

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.07%	0.00%	0.07%	2.48%	0.00%	0.07%	3.68%	0.00%	2.53%	2.61%	0.06%	0.06%	2.57%	82.86%	2.65%	0.04%	0.08%	0.07%	0.04%	0.05%
2:S	0.82%	0.83%	0.00%	0.00%	0.86%	0.01%	0.01%	0.01%	0.00%	0.04%	0.00%	0.00%	1.79%	0.00%	0.01%	94.77%	0.54%	0.01%	0.01%	0.28%
3:A	87.79%	0.01%	2.36%	0.04%	0.01%	2.65%	0.00%	0.04%	0.00%	0.02%	0.00%	0.01%	0.38%	0.00%	0.01%	0.23%	0.74%	5.70%	0.00%	0.01%
4:L	0.01%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.01%	95.61%	0.36%	0.00%	1.62%	0.94%	0.73%	0.01%	0.01%	0.67%	0.00%	0.00%
5:T	3.45%	0.01%	0.01%	0.00%	0.01%	0.04%	0.01%	1.42%	0.02%	0.02%	0.01%	0.44%	2.03%	0.00%	0.04%	2.41%	90.02%	0.04%	0.00%	0.00%
6:Q	0.03%	0.00%	0.02%	1.42%	0.00%	0.04%	0.79%	0.00%	0.40%	2.22%	0.01%	0.00%	2.44%	88.74%	3.80%	0.01%	0.01%	0.02%	0.02%	0.00%
7:P	1.70%	0.07%	0.01%	0.00%	0.06%	0.02%	0.27%	0.02%	0.00%	0.68%	0.00%	0.03%	90.51%	0.01%	0.57%	4.16%	1.85%	0.04%	0.00%	0.01%
8:A	90.11%	0.01%	1.93%	0.03%	0.01%	1.98%	0.00%	0.03%	0.00%	0.02%	0.00%	0.02%	0.38%	0.00%	0.00%	0.22%	0.75%	4.50%	0.00%	0.01%
9:S	0.96%	0.89%	0.02%	0.00%	0.91%	0.01%	0.02%	0.00%	0.00%	0.07%	0.00%	0.01%	2.72%	0.00%	0.01%	93.39%	0.43%	0.02%	0.01%	0.52%
10:V	1.70%	0.00%	0.03%	2.60%	0.02%	0.93%	0.00%	0.15%	0.07%	4.52%	3.48%	0.00%	0.06%	0.05%	0.05%	0.02%	0.12%	86.21%	0.00%	0.00%
11:S	1.06%	0.78%	0.01%	0.00%	0.82%	0.01%	0.01%	0.01%	0.00%	0.05%	0.00%	0.01%	2.22%	0.00%	0.01%	94.09%	0.65%	0.01%	0.01%	0.26%
12:G	0.75%	0.00%	0.05%	3.53%	0.00%	93.19%	0.00%	0.00%	0.04%	0.03%	0.02%	0.00%	0.01%	0.03%	1.13%	0.01%	0.02%	0.86%	0.31%	0.00%
13:S	1.94%	0.91%	0.01%	0.00%	0.80%	0.01%	0.01%	0.02%	0.00%	0.06%	0.00%	0.01%	3.48%	0.00%	0.02%	91.08%	1.40%	0.03%	0.01%	0.22%
14:P	0.89%	0.03%	0.01%	0.00%	0.03%	0.01%	0.85%	0.03%	0.00%	1.68%	0.00%	0.02%	94.04%	0.04%	0.70%	1.03%	0.58%	0.03%	0.00%	0.01%
15:G	0.34%	0.00%	0.03%	0.90%	0.00%	95.89%	0.00%	0.01%	0.02%	0.01%	0.00%	0.00%	0.01%	0.01%	2.59%	0.04%	0.01%	0.15%	0.00%	0.00%
16:Q	0.01%	0.00%	0.02%	0.38%	0.00%	0.01%	3.87%	0.00%	0.30%	2.59%	0.01%	0.06%	1.45%	88.40%	2.84%	0.01%	0.01%	0.01%	0.01%	0.02%
