

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:E	3.37%	0.00%	6.45%	75.50%	0.01%	3.46%	0.30%	0.13%	2.90%	0.21%	0.01%	0.45%	0.13%	3.06%	0.27%	0.08%	0.14%	3.39%	0.00%	0.14%
2:I	0.33%	0.14%	0.20%	0.02%	4.82%	0.20%	0.29%	60.64%	0.12%	8.75%	1.46%	2.18%	0.61%	0.01%	0.25%	3.34%	6.45%	10.11%	0.00%	0.08%
3:V	1.82%	0.00%	0.11%	1.33%	0.28%	1.19%	0.00%	0.81%	0.05%	7.23%	3.02%	0.00%	0.12%	0.04%	0.06%	0.06%	0.15%	83.70%	0.02%	0.00%
4:L	0.09%	0.03%	0.00%	0.02%	0.97%	0.06%	0.00%	0.03%	0.02%	85.16%	1.18%	0.00%	0.14%	0.01%	0.14%	6.78%	0.06%	1.33%	3.97%	0.00%
5:T	3.69%	0.00%	0.00%	0.08%	0.00%	0.03%	0.00%	0.37%	1.94%	0.03%	0.97%	0.13%	2.05%	0.03%	0.98%	0.91%	88.71%	0.05%	0.01%	0.00%
6:Q	0.07%	0.01%	0.06%	1.28%	0.00%	0.06%	4.60%	0.01%	4.83%	5.27%	0.18%	0.16%	3.33%	75.12%	4.39%	0.12%	0.16%	0.18%	0.12%	0.05%
7:S	1.09%	1.31%	0.01%	0.00%	1.18%	0.02%	0.01%	0.02%	0.00%	0.07%	0.00%	0.01%	2.44%	0.00%	0.03%	92.70%	0.78%	0.02%	0.02%	0.31%
8:P	1.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.09%	0.02%	0.01%	2.39%	0.00%	0.00%	94.27%	0.45%	0.43%	1.01%	0.28%	0.02%	0.00%	0.00%
9:G	1.09%	0.18%	2.26%	0.43%	0.01%	93.56%	0.03%	0.02%	0.01%	0.02%	0.00%	0.04%	0.02%	0.00%	0.84%	0.43%	0.03%	1.00%	0.00%	0.02%
10:T	4.17%	0.04%	0.12%	0.00%	0.06%	0.11%	0.03%	1.73%	0.08%	0.04%	0.08%	1.23%	1.59%	0.00%	0.06%	4.17%	86.24%	0.24%	0.00%	0.03%
11:L	0.02%	0.00%	0.00%	0.02%	0.02%	0.01%	0.07%	0.02%	0.01%	91.50%	0.47%	0.00%	3.36%	2.06%	1.47%	0.03%	0.02%	0.90%	0.00%	0.00%
12:S	1.44%	1.11%	0.01%	0.00%	0.56%	0.02%	0.03%	0.01%	0.00%	0.05%	0.00%	0.02%	3.01%	0.00%	0.02%	92.40%	0.91%	0.01%	0.01%	0.38%
13:L	0.03%	0.03%	0.00%	0.02%	2.36%	0.02%	0.00%	0.03%	0.00%	92.29%	0.53%	0.00%	0.11%	0.03%	0.06%	1.71%	0.02%	1.70%	1.05%	0.01%
14:S	1.44%	1.27%	0.01%	0.00%	1.12%	0.02%	0.01%	0.02%	0.00%	0.07%	0.00%	0.01%	3.01%	0.00%	0.02%	91.77%	0.89%	0.02%	0.03%	0.28%
15:P	0.01%	0.00%	0.00%	0.02%	0.00%	0.01%	0.09%	0.02%	0.00%	2.39%	0.00%	0.00%	94.29%	0.46%	0.42%	1.00%	0.28%	0.02%	0.00%	0.00%
16:G	0.28%	0.02%	0.13%	1.03%	0.00%	96.91%	0.00%	0.00%	0.01%	0.01%	0.01%	0.00%	0.01%	0.01%	1.08%	0.08%	0.01%	0.29%	0.13%	0.00%
17:E	1.87%	0.00%	4.71%	80.39%	0.00%	4.77%	0.11%	0.16%	3.91%	0.10%	0.01%	0.28%	0.06%	1.16%	0.60%	0.78%	0.37%	0.69%	0.00%	0.02%
