

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:D	4.18%	0.22%	64.76%	8.15%	0.21%	4.23%	3.83%	0.23%	0.42%	0.25%	0.01%	3.78%	0.25%	0.39%	0.26%	0.45%	0.23%	4.20%	0.01%	3.95%
2:I	0.63%	0.25%	0.21%	0.03%	10.11%	0.29%	0.13%	55.31%	0.14%	9.25%	1.55%	1.90%	0.77%	0.01%	0.30%	3.95%	6.23%	8.86%	0.01%	0.08%
3:V	3.65%	0.00%	0.20%	2.52%	0.19%	2.35%	0.00%	1.15%	0.10%	9.50%	3.64%	0.01%	0.22%	0.10%	0.13%	0.16%	0.30%	75.70%	0.05%	0.00%
4:M	0.26%	0.00%	0.00%	0.18%	0.02%	0.18%	0.00%	2.27%	3.34%	4.18%	75.82%	0.04%	0.11%	0.07%	3.43%	0.12%	5.49%	4.42%	0.05%	0.00%
5:T	5.60%	0.03%	0.06%	0.01%	0.04%	0.09%	0.04%	2.16%	0.23%	0.06%	0.04%	1.55%	2.78%	0.00%	0.18%	2.88%	84.13%	0.12%	0.00%	0.02%
6:Q	0.03%	0.00%	0.01%	0.80%	0.00%	0.04%	0.66%	0.00%	0.64%	0.42%	0.01%	0.01%	1.90%	94.36%	1.06%	0.02%	0.03%	0.01%	0.00%	0.00%
7:T	1.37%	0.02%	0.02%	0.01%	0.02%	0.07%	0.01%	2.56%	0.05%	0.03%	0.04%	0.84%	0.91%	0.00%	0.12%	3.29%	90.57%	0.07%	0.00%	0.00%
8:P	1.28%	0.00%	0.01%	0.12%	0.01%	0.04%	0.16%	0.03%	0.02%	6.51%	0.00%	0.00%	84.28%	2.70%	2.94%	1.36%	0.41%	0.10%	0.00%	0.00%
9:L	0.09%	0.07%	0.03%	0.00%	2.40%	0.05%	0.98%	0.69%	0.00%	85.99%	0.05%	0.02%	4.76%	0.04%	1.36%	0.11%	0.05%	3.28%	0.00%	0.02%
10:S	2.24%	1.42%	0.04%	0.00%	1.54%	0.04%	0.11%	0.03%	0.00%	0.38%	0.00%	0.05%	6.04%	0.00%	0.09%	85.95%	0.96%	0.08%	0.09%	0.95%
11:S	1.22%	0.09%	0.00%	0.07%	0.13%	0.02%	0.00%	0.01%	0.01%	1.01%	0.00%	0.00%	4.08%	0.02%	0.03%	92.42%	0.80%	0.02%	0.05%	0.03%
12:P	1.56%	0.31%	0.09%	0.02%	0.31%	0.17%	2.20%	0.13%	0.00%	6.09%	0.00%	0.04%	78.43%	0.12%	4.88%	4.18%	1.10%	0.27%	0.00%	0.08%
13:V	4.45%	0.01%	1.28%	0.08%	0.51%	2.12%	0.01%	1.02%	0.00%	1.14%	0.03%	0.02%	0.04%	0.00%	0.02%	0.04%	0.06%	89.16%	0.00%	0.00%
14:T	4.98%	0.05%	0.14%	0.01%	0.07%	0.14%	0.04%	1.14%	0.11%	0.06%	0.08%	1.11%	3.73%	0.00%	0.08%	4.13%	83.80%	0.31%	0.00%	0.03%
15:L	0.05%	0.01%	0.01%	0.00%	0.80%	0.01%	0.65%	0.31%	0.00%	88.17%	0.01%	0.01%	8.16%	0.08%	0.82%	0.14%	0.06%	0.70%	0.00%	0.01%
16:G	0.58%	0.02%	0.12%	1.59%	0.00%	94.50%	0.00%	0.03%	0.03%	0.04%	0.00%	0.00%	0.04%	0.02%	2.62%	0.10%	0.08%	0.23%	0.01%	0.00%
