

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:D	4.52%	0.27%	66.64%	3.79%	0.27%	4.50%	4.34%	0.28%	0.30%	0.29%	0.01%	4.22%	0.28%	0.21%	0.35%	0.51%	0.28%	4.53%	0.00%	4.42%
2:I	0.35%	0.10%	0.07%	0.01%	3.23%	0.15%	0.03%	78.60%	0.18%	2.95%	1.61%	0.99%	0.21%	0.00%	0.28%	1.82%	4.20%	5.19%	0.00%	0.03%
3:Q	0.05%	0.01%	0.08%	0.62%	0.01%	0.04%	3.76%	0.00%	0.73%	0.61%	0.01%	0.08%	2.16%	90.18%	1.36%	0.07%	0.07%	0.02%	0.02%	0.12%
4:M	0.38%	0.00%	0.00%	0.23%	0.02%	0.30%	0.00%	2.54%	3.63%	4.58%	72.90%	0.05%	0.13%	0.07%	3.61%	0.18%	5.95%	5.32%	0.09%	0.00%
5:T	6.07%	0.03%	0.08%	0.02%	0.05%	0.12%	0.05%	2.34%	0.26%	0.06%	0.05%	1.70%	3.01%	0.00%	0.22%	3.16%	82.61%	0.14%	0.00%	0.02%
6:Q	0.04%	0.00%	0.05%	0.82%	0.00%	0.04%	7.31%	0.00%	0.64%	2.77%	0.02%	0.04%	3.33%	80.49%	4.28%	0.03%	0.04%	0.03%	0.02%	0.04%
7:S	1.51%	1.94%	0.02%	0.00%	1.65%	0.04%	0.02%	0.05%	0.00%	0.16%	0.00%	0.02%	3.54%	0.00%	0.06%	89.23%	1.23%	0.05%	0.05%	0.43%
8:P	1.46%	0.01%	0.01%	0.06%	0.02%	0.02%	0.22%	0.02%	0.02%	3.22%	0.01%	0.00%	90.46%	1.28%	1.09%	1.54%	0.50%	0.06%	0.00%	0.01%
9:S	1.63%	8.42%	0.31%	0.01%	9.88%	0.29%	0.45%	0.11%	0.02%	1.53%	0.01%	0.23%	3.85%	0.01%	0.54%	65.09%	0.92%	0.28%	0.51%	5.92%
10:S	1.78%	2.40%	0.08%	0.00%	2.17%	0.07%	0.09%	0.02%	0.00%	0.36%	0.00%	0.05%	5.18%	0.00%	0.05%	85.57%	0.84%	0.11%	0.06%	1.17%
11:L	0.05%	0.00%	0.00%	0.05%	0.05%	0.02%	0.14%	0.03%	0.03%	87.59%	0.67%	0.00%	4.87%	2.90%	2.16%	0.07%	0.06%	1.30%	0.01%	0.00%
12:S	2.06%	1.83%	0.02%	0.00%	1.82%	0.03%	0.04%	0.03%	0.00%	0.20%	0.00%	0.03%	4.29%	0.00%	0.05%	87.57%	1.39%	0.05%	0.06%	0.52%
13:A	72.00%	0.01%	0.44%	4.18%	0.02%	1.22%	0.02%	0.53%	0.32%	0.31%	0.06%	0.04%	5.87%	0.10%	0.26%	2.95%	10.08%	1.57%	0.01%	0.01%
14:S	1.34%	9.83%	0.12%	0.02%	8.70%	0.34%	0.27%	0.27%	0.00%	1.03%	0.01%	0.12%	4.15%	0.01%	0.60%	69.06%	1.47%	0.32%	0.15%	2.17%
15:V	7.16%	0.00%	0.22%	5.85%	0.43%	4.54%	0.02%	7.21%	0.31%	13.10%	0.80%	0.02%	0.80%	0.18%	0.33%	0.51%	1.21%	57.29%	0.01%	0.00%
16:G	0.68%	0.04%	0.20%	1.71%	0.00%	87.61%	0.01%	0.04%	0.08%	0.07%	0.00%	0.01%	0.08%	0.10%	8.78%	0.19%	0.10%	0.26%	0.02%	0.00%
