

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.11%	0.00%	0.11%	2.94%	0.00%	0.10%	4.27%	0.00%	2.95%	3.12%	0.10%	0.09%	3.04%	79.60%	3.15%	0.06%	0.11%	0.10%	0.05%	0.08%
2:S	0.96%	1.13%	0.01%	0.00%	1.09%	0.01%	0.01%	0.01%	0.00%	0.06%	0.00%	0.01%	2.13%	0.00%	0.02%	93.52%	0.67%	0.01%	0.01%	0.35%
3:V	1.66%	0.00%	0.08%	1.19%	0.17%	1.08%	0.00%	0.57%	0.03%	6.49%	2.96%	0.00%	0.10%	0.03%	0.05%	0.04%	0.11%	85.42%	0.01%	0.00%
4:L	0.07%	0.02%	0.00%	0.02%	0.88%	0.05%	0.00%	0.03%	0.01%	86.66%	1.06%	0.00%	0.12%	0.01%	0.11%	6.14%	0.05%	1.20%	3.58%	0.00%
5:T	3.35%	0.00%	0.00%	0.06%	0.00%	0.02%	0.00%	0.31%	1.74%	0.02%	0.90%	0.12%	1.80%	0.02%	0.87%	0.79%	89.95%	0.04%	0.01%	0.00%
6:Q	0.02%	0.00%	0.02%	1.23%	0.00%	0.03%	1.09%	0.00%	4.75%	1.31%	0.10%	0.04%	0.86%	88.28%	2.07%	0.02%	0.08%	0.04%	0.03%	0.01%
7:P	6.73%	0.00%	0.00%	0.03%	0.00%	0.01%	0.00%	0.00%	0.09%	0.31%	0.04%	0.00%	72.18%	0.21%	0.14%	14.21%	5.90%	0.05%	0.08%	0.00%
8:P	2.82%	0.01%	0.01%	0.00%	0.02%	0.01%	0.60%	0.02%	0.00%	0.25%	0.00%	0.03%	87.43%	0.01%	0.11%	6.09%	2.56%	0.01%	0.00%	0.02%
9:S	0.86%	0.04%	0.00%	0.02%	0.05%	0.01%	0.00%	0.01%	0.00%	1.17%	0.00%	0.00%	2.73%	0.01%	0.02%	94.55%	0.50%	0.01%	0.02%	0.01%
10:V	2.00%	0.00%	0.03%	1.77%	0.03%	1.45%	0.00%	0.20%	0.07%	4.67%	3.36%	0.00%	0.06%	0.03%	0.05%	0.03%	0.14%	86.10%	0.01%	0.00%
11:S	1.28%	1.08%	0.01%	0.00%	1.08%	0.01%	0.02%	0.01%	0.00%	0.07%	0.00%	0.01%	2.68%	0.00%	0.02%	92.57%	0.80%	0.02%	0.02%	0.33%
12:A	73.33%	0.00%	0.03%	3.77%	0.00%	2.21%	0.00%	0.01%	0.17%	0.50%	0.44%	0.00%	2.72%	0.06%	0.12%	1.47%	5.07%	10.06%	0.05%	0.00%
13:A	91.12%	0.01%	0.24%	0.04%	0.01%	0.77%	0.01%	0.04%	0.00%	0.01%	0.00%	0.03%	1.90%	0.00%	0.00%	0.89%	4.15%	0.79%	0.00%	0.00%
14:P	0.36%	0.00%	0.00%	0.01%	0.00%	0.00%	0.04%	0.01%	0.00%	0.90%	0.00%	0.00%	96.33%	0.36%	0.52%	0.90%	0.57%	0.00%	0.00%	0.00%
15:G	0.46%	0.01%	0.05%	1.54%	0.00%	92.53%	0.00%	0.03%	0.03%	0.02%	0.00%	0.00%	0.02%	0.01%	4.93%	0.09%	0.04%	0.23%	0.00%	0.00%
16:Q	0.01%	0.00%	0.02%	0.50%	0.00%	0.01%	1.45%	0.00%	0.38%	1.78%	0.01%	0.02%	1.34%	91.17%	3.23%	0.02%	0.01%	0.01%	0.02%	0.01%
