

QUERY	1	10	20	30	40
UniRef90_J9DU00	L Y R	V L I L N D D Y T P M E F V V	Y V L E R F F N K S R E D A T R I M L H V		
UniRef90_A1WWV6	L Y K	V L L L N D D F T P M E F V V	Y V L Q R F F N K D I N E A T E I M L H V		
UniRef90_B2IC44	M Y K	V L L L N D D Y T P M D F V V	E V L Q R F F N K D R S Q A T Q I M L H V		
UniRef90_I3TI38	M Y K	V L L L N D D Y T P M E F V V	D V L Q R F F S K G A E E A T R I M L H V		
UniRef90_I9C8Y7	F K	V L L L N D D Y T P M E F V V	M V L K R F F H M D M E Q A T R V M L H V		
UniRef90_Q1H408	M Y K	V L L L N D D Y T P M E F V V	D V L K R F F H K N R E Q A T Q I M L Q V		
UniRef90_G4RBY8	L Y R	V L L L N D D Y T P M E F V V	E I L E E V F N K S R E D A T R I M L S V		
UniRef90_I5B0K1	M Y K	V L L L H N D D Y T T M D F V V	E I L V R V F G K S L E K A T Q I M L N I		
UniRef90_H5SGV0	L Y K	V I L L N D D F T P M D F V V	E V L M R F F G M S E D K A T Q V M L H V		
UniRef90_W7QQ12	M Y K	V I L L N D D Y T P M D F V V	D V L M K F F R M D I E K A N Q I M L T I		
UniRef90_B8KG5	L Y K	V L L L N D D Y T P M E F V V	E V F F K M N R E Q A T Q V M L T V		
UniRef90_U1MA47	Y K	V I L N N D D Y T P M D F V V	E V L A R F F N M D S D R A T E I M L K V		
UniRef90_UP100037512CA	M Y K	V I M L N D D Y T P M D F V V	E V L E R F F G K A R Q E A T A I M L E I		
UniRef90_A0Z1Z8	L F Q	V V L L N D D Y T P M E F V V	E I L E S Y F R L G R E Q A T Q I M L M V		
UniRef90_UP1000378EFE0	F Q	V V L L N D D Y T P M D F V V	E V L E G F F G M D R E K A T R I M L H V		
UniRef90_A0A031LZ41	L Y N	V V L L N D D Y T P M D F V V	E I L Q Q Y F A L N L D Q A T E V M L T V		
UniRef90_U7G5L1	M Y K	V L M L N D D Y T P M D F V V	E V L E D F F S M N R E Q A T R V M L T V		
UniRef90_A3VET3	L Y K	V L L I N D D F T P M E F V V	M V L E R F F S M N H A Q A F E I M L T V		
UniRef90_G8QKP5	M Y K	V V L L N D D F T P M D F V I L V	Q K F F P A K D R E Q A T Q I M L K V		
UniRef90_W0TMQ8	L Y K	V V L L N D D Y T P M D F V V	D V L T R Y F H M S E E K A T Q V M L H V		
UniRef90_V8ABP4	M Y K	V V L M L N D D Y T P M E F V V	H V L E R F F S K S R E E A T N I M L N V		
UniRef90_D5BV12	M Y K	V V M L N D D Y T P M E F V V	E V L Q T F F A M D R E E K A T R I M W Q V		
UniRef90_UP1000468EC78	M Y K	V L H N D D F T P M D F V V	E V L T A F F N K D Q E Q A V Q I M L A V		
UniRef90_S6BTR0	M Y K	V I L L N D D Y T P M E F V V	H V L E H F F H M D R E K A T R V M L H V		
UniRef90_A7BUX7	M Y K	V I L L N D D Y T P M D F V V	H I L E I F F G M E K D L A T H I M L Q V		
UniRef90_W3RFF4	L Y R	V L I L N D D Y T P M E F V V	H V I E R F F N K D V I E T A T K I M L H V		
UniRef90_J2IA52	M Y K	V I L H N D D Y T P M D F V V	D V L S R F F N M Q Y E R A T E I M L K V		
UniRef90_B3PL55	M Y K	V V L L N D D Y T P M D F V V	H V I E T F F S M T R E K A T H V M L T V		
UniRef90_UP10003605A5D	M Y K	V V L L N D D Y T P M E F V V	Y V L E K I F N K C Q E E A T K I M L H V		
UniRef90_A0L8H6	M Y R	V V L L N D D F T P M E F V V	E V L M H F F R K T A E Q A T Q I M L N I		
UniRef90_UP100047B741D	M Y R	V I M L N D D Y T P M E F V V	S I L M G I F K K T Q E E A T Q I M L N V		
UniRef90_UP100036EF5FE	F K	V V L L N D D F T P M D F V V	E V L Q T F F H L D H E A A T R I V M L L I		
UniRef90_G2FE61	L F R	V I L L N D D Y T P M E F V V	Q V L E S F F K M D R E K A T R V M L H V		
