

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:D	4.41%	0.25%	67.76%	3.68%	0.25%	4.40%	4.21%	0.25%	0.27%	0.26%	0.01%	4.09%	0.26%	0.19%	0.32%	0.48%	0.26%	4.39%	0.00%	4.27%
2:I	0.32%	0.09%	0.07%	0.01%	3.13%	0.13%	0.03%	79.40%	0.17%	2.83%	1.59%	0.96%	0.20%	0.00%	0.26%	1.75%	4.02%	5.02%	0.00%	0.03%
3:Q	0.04%	0.01%	0.07%	0.59%	0.00%	0.04%	3.60%	0.00%	0.71%	0.58%	0.01%	0.08%	2.08%	90.62%	1.29%	0.07%	0.07%	0.02%	0.02%	0.11%
4:M	0.34%	0.00%	0.00%	0.21%	0.02%	0.27%	0.00%	2.44%	3.55%	4.41%	73.86%	0.04%	0.12%	0.07%	3.51%	0.17%	5.76%	5.13%	0.09%	0.00%
5:T	5.90%	0.03%	0.07%	0.01%	0.04%	0.11%	0.05%	2.22%	0.26%	0.06%	0.04%	1.65%	2.91%	0.00%	0.21%	3.05%	83.24%	0.13%	0.00%	0.02%
6:Q	0.04%	0.00%	0.04%	0.78%	0.00%	0.03%	7.06%	0.00%	0.61%	2.65%	0.02%	0.04%	3.18%	81.27%	4.12%	0.03%	0.04%	0.03%	0.01%	0.04%
7:S	1.48%	1.86%	0.02%	0.00%	1.61%	0.04%	0.02%	0.04%	0.00%	0.15%	0.00%	0.02%	3.39%	0.00%	0.06%	89.64%	1.18%	0.04%	0.05%	0.40%
8:P	1.40%	0.01%	0.01%	0.06%	0.01%	0.02%	0.19%	0.03%	0.01%	3.12%	0.01%	0.00%	90.86%	1.24%	1.03%	1.48%	0.47%	0.05%	0.00%	0.00%
9:S	1.58%	8.30%	0.30%	0.01%	9.70%	0.26%	0.42%	0.10%	0.01%	1.41%	0.01%	0.23%	3.74%	0.01%	0.50%	65.98%	0.89%	0.25%	0.47%	5.82%
10:S	1.71%	2.33%	0.07%	0.00%	2.08%	0.08%	0.08%	0.02%	0.00%	0.32%	0.00%	0.05%	5.03%	0.00%	0.05%	86.06%	0.81%	0.11%	0.05%	1.14%
11:L	0.04%	0.00%	0.00%	0.05%	0.05%	0.02%	0.13%	0.03%	0.03%	88.15%	0.63%	0.00%	4.66%	2.80%	2.05%	0.05%	0.06%	1.23%	0.01%	0.00%
12:S	1.98%	1.77%	0.02%	0.00%	1.72%	0.03%	0.04%	0.03%	0.00%	0.19%	0.00%	0.02%	4.17%	0.00%	0.05%	88.01%	1.33%	0.04%	0.05%	0.52%
13:A	73.11%	0.01%	0.41%	4.08%	0.02%	1.16%	0.02%	0.48%	0.29%	0.30%	0.06%	0.04%	5.60%	0.09%	0.23%	2.81%	9.82%	1.46%	0.01%	0.01%
14:S	1.33%	9.65%	0.12%	0.01%	8.43%	0.31%	0.24%	0.25%	0.00%	0.94%	0.00%	0.11%	4.03%	0.01%	0.56%	69.99%	1.41%	0.31%	0.14%	2.14%
15:V	7.00%	0.01%	0.20%	5.70%	0.40%	4.49%	0.02%	7.15%	0.28%	12.64%	0.76%	0.02%	0.76%	0.17%	0.29%	0.48%	1.15%	58.47%	0.01%	0.00%
16:G	0.64%	0.03%	0.19%	1.61%	0.00%	88.11%	0.01%	0.04%	0.07%	0.06%	0.00%	0.01%	0.07%	0.08%	8.52%	0.17%	0.09%	0.26%	0.02%	0.00%
