

40

QUERY	
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UniRef90_A8SLH6	F T S P A V K R L G W K Q G D E E E K W A E K A I D S L V K K L K K K K
UniRef90_W5JF19	F N P P V K R L G W R K P S D D T A E G K W G E K A V K S L A K K M K K S S G
UniRef90_J7FXQ7	F T P P V K R L G W K K G D E N N E R E D K W S E K A V K S L V K K L K K T G
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UniRef90_B3R180	P S V V K E L L G W I K A D K E D K W S E K A I K S L V K K L K R N G G
UniRef90_Q4H2T5	F T P P V V K E L L G W K R G E M S A Q D E K F A E K A I K S L V K K L K K S G
UniRef90_Q4SA71	F T P P V V K R L G W K K G E Q N G Q E E K W C E K A V K N L V K K L K K T A
UniRef90_T1FMT7	T S P S V K K L M E L M K N D E E N R V W D E K A I K S L V K K L K K G S
UniRef90_F1L5S9	F H G P A V K K L G W K Q G D E E E K W A E K A V D S L V K K L K K K K
UniRef90_U6HVA1	P S V V K E L L G W K Q G D E E S K W A Q K A I E T L V K K L K K R K G
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UniRef90_X1YKE0	F S S P V K R L G W K R G E G E E K W S E K A V K S L V K K L K K S G
UniRef90_E9G7J0	F T P P V K R L G W K K D N S E D K W S E K A V K S L V K K L K K T G
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UniRef90_I1FGT6	K H L C H S V T S N H D E S P S F T K R A E S L V N K L E K Q E
UniRef90_G5CTL7	S P T T K K L G W K Q G D E E E K W A S K A V E A L E K K L K K K K
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UniRef90_W5N5D9	P P R D A G L L G S Q E S K H A E E Q E L K A A T Y S L L K R L K E K P
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UniRef90_A7SFA9	S H E G N D D P A W A E N V V K T L A K R L K K S K
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QUERY

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

QUERY	Y Q R	V E T
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UniRef90_J7FXQ7	Y T R	V E
UniRef90_Q6QAN7	Y Q R	V E T
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UniRef90_Q4H2T5	Y T R	V E T
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UniRef90_X1YKE0	Y T R	I
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UniRef90_I1FGT6	Y K R	V E T
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UniRef90_G1NC09	Y Q R	V E T
UniRef90_W5N5D9	Y E R	V
UniRef90_W5N921	Y S R	L
UniRef90_E4X3U9	Y D R	M
UniRef90_H2YRY3	Y N K	I E T
UniRef90_A7SFA9	Y D R	V Q
UniRef90_I1FE52	Y E R	V
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UniRef90_Q1L8Y3	Y S R	L
UniRef90_UP10000121AD2	Y E I	V
UniRef90_UP100029D7CFF	Y Q R	V E T
UniRef90_UP10003C2B481	L S R	R L
UniRef90_UP100038EBB2B	Y Q R	V E T
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UniRef90_E4WQW8	Y E R	I I
UniRef90_W5K5U3	Y S R	R L
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UniRef90_UP100035A0497	W S L	V
UniRef90_UP10003891608	L S R	R L