17:S	1.28%	0.06%	0.00%	0.01%	0.04%	0.01%	0.00%	0.00%	0.00%	0.55%	0.00%	0.00%	2.24%	0.00%	0.01%	94.76%	0.70%	0.02%	0.30%	0.01%
18:I	0.06%	0.01%	0.02%	0.00%	0.86%	0.03%	0.01%	88.75%	0.04%	1.90%	1.50%	0.38%	0.03%	0.00%	0.22%	1.22%	1.65%	3.31%	0.00%	0.00%
19:T	3.01%	0.02%	0.02%	0.00%	0.04%	0.03%	0.01%	2.05%	0.02%	0.05%	0.02%	0.63%	2.05%	0.00%	0.17%	2.90%	88.88%	0.09%	0.00%	0.01%
20:I	0.10%	0.03%	0.03%	0.00%	2.62%	0.04%	0.01%	81.96%	0.09%	2.86%	2.90%	0.90%	0.06%	0.00%	0.09%	0.92%	2.49%	4.88%	0.00%	0.01%
21:S	1.26%	0.94%	0.01%	0.00%	0.97%	0.02%	0.04%	0.01%	0.00%	0.12%	0.00%	0.01%	3.48%	0.00%	0.03%	91.90%	0.55%	0.03%	0.02%	0.61%
22:C	0.03%	86.46%	0.10%	0.00%	1.39%	0.92%	0.21%	0.01%	0.00%	0.07%	0.00%	0.10%	0.06%	0.00%	0.83%	3.23%	0.02%	0.01%	0.99%	5.57%
23:T	3.36%	0.08%	0.05%	0.00%	0.06%	0.13%	0.02%	2.50%	0.04%	0.06%	0.02%	1.07%	4.88%	0.00%	0.10%	5.92%	81.55%	0.15%	0.00%	0.02%
24:G	0.94%	0.00%	0.14%	2.58%	0.00%	93.16%	0.00%	0.03%	0.04%	0.02%	0.00%	0.00%	0.02%	0.02%	2.50%	0.03%	0.05%	0.45%	0.00%	0.00%
25:T	4.37%	0.09%	0.23%	0.01%	0.22%	0.25%	0.10%	7.62%	0.13%	0.17%	0.11%	3.77%	1.61%	0.00%	0.78%	7.42%	72.57%	0.52%	0.00%	0.05%
26:S	0.10%	1.25%	0.14%	0.01%	0.04%	2.18%	0.17%	1.76%	0.41%	0.05%	0.05%	6.65%	0.09%	0.01%	24.10%	59.08%	3.73%	0.07%	0.02%	0.10%
27:S	0.10%	3.90%	0.11%	0.00%	0.06%	3.22%	0.09%	1.09%	0.05%	0.04%	0.01%	2.80%	0.11%	0.00%	4.70%	81.05%	2.51%	0.04%	0.04%	0.08%
28:D	1.46%	0.03%	91.10%	1.34%	0.02%	2.78%	1.17%	0.01%	0.03%	0.01%	0.00%	0.68%	0.02%	0.01%	0.02%	0.04%	0.03%	0.56%	0.00%	0.68%
29:V	3.37%	0.02%	1.47%	0.05%	2.09%	1.76%	0.09%	5.22%	0.00%	4.92%	0.04%	0.14%	0.23%	0.00%	0.03%	0.59%	0.55%	79.39%	0.00%	0.02%
30:G	2.57%	0.63%	4.24%	0.13%	0.02%	88.88%	0.03%	0.04%	0.00%	0.03%	0.00%	0.05%	0.08%	0.00%	0.59%	1.68%	0.17%	0.82%	0.01%	0.02%
31:G	3.55%	1.10%	5.23%	0.18%	0.04%	84.52%	0.14%	0.05%	0.00%	0.04%	0.00%	0.23%	0.05%	0.00%	1.05%	2.52%	0.14%	1.07%	0.01%	0.08%
32:Y	0.09%	6.76%	1.79%	0.04%	8.36%	0.07%	5.06%	0.05%	0.03%	0.56%	0.00%	1.32%	0.14%	0.23%	0.20%	7.43%	0.05%	0.07%	0.07%	67.67%
