[V]R	C E K	V I	D W G R N F L
UniRef90_UPI00036AF751	T[V]R	G A K	V I	A K A A G F L
UniRef90_UPI00046E6689	P[V]R	G A K	V I	A Y A K G F L
UniRef90_H2FXN4	P[V]R	R A E	V I	V W G R N F L
UniRef90_UPI00047CEC3C	P[V]R	G A K	V I	A F A R Q F L
UniRef90_B1KED9	P[V]R	G D K	V I	A F A K Q F L
UniRef90_W8X896	P[V]R	G A R	V I	A F A R R F L
UniRef90_Q5WZF6	P[V]R	G A K	V I	A Y A K Q F L
UniRef90_B7GJS2	P[V]R	G E K	V I	A Y V R E F L
UniRef90_UPI00047C6ED6	P[V]R	G E K	V I	A F A R D F L
UniRef90_V4JLR4	P[V]R	G A R	V I	A A A N E F L
UniRef90_A0A031MCV2	P[V]R	G D K	V I	A F A R D F L
UniRef90_F6EMM0	K[V]R	G D K	V I	A Y A R N F L
UniRef90_W9GYM9	P[V]R	G A K	V I	A F A R R A L
UniRef90_C1DFQ4	A[V]R	G A R	V I	A F A R A F L
UniRef90_W0P6L3	P[V]R	G E K	V I	A F A R D F L
UniRef90_A6GUD0	P[V]R	G A K	V I	E F A R N F L
UniRef90_G8MNP4	P[V]R	G A K	V I	A Y A R A F L
UniRef90_W1N6T3	P[V]R	G E K	V I	A Y A R N F L
UniRef90_R4V5T1	P[V]R	E A K	V I	A W A A A F L
UniRef90_F4PFC8	P[V]R	G E K	V I	A F A K N F L
UniRef90_F2F4A0	P[V]R	G N K	V I	D Y A K K F L
UniRef90_NOB1X5	P[V]R	G A K	V I	T Y G K Q F L
UniRef90_UPI000469BE42	P[V]R	G A K	V I	A Y A R Q F L
UniRef90_D3RPC6	P[V]R	A A A	V I	E R A A I F L
UniRef90_G4E4B6	P[V]R	S R G	H V	A F G R R F L
UniRef90_S6GMD0	P[V]R	R R G	Q K	T I A Y A R A F L
UniRef90_X0R338	P[V]R	T R G	A A	V V E R A A I F L
UniRef90_W6V857	P[V]R	G A K	V I	A F A R G F L
UniRef90_A0Z7A6	P[V]R	G D R	V I	A W A R A F L
UniRef90_UPI0002F94F45	P[V]R	L R G	D K	V V S Y A K K F L
UniRef90_F7Q9E0	P[V]R	G A K	V I	E W A K F F L
UniRef90_H0JF11	P[V]R	A R G	A K	V V E F A R Q F L
UniRef90_B1VEG9	K[V]R	G D K	V I	E W G R E F L
UniRef90_UPI0002F88F59	P[V]R	G Q K	V I	E F A R E F L
UniRef90_UPI00029B53F9	K[V]R	G D R	V I	A W A R E F L
UniRef90_H0A904	A[V]R	G A K	V I	A K A R Q F L
UniRef90_E5XNU5	P[V]R	G A K	V I	A Y A R A A L
UniRef90_F1VV90	P[V]R	L R G	A K	V V E F A R N F L
UniRef90_UPI0003B37E88	P[V]R	A R G	A K	V I A Y A R N F L
UniRef90_B8CPB6	P[V]R	Q R G	A K	V I A F A K Q F L
UniRef90_L0DZW2	P[V]R	Z W G	E R	V I A Y A R D F L
UniRef90_Q1YEU5	R[V]R	G A R	V V	T W A K S F L
UniRef90_L0GX25	P[V]R	R G A	A V	V A W A N R F L
UniRef90_L1LRV8	P[V]R	T R G	A R	V V A Y A K A F L
UniRef90_F9DWJ7	P[V]R	I R G	Q K	V I N F A K D F L
UniRef90_I0HY39	P[V]R	G A K	V I	E Y A R Y F L
UniRef90_C8X008	P[V]R	G E K	V I	E H A R F F L
UniRef90_UPI00036F2076	P[V]R	A R G	A M	V I A K A R A F L
UniRef90_H3NXV9	P[V]R	L R G	H K	V I E W A R D F L
UniRef90_S6IDQ6	P[V]R	L R G	A K	V I A A A R A F L
UniRef90_W2UGC8	P[V]R	G Q K	V I	D Y G R E L L
UniRef90_V4YUZ9	E[V]R	G A K	V I	A F A R N F L
UniRef90_W3RJV9	K[V]R	G D K	V I	A K A K A F L
UniRef90_UPI0003B567F1	P[V]R	G E K	V I	A Y A K Q F L

QUERY	L	I	D	P	E	S	Q	V	250	260	270	280																																			
UniRef90_UPI000255A91C	Q	I	D	R	D	S	Q	V	G	G	K	T	D	R	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI0003705B85	Q	I	D	A	E	S	P	I	G	G	K	T	D	D	A	G	H	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A	
UniRef90_N6WXZ7	Q	I	D	A	N	S	H	P	I	G	G	K	D	D	S	A	G	H	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A
UniRef90_W9UYA1	Q	I	D	A	N	S	H	P	I	G	G	K	D	D	S	A	G	H	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A
UniRef90_I2JHU8	Q	I	D	D	R	N	H	P	I	G	G	K	D	D	R	A	R	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A	
UniRef90_Q11BE3	Q	I	D	R	N	H	P	I	G	G	K	D	D	R	A	R	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_Q0VQ33	Q	I	D	A	S	H	P	I	G	G	K	D	D	A	A	A	N	M	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A	
UniRef90_K9HM45	Q	I	D	A	D	H	P	I	G	G	K	D	D	P	A	H	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_CORES0	V	I	D	A	D	H	P	I	G	G	K	D	D	P	A	H	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_A0A031MI29	Q	I	D	R	E	S	P	I	G	G	K	T	D	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI000364FBA2	Q	I	D	N	R	A	G	T	G	G	K	T	D	S	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A	
UniRef90_H1G2R8	Q	I	D	P	S	S	T	V	G	G	K	T	D	S	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A	
UniRef90_UPI0003824C28	V	I	D	A	L	T	P	T	G	G	K	D	D	P	A	H	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_A0A011U9P9	V	I	D	R	D	S	V	I	G	G	K	R	D	D	K	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A	
UniRef90_K2KSL1	H	I	D	P	T	H	P	I	G	G	K	T	D	P	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI00031346E6	Q	I	D	R	S	H	P	I	G	G	K	T	D	P	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI00035CBDOA	L	I	D	R	T	H	R	I	G	G	A	T	D	K	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_B1MB69	L	I	D	P	D	S	P	I	G	G	S	T	D	K	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_W8H2Y6	Q	I	D	P	T	S	P	I	G	G	S	T	D	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI000262CE06	Q	I	D	K	T	K	P	V	G	G	S	S	D	P	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_A8TSU2	V	I	D	R	S	H	P	I	G	G	K	T	D	P	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI000380B7BD	Q	I	D	P	D	G	V	I	G	G	K	E	D	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI0003FA5ADE	Q	I	D	P	S	S	P	I	G	G	S	T	D	R	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A	
UniRef90_Q5P811	Q	I	D	R	K	H	P	I	G	G	K	T	D	R	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A	
UniRef90_UPI0002FD761C	Q	I	D	R	V	H	P	I	G	G	S	T	D	Q	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI000255B778	Q	I	D	P	N	S	P	I	G	G	K	T	D	K	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_W8ID85	V	I	D	A	T	T	P	I	G	G	K	D	D	P	A	H	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI0002D4D8D6	Q	I	D	R	S	H	S	I	G	G	K	D	D	Q	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_E3HRL2	Q	I	D	R	G	H	S	I	G	G	A	T	D	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_V4RU28	V	I	D	R	A	H	P	I	G	G	R	T	D	K	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_R4YN64	Q	I	D	A	T	S	P	I	G	G	S	T	D	A	T	G	M	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI0004630DD9	R	I	D	P	D	S	P	I	G	G	R	D	D	S	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A	
UniRef90_UPI0003639DEB	Q	I	D	P	E	H	P	V	G	G	R	D	H	P	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_B8KJ13	Q	I	D	A	S	S	P	I	G	G	A	E	D	Q	A	S	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_E5WK14	Q	I	D	R	S	H	P	I	G	G	K	T	D	D	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI00035DC403	Q	I	D	K	S	N	L	I	G	G	A	Q	D	D	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_X5S229	V	I	D	P	T	S	P	I	G	G	V	D	L	V	A	D	I	S	D	V	R	L	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI00036AF751	Q	I	D	R	G	H	P	V	G	G	A	S	S	R	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI00046E6689	L	I	D	P	Q	S	P	I	G	G	K	D	D	P	T	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_H2FXN4	Q	I	D	A	A	N	S	V	A	Q	L	D	K	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A			
UniRef90_UPI00047CEC3C	Q	I	D	R	N	T	S	I	G	G	K	S	D	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_B1KED9	Q	I	D	K	D	H	R	I	G	G	K	Q	D	S	A	N	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_W8X896	Q	I	D	A	D	H	P	I	G	G	R	T	D	A	A	H	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_Q5WZF6	Q	I	D	A	T	H	P	I	G	G	Q	T	D	P	A	N	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_B7GJS2	Q	I	D	R	T	H	P	I	G	G	Q	T	D	P	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_UPI00047C6ED6	V	I	D	R	Q	H	P	I	G	G	K	S	D	A	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_V4JLR4	L	I	D	R	T	H	P	V	G	G	A	T	S	P	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_A0A031MCV2	Q	I	D	R	E	H	P	V	G	G	K	T	D	P	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_F6EMM0	Q	I	D	P	E	S	P	I	G	G	K	T	D	P	A	G	V	K	D	V	L	M	E	S	A	A	L	L	T	T	T	T	M	D	D	F	E	D	S	V	A	A	V	D	A		
UniRef90_W9GYM9	R	I	D	R	G																																										

QUERY UniRef90_UPI000255A91C UniRef90_UPI0003705B85 UniRef90_N6WXZ7 UniRef90_W9UYA1 UniRef90_I2JHU8 UniRef90_Q11BE3 UniRef90_Q0VQ33 UniRef90_K9HM45 UniRef90_CORES0 UniRef90_A0A031MI29 UniRef90_UPI000364FBA2 UniRef90_H1G2R8 UniRef90_UPI0003824C28 UniRef90_A0A011U9P9 UniRef90_K2KSL1 UniRef90_UPI00031346E6 UniRef90_UPI00035CBDOA UniRef90_B1MB69 UniRef90_W8H2Y6 UniRef90_UPI000262CE06 UniRef90_A8TSU2 UniRef90_UPI000380B7BD UniRef90_UPI0003FA5ADE UniRef90_Q5P811 UniRef90_UPI0002FD761C UniRef90_UPI000255B778 UniRef90_W8ID85 UniRef90_UPI0002D4D8D6 UniRef90_E3HRL2 UniRef90_V4RU28 UniRef90_R4YN64 UniRef90_UPI0004630DD9 UniRef90_UPI0003639DEB UniRef90_B8KJ13 UniRef90_E5WK14 UniRef90_UPI00035DC403 UniRef90_X5S229 UniRef90_UPI00036AF751 UniRef90_UPI00046E6689 UniRef90_H2FXN4 UniRef90_UPI00047CEC3C UniRef90_B1KED9 UniRef90_W8X896 UniRef90_Q5WZF6 UniRef90_B7GJS2 UniRef90_UPI00047C6ED6 UniRef90_V4JLR4 UniRef90_UPI000469BE42 UniRef90_F6EMM0 UniRef90_W9GYM9 UniRef90_C1DFQ4 UniRef90_W0P6L3 UniRef90_A6GUD0 UniRef90_G8MNP4 UniRef90_W1N6T3 UniRef90_R4V5T1 UniRef90_F4PFC8 UniRef90_F2F4A0 UniRef90_NOB1X5 UniRef90_UPI000469BE42 UniRef90_D3RPC6 UniRef90_G4E4B6 UniRef90_S6GMD0 UniRef90_X0R338 UniRef90_W6V857 UniRef90_A0Z7A6 UniRef90_UPI0002F94F45 UniRef90_F7Q9E0 UniRef90_H0JF11 UniRef90_B1VEG9 UniRef90_UPI0002F88F59 UniRef90_UPI00029B53F9 UniRef90_H0A904 UniRef90_E5XNU5 UniRef90_F1VV90 UniRef90_UPI0003B37E88 UniRef90_B8CPB6 UniRef90_L0DZW2 UniRef90_Q1YEU5 UniRef90_L0GX25 UniRef90_L1LRV8 UniRef90_F9DWJ7 UniRef90_I0HY39 UniRef90_C8X008 UniRef90_UPI00036F2076 UniRef90_H3NXV9 UniRef90_S6IDQ6 UniRef90_W2UGC8 UniRef90_V4YUZ9 UniRef90_W3RJV9 UniRef90_UPI0003B567F1

