

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:D	3.79%	0.18%	67.95%	7.58%	0.18%	3.80%	3.50%	0.17%	0.36%	0.20%	0.01%	3.50%	0.19%	0.33%	0.20%	0.36%	0.20%	3.84%	0.00%	3.65%
2:I	0.53%	0.19%	0.15%	0.02%	9.32%	0.25%	0.10%	59.00%	0.12%	8.59%	1.47%	1.75%	0.63%	0.01%	0.24%	3.51%	5.80%	8.23%	0.00%	0.06%
3:V	3.32%	0.00%	0.16%	2.31%	0.16%	2.13%	0.00%	0.99%	0.09%	8.54%	3.39%	0.00%	0.17%	0.08%	0.10%	0.13%	0.24%	78.15%	0.04%	0.00%
4:M	0.20%	0.00%	0.00%	0.14%	0.02%	0.14%	0.00%	2.04%	3.03%	3.67%	78.47%	0.03%	0.08%	0.06%	3.07%	0.10%	4.92%	3.97%	0.05%	0.00%
5:T	5.03%	0.02%	0.05%	0.01%	0.03%	0.07%	0.04%	1.98%	0.18%	0.04%	0.03%	1.45%	2.52%	0.00%	0.15%	2.58%	85.71%	0.09%	0.00%	0.02%
6:Q	0.02%	0.00%	0.01%	0.71%	0.00%	0.03%	0.59%	0.00%	0.57%	0.36%	0.01%	0.01%	1.70%	95.03%	0.93%	0.01%	0.02%	0.01%	0.00%	0.00%
7:T	1.23%	0.02%	0.01%	0.00%	0.02%	0.05%	0.01%	2.33%	0.04%	0.02%	0.03%	0.76%	0.83%	0.00%	0.09%	2.92%	91.58%	0.05%	0.00%	0.00%
8:P	1.16%	0.00%	0.01%	0.09%	0.01%	0.03%	0.13%	0.02%	0.01%	5.92%	0.00%	0.00%	85.90%	2.45%	2.64%	1.17%	0.36%	0.08%	0.00%	0.00%
9:L	0.06%	0.05%	0.02%	0.00%	2.14%	0.04%	0.86%	0.60%	0.00%	87.41%	0.04%	0.01%	4.35%	0.03%	1.30%	0.08%	0.04%	2.92%	0.00%	0.02%
10:S	1.27%	2.07%	0.01%	0.00%	1.22%	0.04%	0.02%	0.01%	0.00%	0.13%	0.00%	0.01%	2.37%	0.00%	0.07%	91.70%	0.74%	0.03%	0.03%	0.28%
11:L	0.05%	0.00%	0.00%	0.04%	0.04%	0.03%	0.05%	0.02%	0.01%	90.61%	0.60%	0.00%	3.63%	1.17%	1.34%	0.05%	0.03%	2.30%	0.02%	0.00%
12:S	2.19%	0.35%	0.02%	0.00%	0.69%	0.02%	0.03%	0.03%	0.00%	0.10%	0.00%	0.02%	4.00%	0.00%	0.02%	91.07%	1.12%	0.03%	0.01%	0.31%
13:V	3.92%	0.01%	1.00%	0.07%	0.50%	1.89%	0.02%	1.27%	0.00%	2.02%	0.03%	0.01%	0.06%	0.00%	0.03%	0.04%	0.06%	89.07%	0.00%	0.00%
14:T	4.48%	0.04%	0.11%	0.01%	0.05%	0.10%	0.03%	1.09%	0.11%	0.05%	0.05%	1.02%	3.29%	0.00%	0.11%	3.64%	85.53%	0.26%	0.00%	0.03%
15:P	0.54%	0.02%	0.01%	0.00%	0.02%	0.02%	0.54%	0.02%	0.00%	1.43%	0.00%	0.01%	94.08%	0.07%	1.04%	1.36%	0.79%	0.03%	0.00%	0.01%
16:G	0.56%	0.01%	0.09%	1.44%	0.00%	93.25%	0.00%	0.02%	0.04%	0.01%	0.00%	0.00%	0.02%	0.02%	4.14%	0.10%	0.04%	0.23%	0.01%	0.00%
