

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.24%	0.01%	0.23%	4.04%	0.01%	0.24%	3.45%	0.02%	4.13%	4.45%	0.22%	0.22%	4.37%	72.97%	4.56%	0.14%	0.25%	0.23%	0.12%	0.10%
2:V	3.74%	0.01%	0.10%	2.76%	0.18%	2.43%	0.00%	1.77%	0.32%	6.32%	5.60%	0.02%	0.13%	0.08%	0.25%	0.10%	0.45%	75.72%	0.02%	0.00%
3:Q	0.04%	0.02%	0.15%	0.88%	0.02%	0.07%	9.63%	0.05%	3.95%	2.16%	0.07%	0.60%	1.57%	76.90%	3.32%	0.10%	0.14%	0.06%	0.18%	0.10%
4:L	0.52%	0.01%	0.01%	0.30%	0.39%	0.24%	0.02%	0.48%	0.31%	75.76%	5.15%	0.01%	2.16%	0.74%	0.95%	0.65%	0.34%	11.80%	0.15%	0.00%
5:V	3.61%	0.01%	0.10%	2.74%	0.15%	2.45%	0.01%	1.58%	0.30%	6.26%	5.33%	0.02%	0.19%	0.10%	0.24%	0.10%	0.49%	76.31%	0.02%	0.00%
6:Q	0.12%	0.01%	0.07%	0.59%	0.01%	0.13%	5.76%	0.02%	2.65%	7.45%	0.14%	0.32%	4.61%	71.41%	5.50%	0.24%	0.18%	0.21%	0.52%	0.06%
7:S	1.43%	1.59%	0.01%	0.00%	1.60%	0.03%	0.03%	0.03%	0.00%	0.16%	0.00%	0.02%	3.27%	0.00%	0.05%	90.07%	1.15%	0.04%	0.03%	0.48%
8:G	0.41%	0.01%	0.04%	1.92%	0.00%	94.31%	0.00%	0.00%	0.04%	0.03%	0.02%	0.00%	0.01%	0.03%	2.07%	0.02%	0.03%	0.45%	0.60%	0.00%
9:A	73.19%	0.03%	0.36%	0.02%	0.04%	0.94%	0.04%	0.23%	0.00%	0.13%	0.00%	0.07%	6.70%	0.00%	0.06%	2.90%	14.18%	1.08%	0.00%	0.02%
10:E	2.62%	0.00%	5.67%	78.85%	0.00%	4.61%	0.19%	0.02%	2.77%	0.11%	0.09%	0.24%	0.15%	2.88%	0.23%	0.06%	0.25%	1.17%	0.02%	0.07%
11:V	4.37%	0.00%	0.13%	3.54%	0.05%	3.89%	0.00%	0.65%	0.18%	6.33%	6.56%	0.01%	0.09%	0.04%	0.21%	0.12%	0.33%	73.43%	0.06%	0.00%
12:K	0.19%	0.00%	0.17%	3.89%	0.00%	0.39%	0.07%	0.39%	70.00%	0.16%	4.85%	1.79%	0.10%	2.80%	10.53%	0.25%	4.14%	0.19%	0.08%	0.01%
13:K	0.16%	0.00%	0.12%	3.95%	0.00%	0.49%	0.03%	0.22%	73.45%	0.16%	4.48%	0.90%	0.07%	2.33%	9.62%	0.15%	3.57%	0.20%	0.10%	0.00%
14:P	3.10%	0.18%	0.02%	0.00%	0.18%	0.05%	0.39%	0.07%	0.01%	1.07%	0.00%	0.08%	82.10%	0.04%	0.88%	7.93%	3.73%	0.12%	0.01%	0.04%
15:G	0.32%	0.00%	0.03%	1.52%	0.00%	94.93%	0.00%	0.00%	0.04%	0.02%	0.02%	0.00%	0.01%	0.03%	2.07%	0.02%	0.02%	0.38%	0.58%	0.00%
16:A	94.24%	0.00%	0.76%	0.02%	0.00%	0.67%	0.01%	0.03%	0.00%	0.01%	0.00%	0.02%	0.91%	0.00%	0.00%	0.51%	1.83%	0.98%	0.00%	0.00%
