

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:D	3.67%	0.16%	69.19%	7.36%	0.15%	3.69%	3.38%	0.17%	0.32%	0.17%	0.01%	3.35%	0.17%	0.30%	0.18%	0.32%	0.17%	3.71%	0.01%	3.52%
2:I	0.49%	0.18%	0.15%	0.02%	9.12%	0.22%	0.09%	60.34%	0.12%	8.30%	1.43%	1.70%	0.60%	0.00%	0.22%	3.38%	5.65%	7.94%	0.00%	0.06%
3:V	3.21%	0.00%	0.15%	2.22%	0.14%	2.04%	0.00%	0.91%	0.08%	8.20%	3.32%	0.00%	0.16%	0.07%	0.09%	0.11%	0.23%	79.04%	0.03%	0.00%
4:M	0.19%	0.00%	0.00%	0.12%	0.02%	0.13%	0.00%	1.99%	2.90%	3.54%	79.27%	0.03%	0.08%	0.05%	2.97%	0.09%	4.75%	3.82%	0.04%	0.00%
5:T	4.93%	0.03%	0.03%	0.00%	0.03%	0.09%	0.02%	2.14%	0.04%	0.05%	0.04%	0.69%	3.08%	0.00%	0.11%	3.66%	84.97%	0.11%	0.00%	0.00%
6:Q	0.06%	0.00%	0.06%	2.08%	0.00%	0.09%	5.67%	0.00%	0.60%	2.80%	0.02%	0.02%	3.52%	80.70%	4.20%	0.03%	0.03%	0.05%	0.04%	0.03%
7:S	1.19%	1.51%	0.01%	0.00%	1.30%	0.02%	0.02%	0.03%	0.00%	0.10%	0.00%	0.01%	2.76%	0.00%	0.04%	91.73%	0.90%	0.03%	0.03%	0.33%
8:P	1.07%	0.00%	0.01%	0.09%	0.01%	0.03%	0.13%	0.02%	0.01%	5.56%	0.00%	0.00%	86.76%	2.30%	2.47%	1.13%	0.33%	0.07%	0.00%	0.00%
9:L	0.06%	0.05%	0.02%	0.00%	2.06%	0.04%	0.84%	0.57%	0.00%	88.02%	0.03%	0.01%	4.11%	0.03%	1.22%	0.08%	0.04%	2.79%	0.00%	0.02%
10:S	1.87%	1.69%	0.05%	0.00%	1.51%	0.05%	0.07%	0.01%	0.00%	0.28%	0.00%	0.04%	5.27%	0.00%	0.08%	87.20%	0.87%	0.10%	0.03%	0.87%
11:L	0.02%	0.00%	0.00%	0.02%	0.02%	0.01%	0.01%	0.02%	0.01%	94.22%	0.53%	0.00%	1.57%	0.73%	1.71%	0.04%	0.03%	1.04%	0.01%	0.00%
12:P	4.10%	0.02%	0.02%	0.00%	0.07%	0.02%	0.44%	0.07%	0.00%	0.70%	0.00%	0.04%	82.07%	0.00%	0.35%	8.55%	3.46%	0.07%	0.00%	0.02%
13:V	3.74%	0.01%	0.96%	0.05%	0.47%	1.79%	0.01%	1.22%	0.00%	1.96%	0.03%	0.01%	0.05%	0.00%	0.03%	0.03%	0.05%	89.56%	0.00%	0.00%
14:T	4.35%	0.04%	0.09%	0.00%	0.05%	0.10%	0.03%	1.03%	0.09%	0.05%	0.04%	0.96%	3.20%	0.00%	0.11%	3.55%	86.04%	0.24%	0.00%	0.03%
15:P	0.51%	0.02%	0.01%	0.00%	0.02%	0.02%	0.52%	0.02%	0.00%	1.37%	0.00%	0.01%	94.34%	0.06%	0.99%	1.29%	0.78%	0.02%	0.00%	0.01%
16:G	1.40%	0.01%	0.25%	3.13%	0.00%	90.42%	0.00%	0.04%	0.09%	0.04%	0.00%	0.01%	0.04%	0.04%	3.81%	0.10%	0.10%	0.51%	0.01%	0.00%
