

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.14%	0.00%	0.14%	3.22%	0.00%	0.14%	2.63%	0.01%	3.25%	3.47%	0.13%	0.12%	3.34%	79.40%	3.52%	0.08%	0.14%	0.14%	0.07%	0.06%
2:V	2.89%	0.00%	0.60%	0.05%	0.12%	1.26%	0.00%	0.54%	0.00%	0.40%	0.04%	0.01%	0.02%	0.00%	0.01%	0.02%	0.04%	94.01%	0.00%	0.00%
3:Q	0.03%	0.01%	0.11%	0.49%	0.01%	0.02%	7.75%	0.01%	0.46%	2.07%	0.02%	0.10%	2.44%	82.84%	3.33%	0.06%	0.04%	0.02%	0.02%	0.18%
4:L	0.30%	0.00%	0.00%	0.18%	0.23%	0.13%	0.02%	0.28%	0.18%	81.14%	4.20%	0.00%	1.78%	0.62%	0.62%	0.37%	0.21%	9.64%	0.08%	0.00%
5:V	2.83%	0.00%	0.05%	2.09%	0.09%	1.85%	0.00%	1.03%	0.18%	4.87%	4.44%	0.01%	0.10%	0.06%	0.13%	0.05%	0.27%	81.93%	0.01%	0.00%
6:Q	0.07%	0.00%	0.04%	0.41%	0.01%	0.07%	4.61%	0.01%	1.92%	5.86%	0.09%	0.18%	3.62%	78.06%	4.36%	0.15%	0.09%	0.12%	0.31%	0.04%
7:S	1.09%	1.19%	0.01%	0.00%	1.20%	0.02%	0.01%	0.02%	0.00%	0.09%	0.00%	0.01%	2.41%	0.00%	0.03%	92.73%	0.80%	0.02%	0.02%	0.36%
8:G	0.29%	0.00%	0.02%	1.36%	0.00%	95.88%	0.00%	0.00%	0.02%	0.01%	0.01%	0.00%	0.00%	0.02%	1.57%	0.01%	0.01%	0.33%	0.45%	0.00%
9:A	79.39%	0.02%	0.30%	0.01%	0.02%	0.74%	0.02%	0.13%	0.00%	0.07%	0.00%	0.04%	5.14%	0.00%	0.03%	2.18%	11.05%	0.85%	0.00%	0.01%
10:E	2.06%	0.00%	4.42%	83.92%	0.00%	3.46%	0.11%	0.01%	2.21%	0.06%	0.05%	0.14%	0.08%	2.25%	0.13%	0.03%	0.14%	0.87%	0.01%	0.04%
11:V	3.39%	0.00%	0.07%	2.75%	0.03%	3.09%	0.00%	0.38%	0.11%	4.92%	5.39%	0.00%	0.04%	0.02%	0.12%	0.06%	0.17%	79.42%	0.03%	0.00%
12:K	0.11%	0.00%	0.10%	3.02%	0.00%	0.22%	0.04%	0.23%	76.63%	0.09%	3.97%	1.40%	0.05%	2.15%	8.54%	0.15%	3.16%	0.10%	0.05%	0.00%
13:K	0.09%	0.00%	0.07%	3.07%	0.00%	0.28%	0.02%	0.13%	79.65%	0.09%	3.61%	0.67%	0.04%	1.82%	7.51%	0.08%	2.73%	0.10%	0.06%	0.00%
14:P	2.38%	0.11%	0.02%	0.00%	0.11%	0.02%	0.31%	0.04%	0.00%	0.86%	0.00%	0.05%	86.58%	0.02%	0.71%	5.96%	2.72%	0.08%	0.00%	0.02%
15:G	1.00%	0.01%	0.10%	4.73%	0.00%	90.74%	0.00%	0.00%	0.08%	0.05%	0.04%	0.00%	0.02%	0.06%	1.51%	0.02%	0.05%	1.16%	0.43%	0.00%
16:S	1.26%	0.39%	0.03%	0.00%	0.78%	0.01%	0.03%	0.01%	0.00%	0.09%	0.00%	0.04%	2.93%	0.00%	0.01%	93.20%	0.62%	0.02%	0.02%	0.55%