17:S	1.20%	0.08%	0.00%	0.05%	0.11%	0.01%	0.00%	0.02%	0.01%	1.68%	0.00%	0.00%	4.17%	0.01%	0.04%	91.73%	0.79%	0.02%	0.04%	0.03%
18:V	2.49%	0.00%	0.09%	2.25%	0.04%	2.02%	0.00%	0.53%	0.09%	7.03%	4.60%	0.00%	0.12%	0.06%	0.12%	0.06%	0.20%	80.27%	0.02%	0.00%
19:K	0.10%	0.00%	0.25%	4.20%	0.00%	0.16%	0.14%	0.19%	81.37%	0.05%	0.68%	4.45%	0.05%	2.95%	2.92%	0.41%	1.98%	0.04%	0.02%	0.02%
20:V	6.22%	0.01%	2.45%	0.09%	0.17%	3.27%	0.01%	0.72%	0.01%	0.56%	0.08%	0.04%	0.04%	0.00%	0.02%	0.06%	0.10%	86.14%	0.00%	0.01%
21:S	2.24%	1.49%	0.04%	0.00%	1.57%	0.05%	0.10%	0.03%	0.00%	0.39%	0.00%	0.05%	6.02%	0.00%	0.09%	85.79%	0.99%	0.08%	0.05%	1.00%
22:C	0.10%	73.93%	0.33%	0.01%	2.17%	1.80%	0.65%	0.03%	0.02%	0.54%	0.00%	0.33%	0.22%	0.01%	1.58%	5.73%	0.06%	0.04%	3.87%	8.57%
23:K	0.78%	0.00%	0.07%	4.94%	0.00%	0.43%	0.03%	0.10%	61.04%	0.27%	4.23%	0.70%	0.55%	2.63%	10.43%	0.41%	13.01%	0.25%	0.12%	0.01%
24:A	62.07%	0.05%	0.74%	0.03%	0.05%	1.34%	0.05%	0.33%	0.01%	0.13%	0.00%	0.15%	8.87%	0.00%	0.05%	4.66%	20.29%	1.16%	0.00%	0.02%
25:S	2.05%	8.93%	0.09%	0.00%	7.34%	0.11%	0.14%	0.10%	0.00%	0.75%	0.00%	0.09%	2.54%	0.01%	0.11%	74.80%	0.64%	0.19%	0.18%	1.92%
26:G	3.92%	0.01%	1.27%	8.80%	0.01%	78.86%	0.03%	0.15%	0.36%	0.16%	0.01%	0.05%	0.18%	0.14%	3.95%	0.15%	0.38%	1.56%	0.01%	0.01%
27:Y	0.21%	8.57%	7.65%	0.32%	5.77%	0.53%	10.51%	0.35%	0.50%	0.84%	0.01%	8.88%	0.33%	0.29%	0.74%	5.78%	0.32%	0.16%	0.12%	48.13%
28:T	7.39%	0.09%	0.10%	0.01%	0.16%	0.16%	0.04%	3.93%	0.12%	0.14%	0.27%	1.14%	5.03%	0.00%	0.33%	6.76%	73.92%	0.37%	0.00%	0.05%
29:F	0.05%	2.91%	0.02%	0.00%	78.62%	0.05%	0.07%	0.45%	0.00%	12.98%	0.02%	0.02%	0.26%	0.00%	0.09%	2.59%	0.02%	1.16%	0.06%	0.62%
30:T	5.07%	0.07%	0.13%	0.00%	0.11%	0.18%	0.05%	2.91%	0.08%	0.16%	0.04%	1.09%	3.62%	0.00%	0.20%	5.19%	80.68%	0.40%	0.00%	0.03%
31:G	7.66%	0.30%	14.87%	0.64%	0.02%	71.06%	0.20%	0.05%	0.02%	0.07%	0.01%	0.20%	0.06%	0.01%	0.59%	0.72%	0.13%	3.32%	0.01%	0.06%
32:Y	0.09%	9.90%	2.00%	0.07%	6.05%	0.17%	7.50%	0.10%	0.24%	1.24%	0.01%	3.37%	0.31%	0.17%	0.45%	6.15%	0.18%	0.06%	0.22%	61.72%
