

This figure displays a multiple sequence alignment of UniRef90 entries, focusing on positions 10, 20, and 30. The sequences are represented as rows of amino acids, with color coding indicating conservation. A yellow box highlights the region around position 10, and a red box highlights the region around position 30. The alignment shows a high degree of conservation at these positions across many entries.

Legend for conservation:

- Black: Conserved across all entries
- Yellow: Conserved across most entries
- Red: Conserved across some entries
- Blue: Conserved across fewer entries
- Green: Conserved across very few entries
- White: Not conserved

Key UniRef90 entries listed on the left:

- QUERY
- UniRef90_G9A5D1
- UniRef90_B8FUV7
- UniRef90_UPI00037831F0
- UniRef90_B1Z1C9
- UniRef90_M2Y505
- UniRef90_B2JLN6
- UniRef90_W6RME4
- UniRef90_J4JLL3
- UniRef90_D5WM34
- UniRef90_D6EBS4
- UniRef90_Q24ZH5
- UniRef90_XOYY30
- UniRef90_N6YBG6
- UniRef90_G7WDH7
- UniRef90_E8YVX4
- UniRef90_UPI000374440B
- UniRef90_K4LE88
- UniRef90_B8FQM1
- UniRef90_F7V8S8
- UniRef90_A0N0U1
- UniRef90_UPI000379578C
- UniRef90_UPI000371066E
- UniRef90_B8FV02
- UniRef90_X1DHB0
- UniRef90_XOS407
- UniRef90_U3CQQ6
- UniRef90_UPI000470C54A
- UniRef90_X1BHY4
- UniRef90_E4RYE6
- UniRef90_B1T0B1
- UniRef90_UPI000404094
- UniRef90_X1I1A5
- UniRef90_W6WWE4
- UniRef90_F4L7U2
- UniRef90_H9ZNW5
- UniRef90_D6E9C9
- UniRef90_K1YSA5
- UniRef90_R5CNU3
- UniRef90_A9DFV7
- UniRef90_B7KGJ9
- UniRef90_Q1ITL2
- UniRef90_G8NPA3
- UniRef90_D7JC17
- UniRef90_M0L7T7
- UniRef90_D6E6K8
- UniRef90_J0V5U0
- UniRef90_UPI0003609B29
- UniRef90_UPI0003609B29
- UniRef90_UPI0003645041
- UniRef90_T1DS20
- UniRef90_G2LGN3
- UniRef90_R6Z6G2
- UniRef90_S4Y0V1
- UniRef90_R5CRC9
- UniRef90_H3ZFR7
- UniRef90_Q1PV86
- UniRef90_UPI000470A4ED
- UniRef90_A9GMC7
- UniRef90_UPI0003FEC632
- UniRef90_UPI00035EA397
- UniRef90_UPI00046A1B8E
- UniRef90_I5C068
- UniRef90_R7P8W6
- UniRef90_U1RG10
- UniRef90_UPI00036DA1F0
- UniRef90_UPI0004691C92
- UniRef90_UPI00047A9E37
- UniRef90_UPI00047D9EAC
- UniRef90_R5BBC7
- UniRef90_A6EEG8
- UniRef90_G8NBH9
- UniRef90_S2Z9J3
- UniRef90_UPI00047D7913
- UniRef90_I2GP02
- UniRef90_G2LEG2
- UniRef90_UPI000225DE86
- UniRef90_E8X5U6
- UniRef90_UPI000477DE10
- UniRef90_UPI00028881D5
- UniRef90_R7J268
- UniRef90_E8UZY2
- UniRef90_G8UIB3
- UniRef90_M0LSF9

