

Detailed description of the sequence logo: The figure displays a grid of sequence logos for 1000 positions across various proteins. The y-axis on the left lists protein identifiers grouped by color: blue (24653268.f, 24653266.f, 31198427.i, 17538188.w, 1ix3_A, 31204949.i, 24654064.f, 6981620.m, 6755706.m, SYK.h, 31981916.m, 34875595.m, ZAP70.h), green (24653268.f, 24653266.f, 31198427.i, 17538188.w, 1ix3_A, 31204949.i, 24654064.f, 6981620.m, 6755706.m, SYK.h, 31981916.m, 34875595.m, ZAP70.h), red (24653268.f, 24653266.f, 31198427.i, 17538188.w, 1ix3_A, 31204949.i, 24654064.f, 6981620.m, 6755706.m, SYK.h, 31981916.m, 34875595.m, ZAP70.h), and purple (24653268.f, 24653266.f, 31198427.i, 17538188.w, 1ix3_A, 31204949.i, 24654064.f, 6981620.m, 6755706.m, SYK.h, 31981916.m, 34875595.m, ZAP70.h). The x-axis at the top shows positions 1 to 990. Each position is a vertical stack of four bars representing the frequency of A (green), T (red), C (blue), and G (purple). Conserved positions have a single dominant color, while variable positions show a mix of colors.

1200 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190

24653268.f SP~~P~~~~K~~~~K~~N~~F~~~~T~~~~E~~~~B~~~~L~~S~~I~~P~~D~~I~~Q~~S~~L~~I~~G~~K~~E~~A~~Y~~N~~S~~L~~I~~E~~R~~K~~A~~L~~L~~I~~G~~P~~-~~SP~~-~~A~~T~~L~~L~~R~~H~~L~~D~~T~~D~~E~~F~~D~~L~~Q~~S~~L~~H~~Q~~S~~Q~~R~~P~~M~~T~~L~~P~~T~~R~~G~~A~~T~~R~~V~~R~~K~~~~-~~A~~E~~A~~A~~G~~L~~S~~R~~~~N~~D~~E~~N~~S~~L~~E~~A~~C~~E~~S~~P~~S~~Y~~M~~H~~G~~S~~Y~~K~~F~~~~B~~~~E~~C~~P~~~~-~~T~~E~~Q~~L~~E~~P~~~~-~~S~~P~~N~~P~~I~~P~~L~~P~~~~-~~R~~E~~G~~K~~K~~Q~~V~~K~~T~~S~~R~~H~~V~~R~~K~~Y~~P~~L~~I~~I~~P~~A~~N~~G~~C~~R~~T~~L~~S~~K~~L~~A~~D~~F~~G~~D~~E~~A~~A~~K~~S~~P~~E~~I~~S~~S~~

24653266.f SP~~E~~~~K~~~~K~~N~~F~~~~T~~~~E~~~~B~~~~L~~S~~I~~P~~D~~I~~Q~~S~~L~~I~~G~~K~~E~~A~~Y~~N~~S~~L~~I~~E~~R~~K~~A~~L~~L~~I~~G~~P~~-~~SP~~-~~A~~T~~L~~L~~R~~H~~L~~D~~T~~D~~E~~F~~D~~L~~Q~~S~~L~~H~~Q~~S~~Q~~R~~P~~M~~T~~L~~P~~T~~R~~G~~A~~T~~R~~V~~R~~K~~~~-~~A~~E~~A~~A~~G~~L~~S~~R~~~~N~~D~~E~~N~~S~~L~~E~~A~~C~~E~~S~~P~~S~~Y~~M~~H~~G~~S~~Y~~K~~F~~~~B~~~~E~~C~~P~~~~-~~T~~E~~Q~~L~~E~~P~~~~-~~S~~P~~N~~P~~I~~P~~L~~P~~~~-~~R~~E~~G~~K~~K~~Q~~V~~K~~T~~S~~R~~H~~V~~R~~K~~Y~~P~~L~~I~~I~~P~~A~~N~~G~~C~~R~~T~~L~~S~~K~~L~~A~~D~~F~~G~~D~~E~~A~~A~~K~~S~~P~~E~~I~~S~~S~~

