

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:D	4.34%	0.25%	68.12%	3.66%	0.25%	4.29%	4.16%	0.25%	0.28%	0.26%	0.01%	4.09%	0.25%	0.18%	0.30%	0.47%	0.25%	4.34%	0.00%	4.25%
2:I	0.31%	0.09%	0.07%	0.01%	3.07%	0.12%	0.02%	79.67%	0.16%	2.79%	1.57%	0.95%	0.19%	0.00%	0.26%	1.71%	4.00%	4.98%	0.00%	0.02%
3:Q	0.04%	0.01%	0.07%	0.57%	0.01%	0.04%	3.58%	0.00%	0.71%	0.56%	0.01%	0.07%	2.05%	90.73%	1.28%	0.07%	0.06%	0.02%	0.01%	0.11%
4:M	0.34%	0.00%	0.00%	0.21%	0.02%	0.26%	0.00%	2.43%	3.48%	4.34%	74.17%	0.04%	0.12%	0.06%	3.48%	0.17%	5.70%	5.09%	0.08%	0.00%
5:T	5.83%	0.03%	0.06%	0.01%	0.04%	0.10%	0.04%	2.23%	0.24%	0.06%	0.04%	1.61%	2.90%	0.00%	0.20%	3.05%	83.40%	0.13%	0.00%	0.02%
6:Q	0.03%	0.00%	0.04%	0.81%	0.00%	0.03%	7.00%	0.00%	0.61%	2.60%	0.02%	0.04%	3.12%	81.50%	4.05%	0.03%	0.04%	0.03%	0.01%	0.04%
7:S	1.48%	1.85%	0.01%	0.00%	1.58%	0.04%	0.02%	0.04%	0.00%	0.14%	0.00%	0.02%	3.36%	0.00%	0.06%	89.73%	1.16%	0.04%	0.05%	0.41%
8:P	1.40%	0.01%	0.00%	0.05%	0.01%	0.01%	0.19%	0.02%	0.01%	3.09%	0.00%	0.00%	90.96%	1.21%	1.00%	1.48%	0.46%	0.06%	0.00%	0.00%
9:S	1.57%	8.15%	0.29%	0.01%	9.65%	0.25%	0.41%	0.10%	0.02%	1.41%	0.01%	0.21%	3.69%	0.01%	0.49%	66.33%	0.89%	0.25%	0.46%	5.80%
10:S	1.69%	2.29%	0.07%	0.00%	2.10%	0.07%	0.08%	0.02%	0.00%	0.32%	0.00%	0.04%	4.97%	0.00%	0.04%	86.21%	0.79%	0.10%	0.05%	1.13%
11:L	0.04%	0.00%	0.00%	0.04%	0.05%	0.02%	0.12%	0.03%	0.03%	88.21%	0.63%	0.00%	4.65%	2.78%	2.05%	0.05%	0.05%	1.24%	0.01%	0.00%
12:S	1.95%	1.74%	0.02%	0.00%	1.70%	0.03%	0.04%	0.03%	0.00%	0.18%	0.00%	0.02%	4.07%	0.00%	0.05%	88.26%	1.32%	0.04%	0.05%	0.50%
13:A	73.38%	0.01%	0.39%	4.03%	0.02%	1.14%	0.02%	0.48%	0.29%	0.27%	0.06%	0.04%	5.53%	0.10%	0.22%	2.80%	9.80%	1.44%	0.01%	0.01%
14:S	1.30%	9.57%	0.11%	0.01%	8.36%	0.29%	0.24%	0.25%	0.00%	0.93%	0.00%	0.11%	4.02%	0.01%	0.55%	70.33%	1.40%	0.29%	0.13%	2.09%
15:V	6.96%	0.01%	0.20%	5.68%	0.39%	4.43%	0.02%	7.09%	0.28%	12.49%	0.74%	0.02%	0.73%	0.17%	0.29%	0.46%	1.12%	58.92%	0.01%	0.00%
16:G	0.63%	0.03%	0.18%	1.59%	0.00%	88.25%	0.01%	0.04%	0.07%	0.06%	0.00%	0.01%	0.07%	0.09%	8.42%	0.17%	0.09%	0.26%	0.02%	0.00%
