

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:A	76.59%	0.17%	3.55%	0.09%	0.17%	3.70%	0.16%	0.17%	0.00%	0.17%	0.00%	0.17%	3.67%	0.00%	0.19%	3.76%	3.65%	3.63%	0.00%	0.16%
2:I	0.23%	0.06%	0.05%	0.00%	3.63%	0.11%	0.03%	77.51%	0.11%	4.28%	1.33%	0.77%	0.15%	0.00%	0.18%	1.35%	3.24%	6.95%	0.00%	0.02%
3:Q	0.03%	0.00%	0.04%	0.46%	0.00%	0.02%	2.94%	0.00%	0.57%	0.41%	0.01%	0.05%	1.62%	92.71%	0.96%	0.04%	0.04%	0.01%	0.01%	0.07%
4:M	0.21%	0.00%	0.00%	0.13%	0.01%	0.18%	0.00%	1.99%	2.89%	3.54%	78.96%	0.03%	0.07%	0.04%	2.88%	0.11%	4.67%	4.23%	0.06%	0.00%
5:T	4.72%	0.02%	0.04%	0.01%	0.03%	0.07%	0.03%	1.84%	0.17%	0.04%	0.03%	1.38%	2.40%	0.00%	0.13%	2.45%	86.56%	0.08%	0.00%	0.01%
6:Q	0.02%	0.00%	0.03%	0.61%	0.00%	0.02%	5.75%	0.00%	0.48%	2.10%	0.01%	0.02%	2.50%	85.06%	3.28%	0.02%	0.03%	0.02%	0.01%	0.02%
7:S	1.18%	1.48%	0.01%	0.00%	1.29%	0.02%	0.01%	0.03%	0.00%	0.09%	0.00%	0.01%	2.69%	0.00%	0.03%	91.88%	0.87%	0.03%	0.03%	0.34%
8:P	1.12%	0.00%	0.00%	0.04%	0.01%	0.01%	0.13%	0.02%	0.01%	2.49%	0.00%	0.00%	92.82%	1.00%	0.80%	1.18%	0.34%	0.04%	0.00%	0.00%
9:S	1.30%	7.38%	0.19%	0.01%	8.42%	0.18%	0.26%	0.06%	0.01%	0.96%	0.01%	0.15%	3.06%	0.00%	0.34%	71.40%	0.74%	0.15%	0.33%	5.04%
10:S	1.37%	1.83%	0.05%	0.00%	1.69%	0.04%	0.05%	0.01%	0.00%	0.19%	0.00%	0.03%	4.02%	0.00%	0.03%	88.99%	0.64%	0.07%	0.03%	0.95%
11:L	0.03%	0.00%	0.00%	0.03%	0.03%	0.01%	0.08%	0.02%	0.02%	90.46%	0.52%	0.00%	3.80%	2.31%	1.64%	0.03%	0.03%	0.99%	0.01%	0.00%
12:S	1.60%	1.38%	0.01%	0.00%	1.38%	0.02%	0.03%	0.02%	0.00%	0.12%	0.00%	0.01%	3.35%	0.00%	0.03%	90.55%	1.02%	0.03%	0.03%	0.40%
13:A	78.38%	0.01%	0.26%	3.35%	0.01%	0.88%	0.01%	0.35%	0.20%	0.18%	0.03%	0.02%	4.52%	0.06%	0.15%	2.21%	8.26%	1.12%	0.00%	0.00%
14:S	1.16%	8.34%	0.07%	0.01%	7.20%	0.20%	0.16%	0.17%	0.00%	0.61%	0.00%	0.08%	3.40%	0.00%	0.36%	74.97%	1.19%	0.19%	0.09%	1.80%
15:V	6.08%	0.00%	0.13%	4.92%	0.26%	3.74%	0.01%	6.47%	0.19%	10.46%	0.54%	0.01%	0.47%	0.11%	0.19%	0.30%	0.78%	65.34%	0.00%	0.00%
16:G	0.47%	0.02%	0.12%	1.23%	0.00%	90.58%	0.01%	0.03%	0.04%	0.04%	0.00%	0.01%	0.05%	0.06%	6.98%	0.11%	0.06%	0.20%	0.01%	0.00%