31198427.i NS~~Y~~R~~E~~K~~N~~F~~S~~~~C~~E~~V~~N~~V~~E~~D~~L~~O~~S~~T~~T~~I~~E~~A~~R~~I~~A~~Y~~N~~S~~L~~V~~E~~N~~P~~C~~T~~S~~E~~P~~A~~K~~S~~P~~E~~A~~D~~L~~L~~S~~~~E~~G~~M~~C~~D~~N~~I~~T~~A~~E~~C~~N~~-~~L~~R~~M~~R~~N~~K~~N~~S~~I~~V~~E~~R~~S~~K~~N~~K~~I~~S~~T~~H~~V~~E~~Y~~W~~E~~Q~~E~~L~~D~~U~~A~~G~~S~~T~~~~-~~Q~~A~~E~~S~~P~~S~~Y~~M~~H~~G~~N~~P~~E~~T~~Y~~N~~N~~A~~L~~T~~S~~T~~L~~-~~T~~E~~T~~R~~I~~A~~E~~G~~T~~D~~N~~P~~P~~L~~P~~R~~D~~R~~N~~K~~I~~P~~V~~N~~Q~~R~~H~~V~~R~~K~~Y~~P~~L~~I~~I~~P~~A~~G~~L~~R~~T~~L~~N~~K~~V~~Q~~V~~T~~P~~I~~E~~K~~S~~D~~V~~P~~S~~I~~T~~D~~

17538188.w S~~E~~A~~T~~R~~I~~M~~T~~~~G~~~~-~~R~~V~~K~~I~~N~~E~~K~~S~~A~~R~~E~~H~~R~~K~~~~-~~T~~E~~D~~L~~R~~E~~R~~Q~~K~~E~~Q~~K~~P~~G~~E~~I~~E~~E~~P~~Q~~Q~~P~~A~~E~~S~~L~~Y~~T~~R~~T~~P~~Q~~Q~~E~~G~~W~~S~~S~~A~~Q~~E~~A~~K~~L~~L~~V~~E~~C~~G~~T~~N~~L~~K~~-~~S~~P~~V~~S~~P~~P~~P~~N~~F~~T~~S~~R~~S~~I~~T~~D~~P~~R~~~~-~~S~~S~~I~~S~~A~~P~~P~~R~~V~~P~~V~~P~~L~~S~~V~~R~~N~~E~~T~~I~~S~~M~~R~~K~~~~-~~S~~C~~E~~M~~E~~H~~V~~T~~V~~E~~N~~S~~R~~U~~R~~V~~H~~R~~I~~I~~E~~T~~K~~L~~D~~G~~P~~A~~R~~G~~

