

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.60%	0.03%	0.55%	5.62%	0.03%	0.58%	4.69%	0.10%	5.69%	6.46%	0.50%	0.52%	6.18%	59.58%	6.76%	0.37%	0.59%	0.61%	0.29%	0.24%
2:V	5.55%	0.03%	0.27%	4.18%	0.46%	3.78%	0.02%	3.35%	0.71%	9.02%	6.68%	0.06%	0.35%	0.17%	0.67%	0.36%	1.14%	63.13%	0.07%	0.00%
3:Q	0.14%	0.09%	0.41%	1.64%	0.07%	0.22%	12.30%	0.17%	6.35%	3.74%	0.16%	1.40%	2.96%	62.92%	5.81%	0.34%	0.46%	0.18%	0.43%	0.24%
4:L	1.17%	0.03%	0.04%	0.68%	0.92%	0.57%	0.06%	1.09%	0.63%	65.11%	6.42%	0.04%	2.79%	0.98%	1.83%	1.56%	0.84%	14.86%	0.39%	0.01%
5:V	5.33%	0.03%	0.28%	4.08%	0.38%	3.83%	0.02%	3.01%	0.72%	9.28%	6.53%	0.06%	0.48%	0.24%	0.68%	0.32%	1.25%	63.42%	0.06%	0.00%
6:Q	0.32%	0.05%	0.20%	1.12%	0.05%	0.35%	7.53%	0.07%	4.13%	10.40%	0.36%	0.72%	6.70%	57.31%	7.68%	0.66%	0.52%	0.54%	1.14%	0.15%
7:S	2.23%	2.65%	0.04%	0.00%	2.59%	0.09%	0.07%	0.09%	0.00%	0.44%	0.00%	0.05%	5.16%	0.00%	0.15%	83.40%	2.08%	0.11%	0.10%	0.74%
8:G	0.75%	0.01%	0.12%	3.40%	0.00%	90.17%	0.00%	0.00%	0.11%	0.08%	0.05%	0.00%	0.04%	0.09%	3.22%	0.06%	0.08%	0.82%	0.99%	0.00%
9:A	59.71%	0.09%	0.54%	0.06%	0.10%	1.40%	0.10%	0.57%	0.01%	0.33%	0.01%	0.18%	10.19%	0.01%	0.16%	4.55%	20.44%	1.52%	0.00%	0.03%
10:E	3.71%	0.02%	8.15%	67.64%	0.02%	7.22%	0.44%	0.06%	3.73%	0.31%	0.19%	0.50%	0.38%	4.23%	0.61%	0.17%	0.58%	1.87%	0.05%	0.14%
11:V	6.37%	0.01%	0.33%	5.24%	0.14%	5.33%	0.01%	1.47%	0.44%	9.19%	8.52%	0.03%	0.24%	0.10%	0.52%	0.34%	0.84%	60.76%	0.14%	0.00%
12:K	0.50%	0.01%	0.39%	5.51%	0.01%	0.92%	0.18%	0.88%	56.13%	0.46%	6.37%	2.52%	0.24%	4.05%	14.20%	0.56%	6.32%	0.47%	0.23%	0.03%
13:K	0.46%	0.01%	0.29%	5.88%	0.01%	1.21%	0.08%	0.50%	60.33%	0.43%	5.76%	1.30%	0.20%	3.27%	13.70%	0.40%	5.45%	0.48%	0.26%	0.01%
14:P	4.60%	0.38%	0.06%	0.01%	0.39%	0.11%	0.52%	0.18%	0.03%	1.56%	0.01%	0.16%	71.92%	0.08%	1.22%	12.30%	6.06%	0.27%	0.04%	0.08%
15:G	0.54%	0.01%	0.08%	2.49%	0.00%	91.63%	0.00%	0.00%	0.10%	0.06%	0.04%	0.01%	0.03%	0.07%	3.25%	0.05%	0.06%	0.62%	0.95%	0.00%
16:A	90.39%	0.01%	1.24%	0.06%	0.01%	1.07%	0.02%	0.08%	0.01%	0.02%	0.01%	0.07%	1.54%	0.00%	0.01%	0.94%	2.91%	1.59%	0.00%	0.01%
