

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:D	4.23%	0.24%	68.80%	3.60%	0.23%	4.26%	4.07%	0.23%	0.26%	0.25%	0.01%	4.02%	0.24%	0.18%	0.29%	0.44%	0.24%	4.27%	0.00%	4.15%
2:I	0.30%	0.08%	0.06%	0.01%	3.03%	0.12%	0.02%	80.30%	0.15%	2.67%	1.55%	0.93%	0.18%	0.00%	0.24%	1.64%	3.88%	4.83%	0.00%	0.02%
3:Q	0.04%	0.01%	0.07%	0.57%	0.00%	0.03%	3.48%	0.00%	0.68%	0.54%	0.01%	0.07%	2.00%	91.04%	1.21%	0.06%	0.06%	0.02%	0.01%	0.10%
4:M	0.32%	0.00%	0.00%	0.20%	0.02%	0.25%	0.00%	2.37%	3.39%	4.25%	74.79%	0.04%	0.11%	0.06%	3.40%	0.16%	5.54%	5.01%	0.08%	0.00%
5:T	5.66%	0.03%	0.06%	0.01%	0.04%	0.10%	0.04%	2.21%	0.23%	0.06%	0.04%	1.62%	2.87%	0.00%	0.19%	2.93%	83.76%	0.12%	0.00%	0.02%
6:Q	0.03%	0.00%	0.04%	0.76%	0.00%	0.03%	6.83%	0.00%	0.58%	2.55%	0.02%	0.04%	3.03%	81.96%	3.98%	0.03%	0.04%	0.03%	0.01%	0.03%
7:S	1.41%	1.79%	0.02%	0.00%	1.54%	0.04%	0.02%	0.03%	0.00%	0.14%	0.00%	0.02%	3.24%	0.00%	0.05%	90.12%	1.11%	0.04%	0.04%	0.38%
8:P	1.35%	0.01%	0.00%	0.06%	0.01%	0.02%	0.18%	0.02%	0.01%	3.00%	0.00%	0.00%	91.21%	1.19%	1.00%	1.43%	0.45%	0.05%	0.00%	0.00%
9:S	1.52%	8.07%	0.28%	0.01%	9.43%	0.25%	0.39%	0.09%	0.01%	1.33%	0.01%	0.21%	3.62%	0.01%	0.46%	67.03%	0.88%	0.23%	0.45%	5.72%
10:S	1.67%	2.26%	0.07%	0.00%	2.05%	0.06%	0.08%	0.01%	0.00%	0.30%	0.00%	0.04%	4.84%	0.00%	0.05%	86.56%	0.79%	0.10%	0.05%	1.08%
11:L	0.04%	0.00%	0.00%	0.04%	0.05%	0.01%	0.12%	0.03%	0.03%	88.51%	0.62%	0.00%	4.50%	2.72%	1.99%	0.05%	0.05%	1.23%	0.01%	0.00%
12:S	1.91%	1.69%	0.02%	0.00%	1.65%	0.03%	0.04%	0.03%	0.00%	0.17%	0.00%	0.03%	3.99%	0.00%	0.04%	88.53%	1.28%	0.04%	0.05%	0.50%
13:A	74.05%	0.01%	0.39%	3.94%	0.01%	1.09%	0.01%	0.46%	0.29%	0.26%	0.05%	0.03%	5.41%	0.09%	0.21%	2.73%	9.56%	1.40%	0.01%	0.01%
14:S	1.30%	9.45%	0.11%	0.01%	8.20%	0.29%	0.23%	0.24%	0.00%	0.88%	0.01%	0.10%	3.92%	0.01%	0.51%	70.90%	1.38%	0.29%	0.12%	2.05%
15:V	6.82%	0.00%	0.18%	5.60%	0.37%	4.31%	0.02%	6.98%	0.28%	12.30%	0.72%	0.02%	0.70%	0.16%	0.27%	0.44%	1.09%	59.71%	0.01%	0.00%
16:G	0.62%	0.03%	0.17%	1.55%	0.00%	88.59%	0.01%	0.03%	0.06%	0.05%	0.00%	0.01%	0.07%	0.09%	8.19%	0.16%	0.09%	0.25%	0.02%	0.00%