17:D	3.02%	0.05%	84.45%	1.34%	0.03%	6.51%	0.91%	0.07%	0.09%	0.03%	0.00%	1.21%	0.07%	0.05%	0.06%	0.12%	0.13%	1.49%	0.00%	0.36%
18:R	0.08%	0.06%	0.02%	0.14%	0.00%	4.85%	0.01%	0.89%	2.40%	0.06%	0.06%	0.23%	0.07%	0.08%	85.60%	2.63%	2.76%	0.04%	0.02%	0.00%
19:V	4.50%	0.02%	1.46%	0.08%	1.10%	2.77%	0.02%	3.47%	0.01%	2.03%	0.08%	0.05%	0.13%	0.00%	0.06%	0.13%	0.24%	83.83%	0.00%	0.01%
20:T	5.36%	0.06%	0.06%	0.00%	0.12%	0.12%	0.05%	3.44%	0.06%	0.18%	0.06%	1.06%	3.83%	0.00%	0.50%	5.01%	79.73%	0.33%	0.00%	0.03%
21:I	0.35%	0.12%	0.07%	0.01%	4.57%	0.16%	0.04%	71.27%	0.19%	5.29%	2.41%	0.85%	0.21%	0.01%	0.68%	1.74%	3.44%	8.55%	0.00%	0.03%
22:T	4.96%	0.11%	0.06%	0.00%	0.11%	0.12%	0.04%	2.28%	0.06%	0.10%	0.07%	1.01%	4.55%	0.01%	0.15%	6.98%	79.17%	0.18%	0.00%	0.03%
23:C	0.04%	82.21%	0.21%	0.00%	0.92%	2.31%	0.30%	0.02%	0.01%	0.13%	0.00%	0.16%	0.06%	0.00%	4.82%	2.73%	0.02%	0.02%	3.60%	2.43%
24:R	0.01%	0.01%	0.00%	0.02%	0.00%	0.21%	0.14%	0.00%	0.01%	1.14%	0.00%	0.00%	1.74%	2.86%	93.30%	0.01%	0.01%	0.01%	0.53%	0.00%
25:A	23.94%	0.03%	0.06%	0.87%	0.03%	0.50%	0.00%	0.17%	0.14%	0.27%	0.01%	0.02%	4.37%	0.02%	0.20%	51.49%	17.49%	0.38%	0.00%	0.01%
26:S	0.06%	1.91%	0.08%	0.01%	0.02%	7.62%	0.18%	0.44%	0.05%	0.07%	0.01%	1.02%	0.13%	0.01%	9.93%	77.37%	0.93%	0.04%	0.11%	0.03%
27:Q	0.02%	0.00%	0.03%	0.47%	0.00%	0.05%	3.51%	0.00%	0.55%	2.70%	0.02%	0.03%	3.14%	84.90%	4.42%	0.02%	0.02%	0.03%	0.07%	0.02%
28:S	0.15%	0.56%	0.33%	0.08%	0.03%	2.47%	0.14%	3.09%	2.11%	0.07%	0.20%	5.20%	0.08%	0.03%	36.83%	45.00%	2.81%	0.69%	0.08%	0.05%
29:I	0.55%	0.16%	0.17%	0.04%	3.79%	0.22%	0.11%	63.80%	0.44%	5.18%	5.26%	2.07%	0.64%	0.02%	0.68%	3.14%	7.00%	6.67%	0.01%	0.05%
30:S	0.70%	3.02%	1.57%	0.09%	0.52%	8.39%	0.49%	5.55%	1.03%	0.49%	0.18%	8.84%	0.20%	0.04%	32.18%	30.63%	4.57%	0.64%	0.20%	0.66%
31:S	0.46%	1.87%	0.95%	0.07%	0.16%	3.54%	0.58%	3.15%	1.40%	0.15%	0.26%	11.69%	0.22%	0.03%	16.79%	51.17%	6.74%	0.25%	0.15%	0.36%
32:Y	0.15%	9.76%	1.96%	0.08%	10.41%	0.17%	6.57%	0.22%	0.10%	1.00%	0.00%	3.43%	0.45%	0.18%	0.49%	11.13%	0.31%	0.13%	0.16%	53.29%