17:Q	0.02%	0.00%	0.03%	0.72%	0.00%	0.04%	1.79%	0.00%	0.55%	3.58%	0.02%	0.05%	2.14%	85.49%	5.43%	0.04%	0.03%	0.02%	0.04%	0.01%
18:P	9.24%	0.00%	0.00%	0.06%	0.00%	0.03%	0.00%	0.00%	0.06%	0.59%	0.07%	0.00%	62.39%	0.11%	0.13%	18.96%	8.02%	0.14%	0.19%	0.00%
19:A	86.51%	0.01%	0.74%	0.02%	0.01%	0.64%	0.02%	0.08%	0.01%	0.02%	0.00%	0.07%	2.95%	0.00%	0.01%	1.47%	6.50%	0.95%	0.00%	0.01%
20:S	1.75%	1.32%	0.02%	0.00%	1.23%	0.03%	0.04%	0.02%	0.00%	0.15%	0.00%	0.02%	4.86%	0.00%	0.03%	89.34%	0.76%	0.04%	0.01%	0.38%
21:I	0.33%	0.09%	0.08%	0.01%	4.26%	0.13%	0.05%	69.13%	0.27%	5.18%	4.50%	1.43%	0.21%	0.01%	0.27%	1.56%	4.20%	8.23%	0.00%	0.04%
22:S	2.24%	1.57%	0.04%	0.00%	1.72%	0.05%	0.11%	0.04%	0.00%	0.39%	0.00%	0.05%	5.97%	0.00%	0.09%	85.56%	0.97%	0.08%	0.05%	1.06%
23:C	0.09%	77.28%	0.32%	0.00%	2.43%	1.57%	0.66%	0.02%	0.01%	0.27%	0.00%	0.33%	0.21%	0.02%	1.48%	5.79%	0.06%	0.04%	0.54%	8.87%
24:R	0.12%	0.04%	0.01%	0.29%	0.00%	3.91%	0.01%	0.09%	4.96%	0.10%	1.57%	0.13%	0.09%	0.11%	83.45%	1.11%	2.12%	0.10%	1.81%	0.00%
25:S	2.89%	7.12%	0.10%	0.00%	5.74%	0.12%	0.16%	0.22%	0.01%	0.85%	0.01%	0.11%	5.50%	0.00%	0.24%	72.39%	2.20%	0.27%	0.23%	1.84%
26:S	0.16%	6.16%	0.24%	0.01%	0.09%	8.28%	0.11%	0.65%	0.07%	0.06%	0.01%	1.56%	0.10%	0.00%	8.34%	72.51%	1.34%	0.07%	0.14%	0.09%
27:Q	0.04%	0.01%	0.11%	0.83%	0.01%	0.05%	13.26%	0.04%	0.64%	1.95%	0.00%	0.12%	3.41%	73.94%	5.35%	0.03%	0.04%	0.09%	0.00%	0.09%
28:S	0.08%	5.65%	0.18%	0.01%	0.05%	9.57%	0.12%	0.45%	0.13%	0.04%	0.03%	1.44%	0.04%	0.01%	9.17%	71.97%	0.71%	0.06%	0.14%	0.15%
29:L	0.04%	0.01%	0.01%	0.00%	0.64%	0.01%	0.61%	0.39%	0.00%	92.19%	0.01%	0.01%	3.61%	0.03%	1.30%	0.04%	0.02%	1.09%	0.00%	0.00%
30:V	10.34%	0.01%	0.23%	3.20%	0.63%	3.40%	0.03%	13.14%	0.45%	17.09%	1.28%	0.03%	0.74%	0.51%	0.91%	0.63%	1.01%	46.37%	0.01%	0.00%
31:H	0.10%	0.45%	2.23%	0.15%	0.30%	0.16%	77.74%	0.09%	0.21%	1.63%	0.01%	2.41%	1.58%	5.80%	2.47%	0.37%	0.08%	0.12%	0.01%	4.12%
32:S	0.22%	3.86%	0.31%	0.02%	0.13%	4.51%	0.38%	1.97%	0.17%	0.10%	0.03%	4.94%	0.16%	0.02%	6.02%	71.58%	5.21%	0.12%	0.07%	0.20%