17:D	2.54%	0.04%	87.40%	1.10%	0.02%	5.27%	0.74%	0.04%	0.06%	0.01%	0.00%	1.02%	0.04%	0.03%	0.03%	0.08%	0.09%	1.16%	0.00%	0.31%
18:R	0.05%	0.04%	0.01%	0.09%	0.00%	3.94%	0.00%	0.74%	2.04%	0.04%	0.04%	0.15%	0.04%	0.05%	88.23%	2.25%	2.24%	0.02%	0.01%	0.00%
19:V	3.83%	0.02%	1.17%	0.06%	0.87%	2.26%	0.01%	2.95%	0.00%	1.60%	0.05%	0.03%	0.08%	0.00%	0.03%	0.09%	0.16%	86.78%	0.00%	0.01%
20:T	4.45%	0.04%	0.04%	0.00%	0.08%	0.08%	0.03%	2.88%	0.04%	0.11%	0.04%	0.88%	3.09%	0.00%	0.36%	4.15%	83.51%	0.21%	0.00%	0.02%
21:I	0.22%	0.08%	0.05%	0.01%	3.85%	0.11%	0.03%	76.51%	0.12%	4.29%	2.02%	0.71%	0.13%	0.00%	0.46%	1.47%	2.85%	7.09%	0.00%	0.02%
22:T	4.14%	0.07%	0.04%	0.00%	0.07%	0.08%	0.02%	1.85%	0.04%	0.06%	0.04%	0.82%	3.76%	0.00%	0.10%	5.72%	83.06%	0.12%	0.00%	0.02%
23:C	0.02%	85.39%	0.14%	0.00%	0.72%	1.84%	0.21%	0.02%	0.00%	0.08%	0.00%	0.12%	0.04%	0.00%	4.00%	2.28%	0.02%	0.01%	3.01%	2.10%
24:R	0.00%	0.00%	0.00%	0.01%	0.00%	0.15%	0.09%	0.00%	0.01%	0.82%	0.00%	0.00%	1.26%	2.13%	95.11%	0.01%	0.00%	0.00%	0.40%	0.00%
25:A	30.81%	0.02%	0.04%	0.72%	0.02%	0.45%	0.00%	0.12%	0.10%	0.19%	0.01%	0.01%	3.57%	0.01%	0.14%	47.46%	16.01%	0.32%	0.00%	0.00%
26:S	0.04%	1.54%	0.05%	0.00%	0.01%	6.33%	0.12%	0.34%	0.03%	0.04%	0.01%	0.85%	0.09%	0.00%	8.25%	81.42%	0.76%	0.02%	0.07%	0.02%
27:Q	0.01%	0.00%	0.01%	0.37%	0.00%	0.03%	1.55%	0.00%	0.46%	1.74%	0.01%	0.01%	3.79%	88.93%	2.99%	0.02%	0.02%	0.01%	0.04%	0.01%
28:G	3.59%	0.24%	15.30%	0.45%	0.04%	32.18%	0.07%	0.22%	0.02%	0.15%	0.02%	0.22%	0.02%	0.00%	0.44%	0.74%	0.06%	46.21%	0.00%	0.04%
29:I	0.34%	0.09%	0.11%	0.02%	3.06%	0.13%	0.06%	70.19%	0.37%	3.65%	5.15%	1.93%	0.39%	0.01%	0.52%	2.49%	6.54%	4.89%	0.01%	0.03%
30:R	0.19%	0.04%	0.02%	0.15%	0.01%	3.97%	0.01%	1.54%	1.19%	0.26%	0.09%	0.18%	0.11%	0.03%	87.67%	1.77%	2.60%	0.12%	0.06%	0.00%
31:N	0.28%	0.37%	7.43%	0.38%	0.25%	0.47%	5.12%	4.50%	2.64%	0.27%	0.05%	61.01%	0.29%	0.34%	0.69%	9.48%	4.43%	0.30%	0.00%	1.69%
32:D	2.35%	0.22%	69.98%	4.83%	0.24%	4.21%	5.45%	0.25%	0.20%	0.17%	0.00%	6.57%	0.19%	0.18%	0.22%	0.76%	0.49%	1.08%	0.00%	2.60%
