

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.36%	0.01%	0.36%	4.80%	0.01%	0.37%	4.09%	0.05%	4.83%	5.38%	0.32%	0.33%	5.17%	67.07%	5.53%	0.23%	0.38%	0.37%	0.18%	0.15%
2:V	4.53%	0.02%	0.16%	3.39%	0.29%	3.01%	0.01%	2.44%	0.46%	7.51%	6.18%	0.03%	0.22%	0.11%	0.40%	0.18%	0.69%	70.32%	0.04%	0.00%
3:Q	0.07%	0.05%	0.25%	1.21%	0.03%	0.11%	10.95%	0.09%	5.01%	2.82%	0.10%	0.93%	2.13%	70.91%	4.38%	0.17%	0.25%	0.10%	0.28%	0.16%
4:L	0.78%	0.02%	0.02%	0.44%	0.58%	0.37%	0.04%	0.73%	0.45%	71.02%	5.82%	0.02%	2.48%	0.85%	1.29%	1.00%	0.54%	13.35%	0.23%	0.00%
5:V	5.59%	0.00%	0.22%	3.87%	0.07%	3.43%	0.01%	1.32%	0.38%	7.81%	7.02%	0.01%	0.28%	0.09%	0.34%	0.14%	0.71%	68.67%	0.02%	0.00%
6:E	5.19%	0.00%	3.32%	74.51%	0.00%	7.34%	0.13%	0.02%	3.96%	0.21%	0.24%	0.16%	0.19%	1.65%	0.35%	0.07%	0.42%	2.18%	0.03%	0.03%
7:S	1.72%	1.93%	0.02%	0.00%	1.95%	0.05%	0.04%	0.05%	0.00%	0.25%	0.00%	0.03%	3.97%	0.00%	0.08%	87.71%	1.51%	0.06%	0.05%	0.58%
8:G	0.57%	0.01%	0.12%	2.48%	0.00%	92.53%	0.00%	0.00%	0.08%	0.04%	0.03%	0.00%	0.02%	0.05%	2.61%	0.04%	0.05%	0.60%	0.75%	0.00%
9:G	2.56%	0.02%	0.36%	7.29%	0.00%	64.64%	0.02%	0.29%	0.64%	0.24%	0.02%	0.05%	0.22%	0.14%	18.93%	2.71%	1.03%	0.82%	0.01%	0.00%
10:G	10.56%	0.54%	25.78%	0.70%	0.07%	53.47%	0.27%	0.18%	0.04%	0.12%	0.01%	0.34%	0.28%	0.01%	0.63%	0.80%	0.49%	5.52%	0.02%	0.14%
11:L	0.12%	0.11%	0.00%	0.03%	2.46%	0.06%	0.00%	0.12%	0.01%	84.18%	0.79%	0.00%	0.46%	0.09%	0.84%	6.51%	0.06%	1.05%	3.09%	0.01%
12:V	4.79%	0.01%	1.41%	0.10%	0.74%	1.28%	0.02%	3.65%	0.01%	2.60%	0.12%	0.04%	0.09%	0.00%	0.04%	0.11%	0.16%	84.82%	0.00%	0.01%
13:K	0.30%	0.00%	0.17%	4.49%	0.00%	0.39%	0.08%	0.26%	70.13%	0.31%	3.35%	1.09%	0.25%	4.13%	8.18%	0.21%	6.31%	0.21%	0.12%	0.01%
14:P	3.87%	0.28%	0.04%	0.01%	0.26%	0.08%	0.45%	0.12%	0.02%	1.28%	0.01%	0.12%	77.36%	0.05%	1.05%	9.98%	4.76%	0.19%	0.02%	0.06%
15:G	2.07%	0.01%	0.23%	4.70%	0.00%	85.61%	0.01%	0.09%	0.21%	0.08%	0.01%	0.01%	0.10%	0.08%	5.63%	0.22%	0.22%	0.70%	0.02%	0.00%
16:G	1.53%	0.02%	0.37%	8.25%	0.00%	84.92%	0.01%	0.01%	0.21%	0.21%	0.11%	0.01%	0.06%	0.14%	1.56%	0.07%	0.09%	2.09%	0.32%	0.00%
