

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.38%	0.01%	0.36%	4.90%	0.01%	0.39%	4.13%	0.06%	4.92%	5.41%	0.34%	0.35%	5.26%	66.48%	5.62%	0.23%	0.38%	0.39%	0.19%	0.16%
2:V	4.62%	0.01%	0.16%	3.46%	0.29%	3.07%	0.01%	2.47%	0.48%	7.64%	6.23%	0.03%	0.23%	0.11%	0.42%	0.20%	0.72%	69.79%	0.04%	0.00%
3:Q	0.08%	0.05%	0.26%	1.21%	0.04%	0.12%	11.00%	0.09%	5.07%	2.90%	0.11%	0.94%	2.16%	70.45%	4.50%	0.19%	0.26%	0.10%	0.29%	0.16%
4:L	0.72%	0.07%	0.03%	0.49%	2.55%	0.38%	0.16%	2.04%	0.82%	65.93%	4.22%	0.08%	3.30%	1.84%	1.96%	1.21%	0.67%	13.10%	0.42%	0.01%
5:Q	0.06%	0.02%	0.09%	1.08%	0.01%	0.17%	3.62%	0.02%	3.94%	2.35%	0.06%	0.24%	1.59%	80.89%	4.94%	0.12%	0.13%	0.10%	0.51%	0.06%
6:E	5.59%	0.00%	3.52%	77.63%	0.00%	7.63%	0.06%	0.02%	1.70%	0.15%	0.16%	0.12%	0.08%	0.62%	0.19%	0.05%	0.21%	2.26%	0.02%	0.02%
7:S	3.05%	0.01%	0.00%	0.03%	0.02%	0.06%	0.00%	0.00%	0.01%	3.87%	0.07%	0.00%	4.45%	0.01%	0.13%	84.37%	1.71%	0.13%	2.08%	0.00%
8:G	1.12%	0.56%	2.29%	0.08%	0.01%	91.98%	0.03%	0.03%	0.01%	0.01%	0.00%	0.11%	0.03%	0.00%	0.93%	1.91%	0.09%	0.76%	0.03%	0.02%
9:P	0.57%	0.00%	0.00%	0.03%	0.00%	0.01%	0.15%	0.03%	0.01%	1.67%	0.00%	0.00%	93.54%	0.64%	1.04%	1.41%	0.88%	0.03%	0.00%	0.00%
10:G	0.76%	0.02%	0.28%	2.77%	0.00%	85.85%	0.00%	0.08%	0.11%	0.09%	0.01%	0.01%	0.07%	0.05%	9.19%	0.16%	0.12%	0.41%	0.01%	0.00%
11:L	0.07%	0.00%	0.00%	0.04%	0.08%	0.04%	0.07%	0.09%	0.02%	90.17%	0.44%	0.00%	3.25%	1.31%	2.86%	0.12%	0.05%	1.34%	0.05%	0.00%
12:V	5.29%	0.00%	0.21%	4.38%	0.07%	4.73%	0.01%	1.00%	0.34%	7.68%	7.31%	0.01%	0.22%	0.10%	0.34%	0.20%	0.66%	67.37%	0.09%	0.00%
13:K	0.24%	0.00%	0.20%	4.83%	0.00%	0.65%	0.07%	0.33%	66.55%	0.25%	5.23%	1.04%	0.13%	3.56%	11.78%	0.23%	4.50%	0.27%	0.12%	0.01%
14:P	3.78%	0.18%	0.06%	0.00%	0.25%	0.07%	0.66%	0.13%	0.01%	1.35%	0.00%	0.20%	77.89%	0.02%	0.56%	9.84%	4.72%	0.18%	0.00%	0.08%
15:S	2.55%	0.28%	0.01%	0.13%	0.24%	0.30%	0.01%	0.01%	0.03%	13.93%	0.12%	0.00%	3.04%	0.02%	0.47%	69.06%	0.69%	0.57%	8.47%	0.05%
16:E	3.86%	0.00%	1.73%	79.97%	0.00%	5.36%	0.05%	0.01%	4.19%	0.10%	0.24%	0.10%	0.12%	1.96%	0.48%	0.06%	0.34%	1.40%	0.02%	0.02%
