

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.22%	0.01%	0.22%	3.91%	0.01%	0.22%	3.30%	0.02%	3.96%	4.27%	0.19%	0.19%	4.14%	74.24%	4.34%	0.13%	0.21%	0.22%	0.10%	0.09%
2:V	3.56%	0.01%	0.09%	2.64%	0.16%	2.31%	0.00%	1.62%	0.28%	6.02%	5.47%	0.01%	0.12%	0.07%	0.23%	0.09%	0.40%	76.89%	0.02%	0.00%
3:Q	0.03%	0.02%	0.14%	0.80%	0.01%	0.06%	9.30%	0.04%	3.72%	2.02%	0.06%	0.54%	1.48%	78.15%	3.13%	0.09%	0.12%	0.05%	0.16%	0.09%
4:L	0.47%	0.01%	0.01%	0.27%	0.36%	0.22%	0.02%	0.44%	0.28%	76.73%	4.99%	0.01%	2.07%	0.73%	0.88%	0.60%	0.32%	11.46%	0.13%	0.00%
5:V	3.50%	0.00%	0.09%	2.59%	0.14%	2.33%	0.01%	1.48%	0.28%	6.03%	5.19%	0.01%	0.16%	0.09%	0.22%	0.09%	0.45%	77.33%	0.02%	0.00%
6:Q	0.11%	0.01%	0.06%	0.55%	0.01%	0.12%	5.51%	0.01%	2.49%	7.16%	0.13%	0.29%	4.40%	72.76%	5.25%	0.23%	0.17%	0.19%	0.48%	0.06%
7:S	1.37%	1.52%	0.01%	0.00%	1.56%	0.03%	0.02%	0.03%	0.00%	0.15%	0.00%	0.01%	3.10%	0.00%	0.05%	90.56%	1.05%	0.03%	0.03%	0.47%
8:G	0.38%	0.00%	0.03%	1.81%	0.00%	94.65%	0.00%	0.00%	0.04%	0.02%	0.02%	0.00%	0.01%	0.03%	1.95%	0.02%	0.02%	0.44%	0.57%	0.00%
9:A	74.47%	0.03%	0.36%	0.02%	0.04%	0.89%	0.03%	0.21%	0.00%	0.11%	0.00%	0.06%	6.39%	0.00%	0.05%	2.75%	13.53%	1.03%	0.00%	0.01%
10:E	2.49%	0.00%	5.44%	79.78%	0.00%	4.39%	0.18%	0.01%	2.67%	0.09%	0.08%	0.23%	0.14%	2.78%	0.21%	0.05%	0.23%	1.13%	0.02%	0.06%
11:V	4.19%	0.00%	0.11%	3.41%	0.04%	3.75%	0.00%	0.60%	0.17%	6.01%	6.42%	0.01%	0.08%	0.03%	0.19%	0.11%	0.30%	74.52%	0.06%	0.00%
12:K	0.18%	0.00%	0.16%	3.70%	0.00%	0.35%	0.06%	0.35%	71.32%	0.15%	4.68%	1.73%	0.08%	2.67%	10.17%	0.23%	3.92%	0.16%	0.07%	0.01%
13:K	0.14%	0.00%	0.10%	3.81%	0.00%	0.44%	0.03%	0.20%	74.78%	0.15%	4.27%	0.84%	0.07%	2.21%	9.17%	0.14%	3.39%	0.16%	0.09%	0.00%
14:P	2.98%	0.16%	0.02%	0.00%	0.16%	0.04%	0.38%	0.06%	0.01%	1.06%	0.00%	0.08%	82.95%	0.03%	0.86%	7.52%	3.52%	0.11%	0.01%	0.03%
15:G	0.30%	0.01%	0.03%	1.47%	0.00%	95.16%	0.00%	0.00%	0.03%	0.02%	0.01%	0.00%	0.01%	0.02%	1.98%	0.02%	0.02%	0.36%	0.56%	0.00%