17:Q	0.02%	0.00%	0.02%	0.64%	0.00%	0.03%	1.57%	0.00%	0.49%	3.23%	0.02%	0.04%	1.89%	87.05%	4.88%	0.04%	0.02%	0.02%	0.03%	0.01%
18:P	8.42%	0.00%	0.00%	0.04%	0.00%	0.02%	0.00%	0.00%	0.04%	0.52%	0.06%	0.00%	65.61%	0.10%	0.11%	17.41%	7.37%	0.12%	0.16%	0.00%
19:A	87.88%	0.00%	0.66%	0.02%	0.01%	0.57%	0.02%	0.06%	0.00%	0.01%	0.00%	0.06%	2.69%	0.00%	0.01%	1.32%	5.83%	0.86%	0.00%	0.01%
20:S	1.57%	1.18%	0.01%	0.00%	1.10%	0.02%	0.03%	0.01%	0.00%	0.12%	0.00%	0.01%	4.37%	0.00%	0.02%	90.49%	0.68%	0.03%	0.01%	0.33%
21:I	0.26%	0.07%	0.07%	0.01%	3.91%	0.10%	0.04%	72.13%	0.23%	4.61%	4.18%	1.33%	0.18%	0.01%	0.22%	1.41%	3.85%	7.36%	0.00%	0.03%
22:S	2.03%	1.45%	0.03%	0.00%	1.54%	0.04%	0.09%	0.03%	0.00%	0.31%	0.00%	0.04%	5.37%	0.00%	0.07%	87.07%	0.87%	0.07%	0.04%	0.95%
23:C	0.08%	76.45%	0.25%	0.01%	1.90%	1.58%	0.52%	0.02%	0.02%	0.46%	0.00%	0.27%	0.16%	0.01%	1.40%	5.08%	0.05%	0.03%	3.89%	7.83%
24:K	0.31%	0.00%	0.13%	4.87%	0.00%	0.28%	0.13%	0.09%	76.72%	0.11%	1.51%	1.40%	0.19%	2.51%	6.19%	0.20%	5.17%	0.10%	0.06%	0.02%
25:S	1.19%	7.01%	0.05%	0.00%	5.91%	0.08%	0.07%	0.10%	0.00%	0.51%	0.00%	0.06%	2.66%	0.00%	0.14%	79.17%	0.89%	0.11%	0.21%	1.83%
26:S	0.13%	5.69%	0.20%	0.00%	0.07%	7.58%	0.09%	0.57%	0.05%	0.05%	0.01%	1.43%	0.07%	0.00%	7.62%	74.97%	1.21%	0.06%	0.11%	0.08%
27:Q	0.01%	0.00%	0.02%	0.41%	0.00%	0.04%	3.04%	0.00%	0.48%	2.34%	0.01%	0.02%	2.67%	87.03%	3.79%	0.01%	0.02%	0.02%	0.05%	0.02%
28:S	0.09%	0.63%	0.09%	0.01%	0.01%	2.47%	0.06%	1.36%	0.35%	0.02%	0.08%	4.76%	0.04%	0.00%	7.00%	80.45%	2.51%	0.02%	0.03%	0.02%
29:L	0.03%	0.01%	0.01%	0.00%	0.67%	0.02%	0.68%	0.36%	0.00%	91.04%	0.02%	0.01%	4.39%	0.04%	1.62%	0.04%	0.03%	1.03%	0.00%	0.00%
30:L	0.07%	0.01%	0.00%	0.03%	0.32%	0.03%	0.05%	0.39%	0.02%	92.00%	1.03%	0.00%	1.76%	0.78%	1.66%	0.14%	0.08%	1.58%	0.03%	0.00%
31:H	0.06%	0.39%	0.78%	0.12%	0.19%	0.09%	74.93%	0.21%	0.55%	3.43%	0.01%	3.11%	2.45%	6.24%	5.61%	0.48%	0.23%	0.12%	0.02%	0.99%
32:S	0.39%	3.85%	0.51%	0.02%	0.27%	8.16%	0.21%	2.96%	0.12%	0.22%	0.03%	3.72%	0.16%	0.01%	5.91%	69.84%	3.12%	0.24%	0.09%	0.16%