33:N	0.20%	0.12%	6.78%	0.32%	0.17%	0.27%	2.94%	3.17%	5.63%	0.19%	0.14%	70.72%	0.09%	0.11%	0.46%	3.71%	3.16%	0.18%	0.00%	1.66%
34:Y	0.04%	5.74%	1.59%	0.12%	6.45%	0.04%	3.21%	0.04%	0.03%	0.23%	0.00%	1.69%	0.12%	0.08%	0.11%	6.18%	0.08%	0.02%	0.03%	74.20%
35:V	2.21%	0.01%	0.65%	0.01%	0.71%	1.07%	0.00%	1.09%	0.00%	1.41%	0.03%	0.01%	0.02%	0.00%	0.01%	0.02%	0.03%	92.71%	0.00%	0.00%
36:S	1.30%	0.88%	0.01%	0.00%	0.92%	0.01%	0.04%	0.01%	0.00%	0.12%	0.00%	0.02%	3.51%	0.00%	0.03%	91.99%	0.55%	0.02%	0.01%	0.59%
37:W	0.04%	9.50%	0.02%	0.09%	0.17%	5.81%	0.01%	0.00%	0.01%	0.44%	0.01%	0.01%	0.02%	0.02%	2.13%	0.79%	0.01%	0.03%	80.40%	0.50%
38:Y	0.06%	5.69%	4.93%	0.08%	2.87%	0.13%	5.58%	0.20%	0.44%	0.27%	0.00%	8.05%	0.06%	0.06%	0.19%	2.62%	0.09%	0.06%	0.04%	68.57%
39:Q	0.02%	0.00%	0.05%	1.25%	0.00%	0.03%	7.00%	0.02%	0.70%	1.56%	0.00%	0.05%	1.67%	85.66%	1.85%	0.02%	0.03%	0.03%	0.00%	0.06%
40:Q	0.04%	0.01%	0.10%	2.72%	0.01%	0.06%	5.07%	0.01%	2.59%	1.85%	0.06%	0.18%	1.12%	82.93%	2.86%	0.04%	0.04%	0.07%	0.11%	0.13%
41:H	0.07%	0.18%	3.31%	0.06%	0.13%	0.07%	66.91%	0.41%	0.93%	1.91%	0.01%	17.21%	0.90%	0.76%	2.74%	0.66%	0.22%	0.06%	0.00%	3.45%
42:P	0.86%	0.00%	0.00%	0.02%	0.00%	0.01%	0.03%	0.02%	0.01%	0.76%	0.00%	0.00%	94.24%	0.29%	0.43%	2.05%	1.28%	0.02%	0.00%	0.00%
43:G	0.69%	0.15%	1.57%	0.02%	0.00%	96.20%	0.01%	0.01%	0.00%	0.01%	0.00%	0.02%	0.01%	0.00%	0.25%	0.37%	0.01%	0.65%	0.00%	0.01%
44:K	0.10%	0.00%	0.14%	2.10%	0.00%	0.11%	0.09%	2.04%	77.05%	0.05%	0.16%	4.94%	0.07%	0.85%	5.77%	0.28%	6.16%	0.06%	0.00%	0.04%
45:A	69.10%	0.01%	6.31%	0.11%	0.03%	7.38%	0.02%	0.09%	0.00%	0.06%	0.00%	0.04%	0.34%	0.00%	0.01%	0.27%	0.81%	15.39%	0.00%	0.01%
46:P	0.23%	0.00%	0.00%	0.00%	0.01%	0.00%	0.46%	0.01%	0.00%	0.73%	0.00%	0.00%	97.45%	0.00%	0.31%	0.46%	0.33%	0.01%	0.00%	0.00%
47:K	0.10%	0.00%	0.10%	2.32%	0.00%	0.05%	0.10%	3.85%	77.81%	0.12%	0.17%	3.07%	0.08%	2.67%	4.84%	0.16%	4.45%	0.08%	0.00%	0.02%
48:L	0.14%	0.07%	0.03%	0.00%	7.67%	0.05%	0.40%	2.20%	0.00%	79.79%	0.03%	0.02%	2.10%	0.01%	0.75%	0.17%	0.07%	6.45%	0.00%	0.03%