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UniRef90_M9T3L2	S T L V K R [L] W K N R A G K N E S D E E L E L K S I I H S M L K R L K E K N			
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UniRef90_UP10003D087C6	F T S P A V K K [L] L G W K Q G D E E E K W A E K A V D S L V K K L K D E			
UniRef90_UP1000359767F	S G L V R R [L] W R Q R C M V P G P E D G L G A L K A A H A L F K K L K D E			
UniRef90_UP10003598B08	L V R R [L] W Q Q R C A A A S P E D G P S A L K A A H A L F K K L K D E			
UniRef90_W4WWF6	S L V Q R [L] W R L R C A T P G L D D D N H G A L K P V H A L F K K L K D E			
UniRef90_UP1000441978F	N N V D R E F D Q K A C E S L V K K [L] K D K K			
UniRef90_L5LXZ3	E A E L K A L T H S V L K K L K E K Q			
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UniRef90_H9GFR9	E Q E L K R C A Y T F L K K L K E K P			
UniRef90_H3FIC0	S A L V R R [L] W K C R A G C D N N E A D L E L K T T S Q S I F K R L K D R			
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UniRef90_I3K6F7	F T P L V V K R [L] L G W K K G E Q N G Q E E K W C E K A V K S L V K K L K K T G			
UniRef90_U1NEL3	L K P A V H A L F K K L K D E			
UniRef90_H0Z189	S A L V R R [L] S R S R V G D R E S E A E T D L K A A A N S F L K R L K E K Q			
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UniRef90_UP10002742008	E E E L L S T S Y A F L K R L K E R S			
UniRef90_C3U1W3	L T K R [L] V K A R K G N E T R R T A E E E T D S I S T L L K K L Q E N Q			
UniRef90_H0YP36	N A L V K R [L] W K H R I T N N E T D E D L E I K S V A Q S M L K R L D E K Q			
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UniRef90_E4XJ15	S A T V R R [L] V A M I R G E E N I E D E H W P E K A V K S L V K K L K K S K			
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UniRef90_UP10003D0F4F1	E Q N G Q A E K W Y E K E V K S L K K K L K K T G			
UniRef90_H2V1Y7	E D R K A V E S M L K L L E V P			
UniRef90_B7PPM5	D G D R S P S W A L N A V Q M L S R A A R K N G			
UniRef90_T1KEQ6	F D A L M K L L K R K Q			
UniRef90_G0NB70	N A L I K R [L] W K A R L G G S D E E G R E I R K W L L R R L T E D			
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UniRef90_D6WB20	G H L V N I E S D E E E K W A E K A I D S L V K K L K K K K			
UniRef90_W5UJ14	S I V H S L M C H R Q G G E S E S F A K R A I E S L V K K L K K R D			
UniRef90_H3AVW8	S I V Y N L M Y L G Q R T K S E T F V K K A T K S F I K K L K K K N			
UniRef90_Q21733	F D A L L K K L K S K Q			
UniRef90_UP10003C35173	S T L I K K L L S L Q E S S A K N T Y D P T S Q G L A K V F L K D I G E L E			
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UniRef90_G5B879	N S I R C L V R R L R R S R			
UniRef90_Q297H8	Q N G K R F R E D F E A L M K Q L K R K Q			
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UniRef90_E3LV95	S Q Q F R K L M K M L N R Q Q			
UniRef90_E5SE16	R T E E W N I R A A R C V F R Y V R K N G			
UniRef90_E2ATB2	P A V K K L L G W K I G E D E E K W C E K A V E A L V H P H P Q H R I R K D F D A L M K L L K P K Q			
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UniRef90_UP1000445BF5				
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UniRef90_H3FQN1				