1ir3_A

31204949.i G~~K~~W~~I~~K~~Y~~A~~P~~E~~S~~N~~-~~

24654064.f G~~R~~P~~I~~R~~Y~~A~~P~~E~~S~~N~~-~~

6981620.m G~~K~~P~~V~~K~~Y~~A~~P~~E~~C~~I~~N~~

6755706.m G~~K~~P~~V~~K~~Y~~A~~P~~E~~C~~I~~N~~

SYK.h G~~K~~P~~V~~K~~Y~~A~~P~~E~~C~~I~~N~~

31981916.m G~~K~~W~~I~~K~~Y~~A~~P~~E~~C~~I~~N~~

34875595.m G~~K~~W~~I~~K~~Y~~A~~P~~E~~C~~I~~N~~

ZAP70.h G~~K~~W~~I~~K~~Y~~A~~P~~E~~C~~I~~N~~

1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390

1400

24653268.f Q~~P~~Q~~P~~G~~R~~A~~E~~V~~V~~A~~A~~V~~R~~P~~S~~G~~M~~R~~R~~P~~S~~R~~S~~P~~E~~R~~E~~Y~~E~~N~~M~~P~~T~~V~~G~~K~~E~~A~~S~~H~~Y~~T~~Y~~Q~~N~~L~~D~~K~~L~~T~~P~~A~~D~~A~~G~~L~~T~~D~~A~~S~~L~~Q~~F~~E~~S~~I~~M~~A~~D~~T~~S~~K~~E~~G~~I~~L~~Q~~S~~-~~P~~D~~V~~T~~D~~G~~F~~Y~~N~~F~~S~~I~~Q~~K~~E~~H~~Y~~N~~K~~G~~D~~A~~E~~F~~A~~T~~Q~~I~~S~~G~~L~~Y~~V~~N~~D~~E~~L~~R~~N~~L~~D~~I~~E~~S~~R~~R~~T~~A~~T~~P~~C~~S~~C~~S~~A~~E~~S~~E~~H~~S~~Q~~P~~~~-~~D~~A~~L~~P~~T~~E~~S~~V~~E~~S~~R~~F~~S~~S~~V~~N~~E~~L~~A~~G~~N~~L~~F~~K~~V~~R~~A~~S~~V~~N~~M~~A~~N~~R~~K~~S~~V~~A~~

24653266.f Q~~P~~Q~~P~~G~~R~~A~~E~~V~~V~~A~~A~~V~~R~~P~~S~~G~~M~~R~~R~~P~~S~~R~~S~~P~~E~~R~~E~~Y~~E~~N~~M~~P~~T~~V~~G~~K~~E~~A~~S~~H~~Y~~T~~Y~~Q~~N~~L~~D~~K~~L~~T~~P~~A~~D~~A~~G~~L~~T~~D~~A~~S~~L~~Q~~F~~E~~S~~I~~M~~A~~D~~T~~S~~K~~E~~G~~I~~L~~Q~~S~~-~~P~~D~~V~~T~~D~~G~~F~~Y~~N~~F~~S~~I~~Q~~K~~E~~H~~Y~~N~~K~~G~~D~~A~~E~~F~~A~~T~~Q~~I~~S~~G~~L~~Y~~V~~N~~D~~E~~L~~R~~N~~L~~D~~I~~E~~S~~R~~R~~T~~A~~T~~P~~C~~S~~C~~S~~A~~E~~S~~E~~H~~S~~Q~~P~~~~-~~D~~A~~L~~P~~T~~E~~S~~V~~E~~S~~R~~F~~S~~S~~V~~N~~E~~L~~A~~G~~N~~L~~F~~K~~V~~R~~A~~S~~V~~N~~M~~A~~N~~R~~K~~S~~V~~A~~

31198427.i T~~A~~E~~P~~~~-~~T~~T~~A~~G~~N~~N~~I~~H~~D~~H~~L~~R~~~~-~~N~~D~~P~~D~~E~~-~~C~~S~~N~~L~~D~~V~~L~~H~~K~~S~~T~~E~~I~~K~~L~~G~~E~~I~~D~~E~~A~~-~~L~~T~~D~~L~~P~~S~~N~~A~~T~~E~~O~~L~~A~~Q~~Q~~G~~Y~~S~~K~~E~~F~~L~~Q~~N~~N~~F~~P~~S~~V~~S~~A~~N~~P~~L~~P~~M~~V~~C~~G~~E~~H~~S~~T~~L~~S~~N~~K~~I~~T~~T~~T~~L~~F~~T~~A~~T~~P~~A~~S~~-~~A~~I~~L~~T~~R~~R~~T~~A~~S~~D~~A~~V~~L~~A~~S~~L~~H~~C~~E~~S~~I~~L~~E~~N~~D~~A~~D~~S~~C~~P~~T~~H~~G~~I~~G~~G~~S~~T~~A~~T~~D~~L~~V~~D~~G~~F~~E~~A~~S~~I~~V~~E~~D~~S~~I~~N~~S~~E~~-F~~H~~I~~T~~R~~O~~P~~I~~K~~-~~M~~S~~P~~I~~Q~~D~~R~~H~~I~~P~~A~~F~~T~~T~~P~~M~~S~~N~~G~~S~~R~~K~~A~~P~~A~~T~~P~~V~~S