290 300 310 320

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

QUERY	L	P	G	R	S	L	M	F	V	330	V	G	H	L	M	T	N	D	A	I	V	340	V	D	T	D	G	S	E	V	350	F	G	I	M	D	A	L	F	T	G	360				
UniRef90_UPI000255A91C	L	K	G	R	S	L	M	F	V	R	N	V	G	H	L	M	T	N	D	A	I	V	D	T	D	G	S	E	V	F	G	I	M	D	A	L	F	T	G							
UniRef90_UPI0003705B85	L	P	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	N	D	A	I	V	D	D	K	D	D	G	N	E	E	V	P	E	G	I	L	D	G	M	I	T	S			
UniRef90_N6WXZ7	L	L	K	G	R	S	L	L	M	F	V	R	N	V	G	H	L	M	T	N	D	A	I	V	D	D	K	D	D	G	N	E	E	V	P	E	G	I	L	D	G	L	T	S		
UniRef90_W9UYA1	L	L	K	G	R	S	L	L	M	F	V	R	N	V	G	H	L	M	T	N	D	A	I	V	D	D	K	D	D	G	N	E	E	V	P	E	G	I	L	M	D	G	L	V	T	S
UniRef90_I2JHU8	L	H	G	R	S	L	L	L	V	R	N	V	G	H	L	M	T	N	E	A	I	V	L	D	D	A	D	D	G	F	K	E	V	P	E	G	I	M	D	A	M	V	T	V		
UniRef90_Q11BE3	L	L	P	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	D	R	D	D	G	K	E	V	P	E	G	I	M	D	A	M	F	T	A		
UniRef90_Q0VQ33	L	L	H	G	R	S	L	L	L	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	H	N	D	G	E	E	T	P	E	G	I	M	D	G	M	V	T	V				
UniRef90_K9HM45	L	L	P	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	N	D	A	V	L	L	D	A	E	G	N	E	V	P	E	G	F	L	D	A	M	C	A	F	T	S	
UniRef90_CORES0	L	L	K	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	D	A	E	G	N	E	V	P	E	G	I	M	D	A	A	F	T	S	S		
UniRef90_A0A031MI29	L	H	G	R	S	M	L	F	I	R	N	V	G	H	L	M	T	N	D	A	I	V	L	D	K	D	D	G	F	E	E	A	P	E	G	I	L	D	C	V	F	T	A	S		
UniRef90_UPI000364FBA2	L	L	H	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	D	D	Q	D	D	G	Q	N	E	V	P	E	G	I	L	M	D	G	Y	L	T	S
UniRef90_H1G2R8	L	L	P	G	R	S	L	L	M	F	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	Q	D	Q	D	D	G	N	E	V	P	E	G	I	L	D	G	M	I	T	S	S
UniRef90_UPI0003824C28	L	L	K	G	R	A	L	M	L	V	R	N	V	G	H	L	M	T	N	P	A	V	L	F	D	R	D	D	G	N	E	V	P	E	G	I	M	D	A	M	I	T	G	A		
UniRef90_A0A011U9P9	L	L	P	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	L	R	D	D	G	N	E	V	P	E	G	I	M	D	A	A	V	I	T	A	S
UniRef90_K2KSL1	L	L	P	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	T	D	A	V	L	L	D	A	N	G	D	E	V	P	E	G	F	L	D	A	A	M	V	T	S	S	
UniRef90_UPI00031346E6	L	L	P	G	R	S	L	L	L	V	R	N	V	G	H	L	M	T	S	Q	A	V	L	L	D	Q	D	D	G	Q	E	V	P	E	G	I	M	D	A	V	I	T	S	S		
UniRef90_UPI00035CBDOA	L	L	H	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	N	D	A	V	L	D	D	A	A	G	N	E	M	P	E	G	I	L	D	G	M	V	T	A	S	S	
UniRef90_B1MB69	L	L	P	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	N	D	A	I	V	L	D	A	A	G	N	E	M	P	E	G	I	Q	D	A	L	F	T	S	S			
UniRef90_W8H2Y6	L	L	H	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	T	P	A	I	V	L	H	G	D	G	T	E	V	P	E	G	I	L	D	A	L	I	T	S	S			
UniRef90_UPI000262CE06	L	L	P	G	R	A	L	M	F	V	R	N	V	G	H	L	M	T	N	E	A	I	V	L	D	S	D	D	G	N	E	V	P	E	G	I	L	D	A	L	F	T	T	S		
UniRef90_A8TSU2	L	L	H	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	D	S	D	G	N	E	V	P	E	G	I	L	D	A	L	F	T	S	S		
UniRef90_UPI000380B7BD	L	L	P	G	R	S	L	L	M	F	V	R	N	V	G	H	L	M	T	N	D	A	I	V	L	D	A	Q	G	N	E	V	P	E	G	I	M	D	G	M	F	T	S	S		
UniRef90_UPI0003FA5ADE	L	L	H	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	N	P	A	V	L	D	A	E	G	G	N	E	V	P	E	G	I	L	D	A	L	V	T	S	S			
UniRef90_Q5P811	L	L	H	G	R	S	L	L	F	I	R	H	V	G	H	L	M	T	N	P	A	I	V	L	L	A	D	G	N	E	V	P	E	G	I	M	D	G	V	V	T	T	S	S		
UniRef90_UPI0002FD761C	L	L	H	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	T	N	A	V	L	D	Q	N	G	N	E	V	P	E	G	I	M	D	G	L	I	T	S	S				
UniRef90_UPI000255B778	L	L	P	G	R	S	L	L	M	F	V	R	N	V	G	H	L	M	T	N	D	A	V	L	D	R	D	D	G	N	E	V	P	E	G	I	L	D	A	M	V	T	S	S		
UniRef90_W8ID85	L	L	P	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	D	R	D	D	G	N	E	V	P	E	G	I	M	D	A	M	A	T	A	S	S
UniRef90_UPI0002D4D8D6	L	L	N	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	S	A	I	V	L	D	K	D	D	G	N	E	V	Y	E	G	I	L	D	G	V	I	T	S	S			
UniRef90_E3HRL2	L	L	H	G	R	S	L	L	M	F	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	D	R	E	G	N	E	V	P	E	G	I	L	D	A	M	V	T	S	S		
UniRef90_V4RU28	L	L	P	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	D	R	E	G	N	E	V	P	E	E	L	L	D	G	M	V	T	S	S		
UniRef90_R4YN64	V	K	G	R	S	M	L	F	I	R	N	V	G	H	L	M	T	N	P	A	I	V	L	L	A	D	G	A	N	E	V	P	E	G	I	M	D	A	M	M	T	V	S	S		
UniRef90_UPI0004630DD9	V	H	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	S	D	A	I	V	L	D	K	N	G	D	E	V	P	E	G	I	L	D	G	L	F	T	A	S	S			
UniRef90_UPI0003639DEB	L	L	Q	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	T	P	A	V	L	D	A	S	G	E	V	P	E	G	M	L	D	A	L	F	T	A	S	S			
UniRef90_B8KJ13	L	L	P	G	R	S	L	L	M	F	V	R	N	V	G	H	L	M	T	N	E	A	I	V	L	D	N	S	G	K	E	V	P	E	G	I	M	D	A	M	F	T	A	S	S	
UniRef90_E5WK14	L	L	S	G	R	S	L	L	M	F	V	R	N	V	G	H	L	M	S	N	A	I	V	L	D	A	D	G	N	E	V	Q	E	G	I	L	D	T	V	I	T	S	S			
UniRef90_UPI00035DC403	L	L	H	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	N	P	T	I	V	L	L	A	D	G	N	E	V	P	E	G	I	M	D	G	L	V	T	T	S	S		
UniRef90_X5S229	L	L	R	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	N	P	A	V	L	D	R	D	G	N	E	V	P	E	G	I	M	D	A	M	V	T	A	S	S		
UniRef90_UPI00036AF751	L	L	P	G	R	S	L	L	L	V	R	N	V	G	H	L	M	S	T	P	A	V	L	D	V	A	Q	G	E	V	S	E	G	L	D	A	L	M	V	T	S	S				
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UniRef90_H2FXN4	L	L	H	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	N	E	A	V	L	D	K	D	G	N	E	V	P	E	G	I	I	D	G	L	V	T	C	A	S	S		
UniRef90_UPI00047CEC3C	L	L	H	G	H	S	L	L	F	I	R	N	V	G	H	L	M	T	N	P	A	I	V	L	Y	G	G	G	K	E	V	P	E	G	I	L	D	A	M	V	T	T	S	S		
UniRef90_B1KED9	L	L	P	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	N	N	A	I	V	L	D	K	D	G	K	E	V	P	E	G	I	L	D	A	G	M	V	T	V	S	S	
UniRef90_W8X896	L	L	H	G	R	S	L	L	M	F	V	R	N	V	G	H	L	M	T	N	P	A	I	V	L	D	R	D	G	G	E	V	P	E	G	I	L	D	A	V	C	A	T	S	S	
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UniRef90_B7GJS2	L	L	L	P	G	R	S	L	L	M	F	V	R	N	V	G	H	L	M	T	N	N	T	I	L	E	N	G	E	V	Y	E	G	I	L	L	D	A	V	V	T	T	S	S		
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UniRef90_V4JLR4	L	L	P	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	T	D	A	V	L	S	A	D	G	A	E	V	P	E	G	I	L	L	D	A	M	V	T	V	S	S	
UniRef90_A0A031MCV2	L	L	H	G	R	S	L	L	F	I	R	N	V	G	H	L	M	T	N	P	A	I	V	L	L	K	D	G	N	E	V	P	E	G	I	M	D	A	V	C	A	T	S	S		
UniRef90_F6EMM0	L	L	L	P	G	R	S	L	L	F	V	R	N	V	G	H	L	M	T	S	D	A	I	V	L	D	A	D	G	N	E	V	P	E	G	I	L	L	D	A	L	F	T	S	S	
UniRef90_W9GYM9	L	L	L	P	G	R	S	L	L	M	L	V	R	N	V	G	H	L	M	T	L	D	A	V	L	K	S	D	G	S	E	A	P	E	G	M	L	D	A	L	F	T	T	S</		