17:S	0.98%	0.05%	0.00%	0.03%	0.06%	0.01%	0.00%	0.01%	0.00%	1.33%	0.00%	0.00%	3.11%	0.01%	0.02%	93.74%	0.58%	0.01%	0.03%	0.02%
18:V	1.99%	0.00%	0.05%	1.72%	0.02%	1.50%	0.00%	0.33%	0.05%	5.33%	3.74%	0.00%	0.06%	0.03%	0.06%	0.03%	0.10%	84.97%	0.01%	0.00%
19:K	0.05%	0.00%	0.14%	3.26%	0.00%	0.08%	0.08%	0.11%	86.00%	0.03%	0.54%	3.58%	0.03%	2.26%	2.14%	0.24%	1.42%	0.02%	0.01%	0.01%
20:V	4.67%	0.00%	1.86%	0.05%	0.12%	2.60%	0.01%	0.51%	0.00%	0.38%	0.05%	0.02%	0.02%	0.00%	0.01%	0.04%	0.05%	89.60%	0.00%	0.00%
21:S	1.73%	1.16%	0.02%	0.00%	1.22%	0.03%	0.06%	0.02%	0.00%	0.22%	0.00%	0.03%	4.67%	0.00%	0.06%	89.17%	0.76%	0.04%	0.03%	0.77%
22:C	0.06%	79.94%	0.19%	0.00%	1.70%	1.35%	0.37%	0.01%	0.01%	0.32%	0.00%	0.19%	0.11%	0.01%	1.18%	4.39%	0.03%	0.02%	3.19%	6.91%
23:K	0.47%	0.00%	0.04%	3.96%	0.00%	0.24%	0.02%	0.06%	68.43%	0.17%	3.62%	0.55%	0.33%	2.06%	8.50%	0.25%	11.09%	0.14%	0.07%	0.01%
24:A	69.08%	0.03%	0.56%	0.02%	0.03%	1.10%	0.03%	0.20%	0.00%	0.08%	0.00%	0.09%	7.40%	0.00%	0.03%	3.67%	16.74%	0.94%	0.00%	0.01%
25:S	1.76%	7.14%	0.05%	0.00%	5.91%	0.06%	0.08%	0.05%	0.00%	0.42%	0.00%	0.05%	1.92%	0.00%	0.06%	80.25%	0.49%	0.11%	0.11%	1.55%
26:G	1.14%	0.00%	0.07%	2.84%	0.00%	91.68%	0.00%	0.03%	0.08%	0.03%	0.00%	0.00%	0.03%	0.03%	3.45%	0.08%	0.08%	0.45%	0.01%	0.00%
27:G	1.04%	0.41%	2.18%	0.42%	0.01%	92.52%	0.04%	0.03%	0.02%	0.02%	0.00%	0.05%	0.03%	0.01%	1.70%	0.48%	0.05%	0.96%	0.00%	0.04%
28:T	4.30%	0.05%	0.07%	0.00%	0.10%	0.07%	0.04%	3.55%	0.09%	0.07%	0.19%	1.20%	1.66%	0.00%	0.21%	4.79%	83.37%	0.18%	0.00%	0.03%
29:F	0.03%	2.27%	0.01%	0.00%	81.59%	0.02%	0.04%	0.33%	0.00%	12.15%	0.01%	0.01%	0.15%	0.00%	0.05%	1.98%	0.01%	0.84%	0.03%	0.47%
30:S	0.21%	2.05%	0.36%	0.02%	0.08%	4.20%	0.41%	2.20%	0.72%	0.13%	0.08%	7.77%	0.18%	0.02%	29.94%	46.51%	4.72%	0.18%	0.05%	0.18%
31:S	0.23%	1.39%	0.53%	0.03%	0.08%	2.48%	0.32%	2.48%	0.84%	0.07%	0.16%	10.08%	0.11%	0.01%	13.90%	61.48%	5.38%	0.13%	0.08%	0.21%
32:Y	0.06%	7.36%	1.47%	0.06%	8.08%	0.08%	5.06%	0.14%	0.13%	0.58%	0.00%	2.80%	0.20%	0.16%	0.25%	8.21%	0.16%	0.07%	0.08%	65.06%