17:D	3.16%	0.06%	83.63%	1.42%	0.03%	6.82%	0.96%	0.07%	0.10%	0.03%	0.00%	1.28%	0.07%	0.06%	0.06%	0.13%	0.15%	1.57%	0.00%	0.38%
18:R	0.10%	0.07%	0.02%	0.15%	0.00%	5.07%	0.01%	0.95%	2.45%	0.07%	0.07%	0.24%	0.08%	0.08%	84.88%	2.79%	2.92%	0.04%	0.02%	0.00%
19:T	4.63%	0.03%	1.52%	0.09%	1.12%	2.90%	0.02%	3.64%	0.01%	2.15%	0.08%	0.05%	0.14%	0.00%	0.07%	0.15%	0.27%	83.13%	0.00%	0.01%
20:V	5.64%	0.07%	0.08%	0.00%	0.14%	0.14%	0.06%	3.55%	0.06%	0.20%	0.07%	1.13%	4.00%	0.00%	0.54%	5.23%	78.72%	0.35%	0.00%	0.03%
21:I	0.39%	0.13%	0.08%	0.01%	4.75%	0.18%	0.05%	69.81%	0.20%	5.64%	2.50%	0.91%	0.24%	0.01%	0.76%	1.79%	3.61%	8.91%	0.00%	0.04%
22:T	5.13%	0.12%	0.07%	0.00%	0.13%	0.14%	0.04%	2.39%	0.07%	0.10%	0.07%	1.05%	4.82%	0.01%	0.18%	7.25%	78.19%	0.21%	0.00%	0.03%
23:C	0.04%	82.41%	0.24%	0.00%	0.95%	2.43%	0.34%	0.02%	0.01%	0.15%	0.00%	0.18%	0.07%	0.00%	5.11%	2.96%	0.03%	0.02%	2.46%	2.55%
24:Q	0.04%	0.00%	0.01%	1.23%	0.00%	0.04%	0.78%	0.00%	0.78%	1.46%	0.03%	0.01%	4.40%	87.64%	3.41%	0.03%	0.10%	0.02%	0.01%	0.00%
25:A	87.79%	0.00%	0.05%	1.65%	0.00%	0.89%	0.00%	0.02%	0.03%	0.17%	0.20%	0.00%	1.35%	0.01%	0.02%	0.82%	3.15%	3.84%	0.01%	0.00%
26:S	0.09%	1.64%	0.14%	0.01%	0.02%	6.29%	0.22%	1.15%	0.13%	0.06%	0.03%	3.51%	0.12%	0.01%	8.88%	75.63%	1.95%	0.06%	0.04%	0.04%
27:Q	0.03%	0.00%	0.05%	0.57%	0.00%	0.05%	3.61%	0.00%	0.62%	2.29%	0.02%	0.04%	4.86%	83.68%	3.96%	0.03%	0.04%	0.03%	0.07%	0.04%
28:D	2.50%	0.04%	83.58%	4.42%	0.02%	2.96%	0.75%	0.08%	0.20%	0.02%	0.00%	2.30%	0.03%	0.05%	0.07%	0.15%	0.10%	2.34%	0.00%	0.39%
29:I	0.45%	0.16%	0.17%	0.03%	4.09%	0.24%	0.18%	61.67%	0.53%	4.94%	5.36%	2.24%	0.48%	0.02%	0.81%	3.73%	8.61%	6.23%	0.01%	0.06%
30:S	0.76%	3.08%	1.64%	0.13%	0.51%	8.80%	0.53%	5.57%	1.42%	0.56%	0.17%	8.54%	0.22%	0.05%	30.86%	30.91%	4.61%	0.69%	0.28%	0.65%
31:N	0.40%	0.31%	6.86%	0.61%	0.21%	0.45%	4.76%	2.64%	9.25%	0.22%	0.25%	57.41%	0.26%	0.34%	1.54%	6.18%	5.86%	0.22%	0.01%	2.22%
32:Y	0.20%	10.40%	2.63%	0.12%	10.98%	0.21%	5.69%	0.16%	0.08%	0.99%	0.00%	2.83%	0.53%	0.16%	0.44%	11.47%	0.29%	0.10%	0.18%	52.53%