QUERY UniRef90_UPI000255A91C UniRef90_UPI0003705B85 UniRef90_N6VXZ7 UniRef90_W9UYA1 UniRef90_I2JHU8 UniRef90_Q11BE3 UniRef90_Q0VQ33 UniRef90_K9HM45 UniRef90_CORES0 UniRef90_A0A031MI29 UniRef90_UPI000364FBA2 UniRef90_H1G2R8 UniRef90_UPI0003824C28 UniRef90_A0A011U9P9 UniRef90_K2KSL1 UniRef90_UPI00031346E6 UniRef90_UPI00035CBDOA UniRef90_B1MB69 UniRef90_W8H2Y6 UniRef90_UPI000262CE06 UniRef90_A8TSU2 UniRef90_UPI000380B7BD UniRef90_UPI0003FA5ADE UniRef90_Q5P811 UniRef90_UPI0002FD761C UniRef90_UPI000255B778 UniRef90_W8ID85 UniRef90_UPI0002D4D8D6 UniRef90_E3HRL2 UniRef90_V4RU28 UniRef90_R4YN64 UniRef90_UPI0004630DD9 UniRef90_UPI0003639DEB UniRef90_B8KJ13 UniRef90_E5WK14 UniRef90_UPI00035DC403 UniRef90_X5S229 UniRef90_UPI00036AF751 UniRef90_UPI00046E6689 UniRef90_H2FXN4 UniRef90_UPI00047CEC3C UniRef90_B1KED9 UniRef90_W8X896 UniRef90_Q5WZF6 UniRef90_B7GJS2 UniRef90_UPI00047C6ED6 UniRef90_V4JLR4 UniRef90_A0A031MCV2 UniRef90_F6EMM0 UniRef90_W9GYM9 UniRef90_C1DFQ4 UniRef90_W0P6L3 UniRef90_A6GUD0 UniRef90_G8MNP4 UniRef90_W1N6T3 UniRef90_R4V5T1 UniRef90_F4PFC8 UniRef90_F2F4A0 UniRef90_NOB1X5 UniRef90_UPI000469BE42 UniRef90_D3RPC6 UniRef90_G4E4B6 UniRef90_S6GMD0 UniRef90_X0R338 UniRef90_W6V857 UniRef90_A0Z7A6 UniRef90_UPI0002F94F45 UniRef90_F7Q9E0 UniRef90_H0JF11 UniRef90_B1VEG9 UniRef90_UPI0002F88F59 UniRef90_UPI00029B53F9 UniRef90_H0A904 UniRef90_E5XNU5 UniRef90_F1VV90 UniRef90_UPI0003B37E88 UniRef90_B8CPB6 UniRef90_L0DZW2 UniRef90_Q1YEU5 UniRef90_L0GX25 UniRef90_L1LRV8 UniRef90_F9DWJ7 UniRef90_I0HY39 UniRef90_C8X008 UniRef90_UPI00036F2076 UniRef90_H3NXV9 UniRef90_S6IDQ6 UniRef90_W2UGC8 UniRef90_V4YUZ9 UniRef90_W3RJV9 UniRef90_UPI0003B567F1

370 380 390 400

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

QUERY	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	V	R	K	G	T	M	K	S	Q	P	W	L	A				
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UniRef90_UPI0003705B85	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	V	R	K	A	V	M	K	Q	A	P	W	I	N	A		
UniRef90_N6WXZ7	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	V	R	K	G	E	M	K	Q	A	W	I	N	Q	A		
UniRef90_W9UYA1	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	L	R	K	N	D	M	K	A	T	P	W	I	K	A		
UniRef90_I2JHU8	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	F	V	R	K	A	D	M	K	Q	S	T	W	I	N	A		
UniRef90_Q11BE3	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	L	R	K	G	A	D	M	K	Q	S	T	W	I	N	A	
UniRef90_Q0VQ33	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	A	P	K	G	E	M	K	T	L	P	W	I	S	A		
UniRef90_K9HM45	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	I	R	K	G	A	M	K	E	T	P	W	I	K	G	A	
UniRef90_CORE05	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	I	R	K	G	D	M	K	A	A	W	I	K	G	A		
UniRef90_AOA031MI29	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	V	V	R	K	A	A	M	K	A	E	K	W	I	G	A		
UniRef90_UPI000364FBA2	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	L	R	K	G	D	M	K	A	A	A	W	I	K	S	A	
UniRef90_H1G2R8	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	M	R	K	G	A	M	K	A	A	R	W	L	S	A		
UniRef90_UPI0003824C28	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	I	R	K	G	D	M	K	Q	A	A	W	I	S	A		
UniRef90_AOA011U9P9	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	I	R	K	G	D	M	K	A	A	A	W	I	G	A		
UniRef90_K2KSL1	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	V	R	K	E	A	M	K	D	Q	Y	W	I	A	A		
UniRef90_UPI00031346E6	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	L	R	K	N	E	M	K	T	T	R	W	L	S	A		
UniRef90_UPI00035CBDOA	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	L	R	K	G	D	M	K	S	A	A	W	I	S	A		
UniRef90_B1MB69	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	C	R	K	A	V	M	K	S	Q	P	W	I	L	A		
UniRef90_W8H2Y6	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	I	R	K	A	E	M	K	K	Q	T	W	I	T	A		
UniRef90_UPI000262CE06	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	H	A	G	P	M	I	R	K	V	H	M	K	A	S	T	W	I	N	G	A	
UniRef90_A8TSU2	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	I	R	K	A	D	M	K	A	S	T	W	I	N	G	A	
UniRef90_UPI000380B7BD	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	V	V	P	K	G	E	M	K	Q	S	T	W	L	Q	N	A	
UniRef90_UPI0003FA5ADE	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	F	V	R	K	A	E	M	K	Q	S	T	W	L	Q	N	A	
UniRef90_Q5P811	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	I	R	K	G	D	M	K	G	S	A	W	I	N	Q	A	
UniRef90_UPI0002FD761C	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	I	R	K	N	E	M	K	S	S	I	W	L	Q	S	A	
UniRef90_UPI000255B778	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	L	A	G	P	M	I	R	K	G	E	M	K	S	K	W	I	A	A	G	A	
UniRef90_W8ID85	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	I	R	K	G	D	M	K	Q	A	A	W	I	L	Q	S	A
UniRef90_UPI0002D4D8D6	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	I	R	K	N	D	M	K	S	S	V	W	L	Q	S	A	
UniRef90_E3HRL2	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	L	R	K	G	D	M	K	S	T	A	W	I	T	A	A	
UniRef90_V4RU28	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	E	L	G	P	M	I	R	K	G	D	M	K	A	S	T	W	I	Q	A	A	
UniRef90_R4YN64	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	L	A	G	P	F	V	P	K	S	V	M	K	Q	Q	T	W	I	G	A	A	
UniRef90_UPI0004630DD9	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	V	R	K	A	D	M	K	S	Q	Q	W	I	L	S	A	
UniRef90_UPI0003639DEB	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	L	R	K	A	G	M	K	S	S	R	W	L	N	A	A	
UniRef90_B8KJ13	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	A	A	A	M	T	P	K	G	D	M	K	S	E	P	W	I	S	A	A		
UniRef90_E5WK14	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	I	R	K	N	D	M	K	A	T	A	W	L	K	G	S	A
UniRef90_UPI00035DC403	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	V	R	K	G	D	M	K	A	K	W	I	S	A	A		
UniRef90_X5S229	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	I	R	K	G	D	M	K	Q	A	A	W	I	S	A	A	
UniRef90_UPI00036AF751	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	A	F	L	P	K	A	D	M	K	A	G	P	W	I	A	A	A	
UniRef90_UPI00046E6689	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	A	M	V	P	K	A	N	M	K	A	G	P	W	I	S	A	A	
UniRef90_H2FXN4	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	A	V	V	R	K	G	N	M	R	M	Q	P	W	I	S	A	A	
UniRef90_UPI00047CEC3C	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	H	A	G	P	M	L	R	K	S	T	M	K	S	T	A	W	I	Q	N	A	
UniRef90_B1KED9	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	L	A	G	P	F	V	P	K	S	M	M	K	Q	A	W	I	N	A	A		
UniRef90_W8X896	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	R	A	G	V	M	V	R	K	H	D	M	K	A	Q	A	W	I	N	Q	A	
UniRef90_Q5WZF6	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	I	R	K	Q	E	M	K	S	S	A	W	L	N	G	S	
UniRef90_B7GJS2	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	M	I	R	K	N	E	M	K	S	S	T	W	L	Q	S	A	A
UniRef90_UPI00047C6ED6	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	I	R	K	G	D	M	K	E	A	V	W	I	K	A	A	
UniRef90_V4JLR4	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	P	M	L	R	K	G	A	M	K	T	S	P	W	L	L	A	A	
UniRef90_AOA031MCV2	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	Q	G	P	V	L	R	K	G	D	M	K	P	T	A	W	I	L	Q	A	A	
UniRef90_F6EMM0	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	P	F	V	P	K	A	D	Q	K	S	Q	K	W	F	N	A	A	
UniRef90_W9GYM9	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	I	H	T	S	M	E	A	G	A	V	L	R	K	G	D	M	K	G	A	P	W	I	A	A	A	
UniRef90_C1DFQ4	R	R	V	V	F	I	N	T	G	F	L	D	R	T	G	D	E	E	M	H	T	S	M	E	A	G	A	M	L	R	K	E	D	M	K	S	A	W	I	Q	A	A	A	
UniRef90_W0P6L3	R	R	V	V	F	I	N																																					