33:A	72.34%	0.19%	1.14%	0.34%	0.26%	2.18%	0.10%	0.83%	0.01%	0.46%	0.02%	0.20%	4.67%	0.01%	0.27%	3.76%	10.19%	2.97%	0.00%	0.06%
34:I	0.29%	0.13%	0.09%	0.01%	8.24%	0.13%	0.05%	66.95%	0.08%	8.84%	2.08%	0.93%	0.21%	0.00%	0.32%	1.09%	2.08%	8.43%	0.00%	0.04%
35:S	0.28%	2.11%	0.51%	0.02%	0.10%	4.00%	0.40%	2.35%	1.05%	0.13%	0.18%	9.84%	0.17%	0.02%	15.23%	57.50%	5.52%	0.17%	0.13%	0.28%
36:W	0.00%	2.27%	0.00%	0.00%	0.03%	0.81%	0.00%	0.00%	0.00%	0.44%	0.00%	0.00%	0.01%	0.01%	3.61%	0.50%	0.00%	0.00%	92.24%	0.06%
37:V	2.74%	0.00%	0.06%	1.96%	0.04%	1.83%	0.00%	0.47%	0.17%	4.23%	3.89%	0.01%	0.13%	0.07%	0.11%	0.06%	0.23%	83.99%	0.01%	0.00%
38:R	0.01%	0.09%	0.00%	0.02%	0.00%	0.40%	0.09%	0.00%	0.07%	0.24%	0.00%	0.00%	0.86%	0.65%	97.09%	0.06%	0.01%	0.00%	0.38%	0.00%
39:Q	0.02%	0.00%	0.01%	0.56%	0.00%	0.02%	0.48%	0.00%	0.45%	0.69%	0.00%	0.01%	1.24%	93.94%	2.54%	0.02%	0.01%	0.01%	0.01%	0.00%
40:A	95.54%	0.00%	0.22%	0.05%	0.00%	0.83%	0.00%	0.02%	0.00%	0.00%	0.00%	0.01%	0.58%	0.00%	0.00%	0.39%	1.54%	0.79%	0.00%	0.00%
41:P	0.44%	0.02%	0.01%	0.00%	0.01%	0.01%	0.44%	0.01%	0.00%	1.17%	0.00%	0.01%	95.19%	0.05%	0.85%	1.09%	0.67%	0.02%	0.00%	0.01%
42:G	0.49%	0.01%	0.06%	1.23%	0.00%	94.32%	0.00%	0.01%	0.03%	0.01%	0.00%	0.00%	0.00%	0.01%	3.50%	0.07%	0.03%	0.20%	0.01%	0.00%
43:Q	0.02%	0.01%	0.10%	0.66%	0.01%	0.02%	16.30%	0.03%	0.48%	2.15%	0.00%	0.35%	1.93%	74.15%	3.53%	0.06%	0.04%	0.05%	0.00%	0.11%
44:G	0.34%	0.04%	0.16%	1.34%	0.00%	96.21%	0.00%	0.00%	0.01%	0.01%	0.01%	0.00%	0.01%	0.01%	1.16%	0.12%	0.02%	0.34%	0.22%	0.00%
45:L	0.03%	0.01%	0.01%	0.00%	1.20%	0.01%	0.53%	0.66%	0.00%	89.74%	0.01%	0.01%	5.62%	0.04%	0.65%	0.06%	0.04%	1.38%	0.00%	0.01%
46:E	2.29%	0.00%	9.34%	78.06%	0.00%	3.71%	0.11%	0.01%	2.70%	0.07%	0.08%	0.12%	0.08%	2.12%	0.15%	0.03%	0.16%	0.95%	0.01%	0.03%
47:W	0.04%	4.48%	0.01%	0.10%	0.10%	2.05%	0.01%	0.00%	0.12%	1.08%	0.04%	0.01%	0.05%	0.03%	5.10%	1.73%	0.05%	0.05%	84.79%	0.17%