UniRef90_H5T8Z2	M Y K	V M L N N D D Y T P M D F V V	E I L A T F F A M D I E K A N Q I M L T I		
UniRef90_TORCE4	Y K	V L L H N D D Y T T M E F V I Y V L	E K I F G K N Q E E A Y A I M L L V		
UniRef90_UP10004228BC7	M Y K	V L L H N D D Y S P M D F V V	D V L Q R F F R L D Q E A A T E V M L N V		
UniRef90_C4K3S2	M Y K	V I N N D D Y T P M E F V V	D V L Q N F F S Y N L E Q A T A L M L K V		
UniRef90_C3X5C8	M Y R	V V L L N D D F T P M D F V I F V	V F L Q E Y F H K N A E E M A T R I V M L K V		
UniRef90_C1DBG4	M Y K	V V L L N D D F T P M D F V V	V I V L E R F F Y M G R E Q A T Q V M L K I		
UniRef90_UP10003B3CE5F	M Y K	V V L L N D D Y T P M D F V V	Q V L Q E I F H L D R E R A T S V M L Q V		
UniRef90_UP100035ED926	L Y K	V V L L N D D Y T P M D F V V	D V L M R F F R K S E L E A T R I V M L A V		
UniRef90_UP10003FEF3DF	L F K	V V L N N D D Y T P M D F V V	E V L Q Q F F N M E L D K A T Q V M L T I		
UniRef90_W0BAB6	Y K	V I L L N D D Y T P M E F V V	E V L K R F F R L N E E V A V Q I M L Q V		
UniRef90_UP1000395924D	M Y K	V V L N N D D Y T P M E F V V	V I E V L Q T F F A M D V D K A T Q V M L A V		
UniRef90_C7RC85	M Y K	V I L L N D D Y T P M D F V V	V D V L R K F F T M D T E Q A T R V M L Q V		
UniRef90_A4BDP9	L Y R	V V L L N D D Y T P M E F V V	H I L E Q F F A M N R E E K A T Q V M L A V		
UniRef90_Q1YTJ4	M F K	V V L L N D D Y T P M E F V V	E I L E K K F F S K T R E N A T R I M L K I		
UniRef90_W7WSP3	M F Q	V V L L N D D F T P M E F V V	H V I Q E Y F S K D R E T A T Q I M L K I		
UniRef90_UP1000361D612	M H	V V L L N D D F T P M E F V V	V L V Q E F F N K D R E T A T S I M L K V		
UniRef90_E3F452	L Y K	V M L L N D D Y T P M E F V V	V L V Q R F F S L D E S R S V E I M L A V		
UniRef90_E0MK39	L Y R	V L L L N D D F T P M E F V I E I L	A R F F Q M N M E Q A T Q V M L H V		
UniRef90_UP10003734B22	L Y K	V L L L N D D Y T P M E F V V A V I	E R F F N K S R E E Q A T Q I M L K V		
UniRef90_U6B5W2	L Y R	V V L L N D D Y T P M D F V V	H V I Q R F F H K D N E S A K C I M L A V		
UniRef90_F6D8L9	Y K	V V L L N D D F T P M D F V V	D L L M K F F R M D Y D K A M Q V M L A I		
UniRef90_UP10004772A4C	L Y K	V L M L N D D Y T P M E F V V L T L	Q R F F K M T I E D A T R V M L H V		
UniRef90_UP100046FF2C6	L Y V	N L D D Y T P M E F V V	T L L Q R F F S M S R E Q A I R I M L Y I		
UniRef90_M9R0Y3	L Y V	N L D D Y T P M E F V V	H V L E H F F S M S R E Q A I R I M L Y I		
UniRef90_UP10004637F9D	M Y K	V M F N D D Y T P M D F V V	E T L E I F F S M N R E E K A T Q V M I K V		
UniRef90_A6QBZ8	M Y K	V L L H N D D Y T S M D F V V	E V L T S I F H K T Q E Q A V Q I M L Q V		
UniRef90_S2KKR0	L Y K	V I L H N D D F T P M E F V V	V E V L Q T F F N M D S E K A V V Q I V M L A V		
UniRef90_A0A021W7U6	L Y S	V V L L N D D Y T P M D F V V	E V L T R F F P M N V E K A T Q I M L H V		
UniRef90_A8ZW52	L Y K	V L L H N D D Y T T M E F V V E I L	R H I F R K S L E D A T T I M L N V		
UniRef90_V8G902	Y V	V L L N D D F T P M D F V V	K I F F H K S E D E A T Q I M L E V		
UniRef90_H0JHW3	Y R	V L M N D D Y T P M E F V V	E V L K I F F H K S E D E A T Q I M L T V		
UniRef90_E6RHF9	Y K	V L N N D D Y T P M D F V V	E V L E R Y F F S M N R E E A A T Q V M L Q I		