17:D	3.09%	0.06%	84.17%	1.35%	0.03%	6.59%	0.92%	0.07%	0.09%	0.03%	0.00%	1.24%	0.07%	0.05%	0.06%	0.12%	0.14%	1.53%	0.00%	0.39%
18:R	0.09%	0.06%	0.02%	0.15%	0.00%	4.87%	0.01%	0.90%	2.42%	0.07%	0.06%	0.24%	0.07%	0.08%	85.41%	2.69%	2.81%	0.04%	0.02%	0.00%
19:T	4.53%	0.03%	1.48%	0.09%	1.08%	2.85%	0.02%	3.50%	0.01%	2.08%	0.08%	0.05%	0.13%	0.00%	0.07%	0.13%	0.25%	83.62%	0.00%	0.01%
20:V	5.46%	0.06%	0.07%	0.00%	0.13%	0.12%	0.05%	3.48%	0.06%	0.19%	0.06%	1.08%	3.86%	0.00%	0.51%	5.05%	79.44%	0.34%	0.00%	0.02%
21:I	0.35%	0.12%	0.08%	0.01%	4.62%	0.16%	0.04%	70.95%	0.18%	5.35%	2.42%	0.86%	0.21%	0.00%	0.68%	1.75%	3.52%	8.64%	0.00%	0.03%
22:T	4.97%	0.11%	0.06%	0.01%	0.12%	0.14%	0.04%	2.32%	0.07%	0.10%	0.07%	1.04%	4.62%	0.00%	0.16%	7.02%	78.93%	0.19%	0.00%	0.03%
23:C	0.04%	83.05%	0.21%	0.01%	0.92%	2.32%	0.32%	0.03%	0.01%	0.14%	0.00%	0.16%	0.07%	0.00%	4.92%	2.86%	0.03%	0.02%	2.37%	2.51%
24:Q	0.03%	0.00%	0.01%	1.18%	0.00%	0.04%	0.75%	0.00%	0.76%	1.42%	0.03%	0.01%	4.22%	88.10%	3.28%	0.03%	0.11%	0.02%	0.01%	0.00%
25:A	88.26%	0.00%	0.04%	1.60%	0.00%	0.87%	0.00%	0.01%	0.03%	0.17%	0.19%	0.00%	1.26%	0.01%	0.02%	0.76%	3.05%	3.72%	0.01%	0.00%
26:S	0.08%	1.57%	0.13%	0.01%	0.02%	6.08%	0.20%	1.09%	0.12%	0.06%	0.03%	3.41%	0.10%	0.00%	8.58%	76.52%	1.85%	0.06%	0.04%	0.03%
27:Q	0.02%	0.00%	0.05%	0.54%	0.00%	0.05%	3.52%	0.00%	0.60%	2.19%	0.02%	0.03%	4.73%	84.23%	3.84%	0.03%	0.04%	0.03%	0.06%	0.03%
28:D	2.39%	0.04%	84.25%	4.26%	0.02%	2.85%	0.72%	0.07%	0.17%	0.02%	0.00%	2.23%	0.02%	0.05%	0.06%	0.14%	0.09%	2.23%	0.00%	0.38%
29:I	0.40%	0.15%	0.16%	0.03%	3.98%	0.21%	0.17%	62.91%	0.50%	4.80%	5.26%	2.20%	0.45%	0.02%	0.74%	3.61%	8.31%	6.05%	0.01%	0.05%
30:S	0.71%	3.06%	1.54%	0.12%	0.49%	8.56%	0.51%	5.47%	1.34%	0.53%	0.16%	8.43%	0.22%	0.04%	30.52%	32.28%	4.51%	0.64%	0.26%	0.64%
31:N	0.38%	0.30%	6.70%	0.59%	0.19%	0.42%	4.68%	2.58%	9.05%	0.21%	0.23%	58.51%	0.24%	0.31%	1.45%	6.03%	5.71%	0.20%	0.01%	2.20%
32:Y	0.20%	10.05%	2.57%	0.11%	10.80%	0.20%	5.51%	0.15%	0.07%	0.92%	0.00%	2.76%	0.50%	0.15%	0.42%	11.10%	0.27%	0.10%	0.16%	53.95%
