





Stacked bar chart showing the frequency of different amino acids at positions 39 to 55. The y-axis is labeled 'Frequency' and ranges from 0 to 100. The x-axis is labeled 'Position' and ranges from 39 to 55. Each bar represents a position and is composed of segments of different colors representing the frequency of various amino acids. The colors used are blue, orange, green, red, purple, cyan, and yellow.

Position	Blue	Orange	Green	Red	Purple	Cyan	Yellow
39	18	55	2	0	12	23	0
40	12	12	33	0	13	25	0
41	2	0	0	0	1	95	0
42	12	0	0	0	26	62	0
43	2	0	96	0	0	0	0
44	3	0	0	95	0	0	0
45	0	0	10	0	67	17	0
46	95	0	5	0	2	0	0
47	0	0	5	0	93	0	0
48	2	78	0	10	0	0	0
49	0	0	0	0	95	0	0
50	98	0	0	0	0	0	0
51	0	0	95	0	0	0	0
52	4	0	0	0	0	94	0
53	30	12	0	0	0	48	0
54	0	0	22	0	78	0	0
55	0	0	15	0	15	20	0

A stacked bar chart showing the frequency of different categories across positions 56 to 65. The y-axis is labeled 'Frequency' and ranges from 0 to 100. The x-axis is labeled 'Position' and ranges from 56 to 65. The categories are represented by different colors: blue, cyan, green, yellow, orange, red, and grey.

Position	Blue	Cyan	Green	Yellow	Orange	Red	Grey
56	80	8	8	0	0	2	0
57	12	28	25	10	10	8	0
58	15	25	25	10	5	10	0
59	15	28	25	10	10	0	0
60	15	5	5	0	0	0	75
61	0	8	0	5	0	3	74
62	42	7	15	2	2	6	28
63	47	12	20	2	0	0	0
64	10	15	25	5	5	15	0
65	15	5	60	0	15	0	0

A stacked bar chart showing the frequency of 104 positions. The y-axis is labeled 'Frequency' and ranges from 0 to 100. The x-axis is labeled 'Position' and ranges from 66 to 104. Each bar represents a position and is composed of segments of different colors, indicating the frequency of various categories. The colors used are red, orange, yellow, green, cyan, blue, and purple. The distribution is highly variable, with some positions having a single dominant color and others being highly mixed.