UniRef90_Q1N4N1	L Y Q	V I M L N D D Y T P M D F V V	D V L M T F F N M D S D R A T D V M L Q I		
UniRef90_F4GPA9	M Y Q	V V L L N D D Y T P M E F V V	V A V L T R F F A M D M E K A T Q I M L A V		
UniRef90_Q0A8P0	L F K	V I I L N D D Y T P M D F V V	V V A V L Q R I F G K N E D E A A R I V M L K V		
UniRef90_E6WZH6	L Y R	V I L H N D D Y T T M E F V V	D V L Q K F F H M D R A R A T Q V M L H V		
UniRef90_C9YFK9	M Y Q	V M L N D D Y T P M E F V V V V V I	V V V Q E F F G K D L E A A T Q I M L K I		
UniRef90_G5ZXY8	L Y R	V L M L N D D Y T P M E F V V L V L	V L V Q R F F G H N H E T A Q Q I M L H V		
UniRef90_S6AFH1	L F N	V V L L N D D F T P M E F V V	E V L Q Q Y F S K T Y E Q A T E I M L K V		
UniRef90_UP1000262CBCE	M Y K	V I M L N D D Y T P M E F V I H V	E V L E L F F N M D Q E K A T Q I M L T V		
UniRef90_W5WW05	M Y K	V I I L N D D Y T P M D F V V L V L	R R F F G K T E E D A T K I M L D V		
UniRef90_UP1000476817E	M Y R	I V M L N D D F T P M E F V V H V	R M F F S I P T A R A Y D I M M T V		
UniRef90_Q82FT3	L Y K	V K I L H N D D F T P M D F V V K V L	R H F F L L M N E E M A T K V M L K I		
UniRef90_I1XKY5	Y R	V I M M N D D Y T T M E F V V Y I L	E V L E T L F D M G R E A T R T M L Q V		
UniRef90_TOSSF6	Y K	V L I H N D D Y T T M E F V V Y I L	Q K I F G K H Y E E A K A I M L R V		
UniRef90_W9T5B0	M Y K	V M F N D D Y T P M D F V V E V L	E D I F F N H S R E E Q A T R I V M L A V		
UniRef90_UP100046FE7A0	Y K	V I I L N D D F T P M E F V V E V L	Q A V F F A M N K E V A T Q V I M L K V		
UniRef90_U2E0P1	L Y Q	V M H N D D F T P M E F V V E V L	M T F F N L N R E Q S V Q I I M L T V		
UniRef90_E1VK10	M F Q	V V L M L N D D Y T P M E F V V E V L	Q R F F G M N R E E A A T Q V I M L I V		
UniRef90_A2SIM8	M Y Q	V V L L N D D Y T P M E F V V M V L	Q E F F Q R D I E T A T Q I M L K I		
UniRef90_F7RWS0	M Y Q	V M L N N D D Y T P M D F V I E V L	V K I F G K H Y E E A K A I M L Q V		
UniRef90_M1WNG7	Y K	V L L H N D D Y T T M D F V V E V L	V R V F K K N E D Q A T A I M L S V		
UniRef90_A6FC31	F Y K	V F L N N D D Y T P M D F V V D V L	Q R F F S M D I D K A N Q I M L T V		
UniRef90_UP1000475D221	M Y R	V V L M N D D Y T P M D F V V E V L	M G F F A M N Q E K A T Q V I M L A V		
UniRef90_UP1000366D915	L Y Q	V V M L N D D F T P M E F V V L V I	Q Q Y F S K D F E T A T Q I M L K V		
UniRef90_C8X2K8	Y K	V L L H N D D Y T T M E F V V Q V L	M D I F N K S E A E A T Q I M L N V		
UniRef90_S7VE35	M Y R	V V L L H N D D Y T T M E F V V E I L	M Y V F N K T V E A A T K I M L N V		
UniRef90_UP1000466B68C	Y K	V M L H N D D Y T T M E F V I E V L	Q R F F F G H D E T N A I K I M L E I		

The figure displays a sequence logo for three positions (50, 60, 70) across a large dataset of UniRef90 entries. The x-axis represents the amino acid positions, and the y-axis lists UniRef90 entries. The color scheme indicates conservation: yellow for high conservation, red for intermediate, and blue for low.

- Position 50:** The most conserved amino acid is Cysteine (C), followed by Glutamic Acid (E) and Aspartic Acid (D).
- Position 60:** The most conserved amino acid is Alanine (A), followed by Valine (V) and Isoleucine (I).
- Position 70:** The most conserved amino acid is Histidine (H), followed by Proline (P) and Tyrosine (Y).