QUERY Y E D H N V D A G L A A G F S G R A Q V 500 K G M W T M T E L M A D M V E T K I A G
UniRef90_UPI000255A91C Y E D W N V D T G G L L A A C G G L L S G R A Q Q V G G K G M W A M P D D L M A N M L E E T Q T K I I G G
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UniRef90_W9UYA1 Y E D W N V D N G L L L C C G L L Q G G R A Q Q I G G K G M W A M P D D L M A N M L E E A Q K I I A
UniRef90_I2JHU8 Y E D W N V D D I G G L L A C C G L L S S G R A Q Q I G G K G M W A M P D D E M A A M M L E E D A Q K I I A
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UniRef90_Q0VQ33 Y E D W N V D D I G G L L E C C G L L K R G G H A Q Q I G G K G M W A M P D D E M A Q M M L E E A N K A G
UniRef90_K9HM45 Y E D R N V D D I G G L L A C C G L L R R G K A Q Q I G G K G M W P M P D D R M A D M L E E K T Q K I V G
UniRef90_CORE50 Y E E Q W N V D D I G G L L A C C G L L R R G G H A Q Q I G G K G M W A M P D D M M A A M M L E E Q Q K I I G
UniRef90_A0A031MI29 Y E D W N V D H G L L N C C G L L S S G R A Q Q I G G K G M W A M P D D L M A G M L E E Q Q K I I G
UniRef90_UPI000364FBA2 Y E D S N V D D I G G L L A C C G L L Q Q G R A Q Q I G G K G M W A I P D D Q M A M M L E E Q Q K I I G
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UniRef90_UPI0003824C28 Y E N W N V D D I G G L L E C C G L L S S G H A Q Q I G G K G M W A M P D D L M A A M L E E Q Q K I A
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UniRef90_K2KSL1 Y E N W N V D D I G G L L C C G G M K G V A Q Q I G G K G M W A K P D D R M A E M M L E E A Q K I I G
UniRef90_UPI00031346E6 Y E Q S N V S V G L L A C C G L L Q G G R A Q Q I G G K G M W A M P D D L M K E M L E E K Q K S G
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UniRef90_W8H2Y6 Y E D W N V D V G L L A A G L L A G G R A Q Q I G G K G M W A M T E L L M A E M L E E Q Q K I I G
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UniRef90_UPI000380B7BD Y E D Q N V D D I G G L L A G L L P G K A Q Q I G G K G M W A M P D D E M A K M M L E E Q Q K I I A
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UniRef90_UPI0003639DEB Y E D W N V D V G L L A C C G L L R G H A Q Q I G G K G M W A M P D D L M A D M M E A K I I G
UniRef90_B8KJ13 Y E D H N V D A G L L A C C G L L L G R A Q Q I G G K G M W A M P D D L M A A M L E E A K I I S
UniRef90_E5WK14 Y E K S N V N T G L L E T G G F L R G Y A Q Q I G G K G M W A M P D D M M A D M M E E Q Q K I I G
UniRef90_UPI00035DC403 Y E L N N V Q I G G L L A C C G L L A G G C A Q Q I G G K G M W A M P D D L M A R M L E E Q Q K I I A
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UniRef90_UPI00036AF751 Y E D W N V N I G G L L E C C G L L G R A Q Q I G G K G M W A M P D D E M M A R M M L E E Q K I I G
UniRef90_UPI00046E6689 Y E D W N V D I G G L L E C C G L L G R A Q Q I G G K G M W P K P D D E M N E M M A T K L L A
UniRef90_H2FXN4 Y E N N N V D V G L L A A G L L Q G G K A Q Q I G G K G M W A I P D D N M A T M L E E T K I I V
UniRef90_UPI00047CEC3C Y E K N N V A V G L L A C C G L L R G R A Q Q I G G K G M W A M P D D E M A S M L E E D Q K I I A
UniRef90_B1KED9 Y E D W N V D I G G L L A C C G L L P G R A Q Q I G G K G M W A M P D D E M A K M L E E Q Q K I I G
UniRef90_W8X896 Y E L N N V Q T G L L E C C G L L R G H A Q Q I G G K G M W A M P D D L M A A M L E E Q Q K I V S
UniRef90_Q5WZF6 Y E Q A N V A V G L L A A G L L K G K A Q Q I G G K G M W A M P D D Q M A D M L E E K Q K I G
UniRef90_B7GJS2 Y E K S N V S V G L L A T G F L Q G R A Q Q I G G K G M W A M P D D M M A E M L E E K Q K I A
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UniRef90_V4JLR4 Y E D W N V D V G L L V C C G L L R G H A Q Q I G G K G M W T M P D D E M R A M L E E D T K I I G
UniRef90_A0A031MCV2 Y E R N N V L V G L L T C C G L L R G K A Q Q I G G K G M W A M P D D L M A A M L E E Q Q K I I G
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UniRef90_C1DFQ4 Y E R N N V L V G L L S C C G L L R G R A Q Q I G G K G M W A I P D D R M A A M L E E Q Q K I I A
UniRef90_W0P6L3 Y E K R N V L F G L L A C C G L L Q G G K S Q I G G K G M W A M P D D L M A D M L A Q K K I G
UniRef90_A6GUD0 Y E R N N V L V G L L S C C G L L K G R A Q Q I G G K G M W A M P D D L M K A M L E E Q K I I G
UniRef90_G8MNP4 Y E R S N V L V G L L N T G L L R G R A Q Q I G G K G M W A M P D D L M H A M L E E Q Q K I I G
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UniRef90_R4V5T1 Y E D W N V D I G G L L A C C G L L P D H A Q Q I G G K G M W A M P D D R M A D M L N A K I I G
UniRef90_F4PFC8 Y E K N N V R T G L L N A G L L K G K A Q Q I G G K G M W A M P D D L M A D M L E E Q Q K I V D
UniRef90_F2F4A0 Y E K S N V I V G L L N A G L L Q G R A Q Q I G G K G M W A M P D D L M A E M I E E Q Q K I N G
UniRef90_NOB1X5 Y E K S N V F A G L L D C C G L L R G R A Q Q I G G K G M W A M P D D L M A G M L E E Q Q K I I G
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UniRef90_D3RPC6 Y E D W N V D V G L L A C C G L L R G Q A Q Q I G G K G M W T M P D D E M A A M L A A K S A
UniRef90_G4E4B6 Y E D W N V D V G L L R C C G L L P G H A Q Q I G G K G M W A M P D D R M A D M L E E K T K I I G
UniRef90_S6GMD0 Y E D W N V D T G L L L C C G L L S G K A Q Q I G G K G M W A I P D D Q M A N M M E T Q K I I A
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UniRef90_B8CPB6 Y E D W N V D I G G L L E C C G L L R G G R S Q I G G K G M W P M P D E M A A M L E E Q K I I G
UniRef90_L0DZW2 Y E R N N V V V G L L A C C G L L R G R A Q Q I G G K G M W A M P D D R M A A M L E E Q Q K I I G
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UniRef90_L1LRV8 Y E R S N V L V G L L A C C G L L R G R A Q Q I G G K G M W A M P D D L M A A M F E E Q K I I A
UniRef90_F9DWJ7 Y E A S N V A V G I L K T G L L P G H A Q Q I G G K G M W A M P D M M A A M L E E Q Q K I V A
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QUERY	Q	P	R	A	G	A	S	T	A	530	P	S	P	T	A	A	T	L	540	H	A	L	H	Y	H	Q	V	V	D	V	V	550	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R	560
UniRef90_UPI000255A91C	H	P	L	S	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
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UniRef90_N6WXZ7	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_W9UYA1	H	P	L	S	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	M	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_I2JHU8	H	P	Q	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	V	M	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_Q11BE3	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_Q0VQ33	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	V	T	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_K9HM45	H	P	Q	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_CORES0	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_A0A031MI29	H	P	M	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	F	F	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_UPI000364FBA2	H	P	L	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	F	F	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_H1G2R8	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
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UniRef90_A0A011U9P9	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	H	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_K2KSL1	H	P	K	A	G	A	K	C	A	W	V	P	S	P	T	A	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	R	A	V	V	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_UPI00031346E6	H	L	K	A	G	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	R	E	V	Q	Q	Q	E	E	L	A	K	G	R					
UniRef90_UPI00035CBDOA	H	P	M	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_B1MB69	H	P	Q	R	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	K	A	R	R	Q	Q	Q	E	E	L	A	K	G	R		
UniRef90_W8H2Y6	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	G	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	V	A	V	Q	Q	Q	E	E	L	A	K	G	R				
UniRef90_UPI000262CE06	H	P	Q	S	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	F	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_A8TSU2	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_UPI000380B7BD	H	P	Q	S	G	A	N	T	A	W	V	P	S	P	T	N	G	A	T	L	H	A	V	H	Y	H	Q	V	V	D	V	V	L	A	K	R	Q	Q	Q	E	E	L	A	K	G	R		
UniRef90_UPI0003FA5ADE	H	P	T	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	F	F	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_Q5P811	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	G	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	F	F	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_UPI0002FD761C	H	L	N	A	G	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	K	D	V	Q	Q	Q	E	E	L	A	K	G	R					
UniRef90_UPI000255B778	H	P	Q	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_W8ID85	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	A	D	V	Q	Q	Q	E	E	L	A	K	G	R				
UniRef90_UPI0002D4D8D6	H	L	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	R	D	V	Q	Q	Q	E	E	L	A	K	G	R				
UniRef90_E3HRL2	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	Q	R	T	Q	Q	Q	E	E	L	A	K	G	R				
UniRef90_V4RU28	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	R	A	R	Q	Q	Q	E	E	L	A	K	G	R				
UniRef90_R4YN64	H	P	K	S	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	M	H	Y	H	Q	V	V	D	V	V	F	A	V	Q	Q	Q	E	E	L	A	K	G	R				
UniRef90_UPI0004630DD9	H	P	R	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	F	F	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_UPI0003639DEB	H	P	R	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	M	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_B8KJ13	H	P	Q	A	G	A	S	T	A	W	V	P	S	P	T	A	A	T	L	H	V	T	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_E5WK14	H	L	N	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	A	Q	Q	Q	E	E	L	A	K	G	R						
UniRef90_UPI00035DC403	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	K	Q	D	V	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_X5S229	H	P	K	A	G	A	S	T	A	W	V	P	S	P	T	A	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	H	A	V	Q	Q	Q	E	E	L	A	K	G	R				
UniRef90_UPI00036AF751	H	P	K	A	G	A	S	C	A	W	V	P	S	P	T	A	A	T	L	H	A	Q	H	Y	H	Q	V	V	D	V	V	A	D	R	R	Q	Q	Q	E	E	L	A	K	G	R			
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UniRef90_H2FXN4	H	P	L	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	T	H	Y	H	Q	V	V	D	V	V	K	E	R	Q	Q	Q	E	E	L	A	K	G	R				
UniRef90_UPI00047CEC3C	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	A	Q	Q	Q	E	E	L	A	K	G	R						
UniRef90_B1KED9	H	P	N	A	G	A	N	T	A	W	V	P	S	P	T	N	G	A	S	L	H	S	I	H	Y	H	Q	V	V	D	V	V	L	E	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_W8X896	Q	L	K	A	G	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	V	E	V	Q	Q	Q	E	E	L	A	K	G	R					
UniRef90_Q5WZF6	H	P	L	Q	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	N	A	V	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_B7GJS2	H	P	Q	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	F	V	V	Q	Q	Q	E	E	L	A	K	G	R				
UniRef90_UPI00047C6ED6	H	P	M	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	G	E	R	Q	Q	Q	E	E	L	A	K	G	R				
UniRef90_V4JLR4	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	G	A	T	L	H	A	M	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_A0A031MCV2	H	P	K	A	G	A	N	T	A	W	V	P	S	P	T	A	A	T	L	H	A	L	H	Y	H	Q	V	V	D	V	V	A	A	R	R	Q	Q	Q	E	E	L	A	K	G	R			
UniRef90_F6EMM0	Q	P	K	A	G	A	S	T	A	W	V	P																																				

QUERY	R	A	T	I	E	Q	L	L	T	V	P	L	A	K	E	L	A	W	A	P	D	E	E	I	I	R	E	E	V	D	N	N	A	Q	Q	S	L	L	G	Y	V	V	R						
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UniRef90_UPI0003705B85	R	A	S	L	D	D	I	L	L	T	V	P	L	L	G	D	T	Q	L	S	A	D	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_N6WXZ7	R	A	S	L	D	D	I	L	L	T	V	P	L	L	M	K	D	P	A	L	S	A	D	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_W9UYA1	R	A	S	L	D	D	I	L	L	T	V	P	L	V	A	Q	N	P	N	W	S	A	D	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_I2JHU8	R	A	A	L	D	D	I	L	L	S	I	P	V	V	A	Q	N	P	N	W	S	A	D	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_Q11BE3	R	A	K	L	D	D	I	L	L	S	I	P	V	V	A	Q	N	P	N	W	S	A	D	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_Q0VQ33	R	A	S	L	D	D	I	L	L	T	V	P	L	L	T	R	P	E	L	S	A	D	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_K9HM45	A	A	S	L	D	D	I	L	L	T	V	P	L	A	D	R	P	N	W	A	P	D	D	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_CORES0	R	A	K	L	D	D	I	L	L	T	V	P	L	A	V	R	P	N	W	S	A	D	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_A0A031MI29	F	A	S	V	D	D	I	L	L	T	V	P	L	A	K	D	T	N	W	T	A	T	E	E	E	K	Q	Q	Q	N	E	I	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_UPI000364FBA2	R	A	N	I	D	D	I	L	L	T	V	P	L	V	E	A	T	H	P	N	W	S	A	T	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R
UniRef90_H1G2R8	R	A	N	V	L	D	D	I	L	L	T	V	P	V	E	A	T	N	P	A	W	S	A	T	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R
UniRef90_UPI0003824C28	R	A	K	L	S	D	I	L	L	T	V	P	V	V	A	S	R	P	N	W	T	P	E	V	I	Q	Q	Q	R	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_A0A011U9P9	K	A	K	L	D	D	I	L	L	T	V	P	L	A	V	S	P	N	W	S	A	T	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_K2KSL1	R	A	S	L	D	D	I	L	L	T	V	P	R	L	G	D	P	K	P	M	P	S	E	D	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_UPI00031346E6	R	D	Y	R	D	D	I	L	L	D	I	P	V	V	A	S	P	Q	W	T	P	E	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_UPI00035CBDOA	K	A	K	L	E	S	L	L	L	T	V	P	V	L	A	T	R	P	N	W	S	A	E	E	D	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_B1MB69	R	A	K	L	D	D	I	L	L	T	V	P	V	L	A	E	S	R	D	W	S	A	E	E	D	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_W8H2Y6	R	A	T	L	D	E	I	L	L	T	V	P	L	L	A	P	D	T	D	W	S	E	A	E	E	K	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_UPI000262CE06	R	N	T	V	D	D	I	L	L	T	V	P	V	L	R	E	N	P	N	W	S	P	E	V	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R			
UniRef90_A8TSU2	R	A	K	L	D	D	I	L	L	T	V	P	V	L	A	R	P	N	W	T	A	A	D	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R				
UniRef90_UPI000380B7BD	K	A	S	V	D	D	I	L	L	T	V	P	L	M	A	N	R	N	L	P	A	E	V	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R				
UniRef90_UPI0003FA5ADE	P	A	S	V	D	D	I	L	L	T	V	P	L	A	A	D	V	D	N	W	S	D	E	Q	Q	R	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R					
UniRef90_Q5P811	D	T	L	L	D	N	L	L	T	V	P	V	L	A	A	S	A	N	W	S	A	T	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_UPI0002FD761C	K	D	F	R	N	E	I	L	L	T	V	P	V	V	Q	K	S	P	V	W	T	A	T	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_UPI000255B778	P	A	D	L	N	D	I	L	L	T	V	P	V	L	A	E	S	P	N	W	S	A	T	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_W8ID85	R	A	K	L	S	D	I	L	L	T	V	P	V	V	A	T	R	P	N	W	T	P	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_UPI0002D4D8D6	T	D	L	R	D	D	I	L	L	T	V	P	V	L	A	E	T	R	P	N	W	T	A	D	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_E3HRL2	L	D	S	V	R	D	D	I	L	L	T	V	P	V	L	G	D	P	S	K	W	S	A	Q	E	D	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R
UniRef90_V4RU28	R	A	R	L	H	D	D	I	L	L	T	V	P	V	V	A	E	R	P	N	W	T	P	E	D	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_R4YN64	H	A	S	V	D	D	I	L	L	T	V	P	V	L	M	D	D	A	A	L	T	A	E	Q	I	Q	Q	Q	T	E	V	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R			
UniRef90_UPI0004630DD9	R	A	T	V	D	D	I	L	L	T	V	P	V	L	A	E	N	P	D	W	S	A	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_UPI0003639DEB	R	A	G	L	D	D	I	L	L	T	V	P	V	L	A	E	N	A	D	W	S	A	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_B8KJ13	P	A	S	L	D	D	I	L	L	T	V	P	V	L	R	G	A	N	M	S	P	E	A	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R				
UniRef90_E5WK14	S	D	L	R	D	D	I	L	L	T	V	P	V	V	A	E	N	P	Q	W	S	A	G	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_UPI00035DC403	K	V	Y	L	N	D	I	L	L	T	V	P	V	V	A	E	N	A	Q	W	S	A	E	E	R	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R			
UniRef90_X5S229	R	A	K	L	D	D	I	L	L	T	V	P	V	V	S	R	P	D	W	T	P	D	D	E	I	I	R	K	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R				
UniRef90_UPI00036AF751	R	A	S	L	D	D	I	L	L	T	V	P	V	L	M	R	G	P	L	S	A	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R			
UniRef90_UPI00046E6689	R	A	N	I	D	D	I	L	L	T	V	P	V	L	M	D	D	P	A	L	S	A	E	E	Q	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_H2FXN4	P	A	K	L	D	D	I	L	L	T	V	P	V	L	A	D	R	D	A	L	T	A	T	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R	
UniRef90_UPI00047CEC3C	E	N	L	L	A	G	L	L	T	V	P	V	L	V	E	K	A	Q	W	N	A	T	E	E	R	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R			
UniRef90_B1KED9	R	A	S	L	D	D	I	L	L	T	V	P	V	L	A	E	N	P	A	L	T	H	E	E	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_W8X896	E	D	Y	T	D	D	I	L	L	T	V	P	V	V	T	A	A	P	T	W	T	P	K	Q	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R			
UniRef90_Q5WFFZ6	S	D	Y	R	D	D	I	L	L	T	V	P	V	V	A	E	A	P	N	W	S	P	Q	E	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R			
UniRef90_B7GJS2	K	N	Y	C	D	D	I	L	L	T	V	P	V	V	A	I	N	P	Q	W	T	P	E	D	I	I	Q	Q	Q	E	E	L	D	N	N	A	Q	Q	G	G	I	L	G	Y	V	V	R		
UniRef90_UPI00047C6ED6	K	A	K																																														