33:L	0.20%	0.12%	0.00%	0.07%	6.77%	0.04%	0.01%	0.72%	0.02%	78.91%	0.11%	0.00%	0.37%	0.11%	0.10%	10.30%	0.07%	1.86%	0.16%	0.04%
34:N	0.54%	0.58%	5.62%	0.50%	0.51%	0.69%	5.17%	5.35%	5.46%	0.57%	0.23%	46.22%	0.60%	1.26%	1.33%	11.69%	10.21%	0.53%	0.01%	2.91%
35:W	0.06%	12.90%	0.08%	0.07%	0.61%	2.50%	0.11%	0.01%	0.03%	1.04%	0.02%	0.04%	0.09%	0.04%	5.18%	1.93%	0.04%	0.05%	73.87%	1.35%
36:Y	0.27%	17.45%	3.89%	0.10%	8.27%	0.35%	9.14%	0.57%	0.19%	1.22%	0.01%	5.58%	0.59%	0.22%	0.77%	8.87%	0.40%	0.37%	0.26%	41.48%
37:Q	0.15%	0.02%	0.21%	3.00%	0.02%	0.20%	7.79%	0.03%	1.98%	3.30%	0.08%	0.17%	4.11%	72.07%	6.20%	0.10%	0.12%	0.22%	0.12%	0.11%
38:Q	0.21%	0.01%	0.26%	5.89%	0.01%	0.32%	1.39%	0.08%	25.47%	1.73%	1.09%	0.66%	1.14%	54.50%	5.47%	0.21%	0.87%	0.20%	0.43%	0.06%
39:K	0.30%	0.01%	0.27%	2.86%	0.00%	0.43%	0.13%	2.22%	66.06%	0.08%	0.35%	7.13%	0.17%	1.55%	10.49%	0.82%	7.02%	0.07%	0.01%	0.03%
40:P	5.62%	0.02%	0.03%	1.63%	0.04%	0.47%	0.22%	0.35%	0.18%	3.59%	0.03%	0.01%	64.82%	1.16%	2.08%	13.14%	6.13%	0.44%	0.01%	0.01%
41:G	1.28%	0.03%	0.35%	6.18%	0.00%	88.42%	0.00%	0.01%	0.12%	0.08%	0.06%	0.01%	0.04%	0.11%	1.27%	0.09%	0.05%	1.71%	0.20%	0.00%
42:K	0.24%	0.01%	0.55%	6.13%	0.01%	0.47%	0.39%	1.46%	66.11%	0.11%	0.12%	7.37%	0.15%	3.50%	6.84%	0.94%	5.42%	0.09%	0.00%	0.07%
43:A	51.50%	0.04%	9.62%	0.33%	0.10%	11.88%	0.07%	0.31%	0.01%	0.24%	0.01%	0.12%	0.60%	0.00%	0.06%	0.54%	1.30%	23.22%	0.00%	0.03%
44:P	0.65%	0.03%	0.01%	0.00%	0.03%	0.02%	0.36%	0.03%	0.00%	0.92%	0.00%	0.01%	94.43%	0.05%	0.62%	1.72%	1.07%	0.05%	0.00%	0.01%
45:K	0.55%	0.04%	1.58%	10.03%	0.04%	0.78%	0.55%	1.01%	57.74%	0.64%	2.79%	6.38%	0.30%	4.71%	6.80%	1.16%	4.25%	0.35%	0.15%	0.13%
46:L	0.43%	0.21%	0.06%	0.01%	8.50%	0.10%	0.45%	3.03%	0.02%	73.69%	0.23%	0.09%	2.94%	0.04%	1.11%	0.72%	0.33%	7.96%	0.01%	0.06%
47:L	0.09%	0.01%	0.01%	0.04%	0.35%	0.04%	0.11%	0.42%	0.05%	88.60%	1.24%	0.01%	3.30%	1.71%	1.63%	0.18%	0.13%	2.05%	0.04%	0.00%