50 60 70

QUERY	K F D A [L D N G E Y T V E I D A D G K S Y S D T V V I D D K S V D L G F I K L
UniRef90_G9A5D1	R F D N L D G G M Y R V E V A H H G S V W R D C V L S E S S V Y L G E E L R L
UniRef90_B8FUV7	W F R K L E A G M Y F L S I E A E G Y A P V E T G I R L N E S S L N L G D F P L
UniRef90_UPI00037831F0	R F D G L D S G S Y R V E I H H L G N A W R K C E L L G E E S V Y L G E V S L
UniRef90_B1Z1C9	R F D G L D E G S Y R L E E I R K P G F A P G A L D F T L G Q S A Y L G V I T L
UniRef90_M2Y505	R F G G L E S G M Y R I E I H H L G N A S R E C C K V G E S V Y L G E V S L
UniRef90_B2JLN6	R F N K L D G G T Y R I D I T H L G G I W R D C V L S E S S V Y L G E E L R L
UniRef90_W6RME4	K F D G L D S G H Y R L T V A H N T L G S A E V D A T L G T S N V V L G E I K L
UniRef90_J4JLL3	Q F S R L D S G H Y R I T E I R H L G N A S R E C V L G E S S V Y L G E E I G L
UniRef90_D5WM34	Y F R K L D E G V Y D V A V E A D G Y R P V E R G I E L K K S L N L G D F A L
UniRef90_D6EBS4	W F R K V E V A G T Y S L K V E A E G Y Q T V T K D I A V D K S V N L G S S L S L
UniRef90_Q24Z5	W F E R Q P G V Y S I L I E K A G Y L P R T E S I D A S K D V N V G D I E L
UniRef90_XOYY30	K L D K L D D G T Q Y Q L V V E H P S L G R A E L D V V V T D S V Y L G D I R L
UniRef90_N6YBG6	K L D K L E S G K Y R L E I F E G S S K R I E D E F Q A S S L N L G V I N L
UniRef90_G7WDH7	R F S G L E S G V Y R V E V R H A Y G E A S R Q C L G E S S V H L G E L V
UniRef90_E8YVX4	W F K G L I G E N Y S L K I E K E P E M A D I K A G D S I N V G D I A L
UniRef90_UPI000374440B	W F K R L K S G Q Y S L D I K M S G Y K P Q I S D I A V D K S V N L G S S L S L
UniRef90_K4LE88	W F K R I V A G K Y A L R I E A Q G F K Y A M T E L N V D K S L N V G S S I A L
UniRef90_B8FQM1	K F D G L D D G K Y V I S I S V N A D G R K K D L E F I A G E S L N L E Y T E M
UniRef90_F7V8S8	K F D G L D S G D Y Q V V E V A H P K L G S A K A A A S T D S Q Y L G L I R L
UniRef90_A0NOU1	R F L G D S G L Y R V V E I H A L G K A S R E C E L G E S S V Y L G D V E L
UniRef90_UPI000379578C	K F D A L P S G A Y L V R V S H P D H G A I E R P A S V G D S V V L H D V E L
UniRef90_UPI000371066E	W F K K L E A G K Y S L T A K K E G Y Q Y V L N G F W V E D S L K V E D I A L
UniRef90_B8FV02	K L D G L E S G E H S L N T Y P G Y R T Q E L S V N L K E S I N V G V H
UniRef90_X1DH0	E F D G L D S N K Y S I V I E Y K G Y R P R E L S L E P G K D L N L G V L V L
UniRef90_X0S407	K F D D L T E S P Y T I K V S H P K G Q Y E T S L V L E D S I N L G V L V L
UniRef90_U3CQQ6	R F D G I E P G S G S V R V V H A A F G S A E R V L A V G A S S V V L G D I A L
UniRef90_UPI000470C54A	K F D A L E S G K Y S L D I D E V Y P G Y G K Q E L S V D V E K S I N I G T I F L
UniRef90_E4RYE6	E F L G V T K G N Y R L K V S A V G Y K T S E S A L T V D N N L E L G I R L
UniRef90_B1T0B1	R F D G L G S G A Y K V K I R H L G T A W R E C E L G E S S V Y L G E I R L
UniRef90_UPI000404094	S F K N V T N G T Y K L E V S F L G Y T K S D S K I S S N S L N L G T I K L
UniRef90_X11A5	W F E G L K V G T F S L K I A K N G K T K V L A S R D R T G S V N L G T L V
UniRef90_W6WWE4	R F S G L T A P P S S R E V R K D G T E K V L A S R D R T G S V N L G T L V
UniRef90_F4L7U2	R F E N L E T A K Y R I G V A K P G F Q Y L E E L V S I G S T L V
UniRef90_H9ZNW5	S F A N I P S G T Y R L V Q K P G V E P A A Y T V R V A G R E L A A D V E K D L N L G D I A L
UniRef90_D6E9C9	L F D Q V P G N T Y T L T F R K D G V T K T I A G I K T D I D R G L G D I P M
UniRef90_K1YSA5	W L K G L P G N T Y T L T F R K D G V T K T I A G I K T D I D R G L G D I P M
UniRef90_R5CNU3	R I D N L A A G Q Y R I K V S Y M G Y K T Y E K S V S L G S S D N
UniRef90_A9DFV7	K F E E L D E A K Y T L K V T F L G Y Q T F E K A I D F S N
UniRef90_B7KGJ9	R F F N N P A G P Y V V E V L K P G W K Q T L P T F Q K S Q L G Q V
UniRef90_Q1ITL2	R F D L L S A G Q Y S I K I T K S G F A S L S E N V E L
UniRef90_G8NPA3	R V D N L P P G N Y Q V K V V E A K G F R T V I S S V V T V D N A N R D D I K L
UniRef90_D7JC17	L K L N S G S Y R L R V S H Q N Y K T K T L E I D V T E N L N L D I T L
UniRef90_M0L7T7	E R Y G L E P G E Y E I A V E K P G Y E T A R R S L T L E A D
UniRef90_D6E6K8	W I D G V E P G A Y R L W I Q K E G Y L D P C D V D V
UniRef90_J0V5U0	R F E R V P S G N Y T L E V R F L G Y D M L S K P V Q V A Q A V N L G V L S M
UniRef90_UPI0003609B29	D F P S L A A G E V V L L V R H E G Y L P Q A R T V L L
UniRef90_UPI0003645041	D F P S L A A G E V V L L V R H E G Y L P Q A R T V L L
UniRef90_T1DS20	E V K V D Q G N Y T I E I S Y L G Y Q T W K K E I Q V T K N L N L A T I L L
UniRef90_G2LGN3	S V K N V P A G K Y R L L S V S Y I L G Y A T V D K E V R L S K D W Q L G N I N L
UniRef90_R6Z6G2	R F D Q L T P G D Y E I T V T G E Q Y Q P G T K V K V S G S
UniRef90_S4Y0V1	V L K V P S G E Y T L S V Q Y L G F D P V V R Q V R V E E N N D L G E I V M
UniRef90_R5CRC9	R F K N L P P G K Y R V E V A A A G F E P A E E D I A E G E A I E V
UniRef90_H3ZFR7	S F S A L D N G N Y E L K I T Y I G L A D Y I S D I T V K G N T D L G D I R M
UniRef90_Q1PV86	R F D N L A A G T Y Q L E V S Y L G Y A V K Q V D V L V T A H T D L G K I N M
UniRef90_UPI000470A4ED	I L E K V K A G A Y S M K V Y K K G Y
UniRef90_A9GMC7	V I M T G L M P G D Y R L I S F V G Y N S E L D V S L G K A V N F G T L K M
UniRef90_UPI0003FEC632	R F K N L P P G K Y R V E V A A A G F E P A E E D I A E G E A I E V
UniRef90_UPI00035EA397	R F E R V A K G Q Y K V E I N Y L G F E K F S R S F Q V Q D G V N L G A L Q L
UniRef90_UPI00046A1B8E	A F Y G V S P G K Y I V K I T A P G F A W K V E D V S A G E N L V L P Q I L L
UniRef90_I5C068	S F S G I G Q G E Y K I L I G S L G Y K P K Q L V V K L T A H T D L G K I N M
UniRef90_R7P8W6	Q F S A I P A G T Y R L E E V S Y L G Y S A F C R E L K L D Q S V D V G K V V L
UniRef90_U1RG10	V V I A D M A S G V Y R L E E V S S L G Y S A F C R E L K L D Q S V D V G K V V L
UniRef90_UPI00036DA1F0	R F A G L I P G T Y T V S I E A P G Y A A T T S M S V S V S
UniRef90_UPI0004691C92	E F Q N L P A G S Y T L Q V S Y Y L G Y S P I E R R V E L T A D T N V
UniRef90_UPI00047A9E37	A F N N L E P G D Y R L R V S S L G Y T T R D M P L S F A E N K D L N D I Q L
UniRef90_R5BBC7	E L N K I E P G E Y T L M V T Y L G F K T R E L S V S V S N
UniRef90_A6EEG8	Q F P N L I A G H Y R V E V N A P G F A K A T S
UniRef90_G8NBH9	S I K G L S E G S Y T V R F S Y V G Y K A A S R E I S L S R D L E L
UniRef90_S2Z9J3	S F S S I P S G S Y K L S V S F I G F E K Q Q R Q V N V G E S I N L
UniRef90_S2Z9J3	V F S T L P P G T Y R L E A Q K S G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_S2Z9J3	S F E E H P D G T Y S V K V K D G
UniRef90_UPI00047D7913	S F D K L K A G T Y F I E I S F I G Y Q P K E N V F S G D E K N L G D L Q L
UniRef90_I2GP02	R F D S V L A G K Y T I Q V S K E G Y R T E V A T V E S D Q S L
UniRef90_G2LEG2	S F S N L V T G R Y N T I E A S G F K K K
UniRef90_UPI000225DE86	R F A K V P A G T Y T L E I S F L G Y E T A Y Q S V S V G
UniRef90_E8XU56	S F S A V T A G K Y R L V I K K D G F A P L T V A E G Q S V N
UniRef90_UPI000477DE10	K V I E G M K I G K Y T V E F Q F L S F E T T T M A L D V D G S I N L G T I K L
UniRef90_UPI00028881D5	A F S D L D S G Q Y T V I A T G Y P P R A T G V S L A G D L D G H D I E L
UniRef90_R7J268	V F D G L E P G D Y T I E F E A E G Y P T E E P V A V T
UniRef90_E8UYZ2	R F S S L P S G K Y S V T I S S P G L E T T L K D E I V
UniRef90_G8UIB3	S L T A V G G K Y R I N I R H L A Y Q P L E Q S I Y L S D
UniRef90_M0LSF9	E R L G L D P G A Y E V V V E K P G Y G T A H E S M T V D

QUERY
UniRef90_G9A5D1
UniRef90_B8FUV7
UniRef90_UPI00037831F0
UniRef90_B1Z1C9
UniRef90_M2Y505
UniRef90_B2JLN6
UniRef90_W6RME4
UniRef90_J4JLL3
UniRef90_D5WM34
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UniRef90_N6YBG6
UniRef90_G7WDH7
UniRef90_E8YVX4
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UniRef90_UPI000371066E
UniRef90_B8FV02
UniRef90_X1DHBO
UniRef90_X0S407
UniRef90_U3CQQ6
UniRef90_UPI000470C54A
UniRef90_X1BHY4
UniRef90_E4RYE6
UniRef90_B1T0B1
UniRef90_UPI0004004094
UniRef90_X11IA5
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UniRef90_G8NPA3
UniRef90_D7JC17
UniRef90_M0L7T7
UniRef90_D6E6K8
UniRef90_J0V5U0
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UniRef90_A9GMC7
UniRef90_UPI0003FEC632
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UniRef90_E8X5U6
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UniRef90_UPI00028881D5
UniRef90_R7J268
UniRef90_E8UZY2
UniRef90_G8UBI3
UniRef90_M6L5E92

