

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.11%	0.00%	0.02%	3.05%	0.00%	0.11%	0.35%	0.00%	3.05%	3.12%	0.12%	0.02%	3.11%	83.42%	3.18%	0.06%	0.11%	0.11%	0.06%	0.01%
2:T	1.09%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.74%	0.01%	0.01%	0.01%	0.24%	0.67%	0.00%	0.02%	0.92%	96.25%	0.02%	0.00%	0.00%
3:V	2.25%	0.00%	0.06%	1.74%	0.04%	1.59%	0.00%	0.27%	0.09%	6.77%	3.09%	0.00%	0.10%	0.04%	0.13%	0.06%	0.23%	83.52%	0.03%	0.00%
4:V	3.02%	0.00%	0.03%	2.49%	0.01%	2.85%	0.00%	0.16%	0.10%	4.33%	4.76%	0.00%	0.05%	0.02%	0.09%	0.05%	0.18%	81.81%	0.03%	0.00%
5:T	4.02%	0.01%	0.02%	0.00%	0.02%	0.06%	0.01%	1.74%	0.03%	0.03%	0.02%	0.56%	2.46%	0.00%	0.07%	2.97%	87.91%	0.07%	0.00%	0.00%
6:Q	0.04%	0.00%	0.06%	1.72%	0.00%	0.05%	2.28%	0.00%	0.49%	1.41%	0.01%	0.01%	2.99%	88.45%	2.40%	0.02%	0.02%	0.02%	0.02%	0.01%
7:E	1.32%	0.00%	2.70%	90.13%	0.00%	3.74%	0.02%	0.00%	0.89%	0.02%	0.03%	0.04%	0.01%	0.35%	0.05%	0.01%	0.03%	0.66%	0.00%	0.01%
8:P	8.69%	0.05%	0.04%	0.00%	0.09%	0.02%	0.44%	0.06%	0.01%	0.24%	0.00%	0.12%	64.51%	0.01%	0.11%	17.98%	7.52%	0.04%	0.00%	0.07%
9:S	0.89%	0.05%	0.00%	0.03%	0.07%	0.01%	0.00%	0.01%	0.01%	0.67%	0.00%	0.00%	2.79%	0.01%	0.01%	94.92%	0.50%	0.01%	0.02%	0.02%
10:L	0.04%	0.00%	0.00%	0.04%	0.02%	0.03%	0.00%	0.02%	0.01%	92.68%	1.41%	0.00%	1.11%	0.52%	0.63%	0.05%	0.03%	3.41%	0.02%	0.00%
11:T	4.20%	0.01%	0.01%	0.00%	0.01%	0.03%	0.00%	0.68%	0.01%	0.02%	0.01%	0.24%	2.51%	0.00%	0.03%	1.59%	90.60%	0.04%	0.00%	0.00%
12:V	1.50%	0.00%	0.02%	1.18%	0.04%	1.02%	0.00%	0.14%	0.04%	6.91%	3.45%	0.00%	0.09%	0.04%	0.05%	0.04%	0.10%	85.36%	0.02%	0.00%
13:S	1.63%	1.35%	0.02%	0.00%	1.35%	0.02%	0.04%	0.02%	0.00%	0.13%	0.00%	0.03%	3.02%	0.00%	0.02%	90.70%	0.85%	0.02%	0.03%	0.75%
14:P	0.39%	0.00%	0.00%	0.01%	0.00%	0.00%	0.04%	0.01%	0.00%	0.93%	0.00%	0.00%	96.25%	0.35%	0.52%	0.92%	0.57%	0.00%	0.00%	0.00%
15:G	0.28%	0.00%	0.03%	0.85%	0.00%	93.47%	0.00%	0.02%	0.04%	0.02%	0.00%	0.00%	0.02%	0.01%	4.99%	0.10%	0.04%	0.13%	0.00%	0.00%
16:G	0.88%	0.00%	0.04%	4.43%	0.00%	92.33%	0.00%	0.00%	0.05%	0.06%	0.03%	0.00%	0.02%	0.04%	0.82%	0.02%	0.02%	1.09%	0.18%	0.00%