33:L	0.16%	0.07%	0.00%	0.05%	6.33%	0.03%	0.00%	0.59%	0.01%	82.08%	0.07%	0.00%	0.32%	0.04%	0.03%	8.56%	0.07%	1.43%	0.11%	0.02%
34:G	8.27%	0.37%	19.55%	0.14%	0.03%	65.47%	0.15%	0.06%	0.01%	0.05%	0.00%	0.18%	0.13%	0.01%	0.50%	0.75%	0.22%	4.01%	0.01%	0.09%
35:W	0.02%	12.11%	0.01%	0.02%	0.34%	0.95%	0.06%	0.00%	0.02%	0.67%	0.01%	0.03%	0.06%	0.05%	3.40%	1.40%	0.02%	0.01%	79.85%	0.98%
36:Y	0.18%	15.54%	3.57%	0.06%	7.45%	0.25%	8.19%	0.39%	0.12%	0.85%	0.01%	5.01%	0.38%	0.15%	0.52%	7.44%	0.27%	0.28%	0.17%	49.17%
37:Q	0.09%	0.01%	0.14%	2.54%	0.01%	0.13%	6.85%	0.01%	1.77%	2.81%	0.05%	0.13%	3.37%	76.43%	5.19%	0.07%	0.07%	0.15%	0.08%	0.08%
38:Q	0.14%	0.01%	0.17%	5.05%	0.00%	0.22%	1.20%	0.04%	23.52%	1.51%	0.77%	0.46%	1.00%	60.28%	4.41%	0.13%	0.60%	0.14%	0.29%	0.04%
39:K	0.19%	0.00%	0.19%	2.31%	0.00%	0.27%	0.09%	1.88%	71.80%	0.06%	0.24%	6.14%	0.11%	1.31%	8.90%	0.56%	5.87%	0.04%	0.00%	0.02%
40:P	5.22%	0.01%	0.02%	1.16%	0.03%	0.30%	0.16%	0.25%	0.13%	3.06%	0.02%	0.01%	69.96%	1.01%	1.72%	11.30%	5.33%	0.31%	0.00%	0.01%
41:G	1.06%	0.02%	0.23%	5.16%	0.00%	90.68%	0.00%	0.01%	0.07%	0.05%	0.04%	0.00%	0.02%	0.07%	0.99%	0.05%	0.03%	1.37%	0.15%	0.00%
42:K	0.17%	0.00%	0.39%	5.29%	0.00%	0.31%	0.27%	1.21%	71.63%	0.06%	0.08%	6.56%	0.09%	2.97%	5.70%	0.64%	4.52%	0.06%	0.00%	0.05%
43:A	57.96%	0.02%	8.48%	0.23%	0.06%	10.20%	0.05%	0.20%	0.01%	0.14%	0.01%	0.09%	0.48%	0.00%	0.04%	0.42%	1.11%	20.48%	0.00%	0.02%
44:P	0.52%	0.02%	0.01%	0.00%	0.01%	0.01%	0.29%	0.02%	0.00%	0.70%	0.00%	0.01%	95.66%	0.03%	0.49%	1.35%	0.85%	0.03%	0.00%	0.00%
45:K	0.36%	0.02%	1.12%	8.70%	0.03%	0.51%	0.39%	0.74%	64.60%	0.42%	2.54%	5.77%	0.19%	4.00%	5.75%	0.81%	3.63%	0.24%	0.10%	0.09%
46:L	0.29%	0.14%	0.03%	0.01%	7.33%	0.07%	0.37%	2.55%	0.02%	78.13%	0.15%	0.06%	2.52%	0.03%	0.90%	0.48%	0.22%	6.65%	0.00%	0.03%
47:L	0.06%	0.00%	0.00%	0.03%	0.23%	0.02%	0.07%	0.29%	0.03%	91.14%	1.08%	0.00%	2.62%	1.39%	1.26%	0.11%	0.08%	1.55%	0.02%	0.00%