QUERY	W	V	D	Q	G	V	G	A	S	610	P	D	I	H	D	V	A	L	620	D	R	A	T	L	R	R	L	630	L	L	A	N	W	L	R	H	G	G								
UniRef90_UPI000255A91C	W	V	D	Q	Q	G	G	G	S	K	V	P	D	I	H	D	V	A	L	620	D	R	A	T	L	R	R	L	630	L	L	A	N	W	L	R	H	G	G							
UniRef90_UPI0003705B85	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_N6WXZ7	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	C	A	N	W	L	L	H	H	G	G	
UniRef90_W9UYA1	W	V	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_I2JHU8	W	I	D	A	G	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_Q11BE3	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_Q0VQ33	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_K9HM45	W	V	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_CORES0	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	R	H	H	G	G		
UniRef90_A0A031MI29	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	L	L	A	N	W	L	R	H	H	G	G		
UniRef90_UPI000364FBA2	W	I	N	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	M	C	A	N	W	L	Y	H	H	G	G	
UniRef90_H1G2R8	W	V	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_UPI0003824C28	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	A	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_A0A011U9P9	W	V	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_K2KSL1	W	I	D	S	G	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_UPI00031346E6	W	V	E	Q	Q	G	G	G	S	K	V	P	D	I	H	N	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	M	A	N	W	L	R	H	H	G	G		
UniRef90_UPI00035CBDOA	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	H	H	N	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	R	H	H	G	G	
UniRef90_B1MB69	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	H	N	V	A	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	R	H	H	D	G	G	
UniRef90_W8H2Y6	W	I	D	A	G	G	V	V	S	K	V	P	D	I	H	D	V	A	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	L	L	A	N	W	L	R	H	H	G	G		
UniRef90_UPI000262CE06	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	N	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	T	H	H	G	G		
UniRef90_A8TSU2	W	V	D	Q	Q	G	G	G	S	K	V	P	D	I	N	N	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	V	I	N	W	L	H	H	G	G		
UniRef90_UPI000380B7BD	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	R	H	H	G	G		
UniRef90_UPI0003FA5ADE	W	I	D	H	Q	Q	G	G	S	K	V	P	D	I	H	D	V	A	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	L	A	N	W	L	R	H	H	G	G		
UniRef90_Q5P811	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	N	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	L	A	N	W	L	R	H	H	G	G		
UniRef90_UPI0002FD761C	W	V	E	Q	Q	G	G	G	S	K	V	P	D	I	N	N	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	M	A	N	W	L	H	H	G	G			
UniRef90_UPI000255B778	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	A	Q	H	I	A	N	W	L	K	Q	G	G			
UniRef90_W8ID85	W	V	D	Q	Q	G	G	G	S	K	V	P	D	I	N	N	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	A	Q	H	I	M	A	N	W	L	H	H	G	G		
UniRef90_UPI0002D4D8D6	W	V	E	Q	Q	G	G	G	S	K	V	P	D	I	Y	N	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	V	A	N	W	L	H	H	G	G			
UniRef90_E3HRL2	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	H	N	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	R	H	H	G	G		
UniRef90_V4RU28	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	R	H	H	G	G		
UniRef90_R4YN64	W	V	D	A	G	G	I	V	S	K	V	P	D	I	N	N	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	L	T	N	W	L	E	H	H	G	G		
UniRef90_UPI0004630DD9	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	A	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	M	A	N	W	L	R	H	H	G	G		
UniRef90_UPI0003639DEB	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	H	D	V	A	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	M	A	N	W	L	Y	H	H	G	G	
UniRef90_B8KJ13	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	N	V	A	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	V	H	H	G	G		
UniRef90_E5WK14	W	V	E	Q	Q	G	G	G	S	K	V	P	D	I	N	N	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	V	A	N	W	L	R	H	H	G	G	
UniRef90_UPI00035DC403	W	V	E	Q	Q	G	G	G	S	K	V	P	D	I	H	N	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	R	H	H	G	G		
UniRef90_X5S229	W	V	D	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	C	R	R	L	630	S	S	Q	H	V	A	N	W	L	R	H	H	G	G		
UniRef90_UPI00036AF751	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	N	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	V	A	N	W	L	R	H	H	G	G	
UniRef90_UPI00046E6689	W	V	D	S	G	G	V	V	S	K	V	P	D	I	N	N	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	R	H	H	G	G		
UniRef90_H2FXN4	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	N	N	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	A	Q	H	I	A	N	W	L	R	H	H	G	G		
UniRef90_UPI00047CEC3C	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	H	N	V	A	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	L	E	H	H	G	G	
UniRef90_B1KED9	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	H	N	V	A	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	Y	I	T	N	W	L	L	E	H	H	K	G	G
UniRef90_W8X896	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	H	N	V	A	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	L	H	H	G	G		
UniRef90_Q5WZF6	W	V	E	M	G	G	I	V	S	K	V	P	D	I	H	N	V	A	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	M	M	N	W	L	H	H	G	G		
UniRef90_B7GJS2	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	H	N	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_UPI00047C6ED6	W	I	E	Q	Q	G	G	G	S	K	V	P	D	I	N	D	V	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	M	A	N	W	L	H	H	G	G			
UniRef90_V4JLR4	W	I	D	Q	Q	G	G	G	S	K	V	P	D	I	T	D	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	A	N	W	L	H	H	G	G			
UniRef90_A0A031MCV2	W	V	N	Q	Q	G	G	G	S	K	V	P	D	I	N	N	I	G	L	620	D	R	A	T	L	L	R	R	L	630	S	S	Q	H	I	M	A	N	W	L	H	H	G	G		
UniRef90_F6EMM0	W	I	D	H	G	G	V																																							

QUERY UniRef90_UPI000255A91C UniRef90_UPI0003705B85 UniRef90_N6WXZ7 UniRef90_W9UYA1 UniRef90_I2JHU8 UniRef90_Q11BE3 UniRef90_Q0VQ33 UniRef90_K9HM45 UniRef90_C0RES0 UniRef90_AOA031MI29 UniRef90_UPI000364FBA2 UniRef90_H1G2R8 UniRef90_UPI0003824C28 UniRef90_AOA011U9P9 UniRef90_K2KSL1 UniRef90_UPI00031346E6 UniRef90_UPI00035CBDOA UniRef90_B1MB69 UniRef90_W8H2Y6 UniRef90_UPI000262CE06 UniRef90_A8TSU2 UniRef90_UPI000380B7BD UniRef90_UPI0003FA5ADE UniRef90_Q5P811 UniRef90_UPI0002FD761C UniRef90_UPI000255B778 UniRef90_W8ID85 UniRef90_UPI0002D4D8D6 UniRef90_E3HRL2 UniRef90_V4RU28 UniRef90_R4YN64 UniRef90_UPI0004630DD9 UniRef90_UPI0003639DEB UniRef90_B8KJ13 UniRef90_E5WK14 UniRef90_UPI00035DC403 UniRef90_X5S229 UniRef90_UPI00036AF751 UniRef90_UPI00046E6689 UniRef90_H2FXN4 UniRef90_UPI00047CEC3C UniRef90_B1KED9 UniRef90_W8X896 UniRef90_Q5WFZ6 UniRef90_B7GJS2 UniRef90_UPI00047C6ED6 UniRef90_V4JLR4 UniRef90_AOA031MCV2 UniRef90_F6EMM0 UniRef90_W9GYM9 UniRef90_C1DFQ4 UniRef90_W0P6L3 UniRef90_A6GUD0 UniRef90_G8MNP4 UniRef90_W1N6T3 UniRef90_R4V5T1 UniRef90_UPI0004F4PFC8 UniRef90_F2F4A0 UniRef90_NOB1X5 UniRef90_UPI000469BE42 UniRef90_D3RPC6 UniRef90_G4E4B6 UniRef90_S6GMD0 UniRef90_X0R338 UniRef90_W6V857 UniRef90_A0Z7A6 UniRef90_UPI0002F94F45 UniRef90_F7Q9E0 UniRef90_H0JF11 UniRef90_B1VEG9 UniRef90_UPI0002F88F59 UniRef90_UPI00029B53F9 UniRef90_H0A904 UniRef90_E5XNU5 UniRef90_F1VV90 UniRef90_UPI0003B37E88 UniRef90_B8CPB6 UniRef90_L0DZW2 UniRef90_Q1YEU5 UniRef90_L0GX25 UniRef90_L1LRV8 UniRef90_F9DWJ7 UniRef90_I0HY39 UniRef90_C8X008 UniRef90_UPI00036F2076 UniRef90_H3NXV9 UniRef90_S6IDQ6 UniRef90_W2UGC8 UniRef90_V4YUZ9 UniRef90_W3RJV9 UniRef90_UPI0003B567F1