17:S	1.72%	0.20%	0.02%	0.12%	0.26%	0.05%	0.01%	0.06%	0.02%	2.54%	0.01%	0.00%	6.71%	0.04%	0.12%	86.57%	1.30%	0.06%	0.11%	0.08%
18:V	3.40%	0.00%	0.22%	3.48%	0.12%	3.15%	0.01%	1.15%	0.23%	10.94%	6.11%	0.01%	0.32%	0.18%	0.35%	0.17%	0.46%	69.65%	0.05%	0.00%
19:K	0.32%	0.02%	0.62%	6.13%	0.01%	0.52%	0.37%	0.65%	67.29%	0.19%	1.90%	5.84%	0.17%	4.36%	6.38%	0.95%	3.96%	0.17%	0.09%	0.06%
20:V	10.07%	0.21%	5.16%	0.34%	4.07%	5.55%	0.26%	12.91%	0.09%	7.53%	0.49%	0.85%	1.94%	0.02%	0.26%	1.86%	4.74%	43.54%	0.01%	0.09%
21:S	3.52%	8.61%	0.64%	0.02%	10.01%	0.34%	0.84%	0.15%	0.04%	2.50%	0.02%	0.34%	3.28%	0.04%	0.40%	61.62%	0.84%	0.58%	0.52%	5.69%
22:C	0.27%	60.53%	0.76%	0.04%	3.25%	2.86%	1.62%	0.08%	0.07%	1.26%	0.01%	0.69%	0.58%	0.07%	3.11%	8.79%	0.17%	0.13%	4.89%	10.83%
23:K	1.76%	0.01%	0.15%	6.75%	0.01%	1.02%	0.07%	0.21%	41.72%	0.70%	5.69%	0.78%	1.40%	3.78%	15.32%	1.03%	18.65%	0.63%	0.33%	0.02%
24:A	72.57%	0.01%	0.39%	3.10%	0.02%	1.23%	0.01%	0.22%	0.29%	0.25%	0.03%	0.05%	3.73%	0.06%	0.20%	8.43%	8.65%	0.75%	0.00%	0.01%
25:S	1.67%	12.18%	0.25%	0.03%	10.73%	0.68%	0.50%	0.52%	0.02%	2.12%	0.02%	0.22%	5.45%	0.04%	1.18%	58.95%	1.84%	0.67%	0.35%	2.57%
26:G	5.24%	0.04%	2.70%	11.14%	0.03%	69.29%	0.10%	0.31%	0.64%	0.40%	0.03%	0.15%	0.44%	0.33%	5.78%	0.41%	0.87%	2.02%	0.04%	0.04%
27:Y	0.48%	9.51%	9.75%	0.72%	7.24%	1.22%	13.14%	0.74%	0.98%	1.96%	0.04%	9.68%	0.81%	0.65%	1.65%	8.22%	0.67%	0.44%	0.24%	31.85%
28:T	10.22%	0.23%	0.30%	0.03%	0.39%	0.40%	0.13%	5.20%	0.29%	0.42%	0.54%	1.67%	7.26%	0.01%	0.69%	9.48%	61.61%	0.97%	0.02%	0.15%
29:F	0.16%	3.04%	0.06%	0.01%	44.52%	0.13%	0.17%	0.90%	0.02%	40.37%	0.20%	0.05%	0.96%	0.08%	0.31%	5.67%	0.11%	1.97%	0.45%	0.81%
30:N	0.94%	0.62%	6.80%	0.77%	0.35%	1.30%	4.99%	4.20%	8.71%	0.55%	0.33%	42.07%	0.65%	0.71%	6.39%	8.25%	9.67%	0.58%	0.03%	2.09%
31:S	1.13%	3.03%	1.68%	0.20%	0.35%	5.72%	0.96%	3.86%	2.38%	0.37%	0.43%	12.55%	0.65%	0.10%	19.83%	36.39%	8.78%	0.53%	0.28%	0.78%
