

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.09%	0.00%	0.09%	2.74%	0.00%	0.10%	3.94%	0.00%	2.75%	2.86%	0.09%	0.08%	2.82%	81.21%	2.90%	0.05%	0.09%	0.09%	0.05%	0.06%
2:S	0.91%	0.91%	0.00%	0.00%	0.96%	0.01%	0.01%	0.01%	0.00%	0.05%	0.00%	0.01%	1.99%	0.00%	0.02%	94.19%	0.61%	0.01%	0.01%	0.29%
3:A	86.56%	0.01%	2.58%	0.04%	0.01%	2.97%	0.00%	0.05%	0.00%	0.02%	0.00%	0.01%	0.42%	0.00%	0.01%	0.27%	0.82%	6.21%	0.00%	0.01%
4:L	0.01%	0.00%	0.00%	0.01%	0.01%	0.01%	0.00%	0.00%	0.01%	95.07%	0.40%	0.00%	1.81%	1.03%	0.83%	0.02%	0.02%	0.77%	0.01%	0.00%
5:T	3.75%	0.01%	0.01%	0.00%	0.01%	0.04%	0.01%	1.59%	0.02%	0.02%	0.02%	0.50%	2.25%	0.00%	0.05%	2.63%	89.01%	0.06%	0.00%	0.00%
6:Q	0.03%	0.00%	0.03%	1.55%	0.00%	0.05%	0.87%	0.00%	0.44%	2.40%	0.01%	0.00%	2.67%	87.64%	4.20%	0.01%	0.01%	0.03%	0.02%	0.00%
7:P	1.85%	0.08%	0.01%	0.00%	0.08%	0.02%	0.29%	0.03%	0.00%	0.74%	0.00%	0.04%	89.53%	0.01%	0.61%	4.57%	2.07%	0.05%	0.00%	0.02%
8:A	89.12%	0.01%	2.10%	0.04%	0.01%	2.13%	0.00%	0.04%	0.00%	0.02%	0.00%	0.02%	0.43%	0.00%	0.01%	0.25%	0.83%	4.99%	0.00%	0.01%
9:S	1.06%	0.97%	0.02%	0.00%	0.98%	0.02%	0.02%	0.01%	0.00%	0.09%	0.00%	0.01%	2.97%	0.00%	0.01%	92.78%	0.46%	0.03%	0.01%	0.56%
10:V	1.85%	0.00%	0.03%	2.83%	0.03%	1.03%	0.00%	0.18%	0.08%	4.99%	3.78%	0.00%	0.06%	0.06%	0.06%	0.02%	0.15%	84.82%	0.01%	0.00%
11:S	1.19%	0.86%	0.01%	0.00%	0.92%	0.01%	0.01%	0.01%	0.00%	0.05%	0.00%	0.01%	2.45%	0.00%	0.02%	93.44%	0.71%	0.01%	0.01%	0.29%
12:G	0.81%	0.00%	0.06%	3.87%	0.00%	92.52%	0.00%	0.00%	0.05%	0.03%	0.02%	0.00%	0.01%	0.04%	1.23%	0.01%	0.03%	0.95%	0.35%	0.00%
13:S	2.15%	0.99%	0.01%	0.00%	0.88%	0.02%	0.01%	0.03%	0.00%	0.07%	0.00%	0.01%	3.84%	0.00%	0.02%	90.20%	1.51%	0.03%	0.02%	0.23%
14:P	0.97%	0.04%	0.01%	0.00%	0.04%	0.02%	0.91%	0.04%	0.00%	1.87%	0.00%	0.02%	93.45%	0.05%	0.79%	1.11%	0.62%	0.03%	0.00%	0.01%
15:G	0.39%	0.01%	0.04%	0.99%	0.00%	95.45%	0.00%	0.01%	0.02%	0.01%	0.00%	0.00%	0.01%	0.01%	2.84%	0.05%	0.02%	0.16%	0.00%	0.00%
16:Q	0.01%	0.00%	0.02%	0.42%	0.00%	0.01%	4.20%	0.00%	0.34%	2.89%	0.01%	0.07%	1.61%	87.16%	3.17%	0.02%	0.01%	0.01%	0.01%	0.02%
