

1 10 20 30 40

QUERY	UniRef90_UPI0003AEA621	UniRef90_K7F9P4	UniRef90_Q9CPQ1	UniRef90_UPI0003EBEB1F	UniRef90_UPI0003332D6B	UniRef90_UPI00038BD60A	UniRef90_G1PXZ6	UniRef90_UPI0003F0A0D1	UniRef90_F7HIG2	UniRef90_UPI0002C561F3	UniRef90_M3XLC3	UniRef90_UPI000462740B	UniRef90_H0XZA0	UniRef90_UPI00038BFD68	UniRef90_UPI00042AA21E	UniRef90_UPI000333C0B1	UniRef90_Q7YRK0	UniRef90_L5JP10	UniRef90_G7MWL5	UniRef90_UPI0003ACB43D	UniRef90_L8HXW9	UniRef90_W5MLA7	UniRef90_UPI0002BD04ED	UniRef90_P11950	UniRef90_UPI0003D072C7	UniRef90_G3VWL7	UniRef90_G1L0U0	UniRef90_UPI0003AFE2EF	UniRef90_UPI00046BB92B	UniRef90_UPI00042AA2BF	UniRef90_M4AY51	UniRef90_I3JCW1	UniRef90_J9JPL7	UniRef90_C3YQV6	UniRef90_U3JTA3	UniRef90_Q6ZM23	UniRef90_C3KI48	UniRef90_Q1HQE0	UniRef90_UPI0003EE2C81	UniRef90_H0YB2	UniRef90_Q4PM34	UniRef90_UPI0001D5401A	UniRef90_H9JXB0	UniRef90_UPI0003337DF0	UniRef90_D2GX12	UniRef90_U5EI08	UniRef90_D6WXQ4	UniRef90_U4UF63	UniRef90_D6X508	UniRef90_UPI0003C1180C	UniRef90_A6YPK4	UniRef90_E9GAX6	UniRef90_UPI0000587B5E	UniRef90_D7NY84	UniRef90_N6TR90	UniRef90_A0A026WKM1	UniRef90_T1R91	UniRef90_A8ST42	UniRef90_K4FS07	UniRef90_UPI0003C3A5F2	UniRef90_G3MSE9	UniRef90_T1H9S6	UniRef90_B4G6R0	UniRef90_UPI000344924	UniRef90_D2HQY9	UniRef90_G6CJ15	UniRef90_UPI000359DCC4	UniRef90_R4WIE5	UniRef90_N6TZT3	UniRef90_G3HL96	UniRef90_UPI0004418A7B	UniRef90_H9KU98	UniRef90_E2AXV3	UniRef90_UPI00021A86AC	UniRef90_UPI000333A899	UniRef90_B4Q430	UniRef90_T1G550	UniRef90_W4WZ11	UniRef90_K7JL23	UniRef90_UPI0003BBD7EA	UniRef90_UPI000258E01	UniRef90_UPI0003C377E2	UniRef90_C1BU74	UniRef90_UPI00033368AC	UniRef90_D2HD65	UniRef90_V5HYH1	UniRef90_B4MV17	UniRef90_UPI0003340F3F	UniRef90_UPI0002A4BEB0	UniRef90_UPI0003AF84F5	UniRef90_E2BS62
S T A L	A K P Q M R G	L L A R R L	R F H I V G A F M V S	L G F A T T F Y K F A	V A																																																																																						
A S S L	T K P Q M R G	G L L A K H L	R F H I V E A F I V S L R V A T L Y K F A	V V T																																																																																							
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UniRef90_UPI0001D5401A	S S L V M K	P Q M R S	G L L L Q F H I V G A F V E Y L G V A A L Y K F D V A																																																																																								
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UniRef90_UPI0003337DF0	P S A L T	T E P Q R R G	G L L L L A R H L C V H T G A F T M S L G A A A V Y A F T V T																																																																																								
UniRef90_D2GX12	S S V L T	T K P P M Q G	G L L P V K C L R F H F V G A F A V F L E V A A F Y K F A V A																																																																																								
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UniRef90_D6WXQ4	S K A A K P Q L R G	L L H S Q I K R N L L I V A I G M C V I T A A V A Q K I F V N N																																																																																									
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UniRef90_UPI0003C1180C	S N I L L R K P V M R G F	L L A R R L R F H L S M A F M V S L A S A S F I K F T I V																																																																																									
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UniRef90_UPI0000587B5E	A A L P R P K M R G	L L H S S F I T R H F I L G S V L S L A G A G L V K V F L Y																																																																																									
UniRef90_D7NY84	M R G	L L X K R L R F H I V G A V I V S L T V A A S Y K F G V A																																																																																									