UniRef90 entries are listed on the left side of the logo, including:

- UniRef90_J9DU00
- UniRef90_A1WWV6
- UniRef90_B2IC44
- UniRef90_I3T138
- UniRef90_I9C8Y7
- UniRef90_Q1H408
- UniRef90_G4RBY8
- UniRef90_I5B0K1
- UniRef90_H5SGV0
- UniRef90_W7QQ12
- UniRef90_B8KG5
- UniRef90_U1MA47
- UniRef90_UP100037512CA
- UniRef90_A0Z128
- UniRef90_UP1000378EFE0
- UniRef90_A0A031LZ41
- UniRef90_U7G5L1
- UniRef90_A3VET3
- UniRef90_G8QKP5
- UniRef90_W0TMQ8
- UniRef90_V8ABP4
- UniRef90_D5BV12
- UniRef90_UP1000468EC78
- UniRef90_S6BTR0
- UniRef90_A7BUX7
- UniRef90_W3RFF4
- UniRef90_J2IA52
- UniRef90_B3PL55
- UniRef90_UP10003605A5D
- UniRef90_A0L8H6
- UniRef90_UP100047B741D
- UniRef90_UP100036EF5F
- UniRef90_G2FE61
- UniRef90_H5T8Z2
- UniRef90_T0RCE4
- UniRef90_UP10004228BC7
- UniRef90_C4K3S2
- UniRef90_C3X5C8
- UniRef90_C1DBG4
- UniRef90_UP10003B3CE5F
- UniRef90_UP100035ED926
- UniRef90_UP10003FEF3DF
- UniRef90_W0BAB6
- UniRef90_UP1000395924D
- UniRef90_C7RC85
- UniRef90_A4BDP9
- UniRef90_Q1YTJ4
- UniRef90_W7WSP3
- UniRef90_UP1000361D612
- UniRef90_E3F452
- UniRef90_E0MK39
- UniRef90_UP10003734B22
- UniRef90_U6B5W2
- UniRef90_F6D8L9
- UniRef90_UP10004772A4C
- UniRef90_UP100046FF2C6
- UniRef90_M9R0Y3
- UniRef90_UP10004637F9D
- UniRef90_A6QBZ8
- UniRef90_S2KKR0
- UniRef90_A0A021W7U6
- UniRef90_A8ZW52
- UniRef90_V8G902
- UniRef90_H0JHW3
- UniRef90_E6RHF9
- UniRef90_Q1N4N1
- UniRef90_F4GPA9
- UniRef90_Q0A8P0
- UniRef90_E6WZH6
- UniRef90_C9YFK9
- UniRef90_G5ZXY8
- UniRef90_S6AFH1
- UniRef90_UP1000262CBCE
- UniRef90_W5WW05
- UniRef90_UP1000476817E
- UniRef90_Q82TY3
- UniRef90_I1XKY5
- UniRef90_TOSSF6
- UniRef90_W9T5B0
- UniRef90_UP100046FE7A0
- UniRef90_U2E0P1
- UniRef90_E1VK10
- UniRef90_A2SIM8
- UniRef90_F7RWS0
- UniRef90_M1WNG7
- UniRef90_A6FC31
- UniRef90_UP1000475D221
- UniRef90_UP1000366D915
- UniRef90_C8X2K8
- UniRef90_S7VE35
- UniRef90_UP1000462D220

QUERY
UniRef90_J9DU00
UniRef90_A1WWV6
UniRef90_B2IC44
UniRef90_I3TI38
UniRef90_I9C8Y7
UniRef90_Q1H408
UniRef90_G4RBY8
UniRef90_I5B0K1
UniRef90_H5SGV0
UniRef90_W7QQ12
UniRef90_B8KGE5
UniRef90_U1MA47
UniRef90UPI00037512CA
UniRef90_A0Z1Z8
UniRef90UPI000378EFE0
UniRef90_A0A031LZ41
UniRef90_U7G5L1
UniRef90_A3VET3
UniRef90_G8QKP5
UniRef90_W0TMQ8
UniRef90_V8ABP4
UniRef90_D5BV12
UniRef90UPI000468EC78
UniRef90_S6BTR0
UniRef90_A7BUX7
UniRef90_W3RFF4
UniRef90_J2IA52
UniRef90_B3PL55
UniRef90UPI0003605A5D
UniRef90_A0L8H6
UniRef90UPI00047B741D
UniRef90UPI00036EF5FE
UniRef90_G2FE61
UniRef90_H5T8Z2
UniRef90_T0RCE4
UniRef90UPI0004228BC7
UniRef90_C4K3S2
UniRef90_C3X5C8
UniRef90_C1DBG4
UniRef90UPI0003B3CE5F
UniRef90UPI00035ED926
UniRef90UPI0003FEF3DF
UniRef90_W0BAB6
UniRef90UPI000395924D
UniRef90_C7RC85
UniRef90_A4BDP9
UniRef90_Q1YTJ4
UniRef90_W7WSP3
UniRef90UPI000361D612
UniRef90_E3F452
UniRef90_E0MK39
UniRef90UPI0003734B22
UniRef90_U6B5W2
UniRef90_F6D8L9
UniRef90UPI0004772A4C
UniRef90UPI00046FF2C6
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UniRef90_H0JHW3
UniRef90_E6RHF9
UniRef90_Q1N4N1
UniRef90_F4GPA9
UniRef90_Q0A8P0
UniRef90_E6WZH6
UniRef90_C9YFK9
UniRef90_G5ZXY8
UniRef90_S6AFH1
UniRef90UPI000262CBCE
UniRef90_W5WW05
UniRef90UPI000476817E
UniRef90_Q82TY3
UniRef90_I1XKY5
UniRef90_TOSSF6
UniRef90_W9T5B0
UniRef90UPI00046FE7A0
UniRef90_U2E0P1
UniRef90_E1VK10
UniRef90_A2SIM8
UniRef90_F7RWS0
UniRef90_M1WNG7
UniRef90_A6FC31
UniRef90UPI000475D221
UniRef90UPI000366D915
UniRef90_C8X2K8
UniRef90_S7VE35
UniRef90UPI000466B68C

	1	10	20	30	40
UniRef90_E5YBI3	M Y Q V L L H N D D Y T T M E F V V N I L M T V F H K T A D Q A T N I M L A V H				