17:S	1.42%	0.07%	0.00%	0.01%	0.05%	0.01%	0.00%	0.00%	0.00%	0.62%	0.01%	0.00%	2.49%	0.00%	0.01%	94.15%	0.77%	0.02%	0.34%	0.02%
18:I	0.08%	0.01%	0.02%	0.00%	0.96%	0.04%	0.01%	87.51%	0.06%	2.11%	1.66%	0.43%	0.04%	0.00%	0.27%	1.32%	1.83%	3.63%	0.00%	0.00%
19:T	3.30%	0.02%	0.02%	0.00%	0.05%	0.05%	0.02%	2.26%	0.02%	0.06%	0.02%	0.70%	2.23%	0.00%	0.20%	3.21%	87.71%	0.11%	0.00%	0.01%
20:I	0.12%	0.03%	0.03%	0.00%	2.88%	0.04%	0.02%	80.23%	0.11%	3.14%	3.15%	0.97%	0.08%	0.00%	0.10%	1.02%	2.73%	5.32%	0.00%	0.01%
21:S	1.43%	1.02%	0.02%	0.00%	1.08%	0.02%	0.04%	0.01%	0.00%	0.16%	0.00%	0.02%	3.82%	0.00%	0.03%	91.01%	0.62%	0.03%	0.02%	0.67%
22:C	0.04%	85.07%	0.12%	0.00%	1.52%	1.03%	0.25%	0.01%	0.00%	0.09%	0.00%	0.13%	0.07%	0.00%	0.92%	3.54%	0.02%	0.01%	1.11%	6.04%
23:T	3.63%	0.10%	0.06%	0.00%	0.07%	0.15%	0.03%	2.70%	0.05%	0.07%	0.02%	1.17%	5.33%	0.00%	0.13%	6.50%	79.78%	0.19%	0.00%	0.02%
24:G	1.04%	0.00%	0.17%	2.85%	0.00%	92.46%	0.00%	0.03%	0.05%	0.03%	0.00%	0.00%	0.03%	0.02%	2.70%	0.03%	0.06%	0.51%	0.00%	0.00%
25:T	4.66%	0.11%	0.27%	0.01%	0.27%	0.30%	0.13%	8.14%	0.15%	0.21%	0.13%	4.07%	1.78%	0.00%	0.94%	7.95%	70.21%	0.62%	0.00%	0.05%
26:S	0.12%	1.34%	0.16%	0.01%	0.05%	2.39%	0.21%	1.86%	0.49%	0.07%	0.05%	7.04%	0.10%	0.01%	25.81%	56.02%	4.05%	0.08%	0.02%	0.11%
27:S	0.13%	4.19%	0.15%	0.00%	0.07%	3.53%	0.12%	1.27%	0.06%	0.05%	0.01%	3.26%	0.14%	0.00%	5.14%	78.78%	2.90%	0.05%	0.04%	0.10%
28:D	1.46%	0.10%	72.78%	11.88%	0.10%	2.56%	3.40%	0.10%	0.20%	0.07%	0.00%	4.16%	0.06%	0.16%	0.10%	0.35%	0.14%	0.60%	0.00%	1.79%
29:V	2.26%	0.03%	0.95%	0.04%	3.46%	1.09%	0.05%	5.36%	0.00%	6.17%	0.05%	0.09%	0.28%	0.00%	0.03%	0.22%	0.30%	79.59%	0.00%	0.02%
30:G	0.92%	0.01%	0.19%	3.82%	0.00%	92.98%	0.00%	0.00%	0.06%	0.03%	0.02%	0.00%	0.01%	0.04%	0.73%	0.02%	0.04%	0.90%	0.22%	0.00%
31:S	0.18%	1.17%	0.39%	0.01%	0.03%	3.28%	0.20%	0.93%	0.11%	0.04%	0.01%	6.04%	0.10%	0.00%	3.90%	80.16%	3.31%	0.04%	0.02%	0.07%
32:Y	0.12%	7.27%	1.96%	0.05%	9.03%	0.09%	5.46%	0.05%	0.04%	0.67%	0.00%	1.40%	0.17%	0.26%	0.24%	8.11%	0.06%	0.07%	0.09%	64.84%