33:L	0.23%	0.13%	0.00%	0.08%	7.13%	0.05%	0.01%	0.77%	0.02%	77.84%	0.11%	0.00%	0.40%	0.11%	0.12%	10.76%	0.09%	1.92%	0.17%	0.04%
34:N	0.61%	0.64%	5.76%	0.53%	0.55%	0.74%	5.30%	5.48%	5.62%	0.61%	0.24%	44.49%	0.65%	1.36%	1.44%	11.93%	10.44%	0.59%	0.01%	2.99%
35:W	0.07%	13.21%	0.08%	0.08%	0.66%	2.62%	0.13%	0.01%	0.03%	1.09%	0.02%	0.05%	0.10%	0.04%	5.42%	2.06%	0.04%	0.06%	72.82%	1.43%
36:Y	0.29%	17.83%	3.97%	0.11%	8.43%	0.41%	9.47%	0.63%	0.20%	1.34%	0.01%	5.66%	0.64%	0.24%	0.87%	9.24%	0.44%	0.41%	0.28%	39.54%
37:Q	0.17%	0.02%	0.22%	3.09%	0.03%	0.22%	8.01%	0.03%	2.07%	3.45%	0.09%	0.19%	4.31%	70.91%	6.47%	0.11%	0.13%	0.23%	0.12%	0.13%
38:Q	0.24%	0.01%	0.27%	6.11%	0.01%	0.35%	1.44%	0.09%	25.83%	1.79%	1.16%	0.71%	1.21%	53.07%	5.73%	0.24%	0.96%	0.23%	0.46%	0.07%
39:K	0.32%	0.01%	0.31%	2.95%	0.01%	0.47%	0.15%	2.30%	64.65%	0.09%	0.39%	7.34%	0.19%	1.61%	10.91%	0.92%	7.26%	0.08%	0.01%	0.03%
40:P	5.72%	0.02%	0.04%	1.74%	0.05%	0.49%	0.24%	0.40%	0.21%	3.76%	0.03%	0.01%	63.50%	1.22%	2.18%	13.57%	6.33%	0.48%	0.01%	0.01%
41:G	1.33%	0.03%	0.39%	6.48%	0.00%	87.79%	0.01%	0.01%	0.12%	0.09%	0.06%	0.01%	0.04%	0.12%	1.35%	0.10%	0.06%	1.80%	0.20%	0.00%
42:K	0.26%	0.01%	0.59%	6.35%	0.01%	0.51%	0.42%	1.55%	64.69%	0.13%	0.14%	7.55%	0.16%	3.66%	7.09%	1.01%	5.70%	0.10%	0.00%	0.07%
43:A	49.86%	0.05%	9.93%	0.36%	0.10%	12.31%	0.08%	0.35%	0.01%	0.26%	0.01%	0.13%	0.62%	0.00%	0.07%	0.60%	1.37%	23.84%	0.00%	0.04%
44:P	0.67%	0.03%	0.01%	0.00%	0.03%	0.02%	0.38%	0.04%	0.00%	1.00%	0.00%	0.01%	94.03%	0.06%	0.67%	1.82%	1.16%	0.05%	0.00%	0.01%
45:K	0.60%	0.05%	1.73%	10.31%	0.05%	0.85%	0.62%	1.09%	55.99%	0.72%	2.87%	6.52%	0.33%	4.88%	7.05%	1.26%	4.39%	0.39%	0.16%	0.15%
46:L	0.47%	0.24%	0.07%	0.01%	8.81%	0.12%	0.49%	3.12%	0.03%	72.49%	0.24%	0.10%	3.05%	0.05%	1.15%	0.78%	0.37%	8.34%	0.01%	0.06%
47:L	0.12%	0.01%	0.00%	0.05%	0.38%	0.04%	0.12%	0.47%	0.05%	87.96%	1.27%	0.01%	3.47%	1.79%	1.71%	0.20%	0.15%	2.15%	0.04%	0.00%