1 10 20 30 40

UniRef90_X1K5R7			R E E K T A L T D N Y G V F	
UniRef90_F9CZL4	I R G T V T D G R E P L A G A L V R	L I R P D S T L V T G V A N A D G T F		
UniRef90_UPI0003628B38	G T V T D V G A V V P Q A K V T	L T Q G T N D V R I Q T T D A A G D Y		
UniRef90_UPI0003750E52	I S G S L L D A N K P V E F A T V A L	L V K E G K I V D G A T A D A T G K F		
UniRef90_UPI000380B022	D N G Q Y L T G A T V Y L K	N I K K G T D T D T L G N F		
UniRef90_C7M4E6	I T G N L I S K E Q P V S N C V V K	L L S Q G K V V H T T A S N E K G T F		
UniRef90_E4RLU9	V E F A S V A L L L D G G K A L D G T M A D E N G K F			
UniRef90_UPI000373DBAC	K Y E I Y G Q V I D E D E M V E G A T V Q	L L T D S T F V K G V M T D S N G K F		
UniRef90_L1PMS8	V P G V T V I L K D A G N E V A R T T	T T D A N G N Y		
UniRef90_UPI00037F22FD	V A G N V D G R M R N L A D V E V L L R S A S D E T R A T T T D H F G D F			
UniRef90_Z4X1F0	I S G R V Y D A G E A L S A N V S L L L P D G K L R T G A T T A D G S F			
UniRef90_B5JN88	V Q G R V Q D A V E Y V E N V T V T	V T D T G E S V R T T S D G T F		
UniRef90_C1F590	I S G T V T D P G A V I P G A K V T	L T N S A T V V Q S T T A N A S G D F		
UniRef90_I0K415	L A G T V I D Q A T P L R G A T V Q	L T G L G R S T T T N E L G Q F		
UniRef90_A9DRE6	A N A V L M H N D T V L K G S S S D T S G T F			
UniRef90_C9LBC0	G H V T A V G K N V E D A T V S L T G K S E V E A K T D A K G A Y			
UniRef90_C6CT37	V D G T V K D R N T P I E G A K V T L Y D G T N K V A N T T T D A S G F Y			
UniRef90_UPI0003FF8C91	N V I E G R V L D E G Q G L A G A A V L L Q N T	Y K G T T T D H Q G R F		
UniRef90_I3ZMP1	A G K V T D P G A T V A G A T V H L I N N G T K A R T A T T N D S G D W			
UniRef90_K1YBN7	K K F V V A G T L Y D P V I E V I G A T A T	L T D D T G E T F T E T T N N F G D F		
UniRef90_C6XUX9	I T G T V K D Q K E S L P G A G V Y L S G Y K V S T V A D A E G K F			
UniRef90_Q01RD7	I T G R V L D T G H S V P G A D I T L T K T D T L E E R T F T S V T G D F			
UniRef90_R7HA14	D E N E P I A G A R I R I Y S G E N L V I R T O Y T D E T G N Y			
UniRef90_Q5SLK8	A G G P V A S S T L K L Y R R G A L V A T T T A S D G S F			
UniRef90_I0TRP6	G V Q D S D E G I Q G V T V T L K K N G N V L K T T T D E N G N Y			
UniRef90_UPI00047A47EA	V L G K I I D A A D P L I G A T V V L S P E A G Q A G A A V T D P N G D F			
UniRef90_A6NS74	I S G T V S G D E G P V E N A V V T L N G K Q A V T V S N N N G Y Y			
UniRef90_H1H5G7	K G I V V S G R V I D S G D S L P G A A V L L D N G K Q Y T V S N N N G Y Y			
UniRef90_K9E1V4	K V F V G G E V F D N G E R V A W A T V R L R S D S T Q T Y S T A T D Q N G V F			
UniRef90_R6VHU4	Q N F I S G K I V D S G E Y L D G V S V T L R G T A Y G T T S V A G G N F			
UniRef90_R6EV27	A T V S L V K A N Q A V A A T Q T D I D G N F			
UniRef90_UPI00045E9A0B	V N E Q G E A V E Y A T V V L I K D A E Q V A G M T T D G E G R F			
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Sequence logo showing the conservation of amino acids at each position of the protein sequence. The x-axis represents positions 1 to 40. The y-axis lists UniProt IDs. Each cell contains a letter representing the most frequent amino acid at that position. Colored boxes highlight specific motifs: blue for N-terminal, yellow for C-terminal, red for hydrophobic, green for polar, and black for conserved positions.

50 60 70

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UniRef90_D5BCP8	K F D D L E M G N Y I L N I S K P G F E S L R L P V L L D A S L N L G V I R L
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UniRef90_R7JCB7	E L V N I S A G T Y R L V I S S V G Y Q T Q E I L A D L N Q S R N L G E I Y L
UniRef90_I3ZEC9	S F R N V P T G T Y A L T V S M P G F A S
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UniRef90_J3CN78	S I N D V K A G T Y N L Q V S Y I G Y E T S S I E L E I G E T V D L G N I K L
UniRef90_DOLFX1	R I D A L P A G Y D V R A A A P G F E P
UniRef90_E6PYG6	Q F S S V P P G N Y E L T V S A Q G F D P K K Q S I T L G E P L S P D I V L
UniRef90_L7X2L0	R F D N L D S G D Y K V V F E K P
UniRef90_UPI00036EA689	N F A N L D P G T Y E V R F G Y L G Y Q T A T V Q V F A G K A I K L G E I A
UniRef90_K9E917	N F S D I K Q G N Y R L K V S A V G Y Q T H Q L N L Q V K E S I N L E N I M L
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UniRef90_R7H3Z0	E L N G L K N G K Y T L N I N Y V G Y K P Q
UniRef90_UPI00040F01EE	S F D G I A P G D M T L K V T K E D F E D E E S I H V G A
UniRef90_UPI000378C548	R F D N L V A S A Y K L E L S H V G F A T Q V V D V T V Q N D
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50 60 70