17:E	1.50%	0.00%	3.37%	87.23%	0.00%	2.52%	0.05%	0.01%	2.20%	0.07%	0.07%	0.09%	0.05%	1.95%	0.17%	0.02%	0.08%	0.60%	0.00%	0.01%
18:P	8.19%	0.00%	0.00%	0.04%	0.00%	0.02%	0.00%	0.00%	0.04%	0.50%	0.05%	0.00%	66.60%	0.11%	0.12%	16.87%	7.19%	0.11%	0.14%	0.00%
19:A	88.40%	0.01%	0.63%	0.02%	0.01%	0.55%	0.01%	0.06%	0.00%	0.01%	0.00%	0.04%	2.54%	0.00%	0.01%	1.25%	5.63%	0.82%	0.00%	0.00%
20:S	1.49%	1.14%	0.01%	0.00%	1.06%	0.02%	0.03%	0.01%	0.00%	0.12%	0.00%	0.01%	4.14%	0.00%	0.02%	90.96%	0.65%	0.03%	0.01%	0.31%
21:I	0.24%	0.07%	0.06%	0.01%	3.80%	0.09%	0.03%	73.12%	0.21%	4.41%	4.09%	1.28%	0.16%	0.00%	0.21%	1.37%	3.66%	7.15%	0.00%	0.03%
22:S	1.94%	1.39%	0.03%	0.00%	1.45%	0.03%	0.08%	0.02%	0.00%	0.28%	0.00%	0.04%	5.19%	0.00%	0.06%	87.64%	0.84%	0.06%	0.03%	0.90%
23:C	0.07%	80.45%	0.23%	0.00%	2.09%	1.37%	0.49%	0.02%	0.01%	0.19%	0.00%	0.25%	0.15%	0.01%	1.27%	4.95%	0.04%	0.03%	0.43%	7.94%
24:R	0.09%	0.04%	0.01%	0.21%	0.00%	3.39%	0.00%	0.07%	4.41%	0.07%	1.37%	0.09%	0.06%	0.08%	85.76%	0.89%	1.83%	0.07%	1.56%	0.00%
25:S	2.56%	6.67%	0.07%	0.00%	5.23%	0.09%	0.12%	0.16%	0.00%	0.64%	0.00%	0.08%	4.88%	0.00%	0.17%	75.38%	1.91%	0.21%	0.19%	1.62%
26:S	0.12%	5.46%	0.18%	0.01%	0.06%	7.26%	0.08%	0.54%	0.05%	0.05%	0.01%	1.36%	0.07%	0.00%	7.34%	76.02%	1.15%	0.05%	0.10%	0.07%
27:Q	0.01%	0.00%	0.02%	0.38%	0.00%	0.03%	2.95%	0.00%	0.47%	2.26%	0.01%	0.02%	2.57%	87.56%	3.62%	0.01%	0.01%	0.02%	0.05%	0.02%
28:S	0.08%	0.60%	0.08%	0.01%	0.01%	2.37%	0.06%	1.31%	0.32%	0.02%	0.07%	4.59%	0.04%	0.00%	6.76%	81.20%	2.42%	0.02%	0.03%	0.02%
29:L	0.04%	0.01%	0.01%	0.00%	0.62%	0.01%	0.65%	0.35%	0.00%	91.45%	0.02%	0.01%	4.21%	0.04%	1.55%	0.03%	0.02%	0.98%	0.00%	0.01%
30:L	0.06%	0.00%	0.00%	0.02%	0.31%	0.02%	0.05%	0.35%	0.02%	92.30%	1.04%	0.00%	1.69%	0.75%	1.64%	0.13%	0.08%	1.51%	0.03%	0.00%
31:H	0.06%	0.35%	0.71%	0.12%	0.17%	0.08%	75.55%	0.18%	0.53%	3.33%	0.01%	3.04%	2.34%	6.34%	5.47%	0.46%	0.22%	0.11%	0.02%	0.94%
32:S	1.14%	2.78%	1.23%	0.08%	0.63%	5.99%	0.56%	6.53%	0.55%	0.53%	0.17%	10.50%	0.46%	0.03%	5.41%	51.44%	10.97%	0.54%	0.09%	0.38%