50 60 70 80

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UniRef90_I3K6F7	I T A V T S G G Q P T S C V T I	I T A V T S G G Q P T S C V T I Q R S L D G R L Q V A G R K G V P H V	
UniRef90_U1NEL3	E L E L L V Q V V E S R G A E S G C V L A	P R G A K P S L S A S L	
UniRef90_H0Z189	E L E A L A R T I E T K G S S E C V M V	P R G A K P S L S A S L	
UniRef90_H2V1Z3	R L D E L E K A I T T Q N C N T K C V T I	T N T E L R L G A H H V S P Q Y	
UniRef90UPI0002742008	L E E L L R A V E S R G A A R T P C V L L	P R G V E G C C E L X C H G T L P	
UniRef90_C3U1W3	L E E G L L H A V E S R G G A R T P C V L L	P A R S E A R L G A Q R D A L P T	
UniRef90_H0YP36	L E E G L L H A V E S R G G G T Q S C V P I	P A K A D S W V G Q H W Y P L P V	
UniRef90_E9L074	L D N L V K A V E A K G G M P G E C V M V	S K G E L G R R T V A P H V	
UniRef90_H2LA62	L E M L L R A I D T T G K D L T N C V L L	P S A E L R L G A Q R I S P Q Y	
UniRef90_V5GYL6	H T L L T R K T K D T P C I R I	P Q A F G E E V I S P Q Y	
UniRef90_E4XJ15	L Q L L V D S V E S K G G E T T D C V L L	P R S L D G R L Q V Q H R K T L P H L	
UniRef90_V4A702	L E A L L E A V E A R G A L A G R C V L A A R	P V G D L K L G R R M V A P H I	
UniRef90_U3KEF4	L A A L L E A V E A R G A L A G R C V L A A R	A D P R L P P H L	
UniRef90UPI0003D0F4F1	L E A L L E A V E A R G A L A G R C V L A A R	E V R L L G G L A A P P H L	
UniRef90_H2V1Y7	L E A L L E A V E A R G A L A G R C V L A A R	E L R L G A H H V S P P Q Y	
UniRef90_B7PPM5	L E L M L L A V R S R G R S G R A C V P	L A V A D A S E A P H V	
UniRef90_T1KEQ6	E L D S L I T A I T T N G H P S K C V T I	E L D S L I T A I T T N G H P S K C V T I Q R T L D G R L Q V A G R K G F P H V	
UniRef90_G0NB70	A I G E L E K A I I S T E D P N T D C V C I	S T T R V T Y Q N F L F M K V T N A H S Q A L P H V	
UniRef90_J9AIH5	Q L E L L V Q S I V E S K G G D S D C L L	P R S L D G R L Q V S Q R K C L P H V	
UniRef90_T1JHA7	Q L Q K M L Q A V I Q T K G R E G C E C	P L D K G D V P V G C R T L P P H F	
UniRef90_L9L2Q5	Q L D L L P Q A V E S R G G R T A C C L L	P G R L D C R L G P G P S S Y S L P L	
UniRef90_F6YV42	Q L W Q L A E A L E S K G S E C G C V Y L P W	D S R S G K Q P P Q V	
UniRef90_K9UV32	Q L D E L E K A I I T T K N C N T K D V T I	P C S E I W R L T P N M I D R L P H F	
UniRef90UPI0003EE3C59	Q L Q K M L Q A V I Q T K G R E G C E C	P L D K G D V P V G C R T L P P H F	
UniRef90_L7MEE1	Q L D E L E K A I I T T Q N V N T K C I T I	P R D D V K L S R E M V A P H V	
UniRef90_G0NK68	Q L D E L E K A I I T T Q N V N T K C I T I	K M K A P H G R I L M	
UniRef90_B3M2A4	Q L D E L E K A I I T T Q N V N T K C I T I	V G E L L L A V K S R V D G P T K T S T P P T Y L Q C I L L P Y P T A R E Q H V	
UniRef90_T1I311	Q L D T L A A A I E S R G G S A D C V L V	S P E L	
UniRef90UPI00029D9A78	Q L D E L E K A I I T T Q N V N T K C I T I	P R W G P A R G T R G H	
UniRef90_F6RBZ6	Q L E N L F L A L D S R G C D S A P C V Q L S P E H Q L D P S F M K Q S H E I	P A V	
UniRef90_J9KAL4	Q L E T L L R A V D T G G V D A A C V A V R P F L F A D	R Q P H V	
UniRef90_D6WB20	Q L G M L W T A V E S R G G G S N C V L M P R D	R Q P H V	
UniRef90_W5UJ14	L L E A V E S K G A V L G G C V V A P Q	A E L H V G G C A V S P Q Y	
UniRef90_H3AVW8	Q L E L L V E A V E S R G A D V G C V S F P K T	E L R V G E H A L P A Q V	
UniRef90_Q21733	C F E A F Y D A V I K G D P K T R C C P A H N E	K L I G N F G R A I M	
UniRef90UPI0003C35173	Q I T S L L K A V K S R H E P T T K S S T A A C S S S N S V T T Y Q T N C P Y V	L P G D F T S T V L I	
UniRef90_S4RG13	L E A L A S A V E S K G A A S G C V H V P V	L E A L A S A V E S K G A A S G C V H V P V	
UniRef90_G5B879	V E S R G G T R T A C C L L P G R L D C R L G P G A P A S A Q P L	Q S E L L R A V K S R V D H P S K K S T P P T V L Q C I L I K C S T S S S Q H L	
UniRef90_Q29TH8	Q S E L L R A V K S R V D H P S K K S T P P T V L Q C I L I K C S T S S S Q H L	D L D S L I T A I T T N G T P S K C V T I Q R T L D G R M Q	
UniRef90_G7YKY6	D L D S L I T A I T T N G T P S K C V T I Q R T L D G R M Q	P A D L L L R A V K S R V D L P A K T S Y L K C I L I K C T T I A T E E D L H H V	
UniRef90_B4NJZ6	P A D L L L R A V K S R V D L P A K T S Y L K C I L I K C T T I A T E E D L H H V	C F D V F F D A V I H E N P G T R C C K A R N D K I A G A N G R L L I I	
UniRef90_E3LV95	C F D V F F D A V I H E N P G T R C C K A R N D K I A G A N G R L L I I	U n i R e f 9 0 _ E 2 A T B 2	
UniRef90_E5SE16	G A L E E L E K L A N P G V P S K C V T I P R S L D G R	G A L E E L E K L A N P G V P S K C V T I P R S L D G R	
UniRef90_E2ATB2	S N G G S G A V V P V P R G S T E G G S S G A P S E P H V	G S S G A P S E P H V	
UniRef90_B4M5J3	I A E L L Q A V K S R V D P P H K R S T C P S M Y L Q C I L I K C T S P M L Q H V	I A E L L Q A V K S R V D P P H K R S T C P S M Y L Q C I L I K C T S P M L Q H V	
UniRef90_K1Q889	E L D S L I T A I T T N G A H T K C V T I Q R T L D G R L Q	E L D S L I T A I T T N G A H T K C V T I Q R T L D G R L Q	
UniRef90_E0VS69	Q L E M L I Q A V E S K G A D S A C I L L P R D I V G T A D V	D P H V	
UniRef90UPI000273C83D	E L Y S L I T T M T T N G X R N K C V T T Q R P F D G S K	E L Y S L I T T M T T N G X R N K C V T T Q R P F D G S K	
UniRef90_B4KC87	I A D L L Q A V R S R V D P P H K C I L I K C S L P D K G	I A D L L Q A V R S R V D P P H K C I L I K C S L P D K G	
UniRef90_G5CTL4	V L Q L L L T V L K E G A L G T C I V V	N S Q D K H L	
UniRef90_B4JHE4	I A D L L I Q A V K S R V E P P T K C A S T T S Y L Q C I L I K C S L P D K G	I A D L L I Q A V K S R V E P P T K C A S T T S Y L Q C I L I K C S L P D K G	
UniRef90_E4XYE7	C L D K L I Q A L R T Q S A D S D C I T I P K S Q D G R I Q V A K K K C Y P H V	C L D K L I Q A L R T Q S A D S D C I T I P K S Q D G R I Q V A K K K C Y P H V	
UniRef90_O15968	R N E L L L A V K S R L D P P T K T T T A P T Y L Q C I L I K C T Q T E P H V	R N E L L L A V K S R L D P P T K T T T A P T Y L Q C I L I K C T Q T E P H V	
UniRef90_R7VVR3	R T P C L L I P A K A D S R L G Q H W Y P L P V	R T P C L L I P A K A D S R L G Q H W Y P L P V	
UniRef90_R0JFM8	Q L D E L E K A I I T T Q N C N T K C V T I P S N C C V R G K G C V C R	Q L D E L E K A I I T T Q N C N T K C V T I P S N C C V R G K G C V C R	
UniRef90_W8C5Y9	Q A K L L E A V K S R K E M S S N C I L L K R C L I Y K E E P F V	Q A K L L E A V K S R K E M S S N C I L L K R C L I Y K E E P F V	
UniRef90_A7S9K9	L G L L L K A L E S R G G D V S S C V Y F P Y G E K V C K R V V H E P H V	L G L L L K A L E S R G G D V S S C V Y F P Y G E K V C K R V V H E P H V	
UniRef90_A0A034WIK8	Q G E L L D S V R C R K M E M S S Q C I L L K R S S L I Y K E E P F V	Q G E L L D S V R C R K M E M S S Q C I L L K R S S L I Y K E E P F V	
UniRef90_K7IBG5	V F D T F F D V L T R G E T S S K C C A G I N E K L P G S H G R C I F I	V F D T F F D V L T R G E T S S K C C A G I N E K L P G S H G R C I F I	
UniRef90_K7HHP2	K K L K K K N N G C G T L E D L G V C L G E P E	K K L K K K N N G C G T L E D L G V C L G E P E	
UniRef90UPI000445BF5	C V T R A G A G P R A R V A R A S V C M V C T G D S G S L	C V T R A G A G P R A R V A R A S V C M V C T G D S G S L	
UniRef90_B4GDZ0	E M E T F M R C C V E T K G E E G G C V T V T R T L D G R L Q V A G A K G F P H V	E M E T F M R C C V E T K G E E G G C V T V T R T L D G R L Q V A G A K G F P H V	
UniRef90_H3FQN1	Q S E L L R A C I L I K C S T S S S Q H L	Q S E L L R A C I L I K C S T S S S Q H L	