17:D	2.97%	0.05%	84.76%	1.33%	0.03%	6.36%	0.89%	0.07%	0.10%	0.03%	0.00%	1.19%	0.07%	0.05%	0.05%	0.12%	0.13%	1.45%	0.00%	0.36%
18:R	0.08%	0.06%	0.01%	0.14%	0.00%	4.68%	0.01%	0.88%	2.34%	0.06%	0.05%	0.21%	0.07%	0.07%	85.97%	2.61%	2.71%	0.03%	0.02%	0.00%
19:V	4.41%	0.02%	1.43%	0.08%	1.05%	2.69%	0.02%	3.41%	0.01%	1.95%	0.07%	0.05%	0.12%	0.00%	0.06%	0.13%	0.23%	84.26%	0.00%	0.01%
20:T	5.29%	0.06%	0.06%	0.00%	0.12%	0.11%	0.05%	3.38%	0.05%	0.17%	0.06%	1.03%	3.71%	0.00%	0.49%	4.88%	80.17%	0.31%	0.00%	0.02%
21:I	0.33%	0.11%	0.07%	0.01%	4.48%	0.15%	0.04%	71.99%	0.18%	5.13%	2.37%	0.85%	0.19%	0.00%	0.64%	1.70%	3.39%	8.34%	0.00%	0.03%
22:T	4.84%	0.10%	0.06%	0.00%	0.11%	0.12%	0.04%	2.22%	0.06%	0.09%	0.06%	0.96%	4.50%	0.00%	0.15%	6.81%	79.66%	0.17%	0.00%	0.03%
23:C	0.04%	83.64%	0.20%	0.01%	0.89%	2.25%	0.29%	0.02%	0.01%	0.13%	0.00%	0.16%	0.06%	0.00%	4.75%	2.77%	0.03%	0.02%	2.28%	2.45%
24:Q	0.03%	0.00%	0.01%	1.15%	0.00%	0.03%	0.73%	0.00%	0.75%	1.36%	0.03%	0.01%	4.05%	88.58%	3.13%	0.02%	0.09%	0.01%	0.01%	0.00%
25:A	88.79%	0.00%	0.04%	1.51%	0.00%	0.83%	0.00%	0.01%	0.02%	0.15%	0.17%	0.00%	1.23%	0.01%	0.02%	0.73%	2.91%	3.57%	0.01%	0.00%
26:S	0.07%	1.50%	0.12%	0.00%	0.02%	5.82%	0.19%	1.07%	0.11%	0.05%	0.02%	3.32%	0.10%	0.00%	8.33%	77.33%	1.80%	0.05%	0.04%	0.03%
27:Q	0.02%	0.00%	0.05%	0.52%	0.00%	0.05%	3.38%	0.00%	0.57%	2.10%	0.02%	0.03%	4.53%	84.88%	3.68%	0.03%	0.03%	0.02%	0.06%	0.03%
28:D	2.32%	0.03%	84.75%	4.12%	0.02%	2.81%	0.71%	0.06%	0.17%	0.02%	0.00%	2.13%	0.02%	0.04%	0.06%	0.13%	0.08%	2.13%	0.00%	0.37%
29:I	0.38%	0.14%	0.15%	0.02%	3.88%	0.21%	0.16%	64.00%	0.47%	4.61%	5.19%	2.15%	0.41%	0.02%	0.69%	3.47%	8.12%	5.87%	0.01%	0.05%
30:S	0.65%	3.01%	1.47%	0.11%	0.46%	8.41%	0.47%	5.41%	1.25%	0.50%	0.14%	8.40%	0.19%	0.04%	30.03%	33.58%	4.43%	0.60%	0.25%	0.60%
31:N	0.34%	0.28%	6.49%	0.56%	0.19%	0.39%	4.53%	2.45%	8.85%	0.19%	0.22%	59.89%	0.21%	0.29%	1.35%	5.88%	5.49%	0.19%	0.01%	2.19%
32:Y	0.18%	9.86%	2.49%	0.11%	10.50%	0.19%	5.35%	0.13%	0.07%	0.87%	0.00%	2.68%	0.46%	0.14%	0.38%	10.72%	0.26%	0.08%	0.16%	55.37%