17:T	1.99%	0.00%	0.00%	0.03%	0.00%	0.02%	0.00%	0.66%	0.45%	0.03%	0.04%	0.03%	1.46%	0.01%	0.50%	1.29%	93.47%	0.02%	0.00%	0.00%
18:V	3.15%	0.01%	0.94%	0.03%	1.16%	1.77%	0.01%	2.85%	0.00%	3.65%	0.04%	0.02%	0.07%	0.00%	0.03%	0.05%	0.08%	86.14%	0.00%	0.00%
19:T	3.38%	0.05%	0.02%	0.00%	0.04%	0.07%	0.01%	1.33%	0.01%	0.06%	0.03%	0.37%	2.96%	0.00%	0.09%	5.15%	86.35%	0.08%	0.00%	0.01%
20:L	0.05%	0.02%	0.01%	0.00%	0.96%	0.02%	0.48%	0.24%	0.00%	92.63%	0.00%	0.00%	2.81%	0.02%	1.09%	0.04%	0.02%	1.62%	0.00%	0.00%
21:T	3.54%	0.03%	0.03%	0.00%	0.06%	0.06%	0.02%	2.85%	0.07%	0.09%	0.16%	0.76%	2.46%	0.00%	0.15%	3.62%	85.90%	0.18%	0.00%	0.01%
22:C	0.05%	81.98%	0.07%	0.00%	2.21%	1.20%	0.21%	0.03%	0.00%	0.23%	0.00%	0.09%	0.13%	0.00%	2.71%	6.13%	0.05%	0.02%	1.46%	3.43%
23:A	82.94%	0.06%	1.64%	0.04%	0.12%	3.42%	0.05%	0.27%	0.00%	0.21%	0.00%	0.12%	1.61%	0.00%	0.05%	1.23%	3.69%	4.49%	0.00%	0.03%
24:S	1.81%	4.85%	0.15%	0.00%	5.44%	0.06%	0.18%	0.03%	0.00%	0.38%	0.00%	0.12%	1.66%	0.00%	0.11%	81.64%	0.35%	0.08%	0.02%	3.12%
25:S	0.15%	1.45%	0.19%	0.01%	0.05%	2.51%	0.25%	2.03%	0.55%	0.08%	0.05%	7.43%	0.12%	0.01%	26.19%	54.29%	4.36%	0.09%	0.03%	0.14%
26:T	4.05%	0.13%	0.10%	0.00%	0.10%	0.21%	0.04%	3.76%	0.07%	0.13%	0.04%	1.55%	5.43%	0.00%	0.18%	7.28%	76.60%	0.29%	0.00%	0.02%
27:G	1.04%	0.00%	0.13%	2.54%	0.00%	92.55%	0.00%	0.03%	0.06%	0.02%	0.00%	0.00%	0.03%	0.02%	3.04%	0.04%	0.07%	0.41%	0.01%	0.00%
28:A	58.66%	0.01%	1.02%	21.78%	0.01%	4.52%	0.02%	0.39%	0.73%	0.54%	0.02%	0.05%	1.05%	0.25%	0.39%	2.46%	3.85%	4.24%	0.00%	0.00%
29:V	3.19%	0.01%	0.93%	0.03%	1.01%	1.77%	0.01%	2.46%	0.00%	3.10%	0.04%	0.02%	0.06%	0.00%	0.03%	0.05%	0.07%	87.22%	0.00%	0.00%
30:T	3.64%	0.03%	0.02%	0.00%	0.05%	0.05%	0.02%	2.40%	0.03%	0.07%	0.05%	0.71%	2.49%	0.00%	0.24%	3.43%	86.61%	0.14%	0.00%	0.01%
31:S	0.10%	1.53%	0.12%	0.00%	0.04%	2.43%	0.10%	1.31%	0.16%	0.04%	0.01%	3.49%	0.09%	0.01%	5.55%	81.44%	3.43%	0.05%	0.02%	0.05%
32:G	4.19%	1.33%	6.17%	0.25%	0.06%	81.44%	0.20%	0.07%	0.01%	0.07%	0.00%	0.32%	0.08%	0.00%	1.22%	2.93%	0.20%	1.30%	0.02%	0.13%