UniRef90_T1G2J8	I Y S R I WR W P D V H K N E L K H K F C Q F A F D L K Q D G I C V N P Y	
UniRef90_E5RZD0	V Y A R I WR W P D L H K N E L K S N S Y C Q Y A F D L K V D L V C V N P Y	
UniRef90_G3U0J1	L L C K V F R W P D L R H S S E V V K R L C C C E S Y G K I N P E L V C C N P H	
UniRef90_G3PXG0	I Q A R P P S D S H C S V S G Q P V K K C D L T P K T D S Y L V D V M S	
UniRef90_W5L997	L L F I F K V F R W P D L R H G A E V K R L P G C E S Y G K V V N P E L V C C N P H	
UniRef90_R7USL2	I L S C Q L W R W S D L D T N C E V M R H L P C K S G E V D A N S V C C N P F	
UniRef90_V9KXV2	L L C K V F R W P D L K S S S E V V K R L Y C C E S Y M Y G I N S T D Y Y C C N P H	
UniRef90_F7CPE4	L L C K V F R W P D L R H S S E V V K R L R C C E S Y G K N N P D L V C C N P H	
UniRef90_S4RV88	L L C R L F R W P E V R H S A E K R L S V C G Q H G R A E G D S V C C N P Y	
UniRef90_H2YRY5	W T C C R F W R W P H L K S A L E L Q S I A V C C H G F D K N T N D I C Q P Y	
UniRef90_H2YRY4	W T C C R F W R W P H L K S A L E L Q S I C C H G F D K N T N D I C Q P Y	
UniRef90_F6XQ83	L L C K V F R W P D L R H S S E V V K R L S C C D S Y G K N N P E L V C C N P H	
UniRef90_Q70MW2	L C C Q I W R W P E L T D T T R R R P C C E T D K D P L Y V C C N P Y	
UniRef90_M9T3L2	V C C Q I W R W Q D L T P T S P L R Q L P S C Q T V N D S A Y T C C N P Y	
UniRef90_F7CL31	Q T C K V F R W P D R H S S E V K R L C C C E S Y G K N N P E L V C C N P H	
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UniRef90_UPI0003D087C6	I L C R L Y R W P D L R H A Y E L K R L S C C Q S F W G C G D G P V C C N P Y	
UniRef90_UPI000359767F	I Y C R L W R W P D L Q N H Q E L Q P G D R C E Y A F H L K K D E V C V N P Y	
UniRef90_UPI0003598B08	I L C R L F R W P D L H Q S H E L K H L C Y C A G G Q G S C G D L L C C N P H	
UniRef90_W4WWF6	I Y C R L W R W P D L H Q S H E L K R R A I L C F C K S A G G E G T I H C C N P H	
UniRef90_UPI000441978F	L L C R L Y R W P D L Q Q P H E L K R L C F C K S A G G E G T I H C C N P H	
UniRef90_L5LXZ3	I Y A R L W R W P D L H K N E L K H V K Y C Q Y A F D L K C D S V C V N P Y	
UniRef90_H2W002	V Y G K L W R F S E M T K N E T R N V E H C N H A F E M K S D L V C V N P Y	
UniRef90_W5UC70	L L F K V F R W P D L R H W S Q L K R L P C C E S Y G K N P E L V C C N P H	
UniRef90_H9GFR9	L L S K L F R W P D L R H P G Q L R R L C R G E G F G A A G Q G P P C C N P F	
UniRef90_H3FIC0	I Y S K L L F R F Q D L H K N E L R A L P C C H Y G F E N K A E Q V C C L N P Y	
UniRef90_UPI000440B5B6	I L C R L F R W P D M L P L S Q L K A L C H C Q S F R T T Q E G Q A V C C C N P F	
UniRef90_B5LVZ2	V L C Q F R W P D R H S Y E L K P L T F C C H A R A N Q G N D D V C C C N P F	
UniRef90_F7IAK4	I L C K L F R W G D L P S A R K P L D C E F P F G S K Q K E V C C C N P Y	
UniRef90_J3K6F7	V Y A R I W R W P N V S K N E L Q K P I C A V A P N Q D V C C C N P Y	
UniRef90_U1NEL3	I L C R L F R W P D L H Q S H E L K H L C Y C T G Q G A C G D L L C C C N P Y	
UniRef90_H0Z189	I L C K M Y R W S D L P F S A R L K P L C H C Q S F G S V E N T T N V C C C N P Y	
UniRef90_H2V1Z3	I L C K M Y R W S D L P F S A R L K P L C H C Q S F G S V E N T T N V C C C N P Y	
UniRef90_UPI0002742008	I L C R V F R W P E L R H G A P L K R L D C C Q T D D A A T T E F V C C C N P H	
UniRef90_C3U1W3	I L C K V F R W P D L H Q S H E L K R L C C C E S Y G K A H S E L V C C C N P Y	
UniRef90_H0YP36	I L C Q L F R W P E L K H G S E L V K K R L C C C E S Y G K E G D E E T S G T V C C C N P Y	
UniRef90_E9L074	I L C T L F R W S D L P F S A R L K V L C H C Q S F S A A D S A K V V C C C N P Y	
UniRef90_H2LA62	I L C Q T W R W P D L R Q G S E L R R L P M C R S A S D P V Y V C C C N P Y	
UniRef90_V5GYL6	I Y V Q F R F P E V R T A P E T S S N C K Y A F M M R L E E V C V N P F	
UniRef90_E4XJ15	I C C Q I W R W P G I C S E N V E L K R L C C C S I N D Q T H V C C C N P Y	
UniRef90_V4A702	I L L G K L F R W P D L Q H P A E L K P L C E C Q S F G V A D G P T V C C C N P Y	
UniRef90_U3KEF4	I L L G R L F R W P D L Q P A E L K P L C H C H S F G R T D G P S V C C C N P Y	
UniRef90_UPI0003D0F4F1	I L C K M Y R W S D L P F S A R L K P L C H C Q S F G S V E N T T N V C C C N P Y	
UniRef90_H2V1Y7	I L C K M Y R W S D L P F S A R L K P L C H C Q S F G S V E N T T N V C C C N P Y	