17:T	8.18%	0.05%	0.07%	0.02%	0.05%	0.13%	0.04%	2.61%	0.28%	0.07%	0.19%	1.99%	3.07%	0.00%	0.20%	4.37%	78.47%	0.16%	0.00%	0.03%
18:L	0.07%	0.00%	0.00%	0.07%	0.08%	0.03%	0.20%	0.04%	0.05%	85.40%	0.77%	0.00%	5.67%	3.28%	2.58%	0.09%	0.08%	1.57%	0.03%	0.00%
19:S	3.15%	2.44%	0.07%	0.01%	2.23%	0.07%	0.14%	0.07%	0.01%	0.39%	0.00%	0.10%	5.41%	0.00%	0.09%	82.84%	1.62%	0.08%	0.08%	1.20%
20:L	0.14%	0.09%	0.04%	0.00%	3.67%	0.06%	0.99%	0.88%	0.00%	83.44%	0.02%	0.01%	5.27%	0.06%	1.51%	0.12%	0.05%	3.61%	0.00%	0.02%
21:T	6.23%	0.11%	0.12%	0.01%	0.22%	0.21%	0.08%	4.48%	0.22%	0.33%	0.42%	1.34%	4.57%	0.01%	0.50%	6.11%	74.34%	0.63%	0.01%	0.06%
22:C	0.17%	69.57%	0.51%	0.03%	3.14%	2.11%	1.04%	0.04%	0.03%	0.45%	0.00%	0.52%	0.36%	0.03%	2.32%	7.15%	0.10%	0.09%	2.29%	10.07%
23:T	6.10%	0.43%	0.24%	0.03%	0.30%	0.61%	0.14%	4.22%	0.12%	0.33%	0.10%	2.09%	9.70%	0.01%	0.52%	11.84%	62.44%	0.70%	0.01%	0.07%
24:V	5.01%	0.02%	1.67%	0.09%	0.67%	2.35%	0.01%	1.20%	0.00%	1.55%	0.11%	0.02%	0.07%	0.00%	0.03%	0.06%	0.10%	87.01%	0.00%	0.01%
25:S	1.61%	3.01%	0.06%	0.00%	2.41%	0.12%	0.07%	0.06%	0.00%	0.35%	0.00%	0.04%	3.55%	0.01%	0.12%	86.52%	1.06%	0.12%	0.08%	0.80%
26:G	4.77%	1.14%	7.57%	0.60%	0.09%	76.57%	0.49%	0.22%	0.04%	0.10%	0.00%	0.62%	0.42%	0.04%	1.50%	2.95%	0.70%	1.89%	0.04%	0.25%
27:G	8.95%	0.82%	18.54%	0.64%	0.08%	63.02%	0.36%	0.10%	0.03%	0.11%	0.00%	0.29%	0.15%	0.01%	0.71%	1.11%	0.26%	4.46%	0.07%	0.27%
28:S	1.54%	1.73%	0.03%	0.00%	1.58%	0.04%	0.07%	0.04%	0.00%	0.34%	0.00%	0.02%	5.05%	0.00%	0.07%	88.06%	0.77%	0.06%	0.03%	0.57%
29:I	0.53%	0.16%	0.12%	0.02%	5.10%	0.25%	0.07%	64.92%	0.31%	6.73%	3.19%	1.02%	0.32%	0.02%	1.05%	1.96%	4.14%	10.05%	0.01%	0.05%
30:S	1.03%	2.28%	1.15%	0.14%	0.42%	3.47%	1.15%	7.79%	1.88%	0.55%	0.52%	15.08%	1.09%	0.12%	12.27%	35.07%	14.76%	0.64%	0.16%	0.45%
31:S	1.14%	4.13%	1.66%	0.10%	0.47%	8.13%	0.82%	2.81%	0.41%	0.39%	0.06%	9.93%	0.59%	0.05%	5.64%	54.69%	7.90%	0.40%	0.15%	0.54%
32:Y	0.32%	10.61%	5.82%	0.26%	7.25%	0.46%	11.26%	0.19%	0.27%	1.72%	0.01%	3.09%	0.57%	0.36%	0.81%	6.39%	0.19%	0.24%	0.32%	49.83%