48:I	0.21%	0.03%	0.08%	0.01%	1.53%	0.11%	0.03%	77.96%	0.49%	3.14%	5.46%	1.06%	0.09%	0.01%	0.39%	1.04%	3.08%	5.29%	0.00%	0.01%
49:Y	0.09%	7.88%	1.90%	0.10%	8.72%	0.10%	5.78%	0.11%	0.14%	0.72%	0.00%	2.87%	0.25%	0.21%	0.34%	8.96%	0.21%	0.06%	0.10%	61.46%
50:A	68.06%	0.21%	1.43%	0.14%	0.30%	3.24%	0.10%	1.11%	0.03%	0.35%	0.02%	0.54%	5.39%	0.00%	0.10%	4.13%	10.72%	4.05%	0.00%	0.07%
51:A	78.37%	0.01%	0.28%	3.52%	0.01%	0.86%	0.01%	0.35%	0.21%	0.16%	0.03%	0.02%	4.48%	0.06%	0.14%	2.24%	8.16%	1.07%	0.00%	0.00%
52:S	1.34%	1.74%	0.07%	0.00%	1.96%	0.07%	0.08%	0.07%	0.00%	0.26%	0.00%	0.05%	3.39%	0.00%	0.10%	88.71%	0.83%	0.10%	0.02%	1.19%
53:S	0.34%	1.78%	0.27%	0.01%	0.06%	2.65%	0.27%	1.55%	0.21%	0.07%	0.03%	7.11%	0.24%	0.01%	6.12%	70.95%	8.08%	0.08%	0.03%	0.13%
54:L	0.26%	0.14%	0.00%	0.12%	9.46%	0.09%	0.01%	0.96%	0.03%	75.03%	0.08%	0.00%	0.46%	0.17%	0.12%	10.21%	0.08%	2.63%	0.11%	0.04%
55:Q	0.11%	0.02%	0.36%	6.45%	0.02%	0.15%	10.76%	0.08%	2.64%	1.43%	0.01%	0.26%	2.15%	72.01%	2.87%	0.13%	0.14%	0.10%	0.01%	0.29%
56:S	0.18%	4.89%	0.36%	0.02%	0.16%	5.72%	0.42%	1.66%	0.21%	0.14%	0.02%	3.17%	0.13%	0.02%	7.10%	72.43%	2.92%	0.16%	0.07%	0.23%
57:G	0.31%	0.02%	0.09%	1.27%	0.00%	94.45%	0.00%	0.00%	0.03%	0.02%	0.01%	0.00%	0.00%	0.02%	2.37%	0.05%	0.01%	0.32%	1.02%	0.00%
58:V	3.26%	0.00%	0.68%	0.09%	0.33%	1.48%	0.00%	1.62%	0.01%	0.72%	0.07%	0.02%	0.03%	0.00%	0.01%	0.04%	0.08%	91.54%	0.00%	0.00%
59:P	1.43%	0.00%	0.00%	0.02%	0.01%	0.02%	0.05%	0.03%	0.01%	1.09%	0.00%	0.00%	91.26%	0.45%	0.62%	3.08%	1.84%	0.08%	0.00%	0.00%
60:S	1.49%	0.09%	0.01%	0.28%	0.20%	0.06%	0.00%	0.07%	0.02%	2.45%	0.01%	0.00%	3.03%	0.02%	0.07%	91.30%	0.71%	0.10%	0.07%	0.04%
61:R	0.16%	0.25%	0.09%	0.52%	0.01%	9.30%	0.12%	0.37%	4.08%	0.26%	1.34%	0.67%	0.22%	0.42%	69.84%	6.14%	2.10%	0.21%	3.89%	0.03%
62:F	0.08%	1.70%	0.03%	0.00%	76.76%	0.04%	0.04%	2.32%	0.00%	12.59%	0.06%	0.03%	0.15%	0.00%	0.08%	2.18%	0.05%	3.42%	0.08%	0.38%
63:S	0.15%	2.80%	0.26%	0.01%	0.06%	5.21%	0.20%	1.10%	0.26%	0.07%	0.01%	3.43%	0.10%	0.01%	12.56%	70.74%	2.73%	0.09%	0.08%	0.15%
64:G	4.04%	0.60%	7.78%	0.10%	0.02%															