UniRef90_B7PPM5	I L C R L W R W P Q L R H H W E L R R L R M P W C G A S P L S V C C C N P Y	
UniRef90_T1KEQ6	T Y A K I W R W P D L H K N E L K H L K S C Q Y A F D L K T V C C C N P Y	
UniRef90_G0NB70	I Y C R V Y R W P D L Q S H H E L K A L E D C R F C Y E S G Q K D I C N P Y	
UniRef90_J9AIH5	I Y C M R W Y P E L R A S S H Q L K S V P H C R F P Y S S K K L E S V C C C N P Y	
UniRef90_T1JHA7	I C C L L L R W P D L R Q P F E L K R L A A C K S N H D P V Y V C C C N P Y	
UniRef90_L9L2Q5	I L C K V F R W P D L R H S S E V K R L C C C E S Y G K I N P E L V C C C N P H	
UniRef90_F6YV42	I L C K L Y R W P D L R H G A E L K R L I Q C E S F W R K S G E S L C C C N P Y	
UniRef90_K9UV32	T Y C K L F R F P D V T H Q V R S L P H C L Y P F H M K M E D F C V N P Y	
UniRef90_UPI0003EE3C59	M G C X S W F W P S H H S H K L K X V N C E C A F N L X K D E V C X V N P Y	
UniRef90_L7MEE1	L C C R L W R W P Q L R H Q Y E L R R L P W C A A A S P P E V C C C N P Y	
UniRef90_G0NK68	F L L K L F R F P Y L R H E F Q L K S V L N C Q H P Y S L G S R D V C N P W H	
UniRef90_B3M2A4	T A S R L F F W R D L R S G E E L K R L P S C P S A G D S V Y T C C C N P L	
UniRef90_T1I311	I C C Q V W R W P D L H S T R Q L K K L P M C K S G V L A G S N C C C N P Y	
UniRef90_UPI00029D9A78	M V C K A F Q W P D L E N M S Q L C L M P Y C E S P Q S N H I C L N P Y	
UniRef90_F6RBZ6	I C C R L W R W P D L R T V E Q L K S T P S C Q T A K Q P D M L C C C N P Y	
UniRef90_J9KAL4	I L C Q T W R W P D L L Q S T D K R L P A C R F P A G D P V Y V C C C N P Y	
UniRef90_D6WB20	I L C R F R F R D L Q A S P L K A L C C C Q S F K V P G E A P C C C C N P F	
UniRef90_W5UJ14	L M C K L Y R W P E L K H L H E L K L C C C E E S W K K D S E S V C C C N P Y	
UniRef90_H3AVW8	I C V L R A F R F P V I R Y E S Q V K S I L T C R H A F N S H S R N V C L N P Y	
UniRef90_Q21733	I V C R L F R F P D V I R N N S Q L K R L P V C P N E R D P V Y V C C C N P L	
UniRef90_UPI0003C35173	F L C R L F R W P D V R H Q R E L K R L C C C D S F G Q T D A E T V C C C N P L	
UniRef90_S4RG13	I L C K V F R W P D L R H S S E V K R L C C C E S Y G K I N P E L V C C C N P H	
UniRef90_G5B879	N A C R L F F W S S L R N G M E L K R L P A C P S A P D C V Y T C C C N P L	
UniRef90_Q297H8	D S V C N P Y	
UniRef90_G7YKY6	T A C R L F F W P D L R N G A E L K R L P L C P T A G D S V Y A C C N P L	
UniRef90_B4NJZ6	L I L R C F R F S H V R Y D S Q I K S M G S C R Y Q F D S S N R T I C M N P W H	
UniRef90_E3LV95	L Q S H H E L R P L E C C E Y P F N A K Q K E V C I N P Y	
UniRef90_E5SE16	I C C Q I W R W P D L E H S S E L K R L P I C H S A K D P V Y I C C C N P L	
UniRef90_E2ATB2	T T C Q L F F W S D L R D A K E L R R L P T C P S A L D S V Y I C C C N P L	
UniRef90_B4M5J3	UniRef90_K1Q889	T T C Q L F F W S D L R D A K E L R R L P T C P S A L D S V Y I C C C N P L
UniRef90_E0VS69	I S C Q V W R W P G L R E S S Q I R R L P G C C S S K D A V Y T C L N P Y	
UniRef90_UPI000273C83D	Y A H L X R W P E L H K N E L K X M T Y N Q C P F D L K Y D R A C V N P H	
UniRef90_B4KC87	T T C Q L F F W S D L M D A G E L R R L P T C P S A R D Y V C I C N P L	
UniRef90_G5CTL4	T A C K L W R W P L Y T R M P T L K R V P I C C E S P A R D Y V C I C N P L	
UniRef90_B4JHE4	F T C R L F F W P E L R N A D E L R R H P T C P S A L D Y V V C C N P L	
UniRef90_E4XYE7	L Y V K L F R Y D D V T H S T P L L S L C K F G R G S S E K V C V N P Y	
UniRef90_O15968	T A S R L F F W R E L W N A K E L K R L P T C P S A D C Y I M C C N P L	
UniRef90_R7VVR3	L L C K V F R W P D L R H C S E V K R L C C C E S Y G K A H P E L V C C C N P H	
UniRef90_R0JFM8	UniRef90_W8C5Y9	I I C R L F F W P N L R D G S E L K R L P I C S N E R H S I Y V C C N P L
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UniRef90_A0A034WIK8	I C C R L F F W P N L R D A T E L K R L P I C T A D R H S I Y V C C N P L	
UniRef90_K7IBG5	L R L R F F W P W I R H D I Q A K S T L N C R H Q T D R K T V C L N P W H	
UniRef90_K7HHP2	UniRef90_UPI000445BF5	R Q F S E L R S M E T C S Y P Y E S K T M F I C I N P Y
UniRef90_B4GDZ0	N A C R L F F W S S L R N G M E L K R L P A C P S A R D C V Y T C C N P Y	
UniRef90_H3FQN1	I Y N K I F F W Q Q I H K N E L R S I P S C R Y G F E N K S E D V C C N P Y	

