

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:A	75.51%	0.18%	3.74%	0.10%	0.18%	3.80%	0.18%	0.18%	0.01%	0.19%	0.00%	0.18%	3.80%	0.00%	0.22%	3.95%	3.81%	3.80%	0.00%	0.18%
2:I	0.27%	0.08%	0.07%	0.00%	3.80%	0.12%	0.03%	76.18%	0.11%	4.50%	1.46%	0.80%	0.16%	0.00%	0.20%	1.44%	3.44%	7.31%	0.00%	0.02%
3:Q	0.04%	0.02%	0.14%	0.55%	0.01%	0.02%	9.38%	0.01%	0.57%	2.19%	0.02%	0.15%	2.59%	80.48%	3.40%	0.07%	0.06%	0.03%	0.03%	0.26%
4:L	0.14%	0.04%	0.00%	0.04%	1.11%	0.10%	0.00%	0.05%	0.04%	82.12%	1.71%	0.00%	0.18%	0.02%	0.20%	7.76%	0.09%	1.95%	4.46%	0.01%
5:T	4.92%	0.02%	0.05%	0.01%	0.03%	0.07%	0.03%	1.93%	0.18%	0.04%	0.03%	1.44%	2.48%	0.00%	0.15%	2.56%	85.97%	0.08%	0.00%	0.01%
6:Q	0.02%	0.00%	0.03%	0.66%	0.00%	0.02%	6.06%	0.00%	0.51%	2.24%	0.01%	0.03%	2.60%	84.26%	3.44%	0.02%	0.03%	0.02%	0.01%	0.03%
7:S	1.22%	1.53%	0.01%	0.00%	1.37%	0.03%	0.01%	0.03%	0.00%	0.10%	0.00%	0.01%	2.85%	0.00%	0.04%	91.46%	0.93%	0.03%	0.03%	0.35%
8:P	1.19%	0.00%	0.00%	0.04%	0.01%	0.01%	0.14%	0.02%	0.01%	2.61%	0.00%	0.00%	92.43%	1.06%	0.84%	1.21%	0.37%	0.04%	0.00%	0.00%
9:S	1.35%	7.58%	0.21%	0.01%	8.69%	0.20%	0.30%	0.08%	0.01%	1.05%	0.01%	0.16%	3.20%	0.00%	0.38%	70.28%	0.78%	0.17%	0.34%	5.23%
10:S	1.45%	1.96%	0.05%	0.00%	1.76%	0.05%	0.06%	0.01%	0.00%	0.22%	0.00%	0.04%	4.22%	0.00%	0.03%	88.43%	0.66%	0.08%	0.04%	0.96%
11:L	0.03%	0.00%	0.00%	0.03%	0.03%	0.01%	0.09%	0.02%	0.02%	90.10%	0.53%	0.00%	3.92%	2.39%	1.71%	0.04%	0.04%	1.04%	0.01%	0.00%
12:S	1.69%	1.48%	0.01%	0.00%	1.40%	0.02%	0.03%	0.02%	0.00%	0.13%	0.00%	0.02%	3.51%	0.00%	0.03%	90.08%	1.08%	0.03%	0.03%	0.43%
13:A	77.37%	0.01%	0.29%	3.48%	0.01%	0.93%	0.01%	0.37%	0.21%	0.19%	0.03%	0.02%	4.71%	0.07%	0.16%	2.35%	8.61%	1.18%	0.00%	0.00%
14:S	1.20%	8.64%	0.08%	0.01%	7.48%	0.22%	0.18%	0.19%	0.00%	0.67%	0.00%	0.08%	3.49%	0.00%	0.41%	73.88%	1.25%	0.22%	0.09%	1.91%
15:V	6.24%	0.00%	0.14%	5.10%	0.28%	3.91%	0.01%	6.60%	0.22%	10.85%	0.59%	0.01%	0.53%	0.12%	0.21%	0.33%	0.84%	64.02%	0.00%	0.00%
16:G	0.51%	0.02%	0.14%	1.30%	0.00%	90.01%	0.01%	0.03%	0.05%	0.04%	0.00%	0.00%	0.05%	0.06%	7.35%	0.13%	0.07%	0.21%	0.02%	0.00%