33:L	0.21%	0.13%	0.00%	0.07%	6.85%	0.04%	0.01%	0.74%	0.02%	78.62%	0.11%	0.00%	0.37%	0.11%	0.11%	10.47%	0.08%	1.87%	0.16%	0.04%
34:N	0.56%	0.60%	5.65%	0.50%	0.51%	0.70%	5.21%	5.41%	5.48%	0.58%	0.23%	45.81%	0.62%	1.32%	1.36%	11.69%	10.28%	0.55%	0.01%	2.94%
35:W	0.06%	13.01%	0.08%	0.08%	0.62%	2.52%	0.12%	0.01%	0.03%	1.04%	0.02%	0.04%	0.09%	0.04%	5.28%	1.98%	0.04%	0.05%	73.54%	1.37%
36:Y	0.27%	17.56%	3.91%	0.10%	8.26%	0.37%	9.28%	0.59%	0.18%	1.25%	0.01%	5.60%	0.59%	0.22%	0.81%	8.91%	0.42%	0.39%	0.26%	41.04%
37:Q	0.16%	0.02%	0.21%	3.03%	0.02%	0.19%	7.81%	0.03%	2.00%	3.37%	0.08%	0.18%	4.16%	71.76%	6.29%	0.10%	0.12%	0.22%	0.12%	0.12%
38:Q	0.22%	0.01%	0.25%	5.95%	0.01%	0.33%	1.40%	0.07%	25.59%	1.77%	1.09%	0.67%	1.19%	54.09%	5.52%	0.21%	0.91%	0.22%	0.43%	0.06%
39:K	0.30%	0.01%	0.29%	2.85%	0.01%	0.43%	0.14%	2.23%	65.70%	0.09%	0.37%	7.15%	0.18%	1.58%	10.64%	0.86%	7.08%	0.07%	0.01%	0.03%
40:P	5.65%	0.02%	0.03%	1.66%	0.05%	0.45%	0.23%	0.37%	0.19%	3.63%	0.03%	0.01%	64.45%	1.18%	2.14%	13.21%	6.21%	0.47%	0.01%	0.02%
41:G	1.30%	0.02%	0.36%	6.29%	0.00%	88.25%	0.01%	0.01%	0.11%	0.08%	0.05%	0.01%	0.03%	0.11%	1.29%	0.10%	0.05%	1.73%	0.19%	0.00%
42:K	0.25%	0.01%	0.56%	6.19%	0.01%	0.46%	0.41%	1.47%	65.76%	0.11%	0.13%	7.43%	0.15%	3.55%	6.90%	0.97%	5.50%	0.09%	0.00%	0.07%
43:A	51.20%	0.04%	9.67%	0.34%	0.09%	11.99%	0.07%	0.31%	0.01%	0.24%	0.01%	0.13%	0.61%	0.00%	0.06%	0.54%	1.30%	23.34%	0.00%	0.04%
44:P	0.65%	0.03%	0.01%	0.00%	0.02%	0.02%	0.36%	0.03%	0.00%	0.95%	0.00%	0.01%	94.35%	0.05%	0.63%	1.74%	1.07%	0.05%	0.00%	0.01%
45:K	0.56%	0.04%	1.60%	10.10%	0.05%	0.79%	0.56%	1.01%	57.35%	0.66%	2.82%	6.43%	0.31%	4.72%	6.87%	1.16%	4.31%	0.36%	0.15%	0.14%
46:L	0.44%	0.22%	0.06%	0.01%	8.58%	0.11%	0.45%	3.07%	0.03%	73.40%	0.22%	0.10%	2.96%	0.05%	1.11%	0.73%	0.34%	8.06%	0.01%	0.06%
47:L	0.10%	0.01%	0.00%	0.05%	0.36%	0.04%	0.11%	0.44%	0.05%	88.48%	1.24%	0.00%	3.33%	1.74%	1.64%	0.18%	0.14%	2.04%	0.04%	0.00%