UniRef90_T1G2J8	Y E R V
UniRef90_E5RZD0	Y E R V
UniRef90_G3U0J1	L S R L
UniRef90_G3PXG0	Y R K V Q
UniRef90_W5L997	M S R L
UniRef90_R7USL2	W S R V
UniRef90_V9KXV2	L S S R L
UniRef90_F7CPE4	L S S R L
UniRef90_S4RV88	L S S R L
UniRef90_H2YRY5	Y N K I E T
UniRef90_H2YRY4	Y N K I E T
UniRef90_F6X8Q3	L S R L
UniRef90_Q70MW2	W S
UniRef90_M9T3L2	W S
UniRef90_F7CL31	L S R L
UniRef90_U4TYK4	
UniRef90_UP10003D087C6	L S R L
UniRef90_UP1000359767F	Y T R V E
UniRef90_UP10003598B08	F S R L A [V]
UniRef90_W4WWF6	Y Q R I Q T
UniRef90_UP1000441978F	L S R
UniRef90_L5LXZ3	Y E R V
UniRef90_H2W002	Y E Q V
UniRef90_W5UC70	M S R L
UniRef90_H9GFR9	F A R L
UniRef90_H3FIC0	Y E R V
UniRef90_UP1000440B5B6	Y S R L
UniRef90_B5LVZ2	L S R V
UniRef90_F7IAK4	Y K R V E S
UniRef90_I3K6F7	Y S R L
UniRef90_U1NEL3	Y E R V
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UniRef90_H0YP36	L S R L
UniRef90_E9L074	I S R L
UniRef90_H2LA62	Y S R L
UniRef90_V5GYL6	W S R L
UniRef90_E4XJ15	Y E K V Q
UniRef90_V4A702	W
UniRef90_U3KEF4	F S R L
UniRef90_UP10003D0F4F1	F S R L
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UniRef90_T1KEQ6	
UniRef90_G0NB70	Y K R V
UniRef90_J9AIH5	
UniRef90_T1JHA7	W S R L
UniRef90_L9L2Q5	L S R L
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UniRef90_UP10003EE3C59	Y Q R F E T
UniRef90_L7MEE1	W S M V Q
UniRef90_G0NK68	Y R F L E
UniRef90_B3M2A4	W F R I
UniRef90_T1I311	W S R L
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UniRef90_F6RBZ6	Y S K
UniRef90_J9KAL4	W S R
UniRef90_D6WB20	W S R V
UniRef90_W5UJ14	Y S R L
UniRef90_H3AVW8	F S R
UniRef90_Q21733	Y R W V E
UniRef90_UP10003C35173	W S R I
UniRef90_S4RG13	L S K M
UniRef90_G5B879	L S R L
UniRef90_Q297H8	W Y R I
UniRef90_G7YKY6	Y E R V
UniRef90_B4NJZ6	W F R I
UniRef90_E3LV95	Y K L T E
UniRef90_E5SE16	Y K R V E
UniRef90_E2ATB2	W S R L
UniRef90_B4M5J3	W Y R I
UniRef90_K1Q889	
UniRef90_E0VS69	W S R L
UniRef90_UP1000273C83D	Y E X V G S
UniRef90_B4KC87	W Y R I
UniRef90_G5CTL4	Y
UniRef90_B4JHE4	W Y R M
UniRef90_E4XYE7	Y E K A Q T
UniRef90_O15968	W F R I
UniRef90_R7VVR3	L S R L
UniRef90_R0JFM8	
UniRef90_W8C5Y9	W C R V
UniRef90_A7S9K9	Y S E I
UniRef90_A0A034WIK8	W C R V
UniRef90_K7IBG5	Y R Q V E
UniRef90_K7HHP2	Y Q R V
UniRef90_UP1000445BF5	F S R L
UniRef90_B4GDZ0	W Y R I
UniRef90_H3FQN1	