17538188.w

1ir3_A

31204949.i A~~A~~C~~G~~-

24654064.f A~~A~~C~~G~~-

6981620.m

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SYK.h

31981916.m A~~A~~C~~G~~-

34875595.m A~~A~~C~~G~~-

ZAP70.h A~~A~~C~~G~~-

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24653268.f E~~T~~S~~L~~T~~S~~N~~Q~~P~~G~~G~~A~~S~~A~~K~~P~~O~~T~~E~~A~~Y~~F~~A~~A~~T~~A~~R~~L~~A~~D~~S~~N~~V~~S~~V~~C~~E~~D~~L~~L~~E~~F~~S~~D~~K~~K~~P~~K~~G~~C~~E~~R~~G~~V~~D~~S~~D~~E~~V~~R~~I~~M~~V~~K~~V~~L~~G~~D~~S~~T~~P~~N~~R~~C~~L~~G~~A~~E~~F~~I~~N~~W~~D~~V~~H~~K~~S~~I~~K~~L~~I~~K~~L~~Q~~N~~L~~V~~S~~E~~A~~N~~S~~L~~E~~A~~S~~F~~E~~A~~Q~~Q~~H~~W~~D~~L~~H~~T~~A~~H~~K~~L~~N~~L~~K~~

24653266.f E~~T~~S~~L~~T~~S~~N~~Q~~P~~G~~G~~A~~S~~A~~K~~P~~O~~T~~E~~A~~Y~~F~~A~~A~~T~~A~~R~~L~~A~~D~~S~~N~~V~~S~~V~~C~~E~~D~~L~~L~~E~~F~~S~~D~~K~~K~~P~~K~~G~~C~~E~~R~~G~~V~~D~~S~~D~~E~~V~~R~~I~~M~~V~~K~~V~~L~~G~~D~~S~~T~~P~~N~~R~~C~~L~~G~~A~~E~~F~~I~~N~~W~~D~~V~~H~~K~~S~~I~~K~~L~~I~~K~~L~~Q~~N~~L~~V~~S~~E~~A~~N~~S~~L~~E~~A~~S~~F~~E~~A~~Q~~Q~~H~~W~~D~~L~~H~~T~~A~~H~~K~~L~~N~~L~~K~~

31198427.i P~~P~~S~~A~~E~~-~~N~~E~~Q~~H~~D~~R~~I~~T~~T~~Q~~P~~T~~T~~E~~C~~L~~K~~K~~S~~-~~M~~N~~F~~V~~S~~C~~E~~D~~L~~L~~E~~F~~A~~E~~K~~-~~P~~K~~G~~A~~R~~G~~L~~E~~S~~D~~E~~V~~R~~I~~M~~V~~K~~L~~G~~K~~P~~S~~A~~C~~L~~L~~I~~E~~F~~I~~D~~H~~I~~N~~K~~A~~I~~K~~L~~C~~L~~Q~~T~~I~~L~~E~~F~~N~~L~~S~~Q~~E~~C~~S~~D~~A~~L~~Q~~Y~~M~~D~~W~~D~~L~~H~~T~~A~~L~~K~~L~~

17538188.w P~~A~~P~~A~~G~~S~~T~~D~~Q~~K~~P~~P~~C~~R~~P~~-~~P~~K~~T~~R~~Q~~F~~L~~V~~I~~D~~E~~R~~N~~L~~A~~N~~I~~N~~-F~~G~~A~~G~~A~~R~~V~~A~~P~~V~~P~~P~~K~~-~~K~~V~~R~~T~~I~~F~~S~~F~~A~~D~~D~~Q~~K~~K~~E~~V~~E~~A~~N

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