33:Y	0.16%	10.96%	3.10%	0.04%	7.61%	0.51%	7.60%	0.16%	0.46%	1.58%	0.01%	3.50%	0.44%	0.52%	0.68%	7.82%	0.28%	0.13%	0.39%	54.04%
34:W	0.04%	2.45%	0.01%	0.11%	0.10%	2.91%	0.02%	0.00%	0.05%	1.49%	0.03%	0.01%	0.10%	0.12%	4.57%	1.32%	0.03%	0.05%	86.40%	0.20%
35:S	0.89%	0.82%	1.21%	0.19%	0.07%	4.30%	0.46%	4.78%	4.05%	0.20%	0.63%	18.96%	0.40%	0.15%	16.14%	33.20%	12.94%	0.39%	0.08%	0.16%
36:W	0.05%	6.91%	0.03%	0.07%	0.22%	2.34%	0.08%	0.01%	0.07%	1.58%	0.03%	0.03%	0.15%	0.13%	5.84%	1.79%	0.04%	0.04%	80.05%	0.55%
37:I	0.48%	0.05%	0.07%	0.02%	1.46%	0.19%	0.03%	72.71%	0.38%	3.75%	2.92%	1.02%	0.28%	0.01%	0.62%	2.12%	7.50%	6.35%	0.00%	0.01%
38:R	0.02%	0.34%	0.01%	0.02%	0.00%	1.08%	0.17%	0.00%	0.01%	0.50%	0.01%	0.00%	0.83%	1.18%	93.44%	0.10%	0.02%	0.01%	2.25%	0.01%
39:Q	0.04%	0.00%	0.06%	1.38%	0.00%	0.08%	2.49%	0.01%	1.33%	3.33%	0.05%	0.26%	2.27%	84.03%	4.47%	0.04%	0.05%	0.03%	0.06%	0.01%
40:P	14.66%	0.51%	0.07%	0.02%	0.48%	0.15%	0.43%	0.24%	0.04%	0.51%	0.01%	0.30%	42.22%	0.01%	0.31%	27.77%	11.79%	0.18%	0.02%	0.29%
41:P	0.65%	0.00%	0.00%	0.05%	0.00%	0.01%	0.15%	0.02%	0.01%	1.71%	0.00%	0.00%	92.86%	0.65%	1.06%	1.76%	1.05%	0.02%	0.00%	0.00%
42:G	1.53%	0.05%	0.53%	7.32%	0.00%	85.82%	0.01%	0.02%	0.15%	0.13%	0.08%	0.01%	0.06%	0.16%	1.61%	0.16%	0.08%	2.05%	0.22%	0.00%
43:K	0.27%	0.00%	0.07%	7.63%	0.00%	0.27%	0.06%	0.06%	0.06%	76.20%	0.16%	1.11%	0.84%	0.17%	6.28%	4.27%	0.12%	2.31%	0.14%	0.03%
44:G	0.94%	0.03%	0.28%	2.77%	0.00%	85.15%	0.00%	0.07%	0.17%	0.04%	0.00%	0.02%	0.03%	0.04%	9.86%	0.19%	0.09%	0.30%	0.02%	0.00%
45:L	0.07%	0.00%	0.00%	0.04%	0.06%	0.04%	0.05%	0.09%	0.02%	90.26%	0.43%	0.00%	3.28%	1.29%	2.83%	0.12%	0.06%	1.31%	0.05%	0.00%
46:E	5.04%	0.01%	13.36%	63.98%	0.01%	7.22%	0.34%	0.06%	3.70%	0.21%	0.22%	0.80%	0.20%	1.61%	0.36%	0.13%	0.45%	2.15%	0.02%	0.11%
47:W	0.13%	6.84%	0.05%	0.31%	0.25%	3.38%	0.05%	0.02%	0.30%	1.73%	0.10%	0.03%	0.14%	0.09%	7.85%	3.07%	0.15%	0.16%	74.93%	0.43%