48:M	0.38%	0.00%	0.00%	0.22%	0.01%	0.15%	0.00%	1.11%	2.88%	6.50%	72.13%	0.01%	0.13%	0.09%	2.57%	0.07%	4.34%	9.39%	0.02%	0.00%
49:G	3.32%	0.01%	0.09%	5.36%	0.00%	83.92%	0.00%	0.09%	0.15%	0.07%	0.00%	0.00%	0.09%	0.04%	5.73%	0.18%	0.23%	0.72%	0.00%	0.00%
50:G	1.03%	0.05%	0.40%	4.44%	0.00%	90.44%	0.01%	0.01%	0.07%	0.07%	0.03%	0.01%	0.03%	0.05%	1.83%	0.11%	0.04%	1.20%	0.16%	0.00%
51:I	0.12%	0.02%	0.03%	0.00%	1.39%	0.06%	0.01%	85.19%	0.07%	2.41%	1.40%	0.58%	0.06%	0.00%	0.39%	1.55%	2.37%	4.33%	0.00%	0.01%
52:I	0.20%	0.06%	0.05%	0.00%	3.11%	0.10%	0.03%	76.64%	0.10%	5.04%	2.16%	0.70%	0.14%	0.00%	0.24%	1.11%	2.97%	7.32%	0.00%	0.01%
53:P	0.69%	0.04%	0.01%	0.00%	0.03%	0.02%	0.29%	0.03%	0.00%	0.77%	0.00%	0.01%	94.18%	0.02%	0.58%	2.18%	1.12%	0.04%	0.00%	0.01%
54:I	0.34%	0.11%	0.06%	0.02%	7.78%	0.13%	0.04%	63.18%	0.16%	9.10%	5.67%	0.39%	0.32%	0.01%	0.24%	0.93%	3.22%	8.26%	0.01%	0.02%
55:L	0.12%	0.05%	0.04%	0.00%	3.81%	0.06%	0.50%	1.80%	0.00%	82.74%	0.03%	0.04%	6.10%	0.04%	0.57%	0.40%	0.16%	3.51%	0.00%	0.02%
56:G	8.59%	0.61%	13.99%	0.95%	0.11%	68.34%	0.14%	0.21%	0.02%	0.16%	0.00%	0.25%	0.38%	0.01%	0.70%	1.79%	0.87%	2.78%	0.02%	0.09%
57:I	0.61%	0.01%	0.01%	0.26%	0.53%	0.18%	0.01%	61.03%	1.93%	14.42%	5.44%	0.12%	0.47%	0.12%	1.29%	0.69%	7.58%	5.30%	0.01%	0.00%
58:A	48.68%	0.00%	1.00%	21.38%	0.01%	4.13%	0.02%	0.79%	0.33%	0.67%	0.04%	0.03%	3.68%	0.36%	0.63%	5.57%	8.84%	3.82%	0.00%	0.01%
59:N	0.09%	0.29%	6.01%	0.50%	0.19%	0.17%	5.22%	1.88%	6.80%	0.13%	0.19%	67.21%	0.10%	0.34%	0.67%	3.25%	2.39%	0.12%	0.01%	4.46%
60:Y	0.04%	8.01%	1.83%	0.03%	4.50%	0.22%	4.97%	0.05%	0.06%	0.51%	0.00%	2.62%	0.13%	0.11%	0.25%	4.28%	0.10%	0.04%	0.03%	72.22%
61:A	65.13%	0.00%	0.22%	6.18%	0.00%	1.29%	0.01%	0.31%	0.22%	0.21%	0.02%	0.01%	5.62%	0.11%	0.22%	3.74%	15.65%	1.06%	0.00%	0.00%
62:Q	0.06%	0.00%	0.10%	3.75%	0.00%	0.09%	1.63%	0.00%	1.13%	1.92%	0.04%	0.02%	1.47%	86.04%	3.59%	0.02%	0.02%	0.07%	0.02%	0.02%
63:K	0.14%	0.00%	0.15%	2.88%	0.00%	0.20%	0.12%	0.56%	76.58%	0.12%	3.11%	6.15%	0.08%	1.57%	4.18%	0.43%	3.58%	0.11%	0.03%	0.02%
64:F	0.07%	2.18%	0.01%	0.00%	75.43															