17:K	0.04%	0.00%	0.09%	2.79%	0.00%	0.07%	0.04%	0.09%	87.98%	0.02%	0.46%	3.38%	0.02%	1.63%	1.87%	0.20%	1.29%	0.02%	0.01%	0.01%
18:V	2.62%	0.00%	0.74%	0.04%	0.10%	0.93%	0.00%	0.46%	0.00%	0.31%	0.01%	0.01%	0.01%	0.00%	0.01%	0.01%	0.03%	94.72%	0.00%	0.00%
19:T	3.54%	0.02%	0.03%	0.00%	0.05%	0.05%	0.02%	2.36%	0.02%	0.07%	0.02%	0.71%	2.46%	0.00%	0.22%	3.42%	86.86%	0.13%	0.00%	0.01%
20:I	0.15%	0.04%	0.03%	0.00%	3.09%	0.06%	0.02%	78.66%	0.13%	3.41%	3.37%	1.04%	0.09%	0.00%	0.12%	1.10%	2.97%	5.71%	0.00%	0.02%
21:S	1.51%	1.10%	0.02%	0.00%	1.14%	0.02%	0.05%	0.02%	0.00%	0.18%	0.00%	0.02%	4.09%	0.00%	0.04%	90.40%	0.65%	0.03%	0.02%	0.72%
22:C	0.07%	71.44%	0.25%	0.00%	3.21%	1.13%	0.46%	0.01%	0.01%	0.24%	0.00%	0.28%	0.12%	0.01%	1.01%	6.09%	0.03%	0.03%	4.74%	10.85%
23:S	0.73%	1.85%	0.01%	0.00%	1.47%	0.03%	0.02%	0.02%	0.00%	0.09%	0.00%	0.01%	1.99%	0.00%	0.02%	92.87%	0.36%	0.03%	0.02%	0.48%
24:G	1.14%	0.01%	0.28%	3.09%	0.00%	91.69%	0.00%	0.04%	0.05%	0.04%	0.00%	0.01%	0.04%	0.03%	2.90%	0.05%	0.07%	0.56%	0.01%	0.00%
25:S	0.17%	2.29%	0.48%	0.03%	0.14%	6.25%	0.45%	2.59%	0.57%	0.11%	0.05%	8.59%	0.12%	0.02%	26.18%	47.68%	3.77%	0.18%	0.02%	0.30%
26:S	0.19%	1.13%	0.43%	0.02%	0.07%	2.10%	0.26%	2.43%	0.76%	0.05%	0.09%	9.94%	0.08%	0.01%	7.69%	69.39%	5.06%	0.10%	0.06%	0.17%
27:S	0.87%	1.02%	0.01%	0.00%	0.88%	0.01%	0.02%	0.01%	0.00%	0.18%	0.00%	0.01%	2.62%	0.00%	0.02%	93.59%	0.38%	0.02%	0.03%	0.34%
28:N	0.18%	0.15%	1.81%	0.10%	0.06%	0.20%	1.70%	1.99%	4.18%	0.07%	0.03%	71.59%	0.13%	0.10%	1.94%	7.88%	6.30%	0.08%	0.00%	1.51%
29:I	0.22%	0.29%	0.09%	0.00%	2.78%	0.35%	0.10%	61.97%	0.12%	2.83%	1.16%	2.40%	0.17%	0.00%	0.57%	14.92%	8.04%	3.95%	0.00%	0.04%
30:G	1.00%	0.01%	0.20%	4.13%	0.00%	92.21%	0.00%	0.00%	0.06%	0.04%	0.02%	0.00%	0.02%	0.05%	0.92%	0.03%	0.04%	0.99%	0.28%	0.00%
31:N	0.18%	0.09%	3.98%	0.26%	0.08%	0.22%	2.84%	5.66%	4.88%	0.11%	0.15%	65.14%	0.11%	0.23%	0.61%	7.12%	7.20%	0.12%	0.00%	1.00%
32:N	0.31%	0.22%	5.81%	0.21%	0.26%	0.41%	3.04%	3.36%	1.94%	0.20%	0.04%	69.06%	0.15%	0.12%	0.30%	7.55%	5.36%	0.18%	0.00%	1.49%