16:A	94.54%	0.00%	0.72%	0.02%	0.00%	0.63%	0.01%	0.02%	0.00%	0.01%	0.00%	0.02%	0.87%	0.00%	0.00%	0.47%	1.73%	0.94%	0.00%	0.00%
17:S	1.15%	0.07%	0.00%	0.05%	0.09%	0.01%	0.00%	0.02%	0.01%	1.61%	0.00%	0.00%	3.94%	0.01%	0.03%	92.17%	0.75%	0.02%	0.04%	0.03%
18:V	2.38%	0.00%	0.08%	2.15%	0.04%	1.91%	0.00%	0.49%	0.08%	6.71%	4.50%	0.00%	0.10%	0.05%	0.10%	0.05%	0.17%	81.16%	0.02%	0.00%
19:K	0.09%	0.00%	0.23%	4.00%	0.00%	0.14%	0.13%	0.18%	82.29%	0.05%	0.66%	4.25%	0.04%	2.82%	2.79%	0.38%	1.88%	0.04%	0.02%	0.02%
20:V	5.88%	0.01%	2.33%	0.08%	0.17%	3.14%	0.01%	0.68%	0.01%	0.52%	0.07%	0.03%	0.04%	0.00%	0.01%	0.05%	0.09%	86.87%	0.00%	0.00%
21:S	2.09%	1.42%	0.04%	0.00%	1.48%	0.04%	0.10%	0.03%	0.00%	0.35%	0.00%	0.04%	5.78%	0.00%	0.08%	86.55%	0.92%	0.07%	0.04%	0.94%
22:C	0.09%	75.23%	0.30%	0.01%	2.09%	1.68%	0.59%	0.02%	0.02%	0.48%	0.00%	0.30%	0.18%	0.01%	1.49%	5.44%	0.05%	0.04%	3.76%	8.21%
23:K	0.70%	0.00%	0.06%	4.78%	0.00%	0.37%	0.03%	0.09%	62.42%	0.26%	4.07%	0.65%	0.51%	2.52%	10.13%	0.37%	12.68%	0.22%	0.11%	0.01%
24:A	63.37%	0.05%	0.72%	0.03%	0.05%	1.27%	0.05%	0.30%	0.01%	0.12%	0.01%	0.14%	8.60%	0.00%	0.05%	4.46%	19.67%	1.11%	0.00%	0.02%
25:S	2.04%	8.64%	0.09%	0.00%	7.10%	0.09%	0.13%	0.08%	0.00%	0.68%	0.00%	0.08%	2.39%	0.01%	0.10%	75.81%	0.60%	0.17%	0.17%	1.83%
26:G	3.72%	0.01%	1.18%	8.48%	0.01%	79.82%	0.02%	0.12%	0.32%	0.14%	0.01%	0.05%	0.16%	0.13%	3.80%	0.14%	0.36%	1.49%	0.01%	0.01%
27:Y	0.19%	8.33%	7.40%	0.29%	5.57%	0.49%	10.20%	0.31%	0.47%	0.76%	0.01%	8.74%	0.29%	0.26%	0.67%	5.50%	0.28%	0.16%	0.10%	49.97%
28:T	7.07%	0.08%	0.10%	0.00%	0.14%	0.14%	0.04%	3.86%	0.10%	0.13%	0.24%	1.08%	4.84%	0.00%	0.29%	6.57%	74.93%	0.32%	0.00%	0.05%
29:F	0.05%	2.77%	0.02%	0.00%	79.65%	0.04%	0.06%	0.43%	0.00%	12.43%	0.02%	0.02%	0.23%	0.00%	0.09%	2.44%	0.02%	1.08%	0.05%	0.60%
30:T	4.83%	0.06%	0.12%	0.00%	0.11%	0.16%	0.04%	2.79%	0.06%	0.14%	0.03%	1.04%	3.47%	0.00%	0.18%	4.93%	81.62%	0.37%	0.00%	0.03%
31:G	7.35%	0.29%	14.30%	0.58%	0.02%	72.29%	0.18%	0.04%	0.01%	0.06%	0.00%	0.18%	0.05%	0.01%	0.56%	0.71%	0.13%	3.18%	0.01%	0.06%