33:N	0.41%	0.39%	8.60%	0.86%	0.38%	0.69%	4.20%	3.41%	6.58%	0.32%	0.12%	54.81%	0.23%	0.47%	0.88%	10.17%	5.02%	0.27%	0.01%	2.17%
34:G	3.27%	0.01%	0.97%	7.82%	0.01%	78.19%	0.02%	0.18%	0.39%	0.21%	0.01%	0.04%	0.23%	0.17%	6.48%	0.20%	0.50%	1.28%	0.01%	0.01%
35:Y	0.16%	7.90%	6.96%	0.09%	4.62%	0.40%	9.50%	0.26%	0.67%	1.21%	0.01%	8.07%	0.23%	0.22%	0.54%	5.10%	0.23%	0.12%	0.20%	53.52%
36:N	0.26%	0.21%	3.43%	0.27%	0.11%	0.26%	2.16%	2.13%	8.46%	0.08%	0.13%	68.59%	0.17%	0.15%	1.00%	5.66%	5.13%	0.09%	0.00%	1.71%
37:Y	0.13%	8.73%	2.23%	0.08%	9.41%	0.13%	4.67%	0.10%	0.05%	0.62%	0.00%	2.40%	0.33%	0.11%	0.28%	9.39%	0.19%	0.05%	0.11%	61.01%
38:L	0.08%	0.04%	0.00%	0.03%	1.44%	0.05%	0.00%	0.05%	0.01%	89.29%	0.63%	0.00%	0.17%	0.05%	0.15%	3.46%	0.04%	2.25%	2.24%	0.01%
39:D	1.75%	0.10%	76.78%	1.35%	0.11%	2.78%	3.39%	0.23%	0.41%	0.13%	0.01%	8.60%	0.15%	0.50%	0.15%	0.65%	0.42%	1.10%	0.00%	1.41%
40:W	0.03%	12.25%	0.04%	0.05%	0.44%	2.02%	0.07%	0.01%	0.02%	0.81%	0.01%	0.03%	0.05%	0.02%	4.27%	1.53%	0.02%	0.03%	77.26%	1.05%
41:Y	0.13%	7.89%	6.74%	0.12%	3.93%	0.30%	7.37%	0.43%	0.72%	0.61%	0.02%	10.77%	0.17%	0.14%	0.43%	4.06%	0.23%	0.14%	0.14%	55.68%
42:L	0.11%	0.01%	0.00%	0.07%	0.51%	0.06%	0.05%	0.43%	0.03%	88.39%	1.46%	0.00%	1.80%	0.72%	1.56%	0.18%	0.10%	4.46%	0.06%	0.00%
43:Q	0.03%	0.01%	0.02%	0.48%	0.00%	0.07%	1.82%	0.01%	1.86%	1.96%	0.07%	0.09%	1.32%	88.08%	3.71%	0.06%	0.06%	0.05%	0.29%	0.02%
44:K	0.12%	0.00%	0.08%	3.39%	0.00%	0.36%	0.02%	0.16%	77.54%	0.11%	3.93%	0.81%	0.05%	1.91%	8.16%	0.11%	3.05%	0.13%	0.07%	0.00%
45:P	5.06%	0.00%	0.00%	0.05%	0.01%	0.05%	0.07%	0.07%	0.11%	1.55%	0.01%	0.01%	76.43%	0.51%	0.91%	10.57%	4.45%	0.13%	0.00%	0.00%
46:G	0.37%	0.49%	0.23%	1.16%	0.00%	93.93%	0.01%	0.01%	0.02%	0.02%	0.01%	0.01%	0.02%	0.02%	1.77%	1.50%	0.02%	0.31%	0.10%	0.00%
47:Q	0.03%	0.00%	0.04%	0.69%	0.00%	0.04%	5.30%	0.01%	0.77%	5.28%	0.03%	0.24%	3.86%	78.77%	4.73%	0.05%	0.04%	0.04%	0.05%	0.03%