48:I	0.44%	0.08%	0.07%	0.02%	1.83%	0.13%	0.05%	73.72%	0.22%	3.45%	2.24%	0.92%	0.38%	0.01%	0.29%	2.08%	9.79%	4.28%	0.00%	0.02%
49:G	3.22%	0.18%	3.78%	6.16%	0.02%	81.06%	0.05%	0.08%	0.19%	0.17%	0.05%	0.07%	0.12%	0.12%	1.57%	0.45%	0.26%	2.13%	0.29%	0.02%
50:Y	0.37%	8.08%	4.34%	0.39%	9.86%	0.34%	10.02%	0.77%	0.43%	2.12%	0.03%	5.91%	0.86%	0.63%	0.96%	11.26%	0.78%	0.44%	0.25%	42.17%
51:I	0.70%	0.28%	0.22%	0.04%	10.96%	0.34%	0.12%	47.92%	0.23%	14.57%	4.90%	0.88%	0.46%	0.02%	0.51%	1.69%	3.13%	12.91%	0.03%	0.10%
52:Y	0.26%	10.99%	2.54%	0.13%	11.78%	0.27%	7.60%	0.22%	0.14%	1.52%	0.00%	3.76%	0.68%	0.47%	0.75%	13.03%	0.45%	0.16%	0.30%	44.93%
53:Y	0.30%	11.34%	6.30%	0.12%	8.06%	0.51%	10.13%	0.18%	0.26%	1.27%	0.01%	3.75%	0.31%	0.52%	0.86%	7.20%	0.16%	0.26%	0.12%	48.34%
54:S	0.34%	4.79%	0.47%	0.04%	0.24%	5.89%	0.50%	2.07%	0.47%	0.17%	0.05%	4.86%	0.28%	0.04%	9.42%	64.08%	5.68%	0.19%	0.12%	0.29%
55:G	2.12%	0.06%	0.82%	7.30%	0.01%	82.17%	0.02%	0.02%	0.21%	0.15%	0.07%	0.02%	0.05%	0.18%	3.36%	0.11%	0.11%	1.86%	1.37%	0.01%
56:S	0.31%	0.94%	0.81%	0.20%	0.08%	4.02%	0.27%	3.54%	2.70%	0.16%	0.27%	5.95%	0.15%	0.09%	37.15%	37.81%	3.59%	1.82%	0.05%	0.10%
57:T	7.32%	0.15%	0.30%	0.03%	0.34%	0.34%	0.14%	6.54%	0.31%	0.37%	0.19%	2.55%	3.14%	0.01%	1.15%	8.14%	68.09%	0.81%	0.01%	0.08%
58:N	0.44%	0.39%	3.37%	0.49%	0.26%	0.44%	3.21%	2.85%	10.34%	0.26%	0.25%	57.32%	0.35%	0.49%	2.07%	7.37%	7.56%	0.26%	0.01%	2.26%
59:Y	0.18%	10.22%	3.07%	0.07%	4.13%	0.52%	7.56%	0.15%	0.43%	1.41%	0.01%	3.58%	0.45%	0.25%	0.73%	8.81%	0.34%	0.10%	0.38%	57.64%
60:N	0.35%	0.41%	4.95%	0.62%	0.21%	0.49%	3.31%	2.39%	13.25%	0.21%	0.26%	58.39%	0.25%	0.36%	2.12%	5.50%	4.46%	0.16%	0.01%	2.26%
61:P	3.31%	0.13%	0.05%	0.00%	0.19%	0.06%	1.09%	0.13%	0.01%	1.76%	0.01%	0.07%	82.56%	0.05%	0.74%	6.34%	3.22%	0.17%	0.01%	0.10%
62:S	2.08%	2.78%	0.11%	0.00%	2.43%	0.10%	0.11%	0.02%	0.00%	0.45%	0.00%	0.06%	6.08%	0.00%	0.06%	83.25%	0.95%	0.17%	0.08%	1.26%
63:L	0.13%	0.08%	0.04%	0.00%	3.02%	0.06%	0.99%	0.86%	0.00%	84.13%	0.03%	0.01%	5.25%	0.11%	1.51%	0.14%	0.04%	3.58%	0.01%	0.02%
64:K	0.42%	0.01%	0.18%</																	