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UniRef90_D4TZM3	S F D K L P V G T Y S V K V V Q D G	
UniRef90_D4TZM3	S F D K L P V G T Y S V K V V Q D G	
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UniRef90_S2Y4H2	S F D N L Q N G N Y K V S F E T P	
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UniRef90_A6LFY8	L L N K I K K G S Y I L L S V S S L G F K T E Y I S L E L S K N I S L G E I S L	
UniRef90_G2MKC5	S S A D I E Q G L Y T V S V V K P G Y Y R N T K T V R V D E S	
UniRef90_UPI000415EBF7	F I T G F D T G V Y E L H I T F L G Y E T V K R T V N I Q D D I N L G E I G M	
UniRef90_E4T6N6	S I P S V A N G K Y S L R I S Y V G Y T T V K S L E I V G A P L N L G T I Q L	
UniRef90_R5M5G9	A L K N L L S P D T Y N I E L L S A L G Y S S V N K E I S L T E D L	
UniRef90_D2QHZ7	M F S G L L P G S Y T L R L T F V G Y Q T R T T A F A L T D Q V Q L G T L L L	
UniRef90_F4C388	I F S G I P A G T Y L L R A S F V G Y E K R S L R V T G Q T L A L G N L K L	
UniRef90_H6LAD7	K L D G I T P G I Y D L K I T Y I G Y P K	
UniRef90_R6YCE1	E L N G I N A G T Y C L L I S S M G Y R T Q E I W L D L S Q S R D L G N I P L	
UniRef90_T2KJP6	S I L N S A Q G N Q V L L V V S Y I G Y K P K E I P L N I S N S V N L G A I I	
UniRef90_V6S759	N I P N L L E L K S Y T L V V Q F I G Y K K A F T L T S A D K S I N F G T I A	
UniRef90_UPI0003FB9F8C	E F L N V P D G N Y Q L E V S Y L G Y K T Y S T A I S V S G S I N I	
UniRef90_N1JR02	T I D V P P G T Y T V R F E K S G Y V T A E E	
UniRef90_UPI00036251DE	E F A N K R L G T Y R V R V E A A G F R T S T A S	
UniRef90_UPI00047E86C9	S F A S L P G G S Y R L E A N K P G F S T I T V M V S P G N S V Q	
UniRef90_G2LEQ0	V F D S V Q V G V Y T V T V E A N G F K R L A L K G N P V N V G Q	
UniRef90_E8UYQ1	T F A G I I P G T Y V V D I S A P G F R S R Q A D V V V N P G D V R	
UniRef90_K2P0X1	K L T N I S A G K H I L E V Q F I G Y Q T Y Q K N I T I S T E V N L G T I A L	
UniRef90_UPI0003B6025D	S F S N L L K S G N Y T L R A S Y I G Y P V T R T T A L G D	
UniRef90_S2XVW9	I F K D L L P N G K Y E I S F E T P G Y	
UniRef90_S2XVW9	I F K D L L P N G K Y E I S F E T P G Y	
UniRef90_C1F8S8	U F S G L L Q P G E Y T V S V S Y V G F K K V T K T V T V S A S L N L	
UniRef90_F4PXX1	S I I G L E A G D Y C I K	
UniRef90_F4PXX1	S I I G L E A G D Y C I K	
UniRef90_F4PXX1	S I I G L E A G D Y C I K	
UniRef90_F4PXX1	S I I G L E A G D Y C I K	
UniRef90_F4PXX1	S I I G L E A G D Y C I K	
UniRef90_K6ATC1	Q L E K I E T G S Y R I I I S A I G Y T D N I T D L N L S K S V D L G K L T L	
UniRef90_UPI00047DE224	S F S P V A I G T Y S V S V E H E G F	
UniRef90_E8WYY5	A L R G V P S G Y S L T V T V T M P G F A T	
UniRef90_UPI0003B742C4	T L E G I R P G T Y E L R R M S Y V G Y T T K R R S I T M R D D A S L G T V A L	
UniRef90_E8X0M5	S F S S V P S G D F S S I T A P G F A A Q	
UniRef90_W1WDR0	Q F D N L N S G N Y I I V H F D K P S G M T Q T T D S G D D D	
UniRef90_M7XU35	E F T R I S E G D Y I L K V Q Y L G Y Q N F F Q S V S V K S N L N L G N I F L	
UniRef90_Q89Z09	K M I N V K S G N Y F L S L S M I G Y K K A N I P L Q I K E S M N L L G D I T L	
UniRef90_UPI000363B8E4	N V A G V Y G G T Y N F R I Q K D G Y P S Y N E Q L D V G D S I D V G T I N L	
UniRef90_UPI0003730C49	I L T D L S L G K Y K L K I Q A L G Y R S S E V E V T V S A S V N L E E	
UniRef90_W5TAC9	E L T D L A E G E Y T V V A R G Y P P V T S G I T V T G G G E L E H D V R L	
UniRef90_UPI000409CB43	M F E K L T P G K Y K I R V S Y I G K K T I Q E N I V L I Q N V N	
UniRef90_B5CZZ1	Q F K K L T P G T Y T L Q V T Y V G Y K S Y N A K Q T L S E	
UniRef90_Q8A1M6	T I Q G I Q E G K Y Q L E E V S F L G Y V P A T V P V N V N N S	
UniRef90_F9Z605	T I E K I K S G K Y R I E I S F I G Y T D Y R Q E F E L D Q S L D L G E I V L	
UniRef90_G2LJJ4	T L A N L P P G T Y T L H V E M E G F K P Y E	
UniRef90_UPI000366BA75	V F E N L K A G N Y T L I V S Y I G Y Q T L Q K K V S V G E V L N L	
UniRef90_UPI000363C3F6	T F N G L P P D R F S V K A E K Q G F Q T	
UniRef90_H1GXC7	R I D N L L C G K Y R L K T E V L D Y N T E E N I I H L T K E P N L	
UniRef90_G7ZSG1	K F T D L L E N G N Y K V E F T T P G Y T P	
UniRef90_G7ZSG1	K F T D L L E N G N Y K V E F T T P G Y T P	
UniRef90_G7ZSG1	K F T D L L E N G N Y K V E F T T P G Y T P	
UniRef90_F3ZR09	S L Q N I D S G N Y I I K A S Y I G Y E T V S S L P I S I D G D L	
UniRef90_W0EYN2	R F D K I K A G S Y L L I L A S S V G H T P V Y S S V I	
UniRef90_UPI0003065FB0	K I E N V K A G K Y R L T V S F I G Y N T K I I D P V E T T D L N L G E I I L	
UniRef90_E1W0M6	I F D E L P A G D Y Q V K F E	
UniRef90_UPI0002D775E3	V F R G V G S G T Y T L V A S A D R M R P V A S L I T V P E S G V L	
UniRef90_R5BA01	S F S N L L D E G Q Y D L H I E M I G Y V A I D S T V V L R T S	
UniRef90_R7HL98	V F D N L E P G E Y T L T Y T A E G Y K	

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UniRef90_C6XY79
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UniRef90_N1JR02
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UniRef90_Q89Z09
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UniRef90_Q8A1M6
UniRef90_F9Z605
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UniRef90_R5BA01
UniRef90_R7HL98

40

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 UniRef90_B9M4W8
 UniRef90_F0G365
 UniRef90_H1ZBL8
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 UniRef90_UP100039B45C5
 UniRef90_UP100047B4D15
 UniRef90_H7FVK8
 UniRef90_C3BVL2
 UniRef90_UP100035E7E3F
 UniRef90_B1BCD8
 UniRef90_UP1000374CCC0
 UniRef90_D2JDZ0
 UniRef90_D2JDZ0
 UniRef90_UP10004793D76
 UniRef90_R6XF8
 UniRef90_D3BCP4
 UniRef90_D3BCP4
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 UniRef90_D7VUJ1
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 UniRef90_Q01XT9
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 UniRef90_D9WG47
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 UniRef90_UP10004721210
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 UniRef90_UP10004796511
 UniRef90_UP10003B5E14D
 UniRef90_H8KSI6

10 20 30 40

The alignment shows a highly conserved sequence across many UniRef90 entries. A specific residue at position 40 is highlighted in yellow, indicating it is conserved across all or most of the aligned sequences. The alignment uses standard IUPAC amino acid codes and includes gaps represented by dashes.