17:D	2.63%	0.04%	86.74%	1.15%	0.02%	5.58%	0.76%	0.05%	0.07%	0.02%	0.00%	1.06%	0.05%	0.04%	0.04%	0.09%	0.10%	1.23%	0.00%	0.34%
18:R	0.06%	0.04%	0.01%	0.10%	0.00%	4.17%	0.01%	0.79%	2.11%	0.04%	0.04%	0.16%	0.05%	0.05%	87.65%	2.33%	2.34%	0.03%	0.01%	0.00%
19:V	3.95%	0.02%	1.24%	0.06%	0.91%	2.38%	0.01%	3.06%	0.01%	1.71%	0.06%	0.03%	0.09%	0.00%	0.04%	0.09%	0.18%	86.15%	0.00%	0.01%
20:T	4.64%	0.05%	0.05%	0.00%	0.09%	0.09%	0.03%	3.04%	0.04%	0.13%	0.05%	0.92%	3.24%	0.00%	0.38%	4.33%	82.68%	0.24%	0.00%	0.02%
21:I	0.24%	0.08%	0.05%	0.01%	3.97%	0.12%	0.03%	75.48%	0.13%	4.48%	2.11%	0.74%	0.14%	0.00%	0.51%	1.52%	2.99%	7.37%	0.00%	0.02%
22:T	4.33%	0.07%	0.04%	0.00%	0.08%	0.09%	0.03%	1.96%	0.05%	0.06%	0.05%	0.86%	3.87%	0.00%	0.11%	5.99%	82.25%	0.13%	0.00%	0.02%
23:C	0.03%	84.75%	0.15%	0.00%	0.75%	1.93%	0.21%	0.01%	0.00%	0.09%	0.00%	0.12%	0.05%	0.00%	4.17%	2.39%	0.02%	0.01%	3.16%	2.13%
24:R	0.00%	0.01%	0.00%	0.01%	0.00%	0.16%	0.09%	0.00%	0.01%	0.87%	0.00%	0.00%	1.36%	2.29%	94.74%	0.01%	0.00%	0.00%	0.44%	0.00%
25:A	29.18%	0.02%	0.04%	0.76%	0.02%	0.48%	0.00%	0.14%	0.10%	0.20%	0.01%	0.01%	3.74%	0.02%	0.16%	48.44%	16.34%	0.33%	0.00%	0.01%
26:S	0.04%	1.59%	0.05%	0.00%	0.01%	6.54%	0.14%	0.36%	0.03%	0.05%	0.01%	0.90%	0.10%	0.00%	8.51%	80.72%	0.80%	0.03%	0.08%	0.02%
27:Q	0.01%	0.00%	0.01%	0.39%	0.00%	0.03%	1.63%	0.00%	0.48%	1.85%	0.01%	0.02%	3.98%	88.30%	3.18%	0.02%	0.03%	0.02%	0.04%	0.01%
28:G	3.75%	0.24%	15.68%	0.49%	0.05%	30.66%	0.08%	0.25%	0.02%	0.17%	0.02%	0.24%	0.02%	0.00%	0.46%	0.75%	0.06%	47.00%	0.00%	0.04%
29:I	0.39%	0.11%	0.12%	0.02%	3.17%	0.15%	0.07%	68.67%	0.38%	3.85%	4.88%	2.02%	0.43%	0.01%	0.56%	3.13%	6.95%	5.05%	0.00%	0.03%
30:S	0.51%	2.96%	1.20%	0.06%	0.40%	7.79%	0.39%	5.05%	0.76%	0.35%	0.15%	8.44%	0.15%	0.03%	29.24%	37.29%	4.10%	0.46%	0.16%	0.52%
31:S	0.25%	5.35%	0.32%	0.02%	0.15%	4.71%	0.26%	1.78%	0.24%	0.10%	0.03%	4.13%	0.28%	0.01%	6.31%	71.82%	3.87%	0.11%	0.08%	0.20%
32:A	77.57%	0.11%	2.05%	0.13%	0.22%	4.44%	0.09%	0.45%	0.01%	0.36%	0.00%	0.20%	2.12%	0.00%	0.09%	1.73%	4.67%	5.70%	0.00%	0.05%