650 660 670 680

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

QUERY	690	700	710
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UniRef90_N6VWXZ7	Q A A V D D L V L K G R S A Q Q P N G Y T T E P L L L H A Y R R R K A K A K A Y G Q		
UniRef90_W9UYA1	K A A C E L V F E G R K Q Q P S N G Y T T E P V L L H R R R R I E A K A K A A		
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UniRef90_Q11BE3	Q A A C C D L V F F K G R E Q Q P S N G Y T T E P V L L H A R R R L Q K K A Q Q D R K		
UniRef90_Q0VQ33	Q A A C E L V F F E G C A Q Q P S N G Y T T E P V L L H R R R R R E L K A K		
UniRef90_K9HM45	K A A C C D L V F F K G C E S P S N G Y T T E P V L L H A R R R R E A K		
UniRef90_CORES0	Q A A C C D L V F F K G R E Q Q P S N G Y T T E P V L L H R R R R L E L K Q A S		
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UniRef90_B1MB69	Q A A K E L I L E G K D Q Q P N G Y T T E P I L L H R R R R R E Y K A A A A K		
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UniRef90_UPI0003FA5ADE	Q A A K D L I F E G A T A Q Q P S G Y T T E P L L L H A A R R R E Y K A A R A		
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UniRef90_UPI000255B778	Q A A C C E L V F F E G C A Q Q P N G Y T T E P V L L H R R R R R E F K A S Q		
UniRef90_W8ID85	Q A A L E L V L K G R E Q Q P N G Y T T E P V L L H R R R R R L K A R L A		
UniRef90_UPI0002D4D8D6	Q A A C D L V F L G Y D Q Q P N G Y T T E P I L L H Q R R I E A K A K F A		
UniRef90_E3HRL2	K A A C C A L V F F E G L T Q Q P N G Y T T E P I L L H K Y R L E F K A A Q A		
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					450						460					470						480																								
UniRef90_D7A5L5	R	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	A	M	E	A	G	P	M	V	R	K	N	E	M	K	A	Q	A	W	I	K	A			
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UniRef90_A4GK41	R	V	V	I	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	A	M	E	A	G	P	M	I	K	K	S	E	M	K	Q	D	T	W	I	N	A	S	
UniRef90_UPI000479708C	R	L	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	A	M	E	A	G	P	V	L	P	K	K	G	D	K	D	A	V	W	L	S	A	S		
UniRef90_Q1QSR0	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	A	M	E	A	G	P	M	L	R	K	G	E	M	K	G	T	K	W	I	A	A	S	
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UniRef90_Q2L1N7	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	S	V	M	Q	A	G	P	M	L	R	K	G	D	M	K	S	S	A	W	I	A	A	S		
UniRef90_UPI00036E3432	R	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	Y	Q	G	A	V	L	R	K	N	G	D	K	N	S	D	Q	W	I	K	A	S		
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UniRef90_F3BHK0	R	V	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	Q	A	G	V	V	L	P	K	A	Q	T	K	Q	Q	P	W	I	Q	A	S	S	
UniRef90_UPI00041736CC	R	V	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	L	L	G	P	F	A	P	K	A	E	L	K	Q	R	P	W	I	H	A	S		
UniRef90_UPI0002E6DF56	R	V	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	I	R	K	N	E	M	K	S	A	V	W	L	N	A	S		
UniRef90_A4C3T6	R	V	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	V	V	T	P	K	A	Q	T	K	Q	A	K	W	I	Q	A	S	S	
UniRef90_Q3SNX3	R	V	V	C	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	I	R	K	G	E	M	K	T	Q	P	W	I	K	A	S	S	
UniRef90_U1K2V3	R	V	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	L	J	A	G	P	V	L	P	K	V	J	A	K	Q	S	W	I	A	A	S		
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UniRef90_I4YTY7	R	V	V	I	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	I	R	K	N	D	M	K	A	T	A	F	W	I	K	A	S	
UniRef90_G0HG66	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	L	L	J	A	G	P	M	F	R	K	D	F	L	K	R	K	A	W	I	G	A	S	
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UniRef90_A0A016XDD6	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	A	M	H	A	G	P	M	I	R	K	A	A	M	K	G	T	A	W	I	D	A	S	
UniRef90_U1KIY0	R	V	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	L	J	A	G	P	M	I	R	K	G	D	M	K	A	T	P	W	I	K	A	S	
UniRef90_UPI00035CBDAE	R	C	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	L	J	A	G	P	M	I	R	K	G	D	M	K	A	T	P	W	I	K	A	S	
UniRef90_F6CYM8	R	V	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	Q	A	G	P	F	L	P	K	D	Q	K	T	Q	P	W	I	L	Q	A	S	S	
UniRef90_UPI0004668F54	R	V	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	T	A	A	G	A	M	I	R	K	A	E	M	N	K	S	A	H	W	K	T	S	S	
UniRef90_C7LNS9	R	V	V	I	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	V	P	K	A	A	M	K	N	A	R	W	I	L	S	S		
UniRef90_D5AQ17	R	L	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	V	T	K	A	E	M	K	S	Q	P	W	I	S	A	S		
UniRef90_D5BUG5	R	V	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	N	A	G	P	M	I	R	K	S	D	M	K	A	P	W	I	A	A	S	S		
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UniRef90_U2Z206	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	F	S	R	K	G	E	M	K	S	A	W	I	L	Q	S	A	S	
UniRef90_B6AZN1	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	F	S	R	K	D	F	L	K	L	K	G	W	I	L	G	A	S	S
UniRef90_L0WKY1	R	T	I	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	A	M	H	A	G	A	F	V	R	K	G	E	L	K	E	Q	W	I	F	H	A	S		
UniRef90_UPI0004750E56	R	T	I	C	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	I	R	K	A	D	M	K	A	S	A	W	I	K	A	S	S	
UniRef90_U2GR29	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	Q	A	G	P	M	V	R	K	A	D	M	Q	T	A	P	W	K	Q	A	S	S	
UniRef90_A8LB5	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	V	L	P	K	G	E	M	K	G	T	A	W	I	A	A	S	S	
UniRef90_UPI000237B29A	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	L	P	K	G	E	M	K	E	T	P	W	I	A	S	A	S	
UniRef90_UPI0003B3BB21	R	V	V	I	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	V	P	K	E	E	M	K	S	A	P	W	I	A	A	S	S	
UniRef90_F3KBR6	R	L	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	V	P	K	N	T	M	K	Q	Q	A	W	L	Q	A	S	S	
UniRef90_M9RAX9	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	F	S	R	K	D	F	L	K	R	G	A	W	L	G	A	S	S	
UniRef90_A1WZ99	R	V	V	I	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	A	M	E	A	G	A	V	I	R	K	A	D	M	K	G	A	F	W	I	M	T	S	S
UniRef90_A3PH17	R	V	V	A	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	E	A	G	P	M	V	K	K	G	D	M	K	A	S	R	W	I	A	S	S		
UniRef90_C8PXP2	R	V	V	I	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T	S	M	K	A	G	P	F	V	R	K	N	D	M	K	N	T	D	W	L	N	A	S	S	
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UniRef90_UPI00036B093D	R	L	V	V	F	I	N	T	G	F	L	L	D	R	T	G	D	E	E	L	H	T</																								

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UniRef90_C3X4Z9 F V D L D D D L L L T T I P V V T A R P D W T A E E I V Q A E E L D N N N A Q Q G I L G Y V V R
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	650										660										670										680													
UniRef90_D7A5L5	V	V	T	E	A	Q	V	E	E	T	L	R	R	M	A	K	V	V	D	A	Q	N	S	D	P	L	Y	E	P	M	A	P	A	Y	D	G	V	A	F					
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UniRef90_C9YBV5	V	V	T	K	A	Q	V	E	E	T	F	E	R	M	A	A	K	V	V	D	D	K	Q	N	A	D	K	L	Y	T	P	M	V	G	N	F	K	G	V	A	Y			
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UniRef90_A4GK41	L	C	D	E	S	Q	V	M	E	T	M	K	K	M	A	V	V	V	D	D	R	Q	N	A	D	P	K	Y	L	P	M	A	P	D	N	F	Y	D	S	G	E	A	F	
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UniRef90_UPI000468B6A3	V	I	T	Q	E	Q	V	A	S	M	Q	K	M	A	V	V	V	D	D	A	Q	N	A	D	P	T	Y	L	N	M	A	P	E	L	F	D	S	G	I	A	F			
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UniRef90_Q2L1N7	V	V	S	P	D	Q	V	R	L	T	F	E	R	M	A	A	V	V	D	D	Q	Q	N	A	D	P	G	Y	L	P	M	A	G	H	F	T	T	S	Y	A	Y			
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UniRef90_G0HG66	V	V	T	E	E	Q	V	J	E	A	L	R	R	M	A	A	V	V	D	D	R	Q	N	A	D	D	T	Y	R	D	M	A	P	D	F	F	E	N	S	G	V	A	F	
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UniRef90_UPI0003663B23	H	M	A	G	L	N	C	G	R	W	D	Y	L	F	S	V	I	K	K	F	R	R	R	H	E	F	L	R	A	Q	V	T	M	T	V	P	F	M	R	A
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UniRef90_Q1AUB9	H	S	S	G	L	N	C	G	R	W	D	Y	L	F	S	V	I	K	K	F	R	R	R	H	E	F	L	R	A	Q	V	T	M	T	V	P	F	M	R	A
UniRef90_D3BHG0	H	S	A	G	L	N	C	G	R	W	D	Y	L	F	S	V	I	K	K	F	R	R	R	H	E	F	L	R	A	Q	V	T	M	T	V	P	F	M	R	A
UniRef90_N4VIS9	H	S	S	G	L	N	C	G	R	W	D	Y	L	F	S	V	I	K	K	F	R	R	R	H	E	F	L	R	A	Q	V	T	M	T	V	P	F	M	R	A
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UniRef90_H8XUV7	H	I	A	G	L	N	C	G	R	W	D	Y	L	F	S	V	I	K	K	F	R	R	R	H	E	F	L	R	A	Q	V	T	M	T	V	P	F	M	R	A
UniRef90_F8JXP4	H	A	A	G	L	N	C	G	R	W	D	Y	L	F	S	V	I	K	K	F	R	R	R	H	E	F	L	R	A	Q	V	T	M	T	V	P	F	M	R	A
UniRef90_G3AN39	H	I	A	G	L	N	C	G	R	W	D	Y	L	F	S	V	I	K	K	F	R	R	R	H	E	F	L	R	A	Q	V	T	M	T	V	P	F	M	R	A
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UniRef90_UPI00037434BF	H	I	V	A	L	N	C	G	R	W	D	Y	L	F	S	V	I	K	K	F	R	R	R	H	E	F	L	R	A	Q	V	T	M	T	V	P	F	M	R	A
UniRef90_Q12PU5	N																																							