50 60 70

UniRef90_I8UVK0	N T H E S G H Y H T V S Y I G Y E K Q E R S D L T N N M S L	
UniRef90_G8NUF4	T F V G L P V G H Y R V S A N Q S G F Q E Q E V S L M L D P S	
UniRef90_C6D3W9	S L D D L P A K S Y T V T V S K P G Y Q S W T V T A K A G A A L E V	
UniRef90_B9M4W8	T L T A I P A G S Q Q L E V T L T G Y A S G T A A V E V G A L L N L G D L P L	
UniRef90_F0G365	R F D H V P P G T Y A A V V D A D G Y T T	
UniRef90_H1ZBL8	E F F L N I P V G S Y T L S V S Y I G Y A P I E Q E V E V T A G Q N	
UniRef90_F2KY03	E I M R G L S P G A L Q L R V T A V G Y Q P V D T I L Q L Q E T	
UniRef90_D5ETM1	R V T A P S D G T Y T L K I T Y V G F K T Y T K K F T L G K G Y N A G T I S L	
UniRef90_UPI00039B45C5	S I G N L P K A E Y S L Q I L Y P G F T P I E E Q R D I F K N I N	
UniRef90_UPI00047B4D15	R F A A V V P V G K Y V V R V E Q P G F R P E E Q N I T V	
UniRef90_H7FVK8	L L S N I K E G T Y S A R I E M L G Y Q T R I K S F T F D	
UniRef90_C3BVL2	L F D G L T E S I Y R V Q V E A P G Y V F T L K D V T V D S N V N	
UniRef90_UPI00035E7E3F	T F T Q V L P G S Y S V V E V A A P G F A R V	
UniRef90_B1BCD8	A F T E V S P G T Y N I N V S A P G Y I S A S G S A T V T A	
UniRef90_UPI000374CCC0	T V P N V P A G R Y R L T V S F L G Y Q D L Q R T V E V G S A L N L G A L T L	
UniRef90_D2JDZ0	Q F T D L N N G T Y K V E F E T P G Y T P T S V T S G N D	
UniRef90_D2JDZ0	Q F T D L N N G T Y K V E F E T P G Y T P T S V T S G N D	
UniRef90_UPI0004793D76	R F D L L P A G T Y Q V E V Q G S G F N P A	
UniRef90_R6X9F8	H F K A P E N G K Y L L K I T S V G Y K T I I K R I A I E Q D K N L	
UniRef90_D3BCP4	V F D N L P P G T Y N V K F H I P	
UniRef90_D3BCP4	V F D N L P P G T Y N V K F H I P	
UniRef90_D3BCP4	V F D N L P P G T Y N V K F H I P	
UniRef90_Q5LHG1	S L S K Q K P G K Y L L K V S F I I G Y V T K I I P V Q L T A N V K M G N I E L	
UniRef90_H1HJE2	S V K A P D D G L Y L V R I T G I G Y K T L L R Q V N V G K D V D L G T I V M	
UniRef90_UPI000408F357	V F K D L D E G N Y R I K V D K	
UniRef90_W6TRV3	K I N N L Q P G N Y D I L V Q M V G Y P Y S K N V V I S D K S V E V	
UniRef90_UPI000375D74B	A F N D L A P G N Y S L K I D H L E Y E S R V T A P E V	
UniRef90_D7VUJ1	T I N D I K E G Q Y T L Q I S Y I G Y E S S D I T I D L K Q T L D L G I I K L	
UniRef90_UPI000380904B	Q F D A V E P G R I S L T I T S T G F A W V S T D L T L Q	
UniRef90_Q01XT9	S V P S L V P G T Y T I S V E A V G F K K L N R A N A N D K L A V G D L A L	
UniRef90_UPI00029A53F4	S I K N L K P G N Y R I K I I S F V G Y A P L I V I I T E K D S R N L G A L K L	
UniRef90_D5BJA3	I I K K V K S G N Y I L S I Q F I G Y K K S K E I V V Q G N S M E L G T I N L	
UniRef90_H8MWG7	T F D G L S P D E Y T I K A E Q G G Q A H E T V V E V Q V T L R L G T V	
UniRef90_F0Z789	K F K D L P P G S Y C V E E A D T P	
UniRef90_F0Z789	K F K D L P P G S Y C V E E A D T P	
UniRef90_F0Z789	K F K D L P P G S Y C V E E A D T P	
UniRef90_F0Z789	K F K D L P P G S Y C V E E A D T P	
UniRef90_I3Z8X5	S F Q R P T I N T Y N I E V T F V G Y T K S T K T I E N F D G V D I G D I E	
UniRef90_N1UZT9	A F E N L E A G T Y R L R F Q W T E W V W T E D L D	
UniRef90_G8NPW2	E F T N V Q P G E Y T L T V T V A G F E K S I T D P F I V N V G	
UniRef90_UPI000426E739	K V D N I A P G T Y R V V I A F L G Y E T K V I D P V K T S D L N L G R I I L	
UniRef90_UPI00047E95E3	L F T G L Q P G N Y T V E V T R P S D F T P T T E T T L S A N V	
UniRef90_U1PWT7	S V E T L E A G E Y R L T V E K R T Y Y T I N R T I D V D G E T N I	
UniRef90_W11Z78	G F T N L I P D D Y V L L I S Y M G F E T K K I L L N F L E S V E I	
UniRef90_G8NXM0	T F T Q L G P G S Y S V Q K E T G F Q T F M I P A I A L N A G D	
UniRef90_UPI0003689FB3	S F S A L E P T T Y S M T V E F H G F K K Y D L I I A T Q Q S V N L D V T L	
UniRef90_UPI00037F4017	V F E V P E N G R Y Q V R A V A P T F Q S T T S E S V Y L	
UniRef90_UPI000363DD4F	S F S G L N P G I Y S I E V S S V G Y Q T	
UniRef90_C1F308	N L Q A L L P P G T Y S I H V S E N G F Q A Y E L T L T A G A D A K L P D I K L	
UniRef90_D3BGZ2	K F D K I L A G E Y T I H V P K D G T K W T E N S P D S K	
UniRef90_G8R018	T I K N V P G G D Y V I K L S F T I G Y K L Y E R E L S V S G N Q N L G A L K L	
UniRef90_R5GE68	T L K T T A A G K Y T V K V S Y V S Y K T A T R E V T L S E T V R L G T L E L	
UniRef90_D2R1L6	I F A G L N P G T Y T I R	
UniRef90_D2R1L6	I F A G L N P G T Y T I R	
UniRef90_G8TD4	K L G A F E N G A Y L L E V T Y I G Y E K L V R E I K L	
UniRef90_UPI00047BBD20	UniRef90_S9QQP0	A F S A V E P G R Y T T L V S S D G F K R S E A
UniRef90_G2LLI7	H F G G L L P P G S Y L A K A R A P G Y L P S E	
UniRef90_UPI00037FCD18	H L D G L P P G N Y V V V E V E A E G	
UniRef90_UPI00047005FC	S I E N I P S G T F L L E I N A L G Y A E Y V Q T F T F D K D L	
UniRef90_A0A014L710	T F F S D I S A G H Y Y L K I D F I G Y R T R T K Q V V V S K S Q N L G D I V	
UniRef90_I3BXT9	G F E E L V S G T F T V A V N A P G Y R P A A L P V E V G A	
UniRef90_D9RSB7	A F Q G L V P G H Y S L Q A E K D G	
UniRef90_I4ADA6	E L N T H E G E N Y R I R I S F V G Y S T Q E I K C N I S K H L S V G T I V L	
UniRef90_D9WG47	S F N K V K L G K Y K I V V E N P Q Y S T K T T D I D V	
UniRef90_U2SIR4	G F E G L T G E H Y T V V A S G Y A P A T R P V T V G A D	
UniRef90_K1L483	S F E P L S P G D Y E V R A E H Q G F A T A T L A E E S G D T V Q L G T L	
UniRef90_I2GMU7	S W Q N V P S G T Y S L E I N F I G F K P Y L E S I E V S D S Q V L G E V V	
UniRef90_B9M5P9	A I A N L P A G N F R L S V S Y L G Y Q Y L S Q P I L L D E S A D L P A I A L	
UniRef90_F3ZPU6	A L N G I H Y G M Q Q I T V A L D G Y T P R T L K I T A G A T T N A G T I V L	
UniRef90_G8XB59	T I S N L P P N T Y T I V A S F I I G Y K P Q E K E F V I N N	
UniRef90_F0SAM4	K F D K L A S G S F S I I F S H P N Y D G Y T S I V V L N K K E N S Y D V V L	
UniRef90_U1LRG7	T F F K N L K N G R Y L L Q V S Y I G F K P L E K V V Q V	
UniRef90_UPI0003661345	R F F I N L P A G T Y T L E V R Y I G A Q S V T K Q V V I K D N	
UniRef90_A0A020MXK4	E F F L N L Q P G R Y V V K I S K T G F A T	
UniRef90_A0A020MXK4	R F D N L D S G K Y K V I F E K P A G L T Q T	
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50 60 70