UniRef90_T0DSP2	Y H V I L H N D D Y T T M E F V I W V L M H I F N R G Q E E A M K I M L D V H				
UniRef90_J1K9Y8	L Y R I L L L N N D D Y T T P M D F V V F V L K K F F K K S F E E A T H M L N V H				
UniRef90_UPI0003B4D67F	M Y K V V M L H N N D D Y T T P M D F V V F V L Q T F F H H T R E Q A V Q M L Q V H				
UniRef90_UPI0003809E92	L F K V L M H N N D D Y T T P M D F V V F V L Q A V F H L S D S A A E R I M L A I H				
UniRef90_M1S7S2	M Y K V V L L N N D D Y T T P M D F V V F V L Q K F F S Y N V D R A T Q I M L D V H				
UniRef90_E8UAW0	Y T V L L L N N D D Y T T P M D F V V F V L E H H F G R D E P D A T R I M L A V H				
UniRef90_V5GBG0	L Y K V I L L L N N D D F T T P M A F V I D I L M H F F A M P E D L A T R V M L Q V H				
UniRef90_A9F361	Y K V V F H N N D D Y T T M E F V V L M K F F H R T E T E A T H M L S V H				
UniRef90_UPI000476E6FB	L Y R V L L L N N D D Y T T P M D F V I V L Q R F F A L L D R E R A T R V M L Q V H				
UniRef90_D0L1L0	M Y Q V I L L N N D D F T T P M D F V I R I L V E L F Y L S T E Q A E R V M L E V H				
UniRef90_UPI00046F3F7D	M Y K V V L L N N D D Y T T P M D F V V E V L Q A F F G M D S E Q A V Q V M L T V H				
UniRef90_Q72BN4	M Y R V L L H N N D D Y T T M E F V V S I L V E V F R K T A E Q A T A I M L A V H				
UniRef90_UPI000476F59B	M Y K V V L L L N N D D F T T P M D F V V E V L Q H F F H H M N A E K A T L V M L Q V H				
UniRef90_UPI0003B63C9B	Y Q V V M L N N D D Y T T P M E F V V E V L E R F F G L S G A D A T R V M L Q V H				
UniRef90_I4Z5L2	Y K V V L L N N D D F T T P M E F V I F I L Q H F F H H L N D E S T R I M L K V H				
UniRef90_UPI0002F51875	M Y H V I L L N N D D Y T T P M D F V I E I L E R F F G M D A D K A T Q T M L Q V H				
UniRef90_UPI00046F3C54	M F K V V L L N N D D Y T T P M D F V I E V L Q R Y F N M N E A H A T E T T M L A I H				
UniRef90_A5G2E8	L Y R V M M F N D D Y T T P M E F V V A T L V G L F G K T T D E A G R I A L R I H				
UniRef90_T2GFS9	Y K V V L L L N N D D Y T T T M E F V R I L R E V F V K K S E A E A T R I M R M V H				
UniRef90_C6XH92	L Y R V L L V N D D Y T T P M E F V I H V L Q N F F Y K D H E T A K C I M L K V H				
UniRef90_Q3A2A7	L F R V L M H N N D D Y T T T M E F V V E V L Q G V F H K S A A E A H R I M L N V H				
UniRef90_G2LKM0	M F R V L L H N N D D Y T T T M P F V V Y V L Q H I F H H S E S E A T R I M L N V H				
UniRef90_G8LUC5	M Y K V I L L N N D D Y T T T M D F V V E V L M I V F H K S A T D A T Q L M L D V H				
UniRef90_F8GFV0	M Y K I L L L N N D D F T T P M E F V I E V L K L F F S M N Q E Q A T R T M L E V H				
UniRef90_Q480C4	Y Y V F L L N N D D Y T T P M D F V V D V L C N F F N K S E E Q A T D I M L T I H				
UniRef90_T0Z3W1	M F Q V V L L N N D D Y T T P M E F V V E V L R V F G M Q Q E R A V Q V M L H V H				
UniRef90_Q1MQQ6	M Y Q V V L L H N N D Y T T T M E F V V S I L V E V L M K I F R K T M E Q A T S I M L S V H				
UniRef90_A5EV84	L F E V V L L N N D D Y T T P M D F V I E V L C R F F Y Q T A E V A E K L M L K V H				
UniRef90_UPI00047742AF	M Y R V V L L N N D D Y T T P M D Y V I V V L Q H F F A M D R E Q A T V V T L K V H				
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UniRef90_UPI0003715318	Y Q V V L L N N D D Y T T P M D F V V D V L Q R F F G L D D E Q K A G M I M L A V H				
UniRef90_UPI0003455D24	M Y K V V L H N N D D Y T T P M D F V V E V L Q T F F H H L D S E A A I E V M L A V H				
UniRef90_UPI0003F8847E	V F L L N N D D Y T T P M D F V D V L T D I F L M P Q Q A V A V M L A V H				
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UniRef90_S7VHV0	Y K V V L L H N N D D Y T T T M E F V V K V L K E V F H K T E A E A T R I M L N V H				