17:S	2.14%	2.51%	0.09%	0.00%	2.21%	0.07%	0.12%	0.07%	0.01%	0.40%	0.00%	0.13%	4.81%	0.00%	0.09%	84.96%	1.05%	0.09%	0.07%	1.17%
18:L	0.06%	0.00%	0.00%	0.04%	0.15%	0.03%	0.09%	0.06%	0.03%	89.39%	0.71%	0.00%	3.83%	2.09%	1.79%	0.08%	0.07%	1.55%	0.03%	0.00%
19:R	0.07%	0.02%	0.01%	0.15%	0.00%	4.91%	0.01%	0.51%	1.71%	0.03%	0.05%	0.15%	0.06%	0.06%	89.40%	1.54%	1.26%	0.03%	0.02%	0.00%
20:L	0.16%	0.08%	0.05%	0.00%	2.99%	0.06%	1.29%	0.96%	0.01%	82.67%	0.04%	0.06%	5.93%	0.06%	1.64%	0.19%	0.11%	3.68%	0.01%	0.03%
21:S	2.77%	1.75%	0.06%	0.00%	1.86%	0.07%	0.17%	0.06%	0.01%	0.59%	0.00%	0.07%	7.46%	0.01%	0.14%	82.37%	1.21%	0.13%	0.07%	1.19%
22:C	0.15%	68.31%	0.22%	0.02%	3.77%	2.07%	0.68%	0.09%	0.02%	0.79%	0.00%	0.28%	0.49%	0.03%	4.63%	10.59%	0.19%	0.07%	2.47%	5.15%
23:A	82.62%	0.01%	0.21%	2.94%	0.01%	0.75%	0.01%	0.45%	0.14%	0.25%	0.04%	0.02%	2.34%	0.04%	0.14%	3.05%	6.16%	0.82%	0.00%	0.00%
24:A	77.16%	0.04%	4.63%	0.28%	0.15%	3.63%	0.03%	0.39%	0.01%	0.37%	0.02%	0.11%	1.25%	0.00%	0.03%	6.15%	2.01%	9.25%	0.00%	0.04%
25:S	1.46%	2.89%	0.05%	0.00%	2.15%	0.13%	0.08%	0.06%	0.00%	0.48%	0.00%	0.04%	5.27%	0.01%	0.13%	85.32%	0.99%	0.12%	0.07%	0.73%
26:G	4.98%	0.02%	1.25%	11.47%	0.01%	73.20%	0.04%	0.22%	0.56%	0.23%	0.01%	0.08%	0.29%	0.25%	4.59%	0.22%	0.61%	1.93%	0.02%	0.01%
27:F	0.13%	2.41%	0.08%	0.01%	67.10%	0.12%	0.19%	1.41%	0.01%	20.67%	0.06%	0.09%	0.60%	0.01%	0.31%	3.32%	0.08%	2.53%	0.08%	0.80%
28:T	6.26%	0.11%	0.14%	0.01%	0.22%	0.23%	0.08%	4.50%	0.20%	0.33%	0.38%	1.41%	4.43%	0.00%	0.48%	6.06%	74.47%	0.61%	0.01%	0.06%
29:F	0.09%	3.38%	0.04%	0.00%	70.72%	0.07%	0.11%	0.59%	0.00%	18.54%	0.05%	0.04%	0.44%	0.01%	0.15%	3.38%	0.04%	1.50%	0.08%	0.78%
30:S	0.37%	3.42%	0.47%	0.03%	0.16%	5.31%	0.40%	2.12%	0.22%	0.17%	0.03%	5.29%	0.39%	0.03%	8.81%	66.79%	5.52%	0.17%	0.09%	0.21%
31:D	4.30%	0.14%	74.66%	6.01%	0.09%	6.75%	2.35%	0.09%	0.22%	0.13%	0.01%	1.37%	0.13%	0.18%	0.14%	0.23%	0.16%	1.85%	0.00%	1.19%
32:Y	0.14%	11.03%	2.66%	0.11%	7.27%	0.54%	7.12%	0.14%	0.31%	1.62%	0.01%	3.49%	0.41%	0.22%	0.63%	7.73%	0.27%	0.11%	0.30%	55.88%