UniRef90_C7PJ71	V P A G N Y T L E V R H I L A Y L T A H K K I I T V T D D V N V
UniRef90_Q64VC0	E F R K L A A G K Y T L R V Q V M G Y K T Q E K T I T V S A
UniRef90_UPI00047962B4	A F G N V P A G K Y P L T A A K R G Y R T S
UniRef90_D2RPQ4	E L K G V T G D E Y A L T I A A D G Y E T S S E
UniRef90_R7CWP6	T V Q L S P D T Y E L R V S Y L G Y Q P F T S H V E A R Q S M S V N D I R L
UniRef90_UPI00036D930C	S F P V L D P G D Y R V A A Q M A G F Q S Q T E N I R L D S S Q N V H V
UniRef90_UPI00036842CF	E F P D L I N G P W S I E I E M L G F A
UniRef90_UPI0003B40862	Q F T N L S P G P Y V E V M K P G W K Q T L P T F Q K N L Q L G Q V
UniRef90_E0UL07	S F P N L P V G H Y E L T I S A D G F T P R K S N L T V D D S V V R V D T E L
UniRef90_E8X5T4	S P P R L R A G T Y T L Q V S F I G Y K P G V V I T E A G N V L N L G S I
UniRef90_UPI0003737930	Q F T G L E N G T Y K V E F E T P G Y T P
UniRef90_Z8V7E8	UniRef90_Z8V7E8
UniRef90_E0UL07	UniRef90_E0UL07
UniRef90_D2QJH3	UniRef90_D2QJH3
UniRef90_UPI00037D9966	T L G K V A P G R Y R L Q Y S F I G Y K K R S S L L T I D K N I N L G T I K L
UniRef90_UPI000468CCFC	G L S K I P Q G D Y F L S I S L L G F S E Q E N F Y H L D K D I N L E F L L
UniRef90_R6AW40	S F N A V A N G D Y K I R I S A M G Y H S V S K N I V G K N I N L G T L K L
UniRef90_H1QP5	H H L N A P E N G K Y L L K I T S V G Y K P K R V V I E Q D K N A L G N V V
UniRef90_E8V8R8	R F E G L D R G S Y T V K L P A S N F A P
UniRef90_R6EEG4	L F S A L Q P G D Y L L R V E A P G F A S Q Q T A V
UniRef90_UPI000375B0F4	T I E K V P A G S Y V F K A E L L G Y K T F S K E I T T L K E S I N L G V I K M
UniRef90_UPI00039A9ADA	E I L A L P I G T Y S V S I T E A Q G F K T T K T E V T V G E
UniRef90_H1YTR2	R I D N I E N G T Y I L R I S M I G F T T L E R E F T I S A S
UniRef90_UPI00029A06EB	L F E G L K P G N Y R I W V T M M G Y Q K S E N L I V E K Q P L V M P I N L
UniRef90_G0LBP9	F F T G L T N G D Y A I R I S A M G Y N S V S K M I S G K S I D L G T I K M
UniRef90_UPI00037F9799	N I S E V P K G N Y I L N I S S L G Y L S V Y K P K R V V I E Q D K N A L G D L I L
UniRef90_UPI0003B3CFC2	Q F K N L K R G T Y L L K I S Y V G S I P F N R T I T P G N E L D L G E L K L
UniRef90_UPI00036342C5	N F S P V A I G T Y S I T I E H E G F D R A Q T S A Q V N A T L H V G S V S
UniRef90_UPI00037315E5	T I N N V D S D A T L V V I S Y I G Y S T Q E V A I N G R T T V N V
UniRef90_A3HUE2	E I D R V P A G Q Y K V V V V S Y V G F E P I E R E I E F Q E
UniRef90_I3Z1Z9	T I T K L L T A G E I Q L R V S Y V G Y S S L E K N L A V P Y A G D L T L
UniRef90_W4US50	E I R N I P Q G T Y D L R V S F L G Y T T Q T L K I T V
UniRef90_A9WDQ6	H F S E I P Q G E Y R I V I S Y L G Y D K T D Q K L S I T Q K L
UniRef90_A0A023BRU2	R F D N L A P G T Y T V A V Q S P G
UniRef90_D0MF66	R I E H L R S G D Y Q I V I S H I G Y Q T Q Q K T I T L L K N
UniRef90_Q1DAE0	V I P N V A P G Q Y T L L V I S Y L G Y H T E E V P V T V A E
UniRef90_UPI000302587E	T F T G L P I G T Y N L T A Q K E G Y A V V Q Q S V T V
UniRef90_E8X3Q6	S F K K K M P P G D Y E L K M E V P G Y T A E T E K I S L
UniRef90_X1T4W1	T E P N L P A G T Y T V T I V A P G F K K E
UniRef90_C6WMG4	A F I N L L D T G H Y T L T C E K E G Y E M V S R D I T L D N S I N G M V P
UniRef90_UPI00028A2998	R F T G L P L G A Y Q V E A D R T G Y A
UniRef90_UPI0003B3EBEB	L L S G L N V G S T E V Y F S Y V G A V S Q T R K I T I K K S V N L
UniRef90_H1H9T2	Q F A N L I P G T Y E V D F E N S G F A T Q N I Q V T V Q A S V
UniRef90_UPI00035D0AE3	R I D D L E R G K Y R L K A A A E K Y N T E E V S V Q L D A
UniRef90_E8V1T0	M F K T E K S G N Q T L I V S F V G F E S L E K P I N L G G T V E V G T I N L
UniRef90_UPI00037DA7D2	T L G F N T G N Y T V E I A G S G F R P N R R T I D L S A S L V V G D V S
UniRef90_UPI00037DA7D2	S F T G L T P G N Y S V
UniRef90_UPI00037DA7D2	S F T G L T P G N Y S V
UniRef90_UPI00037DA7D2	S F T G L T P G N Y S V
UniRef90_UPI00037DA7D2	S F T G L T P G N Y S V
UniRef90_UPI00037DA7D2	S F T G L T P G N Y S V
UniRef90_UPI00037DA7D2	R F D G L V A A P Y K V E M S H V G Y G T I T Q E I T I T D D
UniRef90_UPI000382311F	Y F S K L P A G S Y E V T V S Y L G Y G
UniRef90_UPI00045EC0A7	Q F V N L P P G Q Y S V A I E K P G F K R V L R S
UniRef90_D6TN98	S F S N I P I G S Y T L A V S
UniRef90_C6VSF9	A L A K V A P G A Y R L M I S F I G Y K D K A V D V K V G K D V E L G S V Q L
UniRef90_D5SX6	S V N G L K G G V Y Q V
UniRef90_G8R676	K L T N I P A G E Q S I E I S F I G F E N K V V S F N G G Q K I N L G D L K L
UniRef90_D5ZS02	U N R D E L V P G T V T V A V N A L G H R P R A L P V E V G
UniRef90_M5AR72	U L F D D L P P G T Y T V V
UniRef90_UPI0002627207	S F S D L P A G D Y T L V T S G Y A P V A A P L E V
UniRef90_UPI0004786011	E F R D L P A G E Y V T V E
UniRef90_UPI000479C746	V F T N I L P G T Y S I V V T A A G F K K V E
UniRef90_G8NSC6	S F S E I T A G T Y Q V A A S H A G F A V A K S T V I A V N L G T
UniRef90_G8UKN2	S F D A V V R D G H Y T L E V R I L G Y Q T V R Q P V N V G A D T D A G T I V L
UniRef90_D7W2V3	Q F I N N L K R G T Y L L E I N Y T G Y Q P I I E K I S I D K D
UniRef90_C2M8Q4	Q V K V P A G T Y K L T I S S V G F K T I T Q D I S L T E N E V L
UniRef90_E6XDE2	S F N L K P G S Y T L K V S A I G Y Q P R I K T T V T E N
UniRef90_I4DRL8	W R I L L P G N Y R L D V S A E G Y I P Q E V E F V V I D S
UniRef90_T0NZC2	S F P K I D T G T Y R F I V S F P Q Y V D V V K D V T V G E P I A F G T I K L
UniRef90_UPI00036C7CFB	H F D H L P A G N Y F I S A S Q V G F D R V Q T A P F L M A S
UniRef90_UPI0003FD8F41	L F S N I N T G N Y T L S V K G V G F
UniRef90_K5Y456	K L D Q V K Q G D Y Q V A I S S L G Y E T A V I S V Q L S Q N I D L G T I A L
UniRef90_A5FHL1	E F N R I K P N T Y T L Q V S L T G Y E T L E S E V V A E S V N L
UniRef90_A8LQ85	S F T G L D A G T Y A V R F A P D A T G K T F V V A Q D V G N D
UniRef90_E8SES1	L F E N V K E G D Y T I E F E T P G Y T P
UniRef90_E8SES1	L F E N V K E G D Y T I E F E T P G Y T P
UniRef90_E8SES1	L F E N V K E G D Y T I E F E T P G Y T P
UniRef90_G8TK04	T F T G I N A G S Y F V A V T F T G H T P K T S A A
UniRef90_UPI0003B6D19C	E R S G I P A G R Y L V S I Y K E G Y G D R
UniRef90_UPI00034AFD2B	R L D G V P V G F Y T L R V S
UniRef90_A1ZMZ2	Q L D H L K A G Q Y T L R F S Y I G Y Q T Q Q V N V T V K E S V R L
UniRef90_LOG138	E I L A N L P A G K A T L R I S Y L G F E T V T K E V E L K A G S N V G D I Q L
UniRef90_UPI000413B9EA	R M E A Q N G R F V L K I S F L G Y V S L Q R P V Q V T G P V D L G T L S L
UniRef90_A9A0X1	S F S N V P A G E Y R I A V T H P D Y
UniRef90_D1W103	S I N A K D G D K I L L V S Y L G Y K T S E V S A H D G M K V K L
UniRef90_R5CV14	A I E G L A S G D Y I L E I S F L G Y L N H H Q N K L L N K T M D L G I H L
UniRef90_UPI0003693921	N V P F L T A G R Y A L T V E A A G F Q T R T L E G V T L E V G Q T A
UniRef90_UPI000469851B	E F F L N I N V G K Y I L Q V K Y M G Y A T M E V E V E S G K N V S V
UniRef90_A3J4K8	E F F L N I P E G N Y Q V E I T Y I G Y Q T Q E V K V E A G K N T N I