33:D	2.22%	0.26%	68.67%	6.59%	0.25%	3.84%	5.33%	0.25%	0.47%	0.20%	0.01%	6.10%	0.17%	0.45%	0.29%	0.89%	0.38%	0.96%	0.00%	2.67%
34:G	1.44%	0.02%	0.57%	4.25%	0.00%	83.48%	0.01%	0.14%	0.14%	0.16%	0.01%	0.02%	0.17%	0.09%	8.26%	0.18%	0.29%	0.74%	0.01%	0.01%
35:N	0.35%	0.27%	8.95%	0.75%	0.25%	0.71%	6.13%	3.86%	6.34%	0.25%	0.14%	58.88%	0.15%	0.39%	1.88%	4.97%	3.61%	0.39%	0.00%	1.70%
36:T	7.43%	0.10%	0.11%	0.01%	0.17%	0.17%	0.05%	4.08%	0.12%	0.15%	0.24%	1.30%	4.94%	0.00%	0.31%	6.86%	73.50%	0.39%	0.01%	0.06%
37:Y	0.13%	9.77%	3.61%	0.07%	6.04%	0.24%	7.52%	0.10%	0.34%	0.91%	0.01%	4.38%	0.32%	0.14%	0.37%	5.63%	0.21%	0.08%	0.30%	59.84%
38:L	0.04%	0.08%	0.00%	0.02%	3.99%	0.04%	0.00%	0.10%	0.03%	89.03%	1.10%	0.00%	0.26%	0.12%	0.19%	2.09%	0.06%	1.46%	1.38%	0.02%
39:S	0.42%	1.21%	0.74%	0.02%	0.06%	3.80%	0.30%	1.47%	0.67%	0.09%	0.06%	9.06%	0.25%	0.04%	6.25%	69.95%	5.36%	0.11%	0.03%	0.11%
40:W	0.01%	10.35%	0.00%	0.01%	0.09%	1.01%	0.01%	0.00%	0.01%	0.45%	0.00%	0.01%	0.02%	0.02%	4.55%	0.65%	0.01%	0.01%	82.63%	0.16%
41:L	0.12%	0.03%	0.03%	0.00%	1.29%	0.04%	0.91%	0.81%	0.00%	78.28%	0.02%	0.02%	15.74%	0.08%	0.91%	0.16%	0.12%	1.44%	0.00%	0.01%
42:Q	0.22%	0.04%	0.25%	4.12%	0.02%	0.36%	7.43%	0.04%	2.67%	3.16%	0.08%	0.20%	3.70%	71.20%	5.52%	0.17%	0.17%	0.21%	0.33%	0.12%
43:Q	0.19%	0.01%	0.19%	5.75%	0.01%	0.30%	2.14%	0.06%	25.11%	1.70%	1.00%	0.81%	1.12%	54.82%	5.12%	0.18%	0.82%	0.20%	0.38%	0.09%
44:R	0.03%	0.02%	0.00%	0.04%	0.00%	6.88%	0.00%	0.04%	0.85%	0.05%	0.62%	0.04%	0.03%	0.05%	87.61%	1.23%	0.52%	0.03%	1.94%	0.00%
45:P	0.33%	0.00%	0.00%	0.01%	0.00%	0.01%	0.11%	0.02%	0.01%	2.13%	0.00%	0.01%	92.92%	0.79%	1.21%	1.57%	0.85%	0.03%	0.00%	0.00%
46:G	0.77%	0.32%	2.03%	0.07%	0.01%	94.95%	0.01%	0.01%	0.00%	0.02%	0.00%	0.01%	0.01%	0.00%	0.45%	0.81%	0.01%	0.51%	0.00%	0.01%
47:Q	0.03%	0.00%	0.03%	1.08%	0.00%	0.04%	1.53%	0.00%	0.80%	2.77%	0.02%	0.01%	3.27%	85.71%	4.61%	0.02%	0.04%	0.03%	0.01%	0.01%