33:Y	0.17%	10.29%	2.98%	0.10%	4.73%	0.51%	7.93%	0.14%	0.21%	0.86%	0.00%	3.62%	0.47%	0.21%	0.72%	8.74%	0.33%	0.09%	0.12%	57.76%
34:M	0.57%	0.01%	0.01%	0.32%	0.27%	0.34%	0.01%	6.06%	4.44%	11.04%	53.16%	0.12%	0.39%	0.16%	6.94%	0.47%	7.88%	7.66%	0.14%	0.00%
35:S	0.87%	1.05%	1.42%	0.14%	0.11%	4.29%	0.69%	4.59%	3.88%	0.23%	0.64%	18.11%	0.40%	0.12%	16.87%	33.47%	12.34%	0.39%	0.16%	0.23%
36:W	0.04%	6.80%	0.03%	0.08%	0.22%	2.24%	0.07%	0.01%	0.06%	1.51%	0.03%	0.03%	0.15%	0.13%	5.69%	1.72%	0.04%	0.04%	80.58%	0.54%
37:I	0.46%	0.05%	0.06%	0.03%	1.45%	0.18%	0.03%	73.13%	0.38%	3.72%	2.96%	1.00%	0.27%	0.01%	0.58%	2.08%	7.37%	6.26%	0.00%	0.01%
38:R	0.05%	3.33%	0.11%	0.00%	0.03%	1.91%	2.01%	0.01%	0.00%	0.54%	0.00%	0.05%	0.89%	0.06%	90.17%	0.59%	0.01%	0.03%	0.08%	0.12%
39:Q	0.05%	0.00%	0.02%	1.39%	0.00%	0.06%	1.14%	0.00%	0.92%	1.65%	0.04%	0.02%	4.56%	86.29%	3.68%	0.04%	0.11%	0.03%	0.02%	0.00%
40:A	51.00%	0.10%	0.49%	0.10%	0.12%	1.38%	0.04%	0.72%	0.01%	0.16%	0.01%	0.20%	11.39%	0.00%	0.11%	6.41%	26.05%	1.68%	0.00%	0.02%
41:P	1.72%	0.01%	0.00%	0.06%	0.01%	0.02%	0.24%	0.05%	0.01%	3.90%	0.00%	0.00%	90.08%	0.72%	0.77%	1.77%	0.55%	0.08%	0.00%	0.00%
42:G	1.49%	0.04%	0.51%	7.22%	0.00%	86.09%	0.01%	0.02%	0.15%	0.12%	0.08%	0.01%	0.06%	0.15%	1.57%	0.15%	0.08%	2.02%	0.22%	0.00%
43:K	0.24%	0.00%	0.06%	7.55%	0.00%	0.24%	0.04%	0.05%	77.34%	0.15%	0.92%	0.75%	0.16%	6.21%	3.84%	0.12%	2.17%	0.13%	0.02%	0.01%
44:G	0.48%	0.10%	0.23%	0.79%	0.00%	94.52%	0.00%	0.01%	0.03%	0.03%	0.02%	0.01%	0.01%	0.01%	2.58%	0.41%	0.03%	0.40%	0.35%	0.00%
45:L	0.08%	0.00%	0.00%	0.04%	0.05%	0.03%	0.05%	0.10%	0.03%	90.76%	0.50%	0.00%	4.11%	1.40%	1.35%	0.11%	0.05%	1.31%	0.02%	0.00%
46:E	5.00%	0.01%	13.22%	64.58%	0.01%	7.13%	0.32%	0.06%	3.60%	0.21%	0.21%	0.77%	0.18%	1.57%	0.36%	0.12%	0.43%	2.08%	0.02%	0.11%
47:W	0.05%	4.15%	0.01%	0.09%	0.11%	3.77%	0.01%	0.01%	0.08%	1.42%	0.04%	0.01%	0.07%	0.04%	8.41%	1.67%	0.05%	0.05%	79.82%	0.13%