UniRef90_N6TR90	T K P L P R P Q L R G	L L I S V A I L T T A A V L M K F V H N																																																																																									
UniRef90_A0A026WKM1	S A L P K P Q L R G	L L H A A Q I K K N L V G M F A I S T T V A L A Y K I F V K																																																																																									
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UniRef90_A8ST42	T E T P L R G	L L L K S Q L Q R Q F V Y G L I F T L S I T A L W K F G V M																																																																																									
UniRef90_K4FS07	S S V I V K P V M R G	L L R H V V A F A V S F S A A A F L K Y A V V T																																																																																									
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UniRef90_G3MSE9	S E L A R P Q F H G	L L L K S Y I R K H I A I C L T L G V I G G A A W R Y L Y A																																																																																									
UniRef90_T1H9S6	K P K L R G	L L H D K I K T N I A I A L A L T V T G G L L F K I F V G																																																																																									
UniRef90_B4G6R0	P V L R G	L L H N A T I K R N I L A V S L G L T A I T V A Y K V L I N																																																																																									
UniRef90_UPI000344924	M G G	L L L A K H R F H I A G T F P R G C S F L E V F C G																																																																																									
UniRef90_D2HQY9	H I	V G M F A V V S L G V T A F N K F G V A																																																																																									
UniRef90_G6CJ15	M R G	L L L N S A I K R N L I L S L S F A A V C G F A F K Q L V G																																																																																									
UniRef90_UPI000359DCC4	K P V L R N L	L L L S K T K R D F V I A L T V S I A V A M S Y K F G V Q																																																																																									
UniRef90_R4WIE5	L S K P Q L R G	L L L H S A I R K N V I V G M V L A A I S G V A F Q Y T V C																																																																																									
UniRef90_N6TZT3	K I P K P Q M H G	L L L A Q S R I T K W L I S S L I N A A L G G L A F Q I F Y I I																																																																																									
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UniRef90_E2AXV3	S A Q L	A K P K L R A L	G L L Y A A Q L K N R N I I A S I T A G V I I A G L F K V F V C																																																																																								
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UniRef90_B4MV17		K F G V A																																																																																									
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UniRef90_UPI0002A4BEB0																																																																																											
UniRef90_UPI0003AF84F5	S S F L M K P Q M C G I	L L A K H L Q F H I V V R A V I V L L G V A T F Y K F A L V																																																																																									
UniRef90_E2BS62	S T A A K P Q L H G	L L T S Q I K K N L I G M T I A S I S T A I A Y K I L V C																																																																																									

QUERY	50	60	70
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UniRef90_UPI0003EBEB1F	E P R K K A Y A D F Y R N H D S M K D F E E M R K A D I		F Q S T K
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UniRef90_UPI00038BD60A	E P R K K A Y A D F Y R N Y D S M E D F E E M R R A G I		F Q S A K
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UniRef90_UPI000462740B	E P R K K A Y A D F Y R N Y D A M K D F E Q M R D A G I		F Q S V