UniRef90_C7PJ71
UniRef90_Q64VC0
UniRef90_UPI00047962B4
UniRef90_D2RPQ4
UniRef90_R7CWP6
UniRef90_UPI00036D930C
UniRef90_UPI00036842CF
UniRef90_UPI0003B40862
UniRef90_E0UL07
UniRef90_E8X5T4
UniRef90_UPI0003737930
UniRef90_Z8V7E8
UniRef90_Z8V7E8
UniRef90_D2QJH3
UniRef90_UPI00037D9966
UniRef90_UPI000468CCFC
UniRef90_R6AW40
UniRef90_H1QPD5
UniRef90_E8V8R8
UniRef90_R6EEG4
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UniRef90_UPI00029A06EB
UniRef90_G0LBP9
UniRef90_UPI00037F9799
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UniRef90_W4US50
UniRef90_A9WDQ6
UniRef90_A0A023BRU2
UniRef90_D0MF66
UniRef90_Q1DAE0
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UniRef90_E8X3Q6
UniRef90_X1T4W1
UniRef90_C6WMG4
UniRef90_UPI00028A2998
UniRef90_UPI0003B3EBEB
UniRef90_H1H9T2
UniRef90_UPI00035D0AE3
UniRef90_E8V1T0
UniRef90_UPI00037DA7D2
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UniRef90_UPI00037DA7D2
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UniRef90_UPI000479C746
UniRef90_G8NSC6
UniRef90_G8UKN2
UniRef90_D7W2V3
UniRef90_C2M8Q4
UniRef90_E6XDE2
UniRef90_I4DRL8
UniRef90_T0NZC2
UniRef90_UPI00036C7CFB
UniRef90_UPI0003FD8F41
UniRef90_K5Y456
UniRef90_A5FHL1
UniRef90_A8LQ85
UniRef90_E8SES1
UniRef90_E8SES1
UniRef90_E8SES1
UniRef90_E8SES1
UniRef90_G8TK04
UniRef90_UPI0003B6D19C
UniRef90_UPI00034AFD2B
UniRef90_A1ZMZ2
UniRef90_L0G138
UniRef90_UPI000413B9EA
UniRef90_A9A0X1
UniRef90_D1W103
UniRef90_R5CV14
UniRef90_UPI0003693921
UniRef90_UPI000469851B
UniRef90_A3J4K8

The figure displays a multiple sequence alignment of protein sequences from UniRef90. The sequences are arranged in rows, and the positions are in columns. A color key indicates the type of amino acid at each position: blue for hydrophobic, red for polar, green for acidic, and yellow for basic. The UniProt ID for each sequence is listed to the left of the alignment.