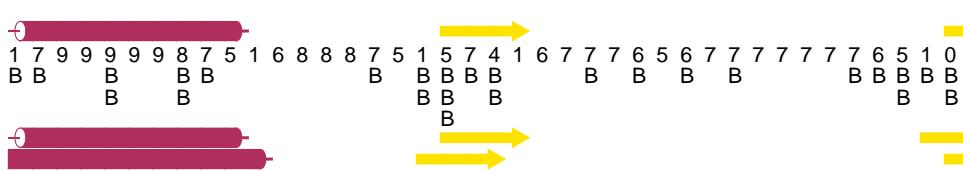
Sequence alignment showing UniRef90_F7F0M1 (top) and UniRef90_E4Y782 (bottom). The alignment highlights a highly conserved region from position 20 to 40, where both sequences share the same amino acid at every position. The sequence is: G G E S E T F A K R A I E S L L K E L K E K D.

Benchmark	Value Range	Count
lupas_21	Red (0-10)	1
lupas_14	Red (0-10)	1
lupas_28	Red (0-10)	1
jnet	Blue (10-20)	1
conf	Blue (10-20)	1
sol25	Blue (10-20)	1
sol5	Blue (10-20)	1
sol0	Blue (10-20)	1
jhmm	Red (0-10)	1
ipssm	Red (0-10)	1