33:Y	0.16%	9.79%	2.40%	0.16%	10.87%	0.16%	5.30%	0.17%	0.12%	1.32%	0.01%	2.52%	0.47%	0.24%	0.38%	11.58%	0.24%	0.08%	0.28%	53.77%
34:M	0.64%	0.03%	0.02%	0.28%	1.87%	0.30%	0.01%	18.72%	1.12%	22.76%	33.93%	0.10%	0.84%	0.14%	1.70%	0.74%	4.93%	11.65%	0.21%	0.01%
35:H	0.25%	0.24%	1.81%	0.10%	0.35%	0.10%	63.88%	0.26%	0.93%	4.85%	0.02%	6.08%	6.72%	5.45%	5.46%	0.85%	0.50%	0.25%	0.03%	1.88%
36:W	0.01%	2.95%	0.00%	0.02%	0.06%	2.55%	0.01%	0.00%	0.01%	0.59%	0.00%	0.00%	0.02%	0.01%	3.73%	0.71%	0.01%	0.01%	89.21%	0.10%
37:V	3.54%	0.00%	0.10%	2.56%	0.06%	2.43%	0.01%	0.72%	0.30%	5.59%	4.69%	0.01%	0.25%	0.14%	0.19%	0.12%	0.42%	78.85%	0.02%	0.00%
38:R	0.02%	0.18%	0.00%	0.03%	0.00%	0.61%	0.16%	0.01%	0.12%	0.33%	0.00%	0.01%	1.12%	0.84%	95.80%	0.11%	0.02%	0.01%	0.62%	0.00%
39:Q	0.03%	0.00%	0.01%	0.74%	0.00%	0.04%	0.64%	0.00%	0.60%	0.95%	0.01%	0.02%	1.68%	91.78%	3.41%	0.03%	0.02%	0.01%	0.02%	0.00%
40:A	93.81%	0.01%	0.33%	0.09%	0.01%	1.13%	0.00%	0.03%	0.00%	0.01%	0.00%	0.02%	0.77%	0.00%	0.01%	0.57%	2.10%	1.10%	0.00%	0.00%
41:P	0.54%	0.02%	0.01%	0.00%	0.02%	0.02%	0.58%	0.02%	0.00%	1.53%	0.00%	0.01%	93.63%	0.09%	1.12%	1.46%	0.88%	0.04%	0.00%	0.01%
42:G	0.62%	0.02%	0.11%	1.61%	0.00%	92.35%	0.00%	0.02%	0.06%	0.02%	0.00%	0.00%	0.03%	0.02%	4.68%	0.12%	0.06%	0.26%	0.01%	0.00%
43:Q	0.04%	0.02%	0.17%	0.88%	0.01%	0.05%	19.70%	0.05%	0.61%	2.79%	0.00%	0.56%	2.57%	67.38%	4.73%	0.11%	0.07%	0.08%	0.00%	0.18%
44:G	0.45%	0.06%	0.28%	1.72%	0.00%	94.71%	0.00%	0.01%	0.03%	0.02%	0.01%	0.00%	0.01%	0.02%	1.68%	0.22%	0.03%	0.46%	0.29%	0.00%
45:L	0.06%	0.03%	0.02%	0.00%	1.56%	0.02%	0.70%	0.90%	0.00%	86.14%	0.01%	0.02%	7.65%	0.06%	0.87%	0.12%	0.08%	1.77%	0.00%	0.01%
46:E	2.92%	0.00%	11.76%	71.79%	0.01%	4.89%	0.18%	0.02%	3.28%	0.13%	0.12%	0.20%	0.14%	2.63%	0.25%	0.07%	0.28%	1.28%	0.01%	0.04%
47:W	0.08%	5.57%	0.02%	0.17%	0.16%	2.71%	0.03%	0.01%	0.19%	1.39%	0.06%	0.02%	0.08%	0.05%	6.53%	2.35%	0.08%	0.09%	80.14%	0.27%