33:D	2.03%	0.21%	71.70%	6.05%	0.21%	3.47%	4.84%	0.20%	0.39%	0.16%	0.00%	5.67%	0.13%	0.35%	0.22%	0.73%	0.30%	0.85%	0.00%	2.48%
34:G	1.28%	0.02%	0.47%	3.79%	0.00%	85.19%	0.01%	0.11%	0.11%	0.13%	0.01%	0.02%	0.13%	0.07%	7.64%	0.14%	0.23%	0.66%	0.01%	0.00%
35:K	0.22%	0.00%	0.10%	6.05%	0.00%	0.27%	0.06%	0.10%	73.09%	0.29%	3.37%	1.08%	0.13%	4.54%	7.53%	0.12%	2.62%	0.37%	0.03%	0.01%
36:T	5.70%	0.01%	0.04%	0.00%	0.02%	0.04%	0.02%	1.70%	0.14%	0.02%	0.10%	1.43%	2.36%	0.00%	0.13%	2.30%	85.91%	0.06%	0.00%	0.01%
37:Y	0.13%	8.72%	1.83%	0.07%	8.87%	0.15%	7.84%	0.12%	0.06%	1.24%	0.00%	2.81%	0.47%	0.21%	0.47%	9.63%	0.22%	0.09%	0.11%	56.97%
38:L	0.07%	0.36%	0.01%	0.02%	19.39%	0.04%	0.01%	0.23%	0.01%	72.81%	0.50%	0.00%	0.18%	0.05%	0.10%	2.79%	0.03%	2.34%	0.99%	0.08%
39:Y	0.15%	8.08%	3.57%	0.04%	9.14%	0.15%	5.89%	0.22%	0.25%	0.64%	0.00%	4.79%	0.36%	0.95%	0.36%	9.54%	0.25%	0.15%	0.08%	55.38%
40:W	0.04%	12.46%	0.05%	0.05%	0.50%	2.09%	0.07%	0.01%	0.02%	0.84%	0.01%	0.03%	0.06%	0.02%	4.45%	1.58%	0.03%	0.03%	76.57%	1.09%
41:Y	0.14%	8.17%	6.95%	0.12%	4.05%	0.32%	7.54%	0.46%	0.77%	0.65%	0.02%	11.00%	0.18%	0.15%	0.46%	4.20%	0.26%	0.15%	0.14%	54.26%
42:L	0.11%	0.01%	0.00%	0.07%	0.55%	0.07%	0.05%	0.47%	0.04%	87.77%	1.54%	0.00%	1.92%	0.78%	1.66%	0.19%	0.11%	4.58%	0.07%	0.00%
43:Q	0.04%	0.00%	0.02%	0.51%	0.00%	0.08%	1.89%	0.01%	1.92%	2.01%	0.07%	0.09%	1.38%	87.60%	3.85%	0.07%	0.07%	0.05%	0.31%	0.02%
44:K	0.13%	0.00%	0.09%	3.47%	0.00%	0.39%	0.02%	0.18%	76.69%	0.11%	4.02%	0.85%	0.06%	1.99%	8.47%	0.12%	3.18%	0.14%	0.08%	0.00%
45:P	5.20%	0.00%	0.00%	0.06%	0.01%	0.06%	0.07%	0.07%	0.12%	1.66%	0.01%	0.01%	75.46%	0.53%	0.96%	11.04%	4.60%	0.14%	0.00%	0.00%
46:G	0.71%	0.28%	1.81%	0.06%	0.01%	95.54%	0.01%	0.01%	0.00%	0.01%	0.00%	0.01%	0.01%	0.00%	0.38%	0.71%	0.01%	0.44%	0.00%	0.01%
47:Q	0.03%	0.00%	0.03%	0.94%	0.00%	0.03%	6.09%	0.00%	0.71%	2.20%	0.01%	0.04%	2.64%	83.75%	3.45%	0.01%	0.03%	0.02%	0.01%	0.02%