		490	500	510	520
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UniRef90_F8B3Y1	Y T	C H R R G A H A I G G M A A F I	P S S R R D P Q V N E T A L A K V	R R A D D K E R	
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UniRef90_UPI000363B33E	Y T	C H K R G A F A M G G M A A Q I	P N R H D P E A V N K A A F E K V	K A D K D F	
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UniRef90_A7HEL6	Y T	C H R R N V H A M G G M A A Q I	P I K D D P A A N E A A L A K V	R R A D D K E R	
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UniRef90_UPI0003945CA2 K V S E E D L L E V P K G V R T L E E G L R L N T R V G I Q Y Y L A A
UniRef90_A9NW51 E V T A A D F L D F Q P S Q P I T E A G V R S N I N V V A L H Y I L G S
UniRef90_UPI000467ACE8 D V N V T A Q D L L D V A G A G G E V T E A G V R S N I S V A L R Y V L D S
UniRef90_J7LAQ9 E V E V T A A D L L A V D K T P G G I T L A G L R G N I S V A L Q Y Y L A V
UniRef90_Q1J384 D V T A A D L L T P D G T V T E A G V R T N I S V G V L Y L A A
UniRef90_D2AZJ8 D V S V S A A D L L S V S E T P G D I T E A G L R N N V D V A L R Y L A A
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UniRef90_B7FLV7 E D T E E D L L Q I P R G V R T M E G L R L N T R V G I Q Y Y V A A
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UniRef90		610	620	630	640
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UniRef90_D1P777	WI	S G N G G C C V P I Y	F G L M E D A A T A E I	S S R T S I V W Q W I	R R H G G
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UniRef90_UPI00030E1BF8	WL	R G N G A A A I	L L M E D A A T A E I	S S R A Q L W Q W I	R Y S K
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UniRef90_A9AZB8	WL	G A G L G C C V P I	L L M E D A A T A E I	S S R A Q V W Q W V	H Q N
UniRef90_I0JQ94	WL	A G T G G A A P I	L L M E D A A T A E I	S S R A Q V W Q W I	R H H P
UniRef90_I4X635	WL	S G N G G A A P I	L L M E D A A T A E I	S S R S Q V W Q W I	R H H P
UniRef90_D7BEX3	WL	G G S G A V A I	F N L M E D A A T A E I	S S R A Q L W Q W L	H K G G
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UniRef90_F2PA75	WI	S G N G G C V P I	G L M E D A A T A E I	S S R A S I W Q W I	K H H K
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UniRef90_Q5SKY7	WL	L G N G G A A I	F N L M E D A A T A E I	S S R A Q L W Q W V	H R G
UniRef90_D1AA96	WL	G G N G G A V A I	L L M E D A A T A E I	S S R S Q V W Q W I	N N G E
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UniRef90_Q1AUB9	WF	S G R G G A V P I	F N Y L M E D T A A T A E I	S S R A Q V W Q W I	H H H
UniRef90_D3BHG0	WL	L S N G N G C V P I	F N Y L M E D A A T A E I	S S R S Q I W Q W I	R H H K
UniRef90_N4VIS9	WL	R G V G G C S A I	F Y L M E D A A T A E I	S S R T Q L W Q W V	K H H
UniRef90_Q6X898	WL	R G V G G C C V P I	L L M E D A A T A E I	S S R A V W Q W V	R H H H
UniRef90_E0UGV2	WL	D G L G G C C V P I	L L M E D A A T A E I	S R A Q I W Q W L	H H H
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UniRef90_E3I0R0	WL	R G N G G A V P I	L L M E D A A T A E I	S S R T Q N W Q W L	H H H
UniRef90_K9ZV8	WL	R G S G G A V P I	L L M E D A A T A E I	S S R A Q V W Q W Q	R H H R
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UniRef90_F7YLJ4	WI	S G N G G C V P I	G L M E D A A T A E I	S S R A S I W Q W I	K H H G
UniRef90_H8XUV7	WL	M G V G G A A L Y	L L M E D A A T A E I	S S R A Q L W L W L	K K Q
UniRef90_F8JXP4	WL	R G L G G A V A I	F N L M E D A A T A E I	S S R S Q I W Q W I	D A G
UniRef90_G3AN39	WL	R H V G G C V P I	F L M E D A A T A E I	S S R S Q I Y Q W V	T H G
UniRef90_UPI000423E7C4	WL	R G N G G A A I	L L M E D A A T A E I	S S R T Q V W Q W L	H H N
UniRef90_UPI000363B33E	WL	C G T G G A A I	L L M E D A A T A E I	S S R A Q V W Q W L	H H N
UniRef90_G9ELV1	WL	S G N G G C V P I	R N L M E D A A T A E I	S R A Q L W Q W L	K F S
UniRef90_P21826	WL	R G S G G C V P I	L L M E D A A T A E I	S R C Q L Y Q W V	K H G
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UniRef90_UPI00037434BF	WL	R G T G G A A A I	L L M E D A A T A E I	A R C Q V W Q W I	R N G
UniRef90_Q12PU5	WI	Q G N G G C V P I	G L M E D A A T A E I	S R T S I W Q W I	K H G
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UniRef90_S4XKK8	WI	S G L G G C V P L	L L M E D A A T A E I	S R T Q V W Q W L	R H E
UniRef90_UPI00035EB43E	WL	G G N G G C V P L	L L M E D A A T A E I	S S R A Q V W Q W N	K H G
UniRef90_D3D1E1	WL	A G S G G A V A I	F N L M E D A A T A E I	S S R S Q I W Q W L	H N G
UniRef90_B6IUY1	WL	R G L G G C V P L	F N L M E D A A T A E I	S S R T Q I W Q W L	H N G
UniRef90_UPI00037687A3	WI	N G N G C C V P I	G L M E D A A T A E I	A R T S I W Q W I	H H Q
UniRef90_UPI0003945CA2	WI	S G N G G C V P I	G L M E D A A T A E I	A R T S I W Q W I	Q H H
UniRef90_A9NW51	WL	T G M G S V P L Y	L L M E D A A T A E I	S R V Q N W Q W I	H Y E
UniRef90_A0A011N5Q1	WL	A G N G G C V P I	L L M E D A A T A E I	S S R S Q V W Q W V	V S P
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UniRef90_D2AZJ8	WM	G G L G G A V A I	L L M E D A A T A E I	S S R S Q I W Q W I	H N D
UniRef90_UPI000476B8A4	WV	D Q G L G C S K V	L L M E D R A T L R I	S A Q H I T N W L	K H G
UniRef90_B7FLV7	WL	T G S G S V P L Y	L L M E D A A T A E I	S S R V Q N W Q W L	K Y G
UniRef90_Q6FLE7	WI	R G S G G C V P I	L L M E D A A T A E I	S S R C Q L Y Q W V	H H G
UniRef90_L8HCT0	WL	S G R G G C C V P I	L L M E D A A T A E I	A R T S I W Q W I	R H H
UniRef90_U4VPY6	WI	S G N G G C C V P I	G N L M E D A A T A E I	S S R S Q I W Q W I	R H H
UniRef90_F0ZPD5	WL	N G N G G C V P I	F G L M E D A A T A E I	S S R S Q V W Q W L	H N G
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UniRef90_A2SC32	WL	A G N G G C C V P I	L L M E D A A T A E I	S S R S Q V W Q W I	R S P
UniRef90_Q1YZT7	WV	Q G L G C C V P I	G L M E D A A T A E I	S S R A S I W Q W I	H H G
UniRef90_A7HQN3	WI	G G R G G A V P L	L L M E D A A T A E I	S R T Q I W Q W I	Y H G
UniRef90_C7Z0E4	WV	R G V G G C S P I	L L M E D A A T A E I	S S R S Q L W Q W L	H H H
UniRef90_UPI0002F28EF2	WI	S G N G G C V P L	G L M E D A A T A E I	S S R A S I W Q W L	K H H
UniRef90_G3J8X7	WI	R G V G G C V P M	F L M E D A A T A E I	S S R S Q L W Q W T	R H G
UniRef90_H6QRR9	WI	T G V G G C C V P I	L L M E D A A T A E I	A R L Q I W Q W V	R H G
UniRef90_A0A059LIQ1	WL	G G N G G C V P L	L L M E D A A T A E I	S S R A Q V W Q W L	R H H
UniRef90_U5HC94	WI	G G L G G C V P V	L L M E D A A T A E I	S S R S Q L W H W N	Y H G
UniRef90_E6WI40	WI	S G N G G C C V P I	G L M E D A A T A E I	A R T S I W Q W I	H H H
UniRef90_C5DSE8	WL	R G S G G C S P I	L L M E D A A T A E I	S R A L Y Q W V	K H H
UniRef90_A2U310	WL	R G N G G A A I	L L M E D A A T A E I	S R T Q V W L W L	H N N

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	370	380	390	400
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UniRef90_R1GYN3	FHNYSRKA	NGQGVYFYLP	KLLES	MEEA
UniRef90_GOWCA7	YHNAKELIAR	GGVYFYLP	PKLES	HLEAVKL
UniRef90_F5RC78	YHNAKELIAR	GGVYFYLP	PKLES	HLEAVKL
UniRef90_T0Q5D4	FHNARELALR	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_E9UQU4	FHNARELALR	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_D0N096	FHNARELALR	RGSGAYFYLP	PKLES	HLEEARL
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UniRef90_UPI00041241D8	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
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UniRef90_A9E6G8	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
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UniRef90_F5HDP7	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_G2LZR4	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_B8GWB6	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
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UniRef90_Q6CIU4	YHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
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UniRef90_A4FPE7	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
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UniRef90_F2NQM5	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_K0KSW9	HNAHELIKIGHG	PYFYL	PKLES	HLEEARL
UniRef90_W7T2T1	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_C9NSE6	YHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_E4TPT4	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_M3A6I4	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_UPI00038181C1	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
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UniRef90_K8ZJD4	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_UPI00041CA922	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_B2AUJ2	HNAFQTVKMGFG	PYFYL	PKLES	HLEEARL
UniRef90_UPI0003741AE5	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
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UniRef90_I0HBU3	YHC	GQKQIDRGSG	PYFYL	PKLES
UniRef90_C5DI56	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_D3Q9U5	FHC	ARRQLEVRHG	PYFYL	PKLES
UniRef90_UPI0003175F5D	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
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UniRef90_UPI00040DAD07	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
UniRef90_J8US73	LIGLHDLKRRG	NSREGS	LYIVK	PKMHGPAVAFA
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UniRef90_F3NPR2	FHNARELLE	RGSGAYFYLP	PKLES	HLEEARL
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		490										500										510										520											
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UniRef90_A5V0V6	Y A	C	H	K	H	G	A	H	A	I	G	G	M	S	A	F	I	P	N	R	R	E	P	E	I	T	E	R	A	L	A	Q	V	I	R	A	D	D	K	E	R		
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UniRef90_K0KSW9	Y V	C	H	K	R	G	V	H	A	M	G	G	M	A	A	H	I	P	I	K	N	D	P	A	A	H	E	A	A	M	N	K	V	I	R	S	D	D	K	L	R		
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UniRef90_B2AUJ2	Y T	C	H	K	R	G	V	H	A	M	G	G	M	A	A	Q	I	P	I	K	D	D	P	K	A	N	E	V	A	M	E	G	V	I	R	A	D	D	K	L	R		
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UniRef90_U4KDV2	Y T	C</																																									