33:N	0.20%	0.16%	7.52%	0.34%	0.17%	0.33%	3.19%	2.78%	6.64%	0.18%	0.15%	68.44%	0.10%	0.15%	0.45%	4.44%	2.82%	0.16%	0.00%	1.79%
34:L	0.10%	0.03%	0.02%	0.00%	3.08%	0.03%	0.42%	1.41%	0.00%	86.26%	0.01%	0.02%	5.01%	0.02%	0.42%	0.23%	0.10%	2.84%	0.00%	0.01%
35:V	2.45%	0.01%	0.71%	0.02%	0.69%	1.19%	0.01%	1.08%	0.00%	1.36%	0.04%	0.00%	0.02%	0.00%	0.01%	0.02%	0.04%	92.35%	0.00%	0.00%
36:S	1.41%	0.97%	0.01%	0.00%	1.00%	0.02%	0.04%	0.01%	0.00%	0.15%	0.00%	0.02%	3.87%	0.00%	0.04%	91.17%	0.61%	0.03%	0.02%	0.63%
37:W	0.05%	10.12%	0.03%	0.11%	0.20%	6.35%	0.02%	0.00%	0.01%	0.48%	0.00%	0.01%	0.03%	0.03%	2.34%	0.91%	0.01%	0.04%	78.68%	0.58%
38:Y	0.07%	6.22%	5.28%	0.10%	3.10%	0.15%	6.01%	0.24%	0.52%	0.32%	0.00%	8.66%	0.07%	0.07%	0.23%	2.90%	0.12%	0.07%	0.05%	65.82%
39:Q	0.03%	0.00%	0.06%	1.37%	0.00%	0.04%	7.64%	0.03%	0.74%	1.70%	0.00%	0.06%	1.85%	84.27%	2.04%	0.02%	0.03%	0.03%	0.00%	0.07%
40:Q	0.05%	0.01%	0.13%	3.01%	0.01%	0.07%	5.46%	0.02%	2.90%	1.96%	0.08%	0.21%	1.23%	81.19%	3.18%	0.06%	0.06%	0.09%	0.14%	0.16%
41:H	0.08%	0.23%	3.57%	0.08%	0.16%	0.09%	64.22%	0.49%	1.12%	2.07%	0.01%	18.22%	1.00%	0.83%	2.97%	0.78%	0.27%	0.08%	0.01%	3.73%
42:P	0.93%	0.00%	0.00%	0.03%	0.00%	0.01%	0.03%	0.02%	0.01%	0.83%	0.00%	0.00%	93.61%	0.33%	0.47%	2.27%	1.44%	0.02%	0.00%	0.00%
43:G	0.77%	0.16%	1.79%	0.03%	0.01%	95.69%	0.02%	0.01%	0.00%	0.01%	0.00%	0.03%	0.01%	0.00%	0.27%	0.40%	0.01%	0.77%	0.00%	0.01%
44:K	0.12%	0.01%	0.17%	2.30%	0.00%	0.13%	0.11%	2.20%	74.92%	0.06%	0.20%	5.28%	0.08%	0.93%	6.29%	0.34%	6.75%	0.07%	0.00%	0.04%
45:A	66.65%	0.01%	6.80%	0.12%	0.03%	7.93%	0.03%	0.12%	0.00%	0.09%	0.00%	0.05%	0.37%	0.00%	0.02%	0.30%	0.88%	16.57%	0.00%	0.01%
46:P	0.28%	0.00%	0.00%	0.00%	0.01%	0.00%	0.51%	0.01%	0.00%	0.79%	0.00%	0.00%	97.13%	0.01%	0.34%	0.53%	0.37%	0.01%	0.00%	0.00%
47:K	0.12%	0.00%	0.14%	2.52%	0.00%	0.06%	0.13%	4.17%	75.52%	0.15%	0.19%	3.43%	0.10%	2.91%	5.38%	0.20%	4.85%	0.10%	0.00%	0.02%
48:L	0.18%	0.09%	0.04%	0.00%	8.28%	0.07%	0.45%	2.38%	0.00%	77.91%	0.03%	0.02%	2.29%	0.02%	0.80%	0.22%	0.09%	7.08%	0.00%	0.03%