48:S	1.26%	1.56%	0.01%	0.00%	1.36%	0.03%	0.02%	0.03%	0.00%	0.10%	0.00%	0.01%	2.84%	0.00%	0.04%	91.41%	0.93%	0.03%	0.03%	0.34%
49:P	1.12%	0.00%	0.00%	0.09%	0.00%	0.03%	0.17%	0.02%	0.01%	5.71%	0.00%	0.00%	86.24%	2.33%	2.60%	1.21%	0.37%	0.07%	0.00%	0.00%
50:Q	0.06%	0.01%	0.47%	3.71%	0.01%	0.10%	8.82%	0.01%	1.16%	3.02%	0.06%	0.14%	1.97%	75.38%	4.76%	0.05%	0.04%	0.09%	0.03%	0.12%
51:L	0.32%	0.16%	0.04%	0.01%	7.75%	0.07%	0.39%	2.73%	0.02%	76.71%	0.18%	0.07%	2.62%	0.03%	0.97%	0.55%	0.26%	7.07%	0.01%	0.04%
52:L	0.07%	0.00%	0.00%	0.03%	0.26%	0.03%	0.08%	0.32%	0.03%	90.49%	1.11%	0.00%	2.79%	1.48%	1.35%	0.12%	0.10%	1.68%	0.03%	0.00%
53:I	0.25%	0.03%	0.09%	0.02%	1.58%	0.14%	0.03%	76.74%	0.54%	3.36%	5.57%	1.12%	0.10%	0.01%	0.44%	1.09%	3.31%	5.58%	0.00%	0.01%
54:Y	0.09%	8.17%	1.98%	0.07%	9.06%	0.12%	5.90%	0.11%	0.06%	0.78%	0.00%	3.04%	0.27%	0.34%	0.38%	9.38%	0.23%	0.07%	0.10%	59.83%
55:E	2.32%	0.00%	7.68%	78.31%	0.01%	3.82%	0.28%	0.14%	2.84%	0.13%	0.01%	0.37%	0.17%	2.32%	0.38%	0.11%	0.39%	0.64%	0.00%	0.09%
56:V	3.88%	0.05%	2.17%	0.08%	2.56%	2.27%	0.10%	7.83%	0.01%	5.56%	0.15%	0.16%	0.35%	0.00%	0.05%	0.32%	1.00%	73.43%	0.00%	0.02%
57:S	2.24%	5.93%	0.20%	0.00%	6.10%	0.10%	0.30%	0.05%	0.01%	1.53%	0.00%	0.12%	1.92%	0.01%	0.15%	76.53%	0.45%	0.16%	0.20%	4.01%
58:N	0.12%	0.20%	2.74%	0.23%	0.11%	0.17%	2.43%	1.55%	8.26%	0.10%	0.11%	73.62%	0.11%	0.24%	0.87%	4.25%	2.92%	0.08%	0.00%	1.89%
59:R	0.04%	0.24%	0.01%	0.07%	0.01%	0.66%	1.32%	0.01%	0.09%	1.82%	0.03%	0.02%	2.97%	3.81%	86.82%	0.15%	0.05%	0.05%	1.82%	0.02%
60:F	0.13%	2.36%	0.06%	0.00%	73.46%	0.09%	0.05%	2.36%	0.01%	14.39%	0.09%	0.05%	0.17%	0.00%	0.09%	2.60%	0.06%	3.37%	0.16%	0.47%
61:S	1.23%	2.34%	0.03%	0.00%	1.88%	0.06%	0.04%	0.02%	0.00%	0.16%	0.00%	0.02%	2.45%	0.00%	0.06%	90.27%	0.72%	0.07%	0.04%	0.61%
62:G	1.41%	0.02%	0.34%	3.26%	0.00%	89.96%	0.01%	0.04%	0.10%	0.04%	0.00%	0.01%	0.05%	0.04%	3.92%	0.10%	0.12%	0.56%	0.02%	0.00%
63:V	1.94%	0.00%	0.04%	1.49%	0.08%	1.34%	0.00%	0.40%	0.12%	11.50%	4.77%	0.00%	0.16%	0.09%	0.37%	0.15%	0.21%	77.27%	0.07%	0.00%
64:P	2.08%	0.00%	0.00%	0.05%	0.01%	0.02%	0.													