33:L	0.20%	0.10%	0.00%	0.06%	7.31%	0.05%	0.00%	0.57%	0.01%	80.41%	0.06%	0.00%	0.38%	0.06%	0.04%	8.81%	0.07%	1.68%	0.15%	0.03%
34:A	78.83%	0.10%	3.02%	0.12%	0.13%	2.69%	0.04%	0.24%	0.01%	0.10%	0.02%	0.13%	2.13%	0.00%	0.04%	1.94%	3.76%	6.65%	0.00%	0.07%
35:W	0.11%	12.01%	0.08%	0.21%	0.38%	8.35%	0.06%	0.01%	0.03%	0.67%	0.01%	0.03%	0.07%	0.05%	3.33%	1.41%	0.02%	0.07%	72.08%	1.02%
36:Y	0.20%	16.01%	3.60%	0.07%	7.65%	0.26%	8.35%	0.42%	0.13%	0.93%	0.00%	5.18%	0.41%	0.16%	0.57%	7.78%	0.28%	0.28%	0.19%	47.54%
37:Q	0.11%	0.01%	0.15%	2.65%	0.01%	0.14%	7.09%	0.02%	1.80%	2.91%	0.06%	0.13%	3.54%	75.49%	5.40%	0.07%	0.08%	0.17%	0.09%	0.09%
38:Q	0.16%	0.01%	0.19%	5.24%	0.00%	0.23%	1.26%	0.05%	23.84%	1.54%	0.84%	0.51%	1.01%	59.13%	4.66%	0.16%	0.66%	0.15%	0.31%	0.05%
39:K	0.21%	0.00%	0.20%	2.39%	0.00%	0.30%	0.10%	1.96%	70.57%	0.06%	0.27%	6.41%	0.13%	1.36%	9.23%	0.62%	6.11%	0.05%	0.00%	0.02%
40:P	5.29%	0.01%	0.02%	1.30%	0.03%	0.34%	0.16%	0.29%	0.13%	3.15%	0.02%	0.01%	68.84%	1.07%	1.79%	11.68%	5.53%	0.33%	0.00%	0.01%
41:G	1.12%	0.02%	0.25%	5.39%	0.00%	90.17%	0.00%	0.01%	0.08%	0.05%	0.04%	0.01%	0.02%	0.08%	1.07%	0.07%	0.04%	1.43%	0.16%	0.00%
42:K	0.18%	0.00%	0.43%	5.44%	0.00%	0.35%	0.30%	1.42%	69.66%	0.08%	0.13%	6.94%	0.11%	3.05%	6.36%	0.66%	4.77%	0.07%	0.00%	0.06%
43:A	59.87%	0.19%	2.60%	0.12%	0.21%	5.96%	0.13%	1.27%	0.01%	0.41%	0.02%	0.32%	4.89%	0.00%	0.20%	4.30%	12.43%	7.04%	0.00%	0.04%
44:P	1.47%	0.21%	0.04%	0.01%	0.23%	0.10%	2.69%	0.11%	0.00%	12.39%	0.00%	0.03%	70.99%	0.20%	8.60%	1.69%	0.96%	0.20%	0.01%	0.05%
45:K	0.40%	0.02%	1.23%	8.94%	0.02%	0.57%	0.41%	0.78%	63.19%	0.49%	2.63%	5.94%	0.21%	4.13%	5.92%	0.87%	3.76%	0.26%	0.12%	0.10%
46:L	0.33%	0.15%	0.04%	0.01%	7.57%	0.07%	0.39%	2.67%	0.02%	77.23%	0.17%	0.07%	2.58%	0.03%	0.95%	0.52%	0.24%	6.93%	0.00%	0.04%
47:L	0.06%	0.00%	0.00%	0.03%	0.25%	0.03%	0.08%	0.33%	0.03%	90.68%	1.09%	0.00%	2.74%	1.47%	1.32%	0.12%	0.10%	1.64%	0.03%	0.00%