50 60 70

UniRef90_F4CIM5	V L A G V P D G Q Y T L T A A G A G Y Q P V A T S V V L G G S E V V Q D V E L
UniRef90_UPI000370770B	S L K V P P A G R Y R L T I Q Y L G Y E T L L T R N V D T P G D L G E F V L
UniRef90_F4CY54	A L D G L P P G R Y V L I A H H S G H R P R A T G V R V
UniRef90_K9PR34	S F T G L P L G N Y T V E V T Q P N N F S P T T K T I L S A N L
UniRef90_R7DWZ4	E F L D L E P G Q Y T I Q I S K P G Y K T N T K R I N V
UniRef90_H2K728	L A T V P A G E Y R L A V S A E G Y A P Y R A I A L V G E N A S L G D V T L
UniRef90_Q3IFS6	R F N N I E P G H Y T I E I S Y L G A A P
UniRef90_S2YQQ6	A F T D L D S G E Y T V I A T G Y A P V A T A L T V G R G V D D H D I E L
UniRef90_I3CHM1	V F N G L A A G D Y K I Q V S
UniRef90_I3CHM1	V F N G L A A G D Y K I Q V S
UniRef90_I3CHM1	V F N G L A A G D Y K I Q V S
UniRef90_UPI00047C7D4B	Q F A N L P E G S Y T V E A R A V G F Q P H R V S V D L G A N
UniRef90_D2QPQ0	R F D S L P P T R Y T V T V T K E K Y A T E L A T V D A T V S Y V
UniRef90_G8P0T7	Q F Q Q L V P G K Y G I T V S S P P G M G K T E K I V E L
UniRef90_12KGX8	N F T N I P F G E Y T I N I S H L G F K P I S E R I K I D K D L N L H T V V L
UniRef90_D1PDZ6	S I T G L T T G R Y T I E A S Y I G Y Q P A E I L V T E G K E V V I
UniRef90_H6L1L4	N F A Q I E A G T Y D L V V T Y V G Y P T L K T L V K I G A T V E L
UniRef90_H8MR36	R F D G V P A G S V M L Q A E K Y K W S P T R L E L
UniRef90_R5GDL6	T V T G N E S K E S R L E I I S F V G H V P I S V Q I E G G K S I S L G D L Y L
UniRef90_Q022W3	T F N N L A P G T Y R V S S V H K S G L Q L G E S S I E I S P S
UniRef90_UPI000414CE34	S F T G V P P G S Y E V E V M A S G F G S D L K S V I
UniRef90_UPI000475996F	V I P N V P P V G V Y T V Q A S A P N Y K P A
UniRef90_H5SG49	S F L D L K E G T Y A V T V E L S G F K P V T Q S V S V K A
UniRef90_M3BZT7	R F T G L D D G S Y A L K L P S D N F A P
UniRef90_F4PNW1	E F K N V T E A P Y T I K V
UniRef90_S3ZKR9	A F T D L D G G E Y T V I A T G Y P P V A T G L T
UniRef90_UPI0003B6BB78	T F L K L Q S G S Y D L E V N A Q G F A Y Q A T G I M V E D T
UniRef90_Q3B3W4	R V D G L R A G T Y Q A V V E S N G G I R E S
UniRef90_UPI0003B481CD	Q F S A I P E G T Y D I V F S K A G S A G S E V L
UniRef90_UPI00046A7C55	S F D Q L T Y G K Y L I K I S V V G Y K T D T L V L D A N Q A V A L Q D I K M
UniRef90_B3T6S4	R F S G L N I D T Y I V E A S F I I G Y E S R
UniRef90_UPI0003FE019B	Y I T G F D L G T Y E L Q V S F I I G Y E T V K R S I T V N S D I N L G E I G M
UniRef90_UPI00040CA788	S F V N L P A G K V T V A I S F V G Y E T S R Q T I S L K Q D T N L
UniRef90_I3CHM3	L F D N L D A G L Y K V S I I E A P A G M S I T T P A S F N P V T L G
UniRef90_I3CHM3	L F D N L D A G L Y K V S I I E A P A G M S I T T P A S F N P V T L G
UniRef90_R5PJZ9	R I A L P S G T Y V C S V S A L G Y E K Q T L Q V R V G E
UniRef90_J3J4R1	K F E N L L P G E Y K V S V D P E T L L K A E P L L D V
UniRef90_J3J4R1	K F E N L L P G E Y K V S V D P E T L L K A E P L L D V
UniRef90_K8NL47	N F T G L E N G E Y T V K F T A P G Y T A T K V N V G D Q A L
UniRef90_K8NL47	N F T G L E N G E Y T V K F T A P G Y T A T K V N V G D Q A L
UniRef90_G2LEE3	A F E N V A G R E Y L I E A E A P G F A R T T R R V T P G E
UniRef90_L0IE27	E V H G L D S G S Y V V V V S A D E Y E T R
UniRef90_G5HA19	E V R L P R G D Y R L K I S F M G Y E N I E R Q I E L I N S D T D L G D L T M
UniRef90_F0RBL5	K I P N I K A G R Y Y L E A S F L G Y T T K T I S P V L G E R R L S L G A I Q L
UniRef90_A5FF33	Q I E N L A K G S Y T I E I S L D G Y V S S K Q T I V L E N S V N
UniRef90_Q01XC9	R I G N L P P G N Y D I S A A A N G F A K A T L
UniRef90_UPI000373FAF9	Y F D G L T T G G V Y Q L V A S P V G S G D A D
UniRef90_UPI00047C9B74	S I P N L P P A S Y R V R V E K E G F K T S T L P V E I G K T A N G S V T L
UniRef90_UPI0003B4FB18	R F T E P I G O Y T L S V S H P N Y K T P E E D G T I Q G K I Y L G
UniRef90_S9PQT6	R I E D V P P E G E Y D V V E A D G F L P R T E V V D G D E S S L D L
UniRef90_T0IU02	I L N G V R A G T Y R I S V S D P A K G S F Q R D I A V G
UniRef90_G8NWT1	Q F T L L P V G R Y S V T V K L S G F K T S T S
UniRef90_K1KZI6	Q I R N I P S G S Y T L R V T Y L G Y E T R E V L I P T N E E L E V
UniRef90_G0K4T8	N A R G L V G G P Y S I T I T K P G E G T K T E D G V Y L L G V
UniRef90_R6VPZ0	V L K N I P S G K Q T I V I S F L G M E S Q E I A Y T G Q K S I T V
UniRef90_UPI00036A432F	T C R G V P S G T H T V V V T A E H L R P T A T T V T V P E S
UniRef90_UPI00035D6C29	S F P N L A M V G T Y T L D V V A P G Y T Q S K I V L E V G S S V N V G
UniRef90_UPI00036C3814	R F D E V P P A G D H A V R I T V P G Y G P A T R D V T V G A D
UniRef90_A6WDT7	A F D Q L M G G S Y V L T A Q S E S H R P L A R G V E V P D S
UniRef90_UPI0003808277	L F S D V P L G N Y K I V V E K L Q Y S T K I I D A N I
UniRef90_UPI000382A59C	S F E N I T Y G E Y T L S A S A T G Y V A S D
UniRef90_G8HT2	E F E N L A Q G D Y F V V I V T A V G F
UniRef90_UPI0003B3E83E	R F S G I P A G E Y D V T V S Y I G A D P V T Q S I A V S
UniRef90_A3XP01	R V E V P Q G E Y N I K I E Y I S F Q P I T L K R T L N A D L N L G T I Q L
UniRef90_G4QF89	R F P L P A G T Y K L T A E K S G Y K T T T Q E N N V G
UniRef90_UPI0003650379	R I A G L D Q A D Y M I T A T A E H A R P A T R I I S P G R S
UniRef90_UPI000375B2AB	E I K D V S S G E Y L L V Y S A P G F G W R V C N V P L D N P L N L
UniRef90_G8NPD7	R A D F L P V P G Y K V T V S A S G F K T L D R
UniRef90_I3ZME4	S F Q N L S P G T Y S V T V E L T G F Q R E T R P A V D
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