32:Y	0.08%	9.57%	1.88%	0.06%	5.84%	0.16%	7.23%	0.09%	0.22%	1.15%	0.01%	3.29%	0.28%	0.15%	0.41%	5.86%	0.16%	0.05%	0.20%	63.32%
33:Y	0.15%	9.46%	2.32%	0.15%	10.58%	0.15%	5.08%	0.14%	0.12%	1.20%	0.00%	2.44%	0.44%	0.21%	0.34%	11.15%	0.22%	0.08%	0.24%	55.51%
34:M	0.61%	0.03%	0.01%	0.25%	1.75%	0.27%	0.01%	18.58%	1.07%	22.21%	35.62%	0.09%	0.78%	0.14%	1.62%	0.67%	4.77%	11.32%	0.20%	0.01%
35:H	0.23%	0.22%	1.76%	0.08%	0.33%	0.09%	65.29%	0.23%	0.86%	4.71%	0.02%	5.93%	6.42%	5.29%	5.23%	0.79%	0.46%	0.23%	0.02%	1.81%
36:W	0.01%	2.81%	0.00%	0.02%	0.05%	2.37%	0.00%	0.00%	0.00%	0.57%	0.00%	0.00%	0.02%	0.01%	3.54%	0.67%	0.00%	0.01%	89.81%	0.10%
37:V	3.37%	0.00%	0.09%	2.43%	0.05%	2.30%	0.00%	0.66%	0.27%	5.31%	4.55%	0.01%	0.21%	0.12%	0.18%	0.12%	0.38%	79.91%	0.02%	0.00%
38:R	0.02%	0.16%	0.00%	0.03%	0.00%	0.57%	0.15%	0.01%	0.11%	0.30%	0.00%	0.01%	1.08%	0.79%	96.07%	0.10%	0.20%	0.01%	0.57%	0.00%
39:Q	0.03%	0.00%	0.01%	0.70%	0.00%	0.04%	0.61%	0.00%	0.58%	0.91%	0.01%	0.02%	1.59%	92.18%	3.25%	0.03%	0.02%	0.01%	0.02%	0.00%
40:A	94.23%	0.01%	0.30%	0.08%	0.01%	1.05%	0.00%	0.03%	0.00%	0.01%	0.00%	0.02%	0.74%	0.00%	0.01%	0.52%	1.94%	1.04%	0.00%	0.00%
41:P	0.52%	0.02%	0.01%	0.00%	0.02%	0.02%	0.55%	0.02%	0.00%	1.46%	0.00%	0.01%	93.94%	0.08%	1.07%	1.40%	0.83%	0.03%	0.00%	0.01%
42:G	0.62%	0.02%	0.16%	1.55%	0.00%	92.72%	0.00%	0.02%	0.05%	0.02%	0.00%	0.00%	0.02%	0.02%	4.44%	0.11%	0.05%	0.24%	0.01%	0.00%
43:Q	0.03%	0.01%	0.16%	0.85%	0.01%	0.04%	19.03%	0.05%	0.58%	2.65%	0.00%	0.54%	2.45%	68.71%	4.48%	0.09%	0.06%	0.07%	0.00%	0.17%
44:G	0.44%	0.06%	0.25%	1.64%	0.00%	95.01%	0.00%	0.01%	0.02%	0.02%	0.01%	0.00%	0.01%	0.02%	1.57%	0.19%	0.02%	0.44%	0.28%	0.00%
45:L	0.05%	0.02%	0.01%	0.00%	1.51%	0.02%	0.67%	0.87%	0.00%	86.77%	0.01%	0.01%	7.29%	0.06%	0.84%	0.12%	0.07%	1.68%	0.00%	0.01%
46:E	2.78%	0.00%	11.26%	73.05%	0.01%	4.68%	0.16%	0.02%	3.16%	0.12%	0.11%	0.18%	0.13%	2.54%	0.22%	0.06%	0.25%	1.22%	0.01%	0.04%
47:W	0.07%	5.37%	0.02%	0.16%	0.14%	2.60%	0.02%	0.01%	0.16%	1.33%	0.06%	0.01%	0.07%	0.05%	6.24%	2.21%	0.07%	0.08%	81.07%	0.25%