33:Y	0.11%	6.81%	3.49%	0.27%	7.74%	0.13%	6.98%	0.08%	0.07%	0.36%	0.00%	2.73%	0.18%	0.20%	0.28%	6.97%	0.11%	0.07%	0.05%	63.36%
34:V	4.42%	0.01%	0.28%	3.66%	0.61%	2.66%	0.01%	7.77%	0.22%	15.27%	0.62%	0.02%	0.54%	0.21%	0.32%	0.40%	0.74%	62.25%	0.00%	0.00%
35:S	0.84%	6.04%	0.08%	0.00%	6.57%	0.06%	0.22%	0.04%	0.00%	0.68%	0.00%	0.12%	2.88%	0.00%	0.17%	77.70%	0.45%	0.06%	0.11%	3.97%
36:W	0.06%	10.63%	0.04%	0.12%	0.24%	6.30%	0.03%	0.00%	0.01%	0.52%	0.01%	0.02%	0.03%	0.03%	2.57%	1.02%	0.01%	0.04%	77.63%	0.68%
37:Y	0.08%	6.72%	5.66%	0.12%	3.30%	0.18%	6.35%	0.29%	0.59%	0.39%	0.01%	9.13%	0.09%	0.09%	0.27%	3.15%	0.13%	0.08%	0.06%	63.33%
38:Q	0.03%	0.03%	0.00%	1.40%	0.00%	0.03%	6.07%	0.01%	1.03%	1.69%	0.02%	0.07%	2.08%	84.49%	2.84%	0.03%	0.04%	0.04%	0.02%	0.06%
39:Q	0.05%	0.01%	0.46%	4.00%	0.01%	0.12%	5.36%	0.08%	20.37%	0.99%	0.41%	1.58%	0.71%	62.58%	2.44%	0.13%	0.37%	0.07%	0.09%	0.17%
40:L	0.18%	0.09%	0.02%	0.00%	6.26%	0.04%	0.31%	2.21%	0.01%	81.81%	0.06%	0.04%	2.12%	0.02%	0.74%	0.33%	0.15%	5.57%	0.00%	0.02%
41:P	1.13%	0.00%	0.00%	0.04%	0.00%	0.01%	0.04%	0.02%	0.01%	0.86%	0.00%	0.00%	93.10%	0.35%	0.53%	2.41%	1.44%	0.04%	0.00%	0.00%
42:G	1.00%	0.00%	0.15%	3.18%	0.00%	89.93%	0.00%	0.06%	0.06%	0.06%	0.00%	0.00%	0.04%	0.03%	4.85%	0.05%	0.08%	0.49%	0.00%	0.00%
43:T	3.96%	0.00%	0.02%	0.71%	0.01%	0.26%	0.01%	4.57%	2.07%	0.47%	0.33%	0.13%	2.24%	0.06%	3.09%	2.50%	79.21%	0.35%	0.00%	0.00%
44:A	63.04%	0.02%	7.49%	0.16%	0.11%	8.76%	0.01%	0.35%	0.00%	0.37%	0.01%	0.04%	0.60%	0.00%	0.02%	0.35%	1.07%	17.57%	0.00%	0.01%
45:P	0.31%	0.00%	0.00%	0.00%	0.01%	0.00%	0.57%	0.01%	0.00%	0.88%	0.00%	0.00%	96.81%	0.01%	0.37%	0.59%	0.42%	0.01%	0.00%	0.00%
46:K	0.15%	0.00%	0.16%	2.73%	0.01%	0.07%	0.16%	4.38%	73.62%	0.17%	0.23%	3.67%	0.12%	3.14%	5.78%	0.23%	5.24%	0.11%	0.00%	0.03%
47:L	0.18%	0.10%	0.05%	0.00%	8.65%	0.09%	0.64%	2.48%	0.00%	77.94%	0.12%	0.03%	1.51%	0.03%	0.27%	0.18%	0.08%	7.61%	0.00%	0.04%