UniRef90_C8PIY9	Y K V V L L N N D D V T T M D F V V Y I L M E I F H M P H D K A E K T M L M K V H				
UniRef90_F5S560	Y A V F L L N H D Y T P M D F V V E I L M D I F H M P H D K A E K T M L Q I H				
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UniRef90_Q08XV1	L Y K V V L H N N D Y T T T R E F V V A V L K E I F H K S E G D A V Q Q I M L A V H				
UniRef90_K6GJH2	M Y Q V V L L N N D D F T T P M E F V V Y I L Q S I F G Y E H E R S T Q I M L A V H				
UniRef90_V4NMY0	L Y R V V L I L N N D D Y T T P M E F V V Y V L E R F F N K S R E E A T R I M L H V H				
UniRef90_Q2LQK8	M Y R V I L H N D H Y T T T M D F V V Q I L M T I F H K P A A Q A T R I M L D V H				
UniRef90_M1P5W4	L Y K V V L L H N N D D Y T T T S M E F V V A V L E R V F R K N T S E A S K I M M N V H				
UniRef90_G1UPG0	Y R V V L L N N D D Y T T S M D F F V I N L C G V F H K P L I E E A T A I M L A V H				
UniRef90_B6BMD4	Y K V V F L L N N D D Y T T S M D F F V I D I L T I F H K S Y S Q A E S I M L D H H				
UniRef90_T0YUG4	L F D V V L L N N D D Y T T P M E F V V D V L G R V F G L E Q E A A V R V M L Q V H				
UniRef90_T0RVZ2	Y R V V L H N N D D Y T T T M E F V V Y I L K S V F S K T T G E A Q E I M L K V H				
UniRef90_A8EW20	Y N V F L L N N D D Y S T T M D F V V I D V L V K I F R K S T Q D A T E I M L N I V H				
UniRef90_J5K8J2	Y Q V V L I N N D D F T T P M E F V V F V L Q T V F G H T H Q K S T E I M M T V H				
UniRef90_K2A329	M Y Y V F M L N N D D Y T T T M D F V V H V L Q K F F H K T F A E A N R I M L N V H				
UniRef90_V4JBI5	F K V V L L H N N D Y T T T M E F V V V S I L E N I F Q K T K H E A T R I M L N V H				
UniRef90_C6Q0C7	M Y K V I I Y N N D D Y T T T M E F V V K I L E I F K K S V V E A T K I M Y D V H				
UniRef90_G4CJ03	Y G V F L I N N D D Y T T P M D F V V G I L Q D I F R L P E E R A V A V M L Q V H				
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UniRef90_G7QE23	Y K V V L L H N N D D Y T T T M E F V V V Q V L V G V F H K N E N E A T Q I M L N V H				
UniRef90_E6W3W7	Y M V V L L N N D D F S T T W D F V V E V L V R V F R K T R D D A D K I T Y H V H				
UniRef90_E4U235	Y N V F L L N N D D Y T S M D F V V D I L M K L F R K N F H D A H R I M I E V H				
UniRef90_L1NW89	Y G V F L I N N D D Y T T T M D F V V K I L T E V F M L P E E R A V A V M L L V H				
UniRef90_E7NWC4	F Y R V V L L N N D D I T T T M D F V V I S I L E V F H K N Y K E A E I I M L T I H				
UniRef90_C5EYX6	Y K V V I L L N N D D Y T T Q D F V V E V L Q K V F H K D F E A S L N L M L Q V H				
UniRef90_F5SS35	M Y A V V M Y N N D D Y T T P M E F V V Y I L Q S E F R H D T T S A V E V I M L N I H				
UniRef90_F5YPX8	F R V V I L N D H F T T T M E F V V E I L M G I F H K S V I E E A N R L M L E I H				
UniRef90_C7LNU7	F K V V L L H N N D D Y T T S M D F V V M N V F G K S E S E S F A I M M S V H				
UniRef90_L0RCJ5	F R V V L L N N D D Y T T S M E F V V I A V L I Q V F R K T E E S T E I M L K V H				
UniRef90_S5ZRL0	Y K I I I L I N N D D Y T T P M D F V V A I L I E L F N K S P E E A E I L M M K V H				
UniRef90_G2DUY5	Y G V F L L N N D D Y T T T M D F V V G V L T E I F L L A E E K A H A I V M L L V H				
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UniRef90_UPI00037A6F24	Y K V V L L H N N D Y T T T M E F V V V F V L E T V F R K S L M Q A T Q I M I H V H				
UniRef90_F8EXY0	Y Q V V L L N N D D Y T T T M D F V V V A V L I M V F H K D E M E A Q R I M L D V H				
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UniRef90_UPI0001E2CCCA	M Y K V I L L V N N D D Y T T T M E F V V I E V L I A V F H K N P T D A T Q I M L D V H				