33:Y	0.08%	7.19%	3.48%	0.08%	4.34%	0.13%	7.24%	0.06%	0.09%	0.53%	0.00%	2.06%	0.16%	0.11%	0.25%	3.55%	0.06%	0.06%	0.10%	70.39%
34:Y	0.07%	7.46%	1.95%	0.02%	7.87%	0.07%	3.88%	0.08%	0.02%	0.41%	0.00%	2.00%	0.21%	0.04%	0.21%	7.59%	0.08%	0.03%	0.07%	67.93%
35:P	1.39%	0.00%	0.00%	0.14%	0.01%	0.06%	0.07%	0.04%	0.02%	2.26%	0.00%	0.00%	90.17%	0.66%	2.43%	1.65%	0.99%	0.10%	0.00%	0.00%
36:N	0.08%	0.24%	5.41%	0.45%	0.15%	0.12%	4.83%	1.66%	9.40%	0.11%	0.24%	66.45%	0.09%	0.49%	0.65%	2.94%	2.30%	0.09%	0.01%	4.30%
37:W	0.01%	5.16%	0.01%	0.03%	0.11%	1.52%	0.01%	0.00%	0.01%	0.63%	0.01%	0.01%	0.03%	0.03%	2.44%	0.88%	0.01%	0.01%	88.79%	0.30%
38:F	0.05%	1.96%	0.02%	0.00%	76.74%	0.04%	0.02%	1.99%	0.00%	13.45%	0.03%	0.03%	0.12%	0.00%	0.06%	2.10%	0.05%	2.91%	0.05%	0.37%
39:Q	0.03%	0.00%	0.06%	0.50%	0.01%	0.02%	5.99%	0.01%	0.52%	1.72%	0.02%	0.08%	2.06%	85.90%	2.85%	0.04%	0.04%	0.02%	0.03%	0.12%
40:Q	0.10%	0.00%	0.12%	4.36%	0.00%	0.14%	1.04%	0.02%	21.36%	1.27%	0.54%	0.33%	0.83%	65.52%	3.55%	0.10%	0.41%	0.09%	0.20%	0.03%
41:K	0.13%	0.00%	0.12%	1.93%	0.00%	0.17%	0.06%	1.57%	76.71%	0.04%	0.16%	5.21%	0.08%	1.15%	7.36%	0.37%	4.92%	0.03%	0.00%	0.01%
42:P	3.58%	0.42%	0.11%	0.01%	0.34%	0.26%	1.39%	0.29%	0.01%	3.90%	0.01%	0.11%	76.13%	0.09%	3.02%	6.13%	3.66%	0.43%	0.01%	0.10%
43:G	0.42%	0.01%	0.05%	1.09%	0.00%	94.96%	0.00%	0.01%	0.03%	0.01%	0.00%	0.00%	0.01%	0.01%	3.13%	0.06%	0.02%	0.18%	0.00%	0.00%
44:Q	0.02%	0.00%	0.05%	0.66%	0.00%	0.02%	5.76%	0.02%	0.44%	1.88%	0.00%	0.11%	1.78%	86.06%	3.08%	0.03%	0.03%	0.03%	0.00%	0.03%
45:A	53.18%	0.00%	0.88%	20.33%	0.01%	3.87%	0.01%	0.62%	0.41%	0.45%	0.03%	0.02%	3.91%	0.14%	0.23%	2.93%	9.46%	3.52%	0.00%	0.00%
46:P	1.14%	0.03%	0.03%	0.00%	0.05%	0.03%	1.51%	0.07%	0.00%	2.34%	0.00%	0.05%	90.10%	0.04%	0.99%	2.21%	1.30%	0.08%	0.00%	0.03%
47:R	0.02%	0.01%	0.00%	0.04%	0.00%	2.02%	0.00%	0.02%	1.53%	0.02%	0.48%	0.03%	0.02%	0.05%	93.65%	0.60%	0.61%	0.01%	0.89%	0.00%