48:I	0.34%	0.04%	0.12%	0.02%	1.92%	0.17%	0.04%	73.08%	0.68%	3.99%	5.88%	1.26%	0.14%	0.01%	0.57%	1.24%	3.96%	6.53%	0.00%	0.02%
49:Y	0.14%	9.25%	2.21%	0.15%	10.06%	0.16%	6.79%	0.16%	0.20%	1.10%	0.01%	3.24%	0.39%	0.33%	0.53%	10.66%	0.30%	0.10%	0.15%	54.10%
50:A	62.01%	0.31%	1.67%	0.20%	0.47%	3.82%	0.15%	1.53%	0.05%	0.53%	0.04%	0.73%	6.35%	0.01%	0.16%	5.14%	11.97%	4.75%	0.01%	0.10%
51:A	73.27%	0.01%	0.42%	4.24%	0.02%	1.11%	0.02%	0.50%	0.30%	0.27%	0.06%	0.04%	5.52%	0.10%	0.22%	2.82%	9.65%	1.41%	0.01%	0.01%
52:S	1.61%	2.15%	0.11%	0.00%	2.45%	0.12%	0.14%	0.09%	0.00%	0.40%	0.00%	0.08%	4.14%	0.00%	0.15%	85.88%	0.98%	0.17%	0.03%	1.49%
53:S	0.51%	2.14%	0.42%	0.02%	0.09%	3.11%	0.40%	1.88%	0.32%	0.12%	0.05%	8.14%	0.38%	0.02%	7.25%	65.21%	9.58%	0.12%	0.05%	0.19%
54:L	0.14%	0.31%	0.00%	0.04%	11.85%	0.05%	0.01%	0.28%	0.01%	77.38%	0.45%	0.00%	0.41%	0.07%	0.16%	4.67%	0.05%	2.09%	1.99%	0.05%
55:Q	0.16%	0.02%	0.37%	4.86%	0.02%	0.25%	10.88%	0.45%	16.44%	1.53%	0.05%	1.68%	1.97%	54.63%	5.39%	0.18%	0.85%	0.09%	0.02%	0.18%
56:S	0.27%	5.65%	0.53%	0.03%	0.23%	6.72%	0.58%	2.02%	0.31%	0.21%	0.04%	3.61%	0.19%	0.04%	8.44%	66.98%	3.50%	0.24%	0.11%	0.31%
57:G	0.41%	0.04%	0.15%	1.57%	0.00%	93.02%	0.00%	0.00%	0.04%	0.03%	0.01%	0.00%	0.01%	0.03%	2.96%	0.07%	0.01%	0.40%	1.24%	0.00%
58:V	4.02%	0.01%	0.86%	0.12%	0.42%	1.83%	0.01%	2.01%	0.01%	0.95%	0.11%	0.02%	0.04%	0.00%	0.02%	0.06%	0.13%	89.36%	0.00%	0.00%
59:P	1.79%	0.00%	0.00%	0.04%	0.02%	0.04%	0.08%	0.05%	0.02%	1.32%	0.01%	0.00%	89.08%	0.55%	0.78%	3.83%	2.26%	0.12%	0.00%	0.00%
60:S	1.78%	0.14%	0.01%	0.39%	0.28%	0.08%	0.01%	0.10%	0.03%	3.00%	0.01%	0.00%	3.72%	0.03%	0.10%	89.12%	0.88%	0.17%	0.09%	0.06%
61:R	0.25%	0.37%	0.16%	0.77%	0.02%	10.66%	0.22%	0.51%	4.43%	0.38%	1.47%	0.89%	0.37%	0.61%	65.13%	6.62%	2.44%	0.31%	4.33%	0.05%
62:F	0.13%	2.06%	0.05%	0.00%	71.63%	0.06%	0.06%	2.75%	0.01%	15.27%	0.08%	0.06%	0.23%	0.00%	0.12%	2.75%	0.07%	4.09%	0.13%	0.44%
63:S	0.27%	2.87%	0.33%	0.02%	0.12%	4.59%	0.28%	1.80%	0.33%	0.11%	0.03%	4.51%	0.27%	0.02%	8.88%	70.57%	4.66%	0.12%	0.07%	0.15%
64:G	5.60%	0.76%	11.94%	0.20%																