48:S	1.23%	1.49%	0.01%	0.00%	1.32%	0.03%	0.01%	0.02%	0.00%	0.10%	0.00%	0.01%	2.78%	0.00%	0.03%	91.64%	0.91%	0.03%	0.03%	0.34%
49:P	1.08%	0.00%	0.00%	0.09%	0.01%	0.03%	0.17%	0.02%	0.01%	5.51%	0.00%	0.00%	86.81%	2.25%	2.46%	1.15%	0.34%	0.06%	0.00%	0.00%
50:Q	0.06%	0.01%	0.43%	3.63%	0.01%	0.08%	8.57%	0.01%	1.12%	2.93%	0.05%	0.13%	1.88%	76.16%	4.61%	0.05%	0.04%	0.08%	0.03%	0.11%
51:L	0.31%	0.14%	0.04%	0.01%	7.53%	0.06%	0.38%	2.61%	0.01%	77.52%	0.16%	0.07%	2.52%	0.03%	0.94%	0.52%	0.24%	6.88%	0.01%	0.03%
52:L	0.07%	0.00%	0.00%	0.03%	0.23%	0.03%	0.07%	0.30%	0.03%	91.06%	1.07%	0.00%	2.68%	1.40%	1.25%	0.11%	0.09%	1.56%	0.03%	0.00%
53:I	0.23%	0.03%	0.08%	0.01%	1.52%	0.11%	0.03%	77.63%	0.52%	3.19%	5.47%	1.08%	0.09%	0.01%	0.40%	1.08%	3.14%	5.38%	0.00%	0.01%
54:Y	0.12%	8.58%	1.92%	0.06%	9.16%	0.13%	6.00%	0.10%	0.06%	0.72%	0.00%	2.99%	0.29%	0.14%	0.36%	9.40%	0.21%	0.06%	0.11%	59.59%
55:L	0.08%	0.02%	0.00%	0.03%	0.75%	0.05%	0.00%	0.01%	0.01%	89.97%	0.68%	0.00%	0.16%	0.04%	0.15%	3.44%	0.05%	2.27%	2.28%	0.00%
56:G	7.44%	1.04%	15.75%	0.53%	0.06%	64.78%	0.44%	0.14%	0.03%	0.09%	0.00%	1.15%	0.34%	0.01%	1.10%	4.19%	0.82%	1.88%	0.02%	0.20%
57:S	2.24%	9.03%	0.08%	0.01%	8.96%	0.14%	0.18%	0.08%	0.00%	1.26%	0.00%	0.05%	1.99%	0.01%	0.28%	72.09%	0.51%	0.16%	0.19%	2.72%
58:N	0.49%	0.46%	7.94%	0.24%	0.42%	0.74%	3.94%	4.69%	1.89%	0.40%	0.08%	58.74%	0.33%	0.18%	0.77%	10.53%	5.73%	0.37%	0.01%	2.07%
59:R	0.00%	0.02%	0.00%	0.01%	0.00%	1.76%	0.03%	0.00%	0.01%	0.08%	0.00%	0.00%	0.13%	0.19%	94.90%	0.01%	0.00%	0.01%	2.83%	0.00%
60:A	95.08%	0.00%	0.65%	0.01%	0.00%	0.59%	0.00%	0.02%	0.00%	0.01%	0.00%	0.02%	0.77%	0.00%	0.00%	0.43%	1.53%	0.88%	0.00%	0.00%
61:S	1.44%	1.35%	0.04%	0.00%	1.35%	0.04%	0.05%	0.01%	0.00%	0.16%	0.00%	0.02%	4.15%	0.00%	0.03%	89.90%	0.62%	0.06%	0.03%	0.77%
62:G	0.32%	0.01%	0.10%	1.24%	0.00%	96.88%	0.00%	0.00%	0.02%	0.01%	0.01%	0.00%	0.00%	0.02%	0.86%	0.04%	0.01%	0.31%	0.15%	0.00%
63:V	3.34%	0.01%	0.69%	0.09%	0.35%	1.48%	0.00%	1.63%	0.01%	0.71%	0.07%	0.02%	0.03%	0.00%	0.01%	0.04%	0.08%	91.45%	0.00%	0.00%
64:P	0.66%	0.05%	0.01%	0.00%	0.06%	0.03%	0.													