

QUERY UniRef90\_A8G960 UniRef90\_B2VL34 UniRef90\_D3VIP8 UniRef90\_UP10002DDC521 UniRef90\_Q5E7U6 UniRef90\_D7N502 UniRef90\_E8XVP5 UniRef90\_A6D4E3 UniRef90\_A5F5D0 UniRef90\_C4LBX3 UniRef90\_J3Z3U9 UniRef90\_F7YJM0 UniRef90\_E3BNV3 UniRef90\_U4KH05 UniRef90\_Q7P144 UniRef90\_V5FPD2 UniRef90\_UP10004706CBE UniRef90\_W9AAS4 UniRef90\_Q8DCF7 UniRef90\_UP10004789736 UniRef90\_R9NPM0 UniRef90\_D4DPS9 UniRef90\_C1D9A6 UniRef90\_G2J2S5 UniRef90\_UP1000395B8DC UniRef90\_G9YDZ5 UniRef90\_Q1C1J6 UniRef90\_J7UB41 UniRef90\_I2BDF7 UniRef90\_UP100037E5EB2 UniRef90\_R7U7Q2 UniRef90\_S3DJZ7 UniRef90\_V7IB30 UniRef90\_D2TZX4 UniRef90\_A7MQG1 UniRef90\_M4U2H5 UniRef90\_X2HED9 UniRef90\_C4GKV5 UniRef90\_Q5JHN0 UniRef90\_R9PF66 UniRef90\_A6FE77 UniRef90\_UP10002556292 UniRef90\_A0KQG1 UniRef90\_G4CTV4 UniRef90\_UP10002D75D9F UniRef90\_UP10003B31261 UniRef90\_UP10004095E2 UniRef90\_R8ATE7 UniRef90\_UP100037002F3 UniRef90\_UP10002DDBDCF UniRef90\_R7D085 UniRef90\_B6YXW5 UniRef90\_E1SUK1 UniRef90\_E4T1P8 UniRef90\_B4F2M1 UniRef90\_H2G0D5 UniRef90\_P96175 UniRef90\_F5S5P2 UniRef90\_A4BHB4 UniRef90\_B0TSQ5 UniRef90\_Q7MZ14 UniRef90\_UP1000471DBC1 UniRef90\_UP100037DD921 UniRef90\_R5P1N5 UniRef90\_V9HDJ7 UniRef90\_U3U9A9 UniRef90\_C6A1L5 UniRef90\_H1PZD3 UniRef90\_U2C5N3 UniRef90\_R7JRE3 UniRef90\_UP1000378F30B UniRef90\_R6CR42 UniRef90\_J9F3N1 UniRef90\_UP100046933D2 UniRef90\_R5FYF6 UniRef90\_A1SZR7 UniRef90\_E8LH68 UniRef90\_UP1000370AADB UniRef90\_R7HNS3 UniRef90\_R7FU02 UniRef90\_Q1LTK5 UniRef90\_UP1000255CEE8 UniRef90\_UP10004793AF9 UniRef90\_E3GW8 UniRef90\_W0ETV2 UniRef90\_E1GTP2 UniRef90\_UP1000471BC67 UniRef90\_UP1000369ED70 UniRef90\_D1PYM7 UniRef90\_O26938 UniRef90\_C9LHN6

1 10 20 30 40

D N V L C P N S N C I S H A E P V S S S F A V R K R A N D I A L K C K Y  
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UniRef90_D7N502	C E K T Y S R D S V A E
UniRef90_E8XVP5	C E K E F E H Q V V L N N
UniRef90_A6D4E3	C E K [V] Y S R E I V T E
UniRef90_A5F5D0	C E K [V] F A R D V V T E
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UniRef90_J3Z3U9	C E K E F E H Q A V I Q N
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UniRef90_G9YDZ5	C E K E F E H H A V M Q N
UniRef90_Q1C1J6	C E K E F D H [L] T V L
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 CEE  
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 CGRRFSN  
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 CDWYLTEDI

Sequence logo showing the conservation of amino acids at each position of the UniRef90 database. The x-axis represents positions 1, 10, 20, 30, and 40. The y-axis lists UniProt IDs. Positions 1-10 are highly conserved (mostly C, P, R, K). Positions 20-30 show more variation, with some positions being conserved across many entries. Position 40 is mostly Y.

lupas\_21  
lupas\_14  
lupas\_28

A horizontal number line starting at 0 and ending at 40. Major tick marks are placed at intervals of 5, labeled as 0, 5, 10, 15, 20, 25, 30, and 35. Three yellow arrows point to the numbers 4, 14, and 40.

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50

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C G E | V R E G | I
C G E Y | L R E E D I I E
C G T | I V R E G | I
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