48:I	0.24%	0.03%	0.09%	0.01%	1.62%	0.12%	0.02%	76.95%	0.54%	3.31%	5.56%	1.12%	0.09%	0.01%	0.43%	1.07%	3.26%	5.52%	0.00%	0.01%
49:Y	0.09%	8.13%	1.99%	0.07%	9.02%	0.11%	5.82%	0.11%	0.07%	0.78%	0.00%	3.00%	0.27%	0.34%	0.38%	9.40%	0.22%	0.07%	0.11%	60.02%
50:D	1.79%	0.21%	68.19%	7.63%	0.24%	3.35%	5.66%	0.23%	0.50%	0.18%	0.00%	6.48%	0.18%	0.33%	0.24%	0.86%	0.42%	0.82%	0.00%	2.68%
51:A	81.34%	0.04%	2.92%	0.08%	0.08%	2.83%	0.02%	0.19%	0.01%	0.11%	0.01%	0.08%	1.56%	0.00%	0.02%	0.97%	3.06%	6.65%	0.00%	0.03%
52:S	1.56%	1.16%	0.01%	0.00%	1.05%	0.02%	0.03%	0.01%	0.00%	0.12%	0.00%	0.01%	4.32%	0.00%	0.02%	90.67%	0.67%	0.03%	0.01%	0.29%
53:S	0.38%	1.82%	0.32%	0.01%	0.06%	2.74%	0.29%	1.62%	0.23%	0.09%	0.03%	7.35%	0.26%	0.01%	6.36%	69.77%	8.42%	0.08%	0.03%	0.13%
54:L	0.08%	0.05%	0.00%	0.02%	1.14%	0.03%	0.00%	0.04%	0.01%	90.14%	0.49%	0.00%	0.15%	0.04%	0.13%	3.57%	0.04%	1.69%	2.37%	0.00%
55:E	3.27%	0.00%	5.68%	77.90%	0.00%	5.94%	0.14%	0.16%	3.38%	0.11%	0.01%	0.27%	0.11%	1.25%	0.48%	0.07%	0.31%	0.90%	0.00%	0.02%
56:S	0.21%	5.18%	0.41%	0.02%	0.18%	5.96%	0.46%	1.64%	0.22%	0.15%	0.02%	3.24%	0.14%	0.02%	7.45%	71.22%	2.99%	0.18%	0.08%	0.24%
57:G	0.33%	0.03%	0.11%	1.33%	0.00%	94.13%	0.00%	0.00%	0.03%	0.02%	0.01%	0.00%	0.00%	0.02%	2.51%	0.05%	0.01%	0.33%	1.07%	0.00%
58:V	3.41%	0.01%	0.73%	0.10%	0.36%	1.55%	0.00%	1.68%	0.01%	0.74%	0.08%	0.01%	0.04%	0.00%	0.01%	0.04%	0.09%	91.13%	0.00%	0.00%
59:P	1.53%	0.00%	0.00%	0.02%	0.01%	0.02%	0.05%	0.04%	0.01%	1.14%	0.00%	0.00%	90.79%	0.48%	0.66%	3.22%	1.94%	0.08%	0.00%	0.00%
60:S	1.56%	0.10%	0.01%	0.29%	0.20%	0.07%	0.00%	0.07%	0.02%	2.55%	0.00%	0.00%	3.16%	0.02%	0.07%	90.89%	0.76%	0.12%	0.07%	0.04%
61:R	0.18%	0.27%	0.11%	0.58%	0.01%	9.56%	0.14%	0.39%	4.21%	0.28%	1.39%	0.72%	0.25%	0.46%	68.76%	6.23%	2.20%	0.23%	3.99%	0.03%
62:F	0.09%	1.77%	0.04%	0.00%	75.76%	0.04%	0.04%	2.40%	0.00%	13.13%	0.06%	0.04%	0.16%	0.00%	0.08%	2.29%	0.05%	3.55%	0.09%	0.40%
63:S	0.16%	2.88%	0.27%	0.01%	0.07%	5.43%	0.22%	1.16%	0.29%	0.08%	0.01%	3.56%	0.11%	0.01%	13.04%	69.51%	2.86%	0.09%	0.09%	0.16%
64:G	4.27%	0.62%	8.08%	0.11%	0.02%	81.22														