48:P	2.93%	0.19%	0.02%	0.01%	0.11%	0.05%	0.29%	0.08%	0.00%	0.48%	0.00%	0.08%	83.56%	0.01%	0.79%	7.74%	3.54%	0.08%	0.00%	0.03%
49:P	1.10%	0.01%	0.00%	0.19%	0.01%	0.06%	0.16%	0.02%	0.01%	3.43%	0.00%	0.00%	88.79%	0.96%	3.61%	1.19%	0.38%	0.07%	0.00%	0.00%
50:R	0.08%	0.02%	0.01%	0.14%	0.00%	3.09%	0.01%	0.41%	1.19%	0.06%	0.02%	0.06%	0.10%	0.08%	92.54%	1.17%	0.95%	0.03%	0.04%	0.00%
51:L	0.09%	0.04%	0.03%	0.00%	2.45%	0.05%	1.01%	0.78%	0.00%	88.84%	0.04%	0.04%	2.88%	0.06%	0.59%	0.09%	0.04%	2.93%	0.00%	0.01%
52:L	0.61%	0.01%	0.03%	0.47%	0.88%	0.32%	0.29%	2.72%	0.12%	73.59%	0.24%	0.01%	5.11%	3.15%	2.98%	1.01%	0.23%	8.21%	0.01%	0.01%
53:I	0.77%	0.11%	0.24%	0.01%	4.88%	0.25%	0.15%	59.39%	0.09%	7.54%	1.31%	1.85%	0.75%	0.01%	0.17%	2.19%	10.38%	9.83%	0.00%	0.07%
54:Y	0.28%	9.49%	4.87%	0.28%	12.20%	0.26%	7.99%	0.19%	0.19%	1.64%	0.01%	3.04%	0.42%	0.65%	0.51%	11.34%	0.23%	0.24%	0.21%	45.97%
55:K	0.38%	0.02%	0.67%	8.32%	0.02%	0.75%	0.24%	0.54%	65.04%	0.71%	2.80%	4.46%	0.18%	3.64%	7.21%	0.47%	3.84%	0.36%	0.25%	0.09%
56:I	0.32%	0.03%	0.13%	0.01%	1.16%	0.16%	0.06%	72.84%	0.29%	1.97%	2.06%	3.28%	0.18%	0.00%	0.27%	2.87%	11.29%	3.06%	0.00%	0.02%
57:S	2.00%	10.00%	0.16%	0.01%	10.13%	0.14%	0.26%	0.11%	0.00%	1.62%	0.00%	0.10%	1.83%	0.01%	0.26%	69.24%	0.63%	0.21%	0.25%	3.02%
58:N	0.47%	0.37%	9.40%	0.88%	0.40%	0.77%	4.13%	4.10%	7.41%	0.43%	0.19%	56.80%	0.25%	0.38%	1.39%	6.15%	4.05%	0.41%	0.02%	2.01%
59:R	0.05%	0.27%	0.02%	0.08%	0.02%	0.77%	1.62%	0.01%	0.11%	2.03%	0.03%	0.03%	3.35%	4.19%	85.09%	0.20%	0.06%	0.08%	1.99%	0.03%
60:F	0.17%	2.58%	0.08%	0.00%	70.55%	0.11%	0.06%	2.57%	0.01%	15.91%	0.11%	0.07%	0.21%	0.00%	0.12%	2.88%	0.07%	3.76%	0.19%	0.54%
61:S	1.32%	2.61%	0.03%	0.00%	2.12%	0.07%	0.04%	0.03%	0.00%	0.22%	0.00%	0.03%	2.72%	0.00%	0.07%	89.12%	0.81%	0.08%	0.05%	0.67%
62:G	0.38%	0.02%	0.14%	1.51%	0.00%	94.69%	0.00%	0.00%	0.03%	0.02%	0.01%	0.00%	0.01%	0.02%	2.10%	0.05%	0.03%	0.39%	0.58%	0.00%
63:V	3.88%	0.01%	0.81%	0.12%	0.40%	1.75%	0.01%	1.92%	0.01%	0.89%	0.09%	0.02%	0.04%	0.00%	0.02%	0.06%	0.12%	89.85%	0.00%	0.00%
64:P	1.68%	0.00%	0.00%	0.09%	0.00%	0.0														