32:Y	0.29%	11.98%	4.24%	0.21%	8.03%	0.50%	10.49%	0.32%	0.59%	2.57%	0.03%	5.14%	0.86%	0.45%	1.15%	9.04%	0.46%	0.24%	0.52%	42.88%
33:Y	0.38%	12.14%	2.96%	0.33%	13.56%	0.40%	7.28%	0.37%	0.26%	2.81%	0.02%	3.16%	1.19%	0.50%	0.90%	15.86%	0.58%	0.24%	0.54%	36.51%
34:M	1.44%	0.11%	0.08%	0.65%	3.43%	0.72%	0.05%	17.45%	1.58%	27.11%	19.73%	0.22%	1.88%	0.36%	2.68%	1.76%	6.16%	14.14%	0.43%	0.02%
35:H	0.62%	0.59%	2.86%	0.25%	0.76%	0.29%	49.35%	0.56%	1.78%	6.38%	0.09%	6.99%	8.68%	7.26%	7.33%	1.82%	1.10%	0.61%	0.09%	2.61%
36:W	0.03%	4.53%	0.02%	0.06%	0.15%	4.43%	0.03%	0.00%	0.02%	0.96%	0.02%	0.01%	0.07%	0.04%	6.21%	1.28%	0.02%	0.03%	81.82%	0.25%
37:V	5.04%	0.01%	0.24%	3.64%	0.16%	3.80%	0.02%	1.49%	0.69%	8.66%	5.96%	0.05%	0.65%	0.33%	0.54%	0.38%	1.04%	67.26%	0.05%	0.00%
38:R	0.05%	0.51%	0.01%	0.09%	0.01%	1.28%	0.40%	0.02%	0.25%	0.56%	0.00%	0.04%	1.84%	1.19%	91.90%	0.32%	0.07%	0.02%	1.42%	0.01%
39:Q	0.07%	0.00%	0.03%	1.25%	0.00%	0.11%	1.01%	0.00%	0.96%	1.64%	0.02%	0.05%	2.74%	86.29%	5.57%	0.08%	0.06%	0.04%	0.07%	0.01%
40:A	89.65%	0.02%	0.59%	0.22%	0.02%	1.88%	0.01%	0.09%	0.01%	0.02%	0.00%	0.06%	1.17%	0.00%	0.02%	1.04%	3.30%	1.87%	0.00%	0.01%
41:P	0.83%	0.06%	0.03%	0.00%	0.06%	0.06%	0.88%	0.06%	0.00%	2.41%	0.00%	0.03%	89.75%	0.22%	1.70%	2.39%	1.40%	0.08%	0.00%	0.02%
42:G	1.02%	0.05%	0.31%	2.54%	0.00%	87.26%	0.02%	0.06%	0.14%	0.07%	0.01%	0.02%	0.08%	0.07%	7.45%	0.34%	0.14%	0.40%	0.03%	0.00%
43:Q	0.11%	0.06%	0.44%	1.31%	0.06%	0.14%	24.55%	0.14%	0.88%	4.18%	0.01%	1.12%	4.25%	54.30%	7.37%	0.33%	0.19%	0.18%	0.01%	0.38%
44:G	0.79%	0.17%	0.68%	2.54%	0.00%	90.72%	0.02%	0.02%	0.07%	0.06%	0.03%	0.02%	0.04%	0.05%	3.07%	0.48%	0.08%	0.74%	0.44%	0.01%
45:L	0.16%	0.08%	0.04%	0.01%	2.29%	0.05%	1.12%	1.54%	0.00%	77.44%	0.04%	0.05%	12.36%	0.17%	1.49%	0.34%	0.23%	2.57%	0.00%	0.03%
46:E	4.17%	0.02%	16.13%	58.81%	0.03%	7.39%	0.44%	0.08%	4.19%	0.36%	0.25%	0.46%	0.36%	3.64%	0.59%	0.20%	0.64%	2.10%	0.04%	0.11%
47:W	0.19%	7.55%	0.09%	0.39%	0.36%	4.29%	0.09%	0.04%	0.37%	2.00%	0.14%	0.06%	0.20%	0.12%	9.36%	3.61%	0.21%	0.24%	70.10%	0.58%