UniRef90_H0XZA0	E P R K K A Y A D F Y R N Y D S I K D F E E M R K A G V		F R
UniRef90_UPI00038BFD68	E S R K K A Y A D F Y R N Y D S M K D F E E M R R A G I		F R G A K
UniRef90_UPI00042AA21E	E P R K K A Y A N F Y R N Y N S M E D F E E M R K A G I		F
UniRef90_UPI000333C0B1	E P R K K V Y A D F Y R N Y D S R K D F E E M R K A V I		F Q S A K
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UniRef90_UPI0003ACB43D	E P R K K A Y A D F Y R N Y D S V K D F E E M R K A G		
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UniRef90_W5MLA7	D P R K K A Y A D F Y K R Y D A M K E F E A M R E A G V		F F E S V R
UniRef90_UPI0002BD04ED	E P R K K A Y A D F Y R N C G S M K N F E E A M R K A G I		F Q S A K
UniRef90_P11950	K P R K K A Y A D F Y R N H D P M K D F E E M R K A G V		F R S V K
UniRef90_UPI0003D072C7	E P R K R A Y T E Y Y K N H D P V A S F E A L R E A G V		F F E S V R
UniRef90_G3VWL7	E P R K K A Y Q D F Y K K Y D A V K D F Q E M Y Q A G V		F Q
UniRef90_G1L0U0	E P R K K A Y A D F Y R N H D S M K D F S E C K		
UniRef90_UPI0003AFAE2EF	E P R K K A Y A Y F Y R N Y D S I K D F E E M R K A S M F		Q S A K
UniRef90_UPI00046BB92B	E P R K E A Y A D F Y R S Y D S M Q D F E E M R K A G I		I F Q S A K
UniRef90_UPI00042AA2BF	E P R K N Y D S M K D F E E M R K A G I		F Q S A K
UniRef90_M4AY51	E P R K K A Y A N F Y K H D A V K E F K A M R E A G I		F E S V R
UniRef90_I3JCW1	E P R K K A Y A D F Y K Q Y D A V K E F N A M R E A G I		F E S V Q
UniRef90_J9JPL7	E P R K K A Y A E F Y K N Y D A E K D F E R M R K L G L		F S S C
UniRef90_C3YQV6	D P R K R H Y E E F Y K N Y D V K K E F E A M K E A G I		F H S A R
UniRef90_U3JTA3	E P R K K A Y A A F Y R N Y D P V K D F E E A M K A A G V		V L E S A
UniRef90_Q6ZM23	D P R K K A Y A D F Y T Q Y D S T K E F N A M R E A G I		F F E S A R
UniRef90_C3KI48	E P R K Q A Y A E F Y K T Y D A A K D F N A M K E A G V		F F E S V Q
UniRef90_Q1HQEO	E P K K Q A Y A D F Y K T Y D A N K H F E R M K D A G L		L Q S V K
UniRef90_UPI0003EE2C81	E P T K K Q A Y A D F Y R N H D S I R D F E E M K K A G I		F Q C A K
UniRef90_H0YOB2	D P R K K A Y A D F Y R N Y D S M K G F E E K R K A		
UniRef90_Q4PM34	E A R K K A Y A D F Y K T Y D A A A D N E R M T K L G L		F Q S
UniRef90_UPI0001D5401A	E P R K K A H D F Y R Y D D A I K D F E V M R K A G I		I F Q S A K
UniRef90_H9JXB0	N E R K R K Y A E F Y R T Y D A E K E F E E M R K K G L		F Q S C
UniRef90_UPI0003337DF0	E P R T E A Y A D F Y R N D D S M K D L D E M S K A G S F K S A K		
UniRef90_D2GX12	R P R K K G Y A D F Y R N Y D S M K D F E E M K K		
UniRef90_U5EI08	D P K K K R D Y A E F Y K T Y D A N K A F Q R M K D A G L		L Q S C K
UniRef90_D6WQX4	D H R K Q V Y A D F Y K S Y D I N K E F N R I R N K G L		F D S C E
UniRef90_U4UF63	D R R K E I Y A N F Y K N Y N I D K E F E T M R K K G L		F D S C
UniRef90_D6X508	D G R K K A R Y A E F Y K N Y D I N K E F H R I R R K G L		F D S C
UniRef90_UPI0003C1180C	E P K K K K A Y A E F Y K T F D A M K T F E A M R E A G V		F F E S V R
UniRef90_A6YPK4	D A R K K Q Y A E F Y K N Y D A E E D F K R M K S L G L		F Q S
UniRef90_E9GAX6	D A R K K T A Y A E F Y R T Y D I E K E Y N R M K Q A G I		F T S A R
UniRef90_UPI0000587B5E	D A R K K L Y T E F Y K T Y D A Q A D F E R M R E L G V		F Q S A R
UniRef90_D7NY84	D R R K K A Y A D F Y R N Y D I M K D F E E M R K A		
UniRef90_N6TR90	D G R K T A Y A E F Y K N Y D I D K E F E R M R K K G L		F D S C
UniRef90_A0A026WKM1	D V R A Q R Y K D F Y K T Y D A E E K Q L K M N E A G L		M Q S
UniRef90_T1R91	D P R K K K Y A D F Y K D Y D P D A E F E R M S A L G L		M Q S T
UniRef90_A8ST42	E P K K K K Y A E F Y K N L D V Q K D F E R M R D V G		F F Q S V K
UniRef90_K4FS07	E P K K Q A Y A D F Y K K Y D A M K E F E A M R E A G I		F F E S V K
UniRef90_UPI0003C3A5F2	N P K K E A Y A E F Y K N Y D A Q K S F E R M K A N G R F Q S C		