48:M	0.65%	0.00%	0.00%	0.39%	0.02%	0.26%	0.00%	2.13%	3.64%	8.33%	63.54%	0.03%	0.24%	0.15%	3.35%	0.14%	5.48%	11.61%	0.03%	0.00%
49:G	6.69%	0.03%	1.75%	14.94%	0.01%	65.45%	0.03%	0.38%	0.72%	0.31%	0.03%	0.09%	0.28%	0.19%	5.68%	0.38%	0.69%	2.32%	0.02%	0.01%
50:W	0.06%	4.73%	0.03%	0.13%	0.24%	3.91%	0.09%	0.01%	0.08%	2.39%	0.04%	0.04%	0.20%	0.18%	9.74%	2.67%	0.05%	0.08%	74.81%	0.52%
51:I	0.20%	0.03%	0.05%	0.01%	1.11%	0.09%	0.02%	81.69%	0.16%	3.13%	2.08%	0.69%	0.09%	0.00%	0.63%	1.88%	2.97%	5.16%	0.00%	0.01%
52:N	0.17%	0.23%	3.67%	0.42%	0.11%	0.31%	3.73%	1.76%	11.64%	0.17%	0.17%	66.16%	0.16%	0.31%	1.44%	4.22%	3.44%	0.12%	0.01%	1.56%
53:P	1.84%	0.11%	0.03%	0.01%	0.13%	0.06%	0.56%	0.10%	0.00%	1.77%	0.00%	0.03%	88.81%	0.06%	1.25%	3.11%	1.96%	0.15%	0.00%	0.03%
54:N	0.37%	0.32%	9.73%	0.70%	0.34%	0.65%	4.29%	3.16%	6.20%	0.32%	0.16%	61.12%	0.12%	0.41%	2.09%	5.06%	2.60%	0.32%	0.01%	2.03%
55:S	0.22%	3.94%	0.31%	0.02%	0.15%	4.66%	0.35%	1.94%	0.33%	0.10%	0.04%	4.54%	0.17%	0.02%	7.55%	70.43%	4.85%	0.12%	0.07%	0.19%
56:G	4.44%	1.90%	6.36%	0.39%	0.09%	77.59%	0.30%	0.17%	0.02%	0.11%	0.00%	0.40%	0.14%	0.02%	2.00%	4.16%	0.26%	1.41%	0.04%	0.18%
57:G	4.97%	0.66%	9.82%	1.00%	0.05%	77.51%	0.14%	0.08%	0.02%	0.06%	0.00%	0.14%	0.06%	0.01%	1.55%	0.71%	0.13%	2.91%	0.02%	0.16%
58:T	3.98%	0.00%	0.02%	0.35%	0.01%	0.20%	0.00%	2.53%	1.11%	0.23%	0.20%	0.12%	2.66%	0.04%	3.90%	2.87%	81.58%	0.19%	0.00%	0.00%
59:N	0.18%	0.48%	7.54%	0.82%	0.33%	0.27%	6.82%	2.44%	7.94%	0.26%	0.30%	57.79%	0.19%	0.60%	1.10%	4.06%	3.18%	0.21%	0.02%	5.47%
60:Y	0.14%	9.28%	2.52%	0.17%	10.06%	0.16%	5.17%	0.15%	0.14%	0.92%	0.00%	2.56%	0.41%	0.22%	0.37%	10.40%	0.24%	0.08%	0.15%	56.88%
61:A	56.27%	0.01%	0.39%	7.19%	0.02%	1.72%	0.02%	0.66%	0.39%	0.69%	0.05%	0.02%	8.56%	0.26%	0.49%	5.71%	16.23%	1.31%	0.01%	0.01%
62:Q	0.11%	0.00%	0.18%	4.78%	0.00%	0.17%	2.12%	0.01%	1.50%	2.52%	0.06%	0.04%	1.96%	81.63%	4.64%	0.04%	0.04%	0.11%	0.05%	0.03%
63:K	0.25%	0.01%	0.28%	3.63%	0.01%	0.33%	0.18%	0.91%	70.03%	0.21%	3.58%	7.49%	0.13%	1.86%	5.35%	0.69%	4.79%	0.19%	0.06%	0.03%
64:F	0.17%	2.21%	0.06%	0.0																