33:L	0.19%	0.11%	0.00%	0.06%	6.71%	0.04%	0.01%	0.71%	0.02%	79.26%	0.10%	0.00%	0.35%	0.10%	0.11%	10.16%	0.07%	1.80%	0.15%	0.04%
34:N	0.53%	0.57%	5.57%	0.47%	0.47%	0.64%	5.08%	5.27%	5.41%	0.54%	0.21%	47.13%	0.58%	1.23%	1.29%	11.53%	10.09%	0.52%	0.01%	2.85%
35:W	0.05%	12.80%	0.07%	0.07%	0.58%	2.44%	0.10%	0.01%	0.03%	1.02%	0.02%	0.04%	0.08%	0.03%	5.12%	1.86%	0.04%	0.05%	74.31%	1.29%
36:Y	0.24%	17.23%	3.86%	0.09%	8.12%	0.35%	9.08%	0.53%	0.17%	1.14%	0.01%	5.53%	0.53%	0.21%	0.75%	8.71%	0.37%	0.36%	0.24%	42.51%
37:Q	0.14%	0.02%	0.20%	2.95%	0.02%	0.18%	7.66%	0.03%	1.98%	3.26%	0.07%	0.17%	4.00%	72.59%	6.09%	0.10%	0.11%	0.21%	0.12%	0.11%
38:Q	0.21%	0.01%	0.25%	5.74%	0.01%	0.32%	1.35%	0.07%	25.29%	1.72%	1.01%	0.64%	1.13%	55.18%	5.35%	0.20%	0.86%	0.20%	0.41%	0.06%
39:K	0.27%	0.01%	0.27%	2.75%	0.00%	0.40%	0.12%	2.17%	66.87%	0.08%	0.35%	7.02%	0.16%	1.53%	10.27%	0.81%	6.83%	0.07%	0.01%	0.03%
40:P	5.58%	0.02%	0.03%	1.56%	0.04%	0.44%	0.21%	0.36%	0.17%	3.56%	0.03%	0.01%	65.38%	1.15%	2.03%	12.94%	6.04%	0.42%	0.01%	0.01%
41:G	1.26%	0.02%	0.33%	6.08%	0.00%	88.73%	0.01%	0.01%	0.10%	0.08%	0.05%	0.01%	0.04%	0.10%	1.23%	0.09%	0.05%	1.64%	0.19%	0.00%
42:K	0.23%	0.01%	0.52%	6.01%	0.00%	0.44%	0.36%	1.43%	66.90%	0.10%	0.12%	7.29%	0.14%	3.43%	6.65%	0.88%	5.33%	0.08%	0.00%	0.07%
43:A	52.33%	0.04%	9.48%	0.32%	0.09%	11.66%	0.07%	0.30%	0.01%	0.22%	0.01%	0.12%	0.57%	0.00%	0.06%	0.54%	1.28%	22.87%	0.00%	0.03%
44:P	0.62%	0.02%	0.01%	0.00%	0.02%	0.02%	0.35%	0.03%	0.00%	0.89%	0.00%	0.01%	94.61%	0.05%	0.60%	1.67%	1.03%	0.04%	0.00%	0.01%
45:K	0.52%	0.04%	1.52%	9.81%	0.04%	0.75%	0.55%	0.96%	58.70%	0.62%	2.78%	6.34%	0.28%	4.61%	6.64%	1.09%	4.18%	0.34%	0.14%	0.12%
46:L	0.41%	0.20%	0.06%	0.01%	8.39%	0.09%	0.45%	2.98%	0.02%	74.21%	0.21%	0.08%	2.86%	0.04%	1.08%	0.69%	0.31%	7.84%	0.01%	0.05%
47:L	0.09%	0.01%	0.00%	0.04%	0.33%	0.04%	0.10%	0.42%	0.04%	88.97%	1.22%	0.00%	3.20%	1.67%	1.57%	0.16%	0.13%	1.95%	0.04%	0.00%