48:L	0.06%	0.04%	0.02%	0.00%	2.62%	0.02%	0.47%	0.78%	0.00%	89.80%	0.01%	0.01%	2.67%	0.02%	0.84%	0.06%	0.02%	2.54%	0.00%	0.02%
49:I	0.16%	0.04%	0.04%	0.01%	2.78%	0.07%	0.03%	75.46%	0.16%	4.50%	4.88%	1.02%	0.11%	0.00%	0.20%	1.06%	3.00%	6.46%	0.00%	0.01%
50:Y	0.05%	6.60%	1.57%	0.04%	7.31%	0.06%	4.75%	0.07%	0.04%	0.46%	0.00%	2.46%	0.15%	0.20%	0.23%	7.32%	0.13%	0.04%	0.06%	68.45%
51:E	1.73%	0.00%	5.90%	83.44%	0.00%	3.05%	0.14%	0.07%	0.07%	0.35%	0.08%	0.00%	0.21%	0.09%	1.85%	0.24%	0.05%	0.21%	0.54%	0.00%
52:N	0.14%	0.25%	5.51%	0.37%	0.31%	0.23%	12.19%	5.40%	4.39%	0.57%	0.14%	55.40%	0.26%	0.81%	0.57%	5.08%	4.80%	0.40%	0.00%	3.19%
53:N	0.29%	0.21%	5.65%	0.39%	0.26%	0.39%	2.95%	3.45%	4.90%	0.21%	0.09%	66.86%	0.14%	0.24%	0.53%	7.17%	4.62%	0.19%	0.00%	1.45%
54:K	0.20%	0.00%	0.29%	5.63%	0.01%	0.36%	0.12%	0.30%	75.65%	0.38%	2.35%	3.57%	0.10%	2.46%	5.04%	0.25%	2.93%	0.20%	0.11%	0.04%
55:R	0.02%	0.10%	0.00%	0.05%	0.00%	3.87%	0.04%	0.01%	0.11%	0.19%	0.00%	0.01%	0.71%	0.60%	93.84%	0.17%	0.04%	0.01%	0.22%	0.00%
56:P	1.19%	0.06%	0.02%	0.00%	0.08%	0.02%	0.92%	0.05%	0.00%	1.37%	0.00%	0.04%	92.68%	0.02%	0.84%	1.44%	1.18%	0.05%	0.00%	0.04%
57:S	0.89%	0.03%	0.00%	0.03%	0.06%	0.01%	0.00%	0.01%	0.00%	1.15%	0.00%	0.00%	2.73%	0.01%	0.02%	94.53%	0.50%	0.01%	0.02%	0.02%
58:G	0.95%	0.02%	0.33%	4.05%	0.00%	92.22%	0.00%	0.01%	0.05%	0.04%	0.02%	0.01%	0.02%	0.04%	0.96%	0.06%	0.02%	1.09%	0.10%	0.00%
59:I	0.22%	0.02%	0.05%	0.00%	1.17%	0.07%	0.02%	81.45%	0.06%	1.74%	1.65%	0.81%	0.18%	0.00%	0.08%	1.31%	8.51%	2.65%	0.00%	0.01%
60:P	4.89%	0.24%	0.05%	0.00%	0.23%	0.10%	0.97%	0.23%	0.00%	1.75%	0.00%	0.12%	81.69%	0.05%	0.71%	5.58%	3.15%	0.17%	0.00%	0.06%
61:D	1.96%	0.02%	90.54%	1.84%	0.00%	3.82%	0.22%	0.01%	0.04%	0.01%	0.00%	0.45%	0.01%	0.02%	0.01%	0.03%	0.02%	0.79%	0.00%	0.21%
62:R	0.06%	0.04%	0.00%	0.08%	0.00%	1.09%	0.47%	0.01%	0.03%	1.17%	0.00%	0.00%	4.37%	3.72%	88.76%	0.07%	0.04%	0.04%	0.03%	0.00%
63:F	0.03%	1.60%	0.02%	0.00%	79.43%	0.03%	0.05%	0.83%	0.00%	14.16%	0.03%	0.03%	0.18%	0.00%	0.10%	1.65%	0.02%	1.31%	0.09%	0.44%
64:S	0.95%	1.78%	0.01%	0.00%	1.42%	0.03%														