UniRef90_G3MSE9	L P R K Q R Y A D F Y K N Y D A D A E Y E K M V K A G G V L K P A E		
UniRef90_T1H9S6	E A R K K K Y A E F Y K T Y D A E E N E F Q E M K E R G V F Q S T R		
UniRef90_B4G6R0	D P K K K A A Y A E F Y Q K Y D A K K S F E R M K A A G R F Q S C		
UniRef90_UPI000344924	Q I K K E G Y A D F Y R N Y D S M R D F E E M K K A G I F F Q S S G K		
UniRef90_D2HQY9	E P R K K A Y A D F Y R N Y D S I K D V D E M K K A G I F F Q G A K		
UniRef90_G6CJ15	N E R K R K Y A E F Y R T Y D A E K E F E E M R A K G L F Q S C		
UniRef90_UPI000359DCC4	E Q R R R Q K F E N F Y K T Y D V E K D Y A R M K K A G V F Q S		
UniRef90_R4WIE5	E P R K R R Y A E F Y R N Y D P E V D Y R N M V K M G		
UniRef90_N6TZT3	D H K K K I L Y N D F Y Y A N Y D I D K E F E T M R A K G L		F D S C
UniRef90_G3HL96	E P R K K A C A D F Y R G Y D S M K D F E E M K K T G I F F Q S A K		
UniRef90_UPI0004418A7B	Q G R Q K Q Y R D F Y K T F D F A K D F E D K K K A G V F F Q S V R		
UniRef90_H9KU98	D R Y E R R K A E F Y K T Y D P M K S L Q M N E A G L		M E S
UniRef90_E2AXV3	D K R K Q K Y V D F Y K T Y D P E K Q L K I M N E A G L		M Q S
UniRef90_UPI00021A86AC	D V Y E R R V E E F Y K T Y D P M K S L Q R M N E A G L		M E S
UniRef90_UPI000333A899	E P R K K V Y S N F Y R S Y D S M K D F E E M R K A G I F F Q N A K		
UniRef90_B4Q430	N P R K R K Y R N F Y S N Y D P M D A F D R M M S G G Y L S S C		
UniRef90_T1G550	E A R K K R F E Q F Y K T Y D Q D K D Y V R M R E A G V F F R S V		
UniRef90_W4WZ11	D K R K R R Y A E F Y K T Y D A E E K Q L K I M N E A G L		M Q S
UniRef90_K7JL23	D K R K Q I L M R D Y Y D Y D P D V S F D Q M R K		
UniRef90_UPI0003BBD7EA	E P R K K A Y A D F Y R N Y D S M K D F E E M R K A G I F F Q R T K		
UniRef90_UPI000258EA01	D S Y E R K M T E F Y K N Y D P E E K S F Q R M V D A G L		M Q S A
UniRef90_UPI0003C377E2	M P R K H K Y A N F Y T N Y D P M V S F Y R M M E G G Y L D S C		
UniRef90_C1BU74	R F H K N A Y E E F Y K T Y D A D E D Y L R M K K L G I F F K S		
UniRef90_UPI00033368AC	D Q R K K A Y A D F Y R N Y D S M K D F E E M R K A G I F F Q S A K		
UniRef90_D2HD65	L N Q K R H A D F Y R N H N S M V D F E E M K K A S I		
UniRef90_V5HYH1	E A R X K G L C R L Q N P T M R A D N E R M T K A G Y S Q S		
UniRef90_B4MV17	L P R K M K Y K N F Y S N Y D P M D A F D R M M N G G Y L S S C		
UniRef90_UPI0003340F3F	E P K K K K A Y A D F Y R N Y H S L K D F E E M R K A G I F F Q S A R		
UniRef90_UPI0002A4BEB0	E P R K K A Y A D F Y K Q Y D A V K E F N A M R E A G V F F Q S V R		
UniRef90_UPI0003AF84F5	N Q E R Q N K G Q K W Q G P N S R K D F		
UniRef90_E2BS62	D R R K Q R Y A D F Y K		

The figure shows a multiple sequence alignment of UniRef90 entries. The sequences are aligned horizontally, with positions 1, 10, 20, 30, and 40 indicated above the alignment. A yellow box highlights a conserved motif at position 30, which is 'CWE' in most sequences. Other highly conserved residues include 'P' at position 10 and 'G' at position 20. The sequences shown are: UniRef90_UPI00042AA547, UniRef90_W8CDF4, UniRef90_T1GH71, UniRef90_B41F4, UniRef90_D2GY39, UniRef90_UPI000329F111, UniRef90_B4JAY8, UniRef90_B4KL98, UniRef90_B3MM9, UniRef90_C1C050, UniRef90_T1K6Y4, and UniRef90_G6C118.

Detailed description: This figure is a horizontal bar chart illustrating the genomic distribution of various genes. The y-axis on the left lists the genes: lupas_21, lupas_14, lupas_28, jnet, conf, sol25, sol5, sol0, jhmm, and ipssm. The x-axis at the bottom represents chromosomes 1 through 22. Red bars indicate the presence of each gene across the chromosomes. Black dots on these red bars mark specific locations or exons. The jnet gene is present across all chromosomes, while others like lupas_21 and lupas_14 are localized.