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UniRef90_R5VDB2	Y K V V I L H N N D D F T T T M D F V V V K V L K V F F K S Q E E A E A L M L K V H				
UniRef90_F2JWE2	M Y Q V V L L N N D D Y T T P M D F V V F V L Q R F F N M D G E K A E E Q V M L E V H				
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	50	60	70	
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UniRef90_E8UAW0	Y Q G K G I C G V F T A E E I	A E E M K T T L V N T Y A K D N D H P L	L C T L E K	
UniRef90_V5GBG0	H Q G R G V A G V Y T K D V	V A E T K V A Q V N S F A R K N H H P L	L C T V M E K	
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UniRef90_UPI000476E6FB	H E G K G T G G V F P H D I	A A T K V I E Q V S N Y Y A R Q H Q H P L	A C V M E E E	
UniRef90_D0L1L0	H K G R G V C G I F T R E I	A E T R V A Q V N Q V A R Q N D H P L	L C V M E P	
UniRef90_UPI00046F3F7D	T Q G G K A T C G V F T R D V	A E T K V A H L V N E H S R Q S Q Q P L	L C D I D R	
UniRef90_Q72BN4	R D G V G E C G V Y T F E V	A E T K V A A I V H A R A R R E G Y P L	R C S T E E	
UniRef90_UPI000476F59B	N E G K G L C G I Y T K D I	A A T K V I E Q V S Q H A Q T H Q H P L	Q C V M E E N	
UniRef90_UPI0003B63C9B	H Q G K A G I G S Y S R D V	A E T K V A A M V V E Y A R Q N E H P L	L C Q A E P	
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UniRef90_UPI00046F3C54	H Q G K A V C G V F A F G I	A E T K V I E V N Q F A R Q N Q H P L	L C T L E K D	
UniRef90_A5G2E8	R R G V G V C G I F T Y E E I	A E T K V I M I Q V L E L A R E N Q H P L	Q C M I E P	
UniRef90_T2GFS9	E L G K G V C G V Y P A E E I	A E T K V S V V H A R A R S E G F P L	R C T M E E	
UniRef90_C6XH92	H Q G G C E C G V Y A Y E E I	A E E M K V N Q V M M N Y S R Q H Q Y P L	Q C I M E Q	
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UniRef90_G8LUC5	Q K G K G V V G T Y T Y D D	A S T K I A Q V E Q M A S E R G F P L	A A V M E P E	
UniRef90_F8GFV0	M E G V G V C G I Y S S D D I	A S T K V M Q V T E F A R K N Q H P L	R C I M E E N	
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UniRef90_T0Z3W1	H R G K G V C G V F T R E V	A E T K V V N Q V N E Y A Q A H Q H P L	L C D M E K	
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UniRef90_UPI00046A04DB	N S G S G L C G V Y T N E E I	A E T K V A Q V L N S A K K N F P L	R A V M E E E	
UniRef90_A6DEF6	R E G S A V V V G I Y P Y E E I	A L M K V D K V H Q L A R S A G Y P L	R A R I E E D	
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UniRef90_UPI0003F8847E	H Q G K G L C C G I Y S R D V	A E T K V Q R Q V M Q L A A A G H P L	L C T L E E	
UniRef90_S6GLF8	T K G K G D C C G T F T R D V	A D T K V A S Q V N Q F A R D N K H P L	L C E V E	
UniRef90_UPI000365DDE9	H E G K A V C C G V F S R D I	A M S K V K L V R D Y A R Q H E Y H P L	R C S C E P	
UniRef90_A0A031GR79	R Y G K G V C C G V F S K D I	A C T K V E F V L T H A R K A G H P L	Q C V M E E	
UniRef90_S7VHV0	N S G K G V C C G V Y T V E V	A E T K V T M V H N L A R Q A G Y P L	R S S M E E	
UniRef90_C8PIY9	K Q G R A V C C G A Y P K E I	A E C K Q Q A V L Q A A K A G F P L	R C I E E D	
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UniRef90_K6GJH2	T K G K G V C C G I F P K E I	A E E M K S H E I N E M A K A H E H P L	I S E I E P	
UniRef90_V4NMY0	Q T G V G V C C G V Y T Y E E V	A E T K V A H V V D M A R R		
UniRef90_Q2LQK8	R K G Q G V C C G V Y T Y D I	A S T K V A Q V H F M A R Q N E Y H P L	R C S M D E	
UniRef90_M1P5W4	Q E G V G L A G V Y T E E I	C T K V V I H D L A R K N E F P L	R C S I E K	
UniRef90_G1UPG0	Q Q G V G Q C C G I Y T R E V	V A E A K V S R V H R E A H G A G F P L	R C T M E K	