UniRef90_R4XA41 N[V]GQNDL L L L N M N V 570 P G K L T E E G V K E N I R I G L T Y M E A 600
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UniRef90_B8GWB6 D D L S I T Q A Q M L E L H E G S R T E E G V R R E N I N V A I G L R Y T Q A S
UniRef90_D6YVC4 S V A A S A E D L L H F S I P N G T I T E E G V R R H N I N V A I G L Q Y L A A
UniRef90_Q6CIU4 D V T A A D L L Q V P E G E I T S E G L R L A N D I N V A I G L Q Y M E A
UniRef90_UPI00036E80F7 D V Q I T A D Q L L D V A S T P G E K T I E G L R L A A V D V G V R Y I V S
UniRef90_L5NAC1 S I T R E Q L L E E P V G D I S E G G L R L N I N T G I Q Y V A S
UniRef90_UPI0003B51C02 D V R V I P R Q L L D L R V P G G T I T D A G L R T N V S V A L R Y L E N A
UniRef90_F2NQM5 D V R V T A Q D L L D F R V P G G R I T E E G L R R N N V S V A L Q Y L E N A
UniRef90_K0KSW9 K I T A T D L L D T K I P D A R I T E E G L R R A N L F I G L S Y M E A
UniRef90_W7T2T1 E V R V T A D Q L L K P G S T P G E A T F A G V R K N I R I G V I Q S A
UniRef90_C9NSE6 H E I G A E L L L D P C E G S R D E A G V R K N I R I A L Y Y I E A
UniRef90_E4TPT4 H V L R D E F N T T P S A T S P N V M Y G E V T E E G V R M N I N V A I L Y I E A
UniRef90_M3A614 D V H V T A G Q L L A L G T T E A K P T F E G L R R N A V G V A L R Y I E A
UniRef90_UPI00038181C1 D V R V R E T D L L A I A A T A G T V T E E Q G L R R S N I G V A L R Y L E A
UniRef90_K1L660 E S G L D E K D L L D V R I P D A S I S E E G V R T N I N V G I L Y I E A
UniRef90_UPI000467200C V L V G R D E L I A P L G S I G T R K A G F E N N V E V C R Y R L A A
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UniRef90_UPI0003741AE5 D V S V T A D Q L L D V A S T E G G A T E A D G L R R G A V D V G V R Y I A S
UniRef90_UPI000380BF8B E V R V T A A Q L L D V A S A G A K P T A D G L R R N A V Q V G V R Y I E A
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UniRef90_C5DI56 N V A A S D L L N T R I P N G A V I T T A G L R R N L L S I G L Q Y M E A
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UniRef90_UPI0003B6AE2F E V H V T A G E L V D L S A L E P R V T D A G L R S N V S V A L R Y I E A
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UniRef90_V4IG12 D V S V A A G D L I A I D S L D A E P T F D G L R R N A V Q V G I R Y T E A
UniRef90_A7RM90 D V N V Q V I E E L V T I Q V P G G K I T E E G V R V N I S V A L Q Y L N S
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UniRef90_UPI000365A862 D V T E S D L L A V D K G P S Q R T E V G L R R A I S V G I Q Y L A S
UniRef90_UPI000262A50B D V S V S A D Q L L D I K S T P G K V T S A G V R R A N I D V G L Q Y L R
UniRef90_UPI000255E3EF D V Q V D A A D L L D V A S T P G E V T E T G L R R A N I E V A I Q Y L A V
UniRef90_UPI000361DC55 D V R V T A A E L L D V A S T P G E V T E T G L R R A N I S V A V Q Y L A A
UniRef90_U5BW5X H S G F E T E D L L D V R I P D G S I T E G V R T N I N V A I L Y L E A
UniRef90_U1NX22 S V S S T D L T A I P E G T R T E H G F R H N I S V T L G Y M D S
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UniRef90_UPI0003B5AE30 D V D V T A A Q L L D V T G I S G D I T E D G V R D N V T I A L R Y V E S
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UniRef90_UPI00036D8787 E V Q V T A A Q L L D V A A T P G D V T E A G L R R N I S V G I Q Y L K A
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UniRef90_K2JWF9 S D V D Q A L L L Q P C S G E R S E Q G M R M N I S V A L Q Y I S A
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UniRef90_GOWCA7	WL	R G S G C C V P I N H	L M E D A A T A E I S R A C Q L W Q W V K H N N		
UniRef90_F5RC78	WM D	R G S G C C V P I H H	G L M E D A A T A E I S R A Q L W Y S W I R H S P		
UniRef90_T0Q5D4	WL	R G N G C C I P L H N N	K M E D A A T A E I S R R V Q Q V W Q W L R H G S		
UniRef90_E9UQU4	WL	R G A G G A V A I H H N	L M E D A A T A E I S R S Q I W Q W V H H S		
UniRef90_D0N096	WL	R G S G C I P L H N N	K M E D A A T A E I S R A Q V W Q W I R H S		
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UniRef90_UPI00047514ED	WI	S G G V G C V P I Y	G L M E D A A T A E I S R S Q I W Q W I K H G E		
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UniRef90_A9E6G8	WL	R G Y G A V A L Y N	L M E D A A T A E I S R T Q L V W Q W L K N E		
UniRef90_A5V0V6	WL	G G R G A V A L Y N	F N L M E D A A T A E I S R S Q I W Q W V R Y N S		
UniRef90_UPI00037E1953	WL	S G N G A A A I N H	F N L M E D A A T A E I S A R V Q L W Q W C K Y G		
UniRef90_F5HDP7	WI	S G N G C V P I N H	L M E D A A T A E I S A R V Q L W Q W C K Y G		
UniRef90_G2LZR4	WL	D G N G C V P I H H	L M E D A A T A E I S R A Q L W Q W L H H G G		
UniRef90_B8GWB6	WI	E G R G A A I Y N	L M E D A A T A E I S R T Q L W Q W V R L G		
UniRef90_D6YVC4	WL	S G K G A A I D N	L M E D A A T A E I S R A Q L V W Q W I H A G		
UniRef90_Q6CIU4	WL	R G S G C V P I N N	L M E D A A T A E I S R C Q L H Q W V K H K		
UniRef90_UPI00036E80F7	WL	R G A G A V P I H N	L M E D A A T A E I S R S Q I W Q W L R H G		
UniRef90_A4FPE7	WL	G G N G A A A I H N	L M E D A A T A E I S R S Q I W Q W L R T G		
UniRef90_L5NAC1	WL	S G R G A A P I H H	L M E D A A T A E I S R A Q L V W Q W I R H R		
UniRef90_UPI0003B51C02	WL	R G N G A A I D N	L M E D A A T A E I S R S Q L W Q W I H R G		
UniRef90_F2NQM5	WL	S G T G A V A I H H	L M E D A A T A E I S A R A Q L W Q W V H Q R G		
UniRef90_K0KSW9	WL	N G S G C V P I N N	L M E D A A T A E I S R S Q L Y Q W V K H G		
UniRef90_W7T2T1	WL	S G S G A A A I H N	L M E D A A T A E I S R S Q L W Q W I H H G		
UniRef90_C9NSE6	WI	Q G S G C V P I Y	G L M E D A A T A E I S R A N I W Q W I H H G		
UniRef90_E4TPT4	WL	Q G T G A A L Y N	L M E D A A T A E I S R A Q L W Q W F H H Q		
UniRef90_M3A6I4	WL	R G Q G A V A I	F N L M E D A A T A E I S R S Q I W Q W V H T		
UniRef90_UPI00038181C1	WL	R G T G A A A I F D	L M E D A A T A E I S A R C Q L W Q W I R N S		
UniRef90_K1L660	WL	N G T G A A L Y N	L M E D A A T A E I S R A Q L W Q W I R H G		
UniRef90_UPI000467200C	WL	S G N G C V P I H	G M L M E D A A T A E I S A R A Q L W Q W L H H P		
UniRef90_F6FPF7	WL	R G V G A A A I D H	L M E D A A T A E I S R A Q L V W Q W V H A G		
UniRef90_W1PZY1	WL	N G T G S V P I Y N	L M E D A A T A E I S R A Q L V W Q W M K H G		
UniRef90_K8ZJD4	WL	D G N G C V P I H H	L M E D A A T A E I S R S Q L W Q W L H V G G		
UniRef90_UPI00041CA922	WL	R G Q G A A A I D N	L M E D A A T A E I S R S Q L W Q W I N O G		
UniRef90_B2AUJ2	WI	R G V G C V P I N	Y L M E D A A T A E I S R S Q L W Q W V R H G		
UniRef90_UPI0003741AE5	WL	G G N G A A G I H N	F N L M E D A A T A E I S R S Q I W Q W V Q N A		
UniRef90_UPI000380BF8B	WL	R G G A V A I	F N L M E D A A T A E I S R S Q I W Q W V K H G		
UniRef90_I0HBU3	WL	G G R G A V A I G	F N L M E D A A T A E I S R C Q L Y Q W V K H G		
UniRef90_C5DI56	WL	R G G C V P I N N	F N L M E D A A T A E I S R S Q V W Q W V H N G		
UniRef90_UPI0003175F5D	WL	D G Q G C V P I H H	F N L M E D A A T A E I S R S Q I W Q W L H R G		
UniRef90_I8J1U9	WL	C G R G A V P I Y H	L M E D A A T A E I S R A Q L W Q W I K H		
UniRef90_UPI00034C87A9	WL	D G L G C V P I Y H	L M E D A A T A E I S R A Q L W Q W L H H Q		
UniRef90_UPI00040DAD07	WL	Y G S W L C G V G A A A I H N	L M E D A A T A E I S R A Q L W Q W L H H H		
UniRef90_J8US73	WL	E Q G V G C S K V P D I H D V G G	L M E D R A T L R I S A Q H I A N W L H H H		
UniRef90_G2WVY8	WL	R G V G C V P I	F L M E D A A T A E I S R S Q I W Q W V R H G		
UniRef90_UPI000466CE9D	WL	R G V G A A A I D H	L M E D A A T A E I S R S Q L W Q W I A S G		
UniRef90_UPI0003B6AE2F	WL	R G T G A A A I D	G L M E D A A T A E I S R S Q L W Q W I H A G		
UniRef90_F3NPR2	WL	R G Q G A V A I F H	L M E D A A T A E I S R S Q I W Q W V H A G		
UniRef90_I2GXW6	WL	R G S G C V P I N N	L M E D A A T A E I S R A Q L C Q W C K H G		
UniRef90_UPI000477BCC5	WL	R G Q G A V P I H N	L M E D A A T A E I S R T Q L W Q W R K N G		
UniRef90_U4KDV2	WL	R G E G C V P I Y	G L M E D A A T A E I S R A S I W Q W I H H G		
UniRef90_E1Z2I9	WL	G G N G C V P I H N	G L M E D A A T A E I S R S S V W Q W L R Y G		
UniRef90_B8CKP3	WI	N G N G C V P I Y	G L M E D A A T A E I A R T S I W Q W I K H S		
UniRef90_UPI000413037E	WL	S G N G A V A I H N	L M E D A A T A E I S R T S I V W Q Q L R N N		
UniRef90_Q9AXL7	WL	T G T G S V P I Y N	L M E D A A A A E I S R V Q N W Q W F K Y G		
UniRef90_A0A023Y8R9	WL	D G N G C V P I H H	L M E D A A T A E I S R S Q L W Q W L H T G		
UniRef90_P13244	WL	T G S G S V P I Y N	L M E D A A T A E I S R V Q N W Q W I R Y G		
UniRef90_M5FQS9	WV	S G N G C V P I A N M	L M E D A A T A E I A R M Q L W H W V H H K		
UniRef90_M7N8X9	WL	G G T G A A A I Y N	L M E D A A T A E I S R A Q L W Q W L Q H K		
UniRef90_UPI00047ADA93	WL	M G V G A A A I Y N	L M E D A A T A E I S R T Q L W L W L K H K E		
UniRef90_F8A6T3	WL	R G V G A A A I D D	L M E D A A T A E I S R S Q L V W Q W V H Q E		
UniRef90_G0WCT5	WL	R G S G C V P I N S	L M E D A A T A E I S R C Q L Y Q W V T H S		
UniRef90_K9AI69	WL	E G S G A V A I H	F N L M E D A A T A E I S R S Q V W Q W L D A G		
UniRef90_I4AJQ7	WL	D G V G A A A I	F N L M E D A A T A E I S R T Q L W Q W L N N N		
UniRef90_W0RMA4	WL	R G S G A V A I H N	L M E D A A T A E I S R A Q L W Q W L R H R		
UniRef90_P21360	WL	R G L G C V P I N N	F N L M E D A A T A E I S R L Q L Y S W C K H A		
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UniRef90_A3UIY2	WL	Q G R G A A P I H N	L M E D A A T A E I S R A Q L W Q W R T H G		
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UniRef90_UPI0003A0CAC1	WL	K G L G A V A I	F N L M E D A A T A E I S R S Q I W Q W L Q H S		
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UniRef90_UPI000262A50B	WL	R G M G A V A I D N	L M E D A A T A E I S R S Q I W Q W I H Q D		
UniRef90_UPI000255E3EF	WL	T G R G A V G I N N	L M E D A A T A E I S R S Q I W Q W L H Q G G		
UniRef90_UPI000361DC55	WL	E G T G A V G I	F N L M E D A A T A E I S R S Q I W Q W R H N N		
UniRef90_U5BW5	WL	S G V G A A A L Y N	L M E D A A T A E I S R A Q L W Q W I R H G		
UniRef90_U1NX22	WL	R G I G C V P L Y N	L M E D A A T A E I S R A Q L W Q W L H H E		
UniRef90_U6PSN3	WL	R G V G C V P L Y N	L M E D A A T A E I S R S Q L W Q W L R H H		
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UniRef90_W5W8E1	WL	N G S G A V A I N	G L M E D A A T A E I A R C Q V W Q W L H H T		
UniRef90_UPI00036D8787	WL	G G L G A V A I	F N L M E D A A T A E I S R S Q V W Q W L H N D		
UniRef90_UPI000346ABD1	WL	G G T G A A L Y N	L M E D A A T A E I S R A Q V W Q W Y H Q G		
UniRef90_K2JWF9	WL	D G R G C V P I Y	G L M E D A A T A E I A R T S I W Q W I K H S		
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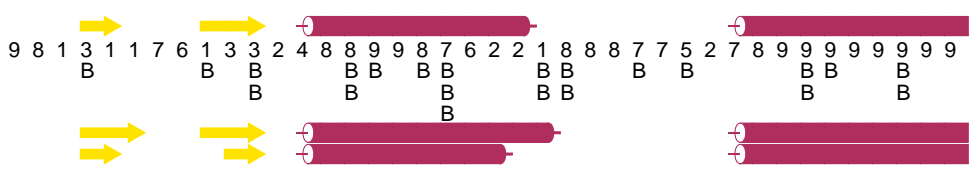
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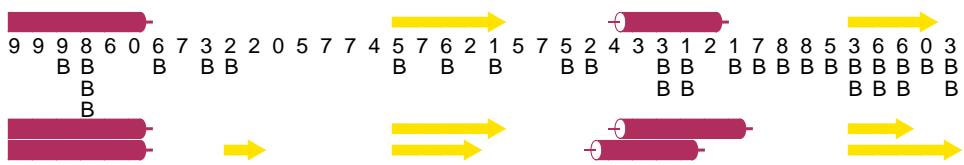
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