48:I	0.32%	0.04%	0.11%	0.02%	1.88%	0.15%	0.04%	73.93%	0.62%	3.83%	5.68%	1.24%	0.13%	0.01%	0.55%	1.26%	3.87%	6.31%	0.00%	0.01%
49:Y	0.13%	9.41%	3.60%	0.05%	5.08%	0.25%	10.81%	0.15%	0.53%	1.10%	0.01%	5.83%	0.45%	0.27%	0.92%	5.08%	0.33%	0.09%	0.05%	55.86%
50:D	1.70%	0.23%	55.38%	8.04%	0.24%	3.32%	12.26%	0.35%	0.74%	0.40%	0.02%	9.87%	0.45%	0.74%	0.62%	1.27%	1.09%	0.79%	0.00%	2.51%
51:A	58.26%	0.02%	0.40%	4.02%	0.04%	1.08%	0.02%	0.94%	0.48%	0.47%	0.08%	0.05%	9.43%	0.14%	0.39%	5.99%	16.92%	1.26%	0.01%	0.01%
52:S	1.61%	2.03%	0.10%	0.01%	2.14%	0.11%	0.12%	0.09%	0.00%	0.68%	0.01%	0.07%	4.02%	0.00%	0.14%	86.20%	0.97%	0.19%	0.13%	1.38%
53:N	0.40%	0.28%	3.01%	0.20%	0.16%	0.39%	3.67%	2.35%	3.04%	0.16%	0.04%	61.39%	0.36%	0.20%	0.91%	11.63%	10.29%	0.12%	0.00%	1.38%
54:L	0.12%	0.06%	0.00%	0.05%	1.28%	0.07%	0.00%	0.06%	0.03%	87.58%	0.78%	0.00%	0.22%	0.06%	0.22%	4.01%	0.07%	2.72%	2.66%	0.01%
55:E	3.61%	0.00%	8.50%	72.98%	0.00%	6.57%	0.20%	0.20%	3.71%	0.13%	0.02%	0.40%	0.14%	1.37%	0.62%	0.11%	0.42%	0.97%	0.00%	0.04%
56:T	5.20%	0.01%	0.02%	1.43%	0.04%	0.47%	0.02%	5.48%	2.76%	0.88%	0.60%	0.12%	3.57%	0.16%	4.34%	4.40%	69.91%	0.60%	0.00%	0.00%
57:G	0.31%	0.02%	0.11%	1.32%	0.00%	96.25%	0.00%	0.00%	0.02%	0.02%	0.01%	0.00%	0.01%	0.02%	1.25%	0.06%	0.02%	0.36%	0.21%	0.00%
58:V	3.95%	0.01%	0.83%	0.13%	0.42%	1.78%	0.01%	1.96%	0.01%	0.92%	0.10%	0.02%	0.05%	0.00%	0.02%	0.06%	0.12%	89.59%	0.00%	0.00%
59:P	1.74%	0.00%	0.00%	0.03%	0.01%	0.04%	0.07%	0.04%	0.02%	1.27%	0.01%	0.00%	89.42%	0.54%	0.76%	3.74%	2.19%	0.11%	0.00%	0.00%
60:S	1.73%	0.14%	0.02%	0.38%	0.28%	0.08%	0.01%	0.09%	0.03%	2.96%	0.01%	0.00%	3.60%	0.03%	0.10%	89.39%	0.86%	0.15%	0.09%	0.06%
61:R	0.22%	0.36%	0.15%	0.72%	0.02%	10.49%	0.20%	0.47%	4.44%	0.35%	1.45%	0.86%	0.35%	0.58%	65.75%	6.58%	2.41%	0.29%	4.25%	0.04%
62:F	0.12%	2.01%	0.05%	0.00%	72.22%	0.06%	0.05%	2.71%	0.00%	15.00%	0.08%	0.05%	0.22%	0.00%	0.12%	2.66%	0.07%	4.02%	0.12%	0.44%
63:S	0.27%	2.82%	0.33%	0.02%	0.11%	4.42%	0.26%	1.88%	0.35%	0.11%	0.03%	4.60%	0.26%	0.02%	8.94%	70.50%	4.74%	0.12%	0.07%	0.14%
64:S	1.75%	0.03%	0.62%	4.60%	0.00%															