48:I	0.38%	0.05%	0.13%	0.03%	2.01%	0.18%	0.04%	71.95%	0.70%	4.15%	5.81%	1.33%	0.15%	0.01%	0.61%	1.34%	4.26%	6.85%	0.00%	0.02%
49:Y	0.16%	9.80%	3.84%	0.06%	5.24%	0.28%	11.31%	0.17%	0.59%	1.29%	0.02%	6.05%	0.52%	0.31%	1.06%	5.49%	0.38%	0.11%	0.06%	53.25%
50:D	1.80%	0.27%	52.97%	8.40%	0.26%	3.53%	12.80%	0.40%	0.83%	0.45%	0.02%	10.08%	0.52%	0.83%	0.73%	1.44%	1.23%	0.85%	0.00%	2.58%
51:A	56.00%	0.02%	0.45%	4.22%	0.05%	1.17%	0.02%	1.04%	0.54%	0.55%	0.10%	0.07%	9.90%	0.16%	0.46%	6.38%	17.44%	1.39%	0.01%	0.01%
52:S	1.74%	2.16%	0.12%	0.01%	2.31%	0.14%	0.15%	0.11%	0.01%	0.77%	0.01%	0.09%	4.32%	0.00%	0.16%	85.05%	1.01%	0.21%	0.15%	1.50%
53:N	0.48%	0.33%	3.13%	0.23%	0.19%	0.46%	3.85%	2.49%	3.27%	0.21%	0.05%	58.96%	0.42%	0.22%	1.08%	12.15%	10.90%	0.13%	0.01%	1.44%
54:L	0.13%	0.07%	0.00%	0.05%	1.37%	0.08%	0.00%	0.08%	0.03%	86.58%	0.83%	0.00%	0.27%	0.08%	0.26%	4.34%	0.08%	2.92%	2.82%	0.01%
55:E	3.84%	0.00%	8.96%	71.25%	0.00%	6.98%	0.22%	0.23%	3.88%	0.15%	0.03%	0.45%	0.17%	1.44%	0.71%	0.12%	0.48%	1.03%	0.00%	0.04%
56:T	5.32%	0.01%	0.03%	1.66%	0.05%	0.56%	0.03%	5.70%	2.87%	1.01%	0.67%	0.13%	3.74%	0.18%	4.59%	4.76%	68.01%	0.67%	0.00%	0.01%
57:G	0.35%	0.02%	0.13%	1.43%	0.00%	95.86%	0.00%	0.00%	0.03%	0.02%	0.01%	0.00%	0.01%	0.03%	1.40%	0.06%	0.02%	0.39%	0.23%	0.00%
58:V	4.30%	0.01%	0.90%	0.15%	0.45%	1.93%	0.01%	2.12%	0.02%	1.02%	0.11%	0.03%	0.06%	0.00%	0.03%	0.07%	0.15%	88.65%	0.00%	0.00%
59:P	1.90%	0.00%	0.00%	0.04%	0.02%	0.04%	0.08%	0.06%	0.02%	1.36%	0.01%	0.00%	88.55%	0.59%	0.81%	4.01%	2.37%	0.14%	0.00%	0.00%
60:S	1.82%	0.16%	0.02%	0.43%	0.32%	0.10%	0.01%	0.11%	0.03%	3.20%	0.01%	0.00%	3.91%	0.04%	0.12%	88.46%	0.93%	0.18%	0.10%	0.06%
61:R	0.27%	0.40%	0.18%	0.84%	0.02%	11.03%	0.25%	0.54%	4.52%	0.43%	1.51%	0.96%	0.39%	0.67%	63.90%	6.79%	2.54%	0.33%	4.39%	0.05%
62:F	0.15%	2.13%	0.06%	0.00%	70.11%	0.07%	0.06%	2.86%	0.01%	16.10%	0.09%	0.06%	0.26%	0.01%	0.14%	2.93%	0.08%	4.30%	0.14%	0.46%
63:S	0.29%	2.99%	0.38%	0.03%	0.13%	4.76%	0.31%	2.02%	0.39%	0.13%	0.04%	4.86%	0.30%	0.03%	9.42%	68.41%	5.11%	0.14%	0.09%	0.17%
64:S	1.86%	0.04%	0.73%	4.91%	0.01															