48:M	1.52%	0.00%	0.01%	0.89%	0.07%	0.66%	0.00%	2.54%	4.87%	12.20%	47.98%	0.07%	0.61%	0.39%	5.14%	0.36%	7.55%	15.05%	0.09%	0.00%
49:G	3.48%	0.04%	2.12%	8.85%	0.02%	67.93%	0.06%	0.49%	0.80%	0.31%	0.05%	0.20%	0.24%	0.21%	10.15%	0.41%	0.66%	3.94%	0.04%	0.02%
50:I	0.91%	0.03%	0.17%	1.07%	1.32%	0.93%	0.13%	35.57%	3.59%	21.58%	6.54%	0.97%	1.37%	0.75%	5.60%	1.70%	6.88%	10.82%	0.02%	0.03%
51:I	1.16%	0.29%	0.46%	0.06%	6.59%	0.78%	0.23%	47.37%	0.37%	11.68%	2.33%	1.63%	0.65%	0.04%	1.51%	2.66%	4.44%	17.60%	0.03%	0.13%
52:N	0.44%	0.52%	5.32%	0.97%	0.27%	0.78%	4.97%	2.85%	14.28%	0.46%	0.40%	50.11%	0.44%	0.69%	3.32%	6.31%	5.45%	0.33%	0.03%	2.04%
53:P	3.06%	0.29%	0.10%	0.03%	0.37%	0.15%	1.09%	0.27%	0.01%	3.01%	0.02%	0.10%	79.82%	0.14%	2.06%	5.60%	3.39%	0.39%	0.01%	0.10%
54:S	0.90%	7.13%	1.23%	0.14%	0.81%	9.91%	0.78%	3.87%	0.59%	0.75%	0.11%	4.75%	0.71%	0.09%	12.75%	49.39%	4.53%	0.70%	0.32%	0.53%
55:G	6.40%	2.65%	8.85%	0.98%	0.26%	65.90%	0.72%	0.42%	0.08%	0.33%	0.01%	0.88%	0.40%	0.07%	3.14%	5.57%	0.68%	2.18%	0.11%	0.40%
56:G	13.42%	1.52%	16.94%	2.84%	0.52%	45.34%	1.56%	0.81%	0.21%	0.74%	0.05%	1.92%	0.83%	0.15%	2.62%	3.49%	1.67%	4.43%	0.15%	0.80%
57:S	1.17%	2.24%	2.30%	0.50%	1.00%	10.16%	0.95%	5.89%	1.76%	1.07%	0.31%	9.45%	0.49%	0.13%	33.28%	20.55%	5.75%	1.69%	0.43%	0.86%
58:T	5.85%	0.02%	0.08%	1.14%	0.06%	0.71%	0.03%	4.46%	2.12%	0.96%	0.54%	0.33%	4.38%	0.14%	6.55%	4.81%	67.11%	0.68%	0.01%	0.01%
59:S	1.04%	2.70%	2.77%	0.36%	0.42%	7.08%	2.27%	3.81%	2.10%	0.76%	0.43%	11.34%	0.83%	0.29%	20.31%	34.50%	6.26%	0.86%	0.62%	1.23%
60:Y	0.27%	12.73%	4.23%	0.19%	7.38%	0.56%	10.51%	0.33%	0.38%	2.19%	0.01%	5.25%	0.80%	0.52%	1.23%	8.65%	0.46%	0.23%	0.20%	43.90%
61:A	41.21%	0.01%	0.83%	9.42%	0.04%	2.63%	0.07%	1.01%	0.77%	0.74%	0.11%	0.08%	9.57%	0.43%	0.95%	6.63%	23.79%	1.72%	0.01%	0.01%
62:Q	0.25%	0.01%	0.43%	6.85%	0.01%	0.44%	3.29%	0.02%	2.31%	3.79%	0.17%	0.11%	3.08%	71.54%	6.89%	0.14%	0.13%	0.32%	0.14%	0.08%
63:K	0.67%	0.02%	0.71%	5.11%	0.03%	0.82%	0.41%	1.91%	55.68%	0.45%	3.99%	10.01%	0.31%	2.37%	7.74%	1.59%	7.54%	0.45%	0.12%	0.09%
64:F	0																			