48:M	0.61%	0.00%	0.00%	0.35%	0.02%	0.23%	0.00%	1.97%	3.48%	8.04%	65.23%	0.02%	0.21%	0.14%	3.19%	0.11%	5.20%	11.15%	0.03%	0.00%
49:G	6.48%	0.03%	1.60%	14.54%	0.01%	66.66%	0.02%	0.35%	0.67%	0.28%	0.03%	0.07%	0.26%	0.18%	5.58%	0.34%	0.63%	2.23%	0.02%	0.01%
50:W	0.05%	4.61%	0.03%	0.12%	0.21%	3.75%	0.08%	0.01%	0.07%	2.29%	0.04%	0.04%	0.18%	0.18%	9.26%	2.54%	0.05%	0.07%	75.95%	0.48%
51:I	0.19%	0.02%	0.04%	0.01%	1.05%	0.09%	0.01%	82.63%	0.15%	2.95%	2.01%	0.64%	0.08%	0.00%	0.56%	1.83%	2.82%	4.90%	0.00%	0.01%
52:N	0.16%	0.21%	3.47%	0.39%	0.10%	0.27%	3.60%	1.70%	11.28%	0.15%	0.16%	67.69%	0.14%	0.28%	1.32%	4.18%	3.25%	0.12%	0.01%	1.52%
53:P	1.75%	0.10%	0.03%	0.00%	0.11%	0.05%	0.51%	0.08%	0.00%	1.68%	0.00%	0.02%	89.45%	0.06%	1.20%	2.91%	1.88%	0.13%	0.00%	0.02%
54:N	0.33%	0.29%	9.36%	0.65%	0.31%	0.60%	4.10%	3.06%	5.99%	0.29%	0.15%	62.77%	0.12%	0.38%	1.95%	4.93%	2.46%	0.29%	0.01%	1.97%
55:S	0.19%	3.77%	0.28%	0.02%	0.13%	4.48%	0.32%	1.82%	0.31%	0.09%	0.03%	4.38%	0.14%	0.01%	7.27%	71.75%	4.64%	0.12%	0.06%	0.17%
56:G	4.25%	1.86%	6.08%	0.35%	0.08%	78.72%	0.27%	0.16%	0.02%	0.10%	0.00%	0.37%	0.12%	0.01%	1.88%	3.97%	0.23%	1.33%	0.04%	0.17%
57:G	4.80%	0.63%	9.57%	0.93%	0.04%	78.45%	0.12%	0.07%	0.01%	0.05%	0.00%	0.13%	0.05%	0.01%	1.45%	0.68%	0.11%	2.75%	0.01%	0.14%
58:T	3.82%	0.00%	0.01%	0.31%	0.01%	0.18%	0.00%	2.38%	1.04%	0.20%	0.18%	0.10%	2.52%	0.03%	3.64%	2.69%	82.71%	0.18%	0.00%	0.00%
59:N	0.15%	0.46%	7.26%	0.75%	0.31%	0.25%	6.62%	2.32%	7.74%	0.23%	0.28%	59.47%	0.18%	0.54%	1.01%	3.91%	3.02%	0.18%	0.02%	5.31%
60:Y	0.13%	8.89%	2.49%	0.16%	9.78%	0.14%	5.00%	0.14%	0.13%	0.83%	0.00%	2.46%	0.38%	0.21%	0.35%	9.98%	0.22%	0.07%	0.13%	58.51%
61:A	57.76%	0.01%	0.35%	6.98%	0.02%	1.63%	0.02%	0.60%	0.35%	0.65%	0.04%	0.02%	8.26%	0.23%	0.44%	5.49%	15.86%	1.28%	0.01%	0.00%
62:Q	0.09%	0.00%	0.16%	4.56%	0.00%	0.15%	2.06%	0.00%	1.42%	2.39%	0.06%	0.04%	1.87%	82.55%	4.40%	0.04%	0.04%	0.10%	0.04%	0.03%
63:K	0.23%	0.00%	0.25%	3.45%	0.01%	0.31%	0.17%	0.84%	71.27%	0.19%	3.49%	7.21%	0.12%	1.						