49:M	0.12%	0.00%	0.00%	0.07%	0.11%	0.07%	0.00%	11.15%	2.55%	4.51%	68.80%	0.10%	0.07%	0.04%	3.89%	0.14%	4.73%	3.61%	0.04%	0.00%
50:I	0.27%	0.01%	0.07%	0.00%	1.05%	0.10%	0.04%	80.69%	0.08%	2.10%	0.97%	2.10%	0.14%	0.00%	0.08%	1.85%	7.08%	3.35%	0.00%	0.01%
51:Y	0.09%	6.44%	3.62%	0.10%	7.09%	0.10%	6.26%	0.07%	0.03%	0.37%	0.00%	2.46%	0.14%	0.23%	0.18%	6.46%	0.08%	0.08%	0.05%	66.14%
52:E	1.75%	0.00%	3.63%	87.32%	0.00%	2.89%	0.07%	0.00%	1.81%	0.04%	0.03%	0.09%	0.04%	1.40%	0.07%	0.02%	0.09%	0.71%	0.00%	0.03%
53:V	2.40%	0.00%	0.68%	0.02%	0.10%	0.85%	0.00%	0.42%	0.00%	0.28%	0.01%	0.00%	0.01%	0.00%	0.00%	0.01%	0.02%	95.18%	0.00%	0.00%
54:S	0.30%	1.54%	0.37%	0.01%	0.11%	2.21%	0.36%	5.49%	0.46%	0.14%	0.11%	12.52%	0.31%	0.02%	4.40%	61.62%	9.71%	0.17%	0.02%	0.14%
55:K	0.19%	0.00%	0.33%	7.75%	0.01%	0.31%	0.13%	0.25%	73.97%	0.23%	2.32%	3.26%	0.12%	3.44%	4.51%	0.24%	2.65%	0.13%	0.12%	0.04%
56:R	0.02%	0.15%	0.00%	0.03%	0.00%	2.72%	0.03%	0.00%	0.14%	0.46%	0.02%	0.00%	0.59%	1.03%	82.45%	0.12%	0.03%	0.02%	12.18%	0.00%
57:P	0.72%	0.00%	0.00%	0.00%	0.01%	0.00%	0.55%	0.00%	0.00%	0.25%	0.00%	0.04%	97.28%	0.01%	0.12%	0.75%	0.25%	0.00%	0.00%	0.00%
58:S	0.81%	0.02%	0.00%	0.02%	0.06%	0.00%	0.00%	0.01%	0.00%	1.07%	0.00%	0.00%	2.50%	0.00%	0.01%	95.01%	0.45%	0.01%	0.01%	0.01%
59:G	0.23%	0.01%	0.06%	1.05%	0.00%	97.51%	0.00%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.01%	0.70%	0.02%	0.00%	0.27%	0.11%	0.00%
60:V	6.57%	0.03%	2.23%	0.04%	1.40%	3.50%	0.11%	12.00%	0.01%	6.04%	0.13%	0.31%	0.33%	0.00%	0.04%	0.29%	0.88%	66.04%	0.00%	0.03%
61:S	1.42%	7.50%	0.06%	0.00%	7.13%	0.05%	0.09%	0.04%	0.00%	0.68%	0.00%	0.04%	1.22%	0.00%	0.11%	79.03%	0.37%	0.08%	0.10%	2.06%
62:N	0.27%	0.25%	6.31%	0.14%	0.22%	0.41%	3.02%	3.73%	1.56%	0.22%	0.05%	68.44%	0.18%	0.09%	0.41%	8.20%	4.67%	0.20%	0.00%	1.65%
63:R	0.08%	1.41%	0.15%	0.00%	0.07%	0.90%	11.05%	0.02%	0.00%	2.71%	0.00%	0.10%	4.11%	0.13%	78.46%	0.49%	0.04%	0.06%	0.03%	0.19%
64:F	0.01%	1.46%	0.01%	0.00%	80.01%	0.01%</														