48:I	0.37%	0.05%	0.12%	0.03%	1.95%	0.17%	0.04%	72.89%	0.66%	4.01%	5.73%	1.28%	0.15%	0.01%	0.58%	1.31%	4.08%	6.59%	0.00%	0.02%
49:Y	0.14%	9.66%	3.69%	0.05%	5.15%	0.27%	11.04%	0.15%	0.57%	1.19%	0.01%	5.98%	0.49%	0.29%	1.00%	5.24%	0.35%	0.09%	0.06%	54.58%
50:D	1.74%	0.25%	54.12%	8.22%	0.25%	3.47%	12.57%	0.37%	0.77%	0.42%	0.02%	9.99%	0.50%	0.77%	0.67%	1.36%	1.16%	0.83%	0.00%	2.51%
51:A	57.17%	0.02%	0.43%	4.13%	0.04%	1.12%	0.02%	0.99%	0.53%	0.51%	0.09%	0.05%	9.64%	0.15%	0.43%	6.18%	17.14%	1.34%	0.01%	0.01%
52:S	1.67%	2.12%	0.11%	0.01%	2.19%	0.12%	0.13%	0.11%	0.00%	0.73%	0.01%	0.08%	4.15%	0.00%	0.15%	85.63%	1.00%	0.20%	0.14%	1.45%
53:N	0.44%	0.31%	3.07%	0.21%	0.18%	0.43%	3.76%	2.42%	3.16%	0.18%	0.05%	60.14%	0.37%	0.21%	1.00%	11.89%	10.61%	0.13%	0.01%	1.44%
54:L	0.13%	0.06%	0.00%	0.05%	1.32%	0.08%	0.00%	0.07%	0.02%	87.17%	0.79%	0.00%	0.25%	0.07%	0.25%	4.14%	0.07%	2.79%	2.73%	0.01%
55:E	3.70%	0.00%	8.69%	72.18%	0.00%	6.75%	0.21%	0.22%	3.78%	0.14%	0.02%	0.41%	0.15%	1.42%	0.67%	0.12%	0.46%	1.02%	0.00%	0.04%
56:T	5.28%	0.01%	0.03%	1.51%	0.04%	0.52%	0.02%	5.58%	2.81%	0.95%	0.64%	0.12%	3.63%	0.17%	4.46%	4.55%	69.02%	0.63%	0.00%	0.01%
57:G	0.34%	0.02%	0.12%	1.38%	0.00%	96.03%	0.00%	0.00%	0.03%	0.02%	0.01%	0.00%	0.01%	0.03%	1.34%	0.06%	0.01%	0.38%	0.22%	0.00%
58:V	4.08%	0.01%	0.89%	0.13%	0.42%	1.86%	0.01%	2.06%	0.02%	0.96%	0.11%	0.02%	0.05%	0.00%	0.02%	0.07%	0.13%	89.14%	0.00%	0.00%
59:P	1.81%	0.00%	0.00%	0.04%	0.02%	0.04%	0.07%	0.05%	0.02%	1.33%	0.00%	0.00%	88.97%	0.57%	0.77%	3.87%	2.31%	0.12%	0.00%	0.00%
60:S	1.78%	0.15%	0.02%	0.40%	0.30%	0.09%	0.01%	0.10%	0.03%	3.03%	0.01%	0.00%	3.77%	0.03%	0.10%	88.98%	0.88%	0.17%	0.09%	0.06%
61:R	0.25%	0.37%	0.17%	0.78%	0.02%	10.79%	0.23%	0.52%	4.55%	0.39%	1.47%	0.92%	0.37%	0.63%	64.72%	6.65%	2.46%	0.31%	4.35%	0.05%
62:F	0.13%	2.08%	0.06%	0.00%	71.09%	0.06%	0.06%	2.79%	0.00%	15.60%	0.08%	0.06%	0.23%	0.00%	0.12%	2.82%	0.07%	4.15%	0.13%	0.46%
63:S	0.28%	2.91%	0.35%	0.02%	0.12%	4.59%	0.28%	1.94%	0.37%	0.12%	0.04%	4.78%	0.28%	0.02%	9.21%	69.45%	4.89%	0.13%	0.08%	0.15%
64:S	1.81%	0.04%	0.66%	4.77%	0.00%															