UniRef90_F7F0M1
 UniRef90_E4Y782
 UniRef90_G5EDS9
 UniRef90_H3FGJ6
 UniRef90_M7BIZ5
 UniRef90_W2SJB9
 UniRef90_J0XHV9
 UniRef90_UP1000441CFB0
 UniRef90_D6WRP2
 UniRef90_UP100022195C
 UniRef90_UP100027F3AB2

UniRef90_F7F0M1 UniRef90_E4Y782 UniRef90_G5EDS9 UniRef90_H3FGJ6 UniRef90_M7BIZ5 UniRef90_W2SJB9 UniRef90_J0XHV9 UniRef90_UP1000441CFB0 UniRef90_D6WRP2 UniRef90_UP100022195C UniRef90_UP100027F3AB2	50 60 70 80 E [D S [I T A G D P S G L A W T L T G K L R V A G W E G F P H S T R Q I S L Y L S L D G R M Q V A Q R K V V P H M E V I R K A V E S D G V D S K A C A P G P P M D E R I P Q I D R P M S M P Y M E G F I R A V V D T N G S E G P C V L V P R T L D G R L Q V A G K K G F P H V D E [D S L I T I T T N G A P S K C V T I Q R T L D G R L E [D A L I A C C G S E G K E A K C V T I A R T L D G R L Q V C V N P Y H C E R D L A A I L K A V E S G G R D I K Q C A P G P P M D I I E E I P G C P M S I P Y L D S L L E A V E S R G G M P S G C V L V R A E L E V R L G G Q A C P E S P P P D L F Y K A I T Q G P I A R K T S C V P A R N A K L P E T Y G R V G L F N L N Q D L F Y K A I T Q G P I A R K T S C V P A R N A K L P E T Y G R V G L F N L S L L D V A E S G G P E S D C X T V T C C L F S E R D A A G A P R D A S D
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lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 solo
 jhmm
 jpssm



Sequence alignment showing conservation across 120 positions:

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UniRef90_F7F0M1: Y A H L W K W P E L H E N E R E H S Q S A C
UniRef90_E4Y782: C Y F R I F R N W F V S N Y H D L E A R V T C R Y S Y A E S Q Q T V C L N P Y H
UniRef90_G5EDS9: L C C K L W R W K D L Q V D H R L E A L P W C R F G R T I N N A T V C C N P Y H
UniRef90_H3FGJ6: T Y A K L F R W D E T N K T E L K S L P C K F G F D L K D N E Q F A F D L K Y D S V C V N P Y H
UniRef90_M7BIZ5: I M
UniRef90_W2SB9: L C C K L W R W K E L Q V D H R L D P L P W C R F G R T M N N A T V C C N P Y H
UniRef90_J0XHV9: P Y S R L
UniRef90UPI000441CFB0: I H G Q V W R W S H L R R S F E L Q P R N F C F S A H Q M E I C L N P C H
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UniRef90UPI00027E2AB2: P Y X X Y X Y X H A V E L K P C L C H E A A A D C P T V C C N P Y H
  
```

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
inssm

UniRef90_F7F0M1	
UniRef90_E4Y782	Y E
UniRef90_G5EDS9	Y
UniRef90_H3FGJ6	
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lupas_21	
lupas_14	
lupas_28	
jnet	
conf	5 2 0 5 8 9
sol25	B
sol5	
solo	
jhmm	
jpssm	