48:V	10.16%	0.10%	3.59%	0.18%	2.20%	5.04%	0.44%	17.74%	0.06%	9.93%	0.42%	1.08%	1.26%	0.01%	0.22%	1.06%	3.04%	43.35%	0.00%	0.11%
49:S	3.30%	0.52%	0.02%	0.13%	1.07%	0.05%	0.02%	0.08%	0.03%	3.94%	0.01%	0.01%	3.54%	0.03%	0.07%	85.24%	1.23%	0.13%	0.35%	0.22%
50:Y	0.23%	10.38%	5.79%	0.22%	7.55%	0.65%	8.38%	0.21%	0.23%	1.20%	0.01%	4.02%	0.39%	0.23%	1.00%	7.34%	0.22%	0.22%	0.12%	51.58%
51:I	0.61%	0.19%	0.22%	0.05%	4.71%	0.30%	0.21%	57.69%	0.66%	5.92%	5.60%	2.39%	0.68%	0.03%	0.99%	3.62%	9.23%	6.82%	0.01%	0.07%
52:S	1.64%	1.91%	1.89%	0.23%	1.02%	4.33%	0.86%	7.88%	1.27%	1.01%	0.44%	11.64%	0.81%	0.09%	10.72%	39.63%	12.91%	0.97%	0.22%	0.53%
53:S	1.89%	2.80%	2.17%	0.27%	1.10%	6.29%	1.04%	7.68%	1.21%	1.11%	0.43%	11.09%	0.89%	0.10%	10.86%	36.88%	12.18%	1.03%	0.31%	0.66%
54:S	1.87%	2.78%	2.14%	0.28%	1.08%	6.29%	1.04%	7.66%	1.20%	1.10%	0.43%	11.08%	0.91%	0.10%	10.86%	36.94%	12.25%	1.02%	0.31%	0.68%
55:S	1.90%	2.79%	2.17%	0.26%	1.07%	6.25%	1.05%	7.67%	1.26%	1.09%	0.46%	11.05%	0.89%	0.09%	11.22%	36.44%	12.30%	1.03%	0.31%	0.68%
56:S	1.09%	4.10%	1.63%	0.09%	0.45%	7.91%	0.80%	2.74%	0.41%	0.38%	0.06%	9.85%	0.56%	0.05%	5.48%	55.46%	7.85%	0.39%	0.15%	0.53%
57:Y	0.28%	11.31%	5.76%	0.31%	7.97%	0.42%	11.52%	0.15%	0.21%	1.08%	0.00%	3.18%	0.28%	0.39%	0.81%	6.64%	0.12%	0.22%	0.18%	49.16%
58:T	3.27%	0.00%	0.02%	0.29%	0.01%	0.19%	0.01%	2.02%	0.88%	0.23%	0.22%	0.12%	2.42%	0.03%	4.07%	2.65%	83.41%	0.14%	0.00%	0.00%
59:N	0.29%	0.69%	8.93%	1.17%	0.49%	0.45%	8.00%	3.00%	8.45%	0.44%	0.39%	49.87%	0.34%	0.84%	1.62%	4.79%	3.96%	0.32%	0.04%	5.92%
60:Y	0.13%	11.34%	2.96%	0.10%	6.59%	0.54%	7.27%	0.16%	0.19%	1.28%	0.01%	3.75%	0.38%	0.27%	0.66%	7.11%	0.28%	0.11%	0.12%	56.75%
61:A	51.61%	0.01%	0.56%	6.52%	0.01%	1.64%	0.04%	0.85%	0.40%	0.48%	0.05%	0.05%	8.42%	0.21%	1.02%	5.67%	21.18%	1.27%	0.00%	0.01%
62:D	1.37%	0.04%	89.13%	4.53%	0.03%	2.18%	0.47%	0.04%	0.16%	0.03%	0.01%	0.80%	0.02%	0.08%	0.03%	0.07%	0.05%	0.61%	0.00%	0.36%
63:S	1.60%	3.04%	0.05%	0.01%	2.47%	0.12%	0.07%	0.06%	0.00%	0.30%	0.00%	0.04%	5.99%	0.00%	0.11%	83.86%	1.31%	0.12%	0.06%	0.78%
64:V	4.31%	0.00%	0.16																	