48:A	34.43%	0.01%	0.49%	9.65%	0.01%	0.62%	0.01%	0.15%	0.54%	0.24%	0.01%	0.02%	2.69%	0.08%	0.12%	37.84%	12.66%	0.42%	0.00%	0.00%
49:L	0.05%	0.00%	0.00%	0.03%	0.11%	0.03%	0.04%	0.16%	0.01%	91.78%	1.34%	0.00%	1.45%	0.59%	0.67%	0.06%	0.03%	3.60%	0.02%	0.00%
50:I	0.32%	0.02%	0.09%	0.00%	1.18%	0.12%	0.04%	78.85%	0.09%	2.34%	1.07%	2.24%	0.18%	0.00%	0.09%	2.01%	7.69%	3.66%	0.00%	0.01%
51:Y	0.14%	7.60%	3.73%	0.16%	9.37%	0.13%	6.55%	0.09%	0.12%	0.76%	0.00%	2.50%	0.20%	0.22%	0.27%	8.54%	0.10%	0.12%	0.15%	59.24%
52:S	0.79%	2.37%	0.83%	0.07%	0.41%	5.13%	0.37%	5.68%	0.40%	0.34%	0.12%	9.47%	0.32%	0.01%	4.96%	58.19%	9.81%	0.35%	0.09%	0.27%
53:T	6.80%	0.01%	0.02%	0.85%	0.02%	0.47%	0.00%	3.99%	1.29%	0.73%	0.18%	0.10%	3.24%	0.05%	5.10%	3.98%	72.89%	0.28%	0.00%	0.00%
54:S	0.12%	1.53%	0.39%	0.03%	0.11%	4.08%	0.54%	2.70%	0.77%	0.14%	0.05%	8.41%	0.14%	0.03%	26.26%	50.08%	3.94%	0.15%	0.11%	0.42%
55:N	0.22%	0.13%	4.47%	0.26%	0.06%	0.26%	3.05%	2.11%	8.79%	0.09%	0.08%	63.74%	0.11%	0.16%	1.83%	7.17%	5.73%	0.09%	0.00%	1.63%
56:K	0.10%	0.01%	0.15%	2.30%	0.01%	0.14%	0.20%	4.35%	74.00%	0.18%	0.29%	5.05%	0.06%	1.70%	5.73%	0.30%	5.28%	0.09%	0.00%	0.05%
57:H	0.05%	0.29%	2.36%	0.08%	0.21%	0.04%	80.62%	0.06%	0.24%	1.28%	0.00%	3.63%	1.36%	2.05%	2.05%	0.26%	0.09%	0.06%	0.01%	5.23%
58:S	0.31%	1.11%	0.01%	0.00%	1.19%	0.02%	0.03%	0.02%	0.00%	0.13%	0.00%	0.01%	1.80%	0.00%	0.02%	93.82%	0.75%	0.01%	0.02%	0.75%
59:W	0.04%	0.61%	0.00%	0.14%	0.01%	7.41%	0.00%	0.00%	0.02%	0.83%	0.01%	0.00%	0.03%	0.04%	2.68%	0.62%	0.01%	0.04%	87.49%	0.02%
60:T	3.58%	0.01%	0.02%	0.00%	0.01%	0.04%	0.01%	1.45%	0.10%	0.02%	0.03%	1.17%	1.97%	0.00%	0.14%	1.81%	89.60%	0.04%	0.00%	0.01%
61:P	0.42%	0.01%	0.01%	0.00%	0.01%	0.01%	0.44%	0.01%	0.00%	1.13%	0.00%	0.01%	95.48%	0.02%	0.83%	0.99%	0.62%	0.02%	0.00%	0.00%
62:A	85.23%	0.01%	2.82%	0.04%	0.02%	3.25%	0.00%	0.06%	0.00%	0.03%	0.00%	0.01%	0.47%	0.00%	0.01%	0.30%	0.88%	6.85%	0.00%	0.01%
63:R	0.01%	0.04%	0.00%	0.01%	0.00%	0.18%	0.86%	0.00%	0.02%	1.46%	0.01%	0.00%	2.34%	3.37%	91.37%	0.04%	0.01%	0.01%	0.27%	0.00%
64:F	0.08%	1.89%	0.04%	0.00%	79.42%	0.05%														