UniRef90_B6BMD4	K K E R G L C C G V Y T H E E I	A E T K V M Q V R R K A K D N G F P L	K A M M E E E	
UniRef90_T0YUG4	T E G R G L C C G T Y P R D I	A A T R V A R V V T L J A R A A Q H P L	Q C I M E E	
UniRef90_T0RVZ2	N E G R G Q C C G V Y T H E E V	V A E S K V M K R V S L E A K Q N H P L	L C T I E P E	
UniRef90_A8EW20	N N G K G L C C G V Y T H E E I	A L T K V M Q V K T M A R E K G F P L	K A V M E E E	
UniRef90_J5K8J2	T K G R G V C C G I Y T V E V	A E M M S Y E V N T M A K D H G H P L	L S E I E P	
UniRef90_K2A329	H K G R G D C C G V F P Y D I	A T T K V I A Q V H D Y A R K N E M P L	K C I M E K	
UniRef90_V4JBI5	N D G V G I A G I Y T R E I	C E T K V I T V H E L A R K N Q F P L	R C S M E Q E	
UniRef90_C6Q0C7	R S G I G I A G I Y Y S Y D I	A A T K V T Q A M S A S R E S G F P L	K F S I E E E	
UniRef90_G4CJ03	H E G K G L C C G I Y Y Q K D I	A E T K V S H Q V H S R A K Q A G H P L	L S T V E E	
UniRef90_UPI00037F525F	H K G H G V A G V Y T R E V	V A E T K V A Q V T A H A R Q E G F P L	M L V I A E P E	
UniRef90_G7QE23	N N G V G V C C G E F T A E V	A A E L K V S L V H R L A K E N G Y P L	K C S M E E	
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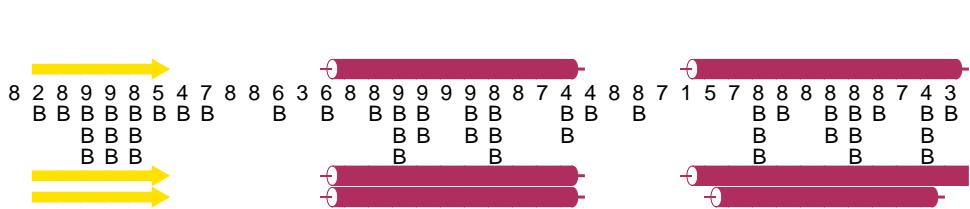
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UniRef90_H3ERL7	Y R V L L I D D V Q H T E K L V A K V L Q A V P S V T P D G A R E L F H K S R D
UniRef90_UPI0002C32BC1	F C I V L L W N D D K H S F D E V I N L C D P P N R D W E E A S A L A E R I D
UniRef90_M2PX98	Y Q T I L Y N D E T H T Y D S V I R A L N L S I H C N E Q Q A M L L A T I V D
UniRef90_F1LA35	



lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm

The figure displays a sequence logo for a protein sequence, likely a G-protein coupled receptor (GPCR) based on the presence of multiple transmembrane helices (T). The sequence is aligned along the top, with positions numbered 50, 60, and 70. Below the sequence, a vertical stack of colored bars indicates the frequency of each amino acid (A, C, D, E, F, G, H, I, K, L, M, N, P, Q, R, S, T, V, W, Y) at each position. The colors represent the amino acids: A (green), C (red), D (blue), E (orange), F (purple), G (yellow), H (pink), I (light blue), K (dark blue), L (light green), M (brown), N (light orange), P (light pink), Q (light blue), R (dark orange), S (light green), T (light blue), V (light green), W (light purple), and Y (light orange). The sequence itself is composed of various amino acids, with several positions highlighted in yellow, indicating they are conserved across the different homologs.

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
ipssm

UniRef90_M0SEH3
UniRef90_M5FZ70
UniRef90_V4ARY1
UniRef90_N6TMT9
UniRef90_H2CD01
UniRef90_B6S340
UniRef90_E1ZLB1
UniRef90_G0PCP7
UniRef90_C5LR49
UniRef90_M2WV12
UniRef90_UPI0003D0928D
UniRef90_S0EY25
UniRef90_L8WVL3
UniRef90_A0A044RYI3
UniRef90_X6H1Q0
UniRef90_Q4RM05
UniRef90_H5WZR5
UniRef90_R9P5V5
UniRef90_W5KLF0
UniRef90_B3RZ22
UniRef90_L1JVM6
UniRef90_W5JLH2
UniRef90_UPI00037648FE
UniRef90_F1RAL7
UniRef90_A0A034VDG1
UniRef90_B7FSL9
UniRef90_A0A015JFP0
UniRef90_S4RFI8
UniRef90_UPI000258DDFC
UniRef90_W7U0V5
UniRef90_UPI0004409905
UniRef90_E2M618
UniRef90_UPI00037246C1
UniRef90_A0A026VTD2
UniRef90_I4C6U3
UniRef90_UPI0002A4C6C2
UniRef90_S8E3C4
UniRef90_T1FY98
UniRef90_E4XBA8
UniRef90_D8PEB9
UniRef90_W5X8Q7
UniRef90_UPI000455EA19
UniRef90_D8QK98
UniRef90_K6UYB7
UniRef90_W1PNX1
UniRef90_T1P8G8
UniRef90_UPI0003D71282
UniRef90_F6ZG62
UniRef90_E6ZLY0
UniRef90_L7LTH7
UniRef90_H3ERL7
UniRef90_UPI0002C32BC1
UniRef90_M2PX98
UniRef90_F1LA35

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