49:M	0.10%	0.00%	0.00%	0.05%	0.09%	0.06%	0.00%	10.44%	2.31%	4.13%	71.33%	0.08%	0.06%	0.03%	3.55%	0.11%	4.32%	3.31%	0.03%	0.00%
50:I	0.23%	0.01%	0.06%	0.00%	0.93%	0.09%	0.03%	82.51%	0.06%	1.94%	0.90%	1.92%	0.12%	0.00%	0.06%	1.68%	6.42%	3.02%	0.00%	0.01%
51:Y	0.07%	5.91%	3.37%	0.08%	6.52%	0.07%	5.80%	0.06%	0.03%	0.31%	0.00%	2.27%	0.12%	0.20%	0.15%	5.96%	0.07%	0.06%	0.04%	68.90%
52:E	1.61%	0.00%	3.31%	88.56%	0.00%	2.58%	0.05%	0.00%	1.64%	0.03%	0.03%	0.08%	0.04%	1.27%	0.05%	0.01%	0.08%	0.63%	0.00%	0.02%
53:V	2.16%	0.00%	0.62%	0.01%	0.08%	0.81%	0.00%	0.38%	0.00%	0.25%	0.01%	0.01%	0.01%	0.00%	0.00%	0.01%	0.02%	95.64%	0.00%	0.00%
54:S	0.26%	1.43%	0.31%	0.01%	0.09%	2.05%	0.31%	5.12%	0.40%	0.12%	0.09%	11.81%	0.24%	0.01%	4.13%	64.34%	9.00%	0.14%	0.02%	0.12%
55:N	0.22%	0.16%	6.64%	0.10%	0.20%	0.34%	3.01%	3.50%	1.40%	0.18%	0.04%	69.89%	0.14%	0.08%	0.30%	7.58%	4.36%	0.16%	0.00%	1.69%
56:R	0.00%	0.03%	0.00%	0.01%	0.00%	1.10%	0.02%	0.00%	0.01%	0.19%	0.00%	0.00%	0.30%	0.47%	96.14%	0.01%	0.00%	0.01%	1.70%	0.00%
57:P	0.62%	0.00%	0.00%	0.00%	0.00%	0.00%	0.49%	0.00%	0.00%	0.23%	0.00%	0.04%	97.72%	0.01%	0.10%	0.58%	0.18%	0.00%	0.00%	0.00%
58:S	0.74%	0.02%	0.00%	0.02%	0.04%	0.00%	0.00%	0.01%	0.00%	0.97%	0.00%	0.00%	2.28%	0.00%	0.01%	95.47%	0.41%	0.01%	0.01%	0.01%
59:G	0.22%	0.00%	0.05%	0.92%	0.00%	97.80%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.01%	0.63%	0.02%	0.00%	0.24%	0.10%	0.00%
60:V	6.14%	0.02%	2.06%	0.04%	1.31%	3.30%	0.09%	11.24%	0.01%	5.59%	0.11%	0.26%	0.27%	0.00%	0.04%	0.23%	0.73%	68.54%	0.00%	0.03%
61:S	1.31%	7.03%	0.04%	0.00%	6.53%	0.04%	0.08%	0.03%	0.00%	0.55%	0.00%	0.03%	1.12%	0.00%	0.09%	80.74%	0.33%	0.06%	0.09%	1.92%
62:N	0.23%	0.21%	5.88%	0.12%	0.19%	0.32%	2.76%	3.47%	1.43%	0.17%	0.04%	71.06%	0.14%	0.07%	0.33%	7.58%	4.30%	0.16%	0.00%	1.52%
63:R	0.06%	1.28%	0.12%	0.00%	0.05%	0.83%	10.24%	0.01%	0.00%	2.47%	0.00%	0.08%	3.77%	0.11%	80.26%	0.44%	0.03%	0.05%	0.03%	0.15%
64:F	0.01%	1.36%	0.00%	0.00%	81.73%	0.01%														