18:R	0.05%	0.04%	0.01%	0.10%	0.00%	6.68%	0.01%	0.46%	1.38%	0.05%	0.02%	0.11%	0.04%	0.08%	88.23%	1.57%	1.15%	0.02%	0.01%	0.00%
19:A	73.67%	0.02%	3.96%	0.23%	0.06%	4.63%	0.04%	0.41%	0.01%	0.10%	0.00%	0.15%	2.05%	0.00%	0.06%	1.30%	3.75%	9.55%	0.00%	0.02%
20:T	4.17%	0.03%	0.08%	0.00%	0.05%	0.08%	0.02%	0.96%	0.07%	0.03%	0.05%	0.90%	3.01%	0.00%	0.04%	3.40%	86.92%	0.19%	0.00%	0.02%
21:L	0.04%	0.03%	0.01%	0.00%	2.30%	0.02%	0.59%	0.55%	0.00%	89.83%	0.02%	0.00%	3.28%	0.03%	1.07%	0.04%	0.02%	2.17%	0.00%	0.01%
22:S	1.74%	1.14%	0.02%	0.00%	1.24%	0.02%	0.06%	0.02%	0.00%	0.23%	0.00%	0.03%	4.68%	0.00%	0.05%	89.16%	0.77%	0.04%	0.03%	0.77%
23:C	0.05%	82.80%	0.19%	0.00%	1.84%	1.22%	0.38%	0.01%	0.00%	0.14%	0.00%	0.19%	0.11%	0.01%	1.12%	4.38%	0.03%	0.02%	0.30%	7.18%
24:R	0.01%	0.02%	0.00%	0.03%	0.00%	3.23%	0.00%	0.01%	0.55%	0.01%	0.15%	0.02%	0.01%	0.01%	93.60%	0.64%	0.26%	0.01%	1.46%	0.00%
25:A	95.20%	0.00%	0.62%	0.01%	0.00%	0.29%	0.00%	0.03%	0.00%	0.01%	0.00%	0.02%	0.69%	0.00%	0.00%	0.48%	1.46%	1.18%	0.00%	0.00%
26:S	0.09%	1.77%	0.07%	0.00%	0.02%	2.77%	0.07%	1.25%	0.07%	0.03%	0.02%	3.03%	0.08%	0.00%	4.98%	81.72%	3.95%	0.04%	0.02%	0.03%
27:Q	0.01%	0.00%	0.01%	0.39%	0.00%	0.03%	2.57%	0.00%	0.46%	1.95%	0.01%	0.01%	2.28%	88.96%	3.22%	0.01%	0.01%	0.02%	0.04%	0.01%
28:S	0.08%	0.75%	0.11%	0.01%	0.03%	2.35%	0.06%	4.89%	0.17%	0.05%	0.07%	4.68%	0.05%	0.00%	4.70%	76.74%	5.12%	0.09%	0.02%	0.02%
29:V	5.50%	0.05%	2.15%	0.21%	3.40%	2.18%	0.12%	5.23%	0.01%	7.15%	0.23%	0.10%	0.48%	0.01%	0.16%	0.27%	0.36%	72.32%	0.00%	0.05%
30:S	0.42%	2.74%	0.93%	0.04%	0.32%	7.14%	0.28%	4.87%	0.56%	0.27%	0.11%	8.18%	0.11%	0.01%	27.73%	41.67%	3.76%	0.34%	0.11%	0.42%
31:S	0.19%	1.12%	0.39%	0.03%	0.07%	2.82%	0.28%	2.46%	0.72%	0.07%	0.07%	8.03%	0.10%	0.01%	29.15%	49.44%	4.70%	0.13%	0.05%	0.17%
32:S	0.23%	1.36%	0.54%	0.03%	0.08%	2.50%	0.32%	2.49%	0.81%	0.07%	0.16%	10.00%	0.11%	0.01%	13.81%	61.71%	5.35%	0.13%	0.09%	0.20%
33:Y	0.05%	8.07%	2.02%	0.03%	4.76%	0.12%	6.29%	0.07%	0.18%	0.65%	0.00%	3.18%	0.17%	0.08%	0.28%	4.37%	0.10%	0.04%	0.20%	69.34%
34:L	0.07%	0.07%	0.00%	0.02%	6.42%	0.02%	0.01%	0.85%	0.01%	83.69%	0.08%	0.00%	0.57%	0.14%	0.17%	6.90%	0.06%	0.80%	0.10%	0.02%
35:A	81.72%	0.08%	2.58%	0.09%	0.10%	2.33%	0.02%	0.18%	0.01%	0.07%	0.01%	0.10%	1.86%	0.00%	0.03%	1.67%	3.40%	5.70%	0.00%	0.05%
36:W	0.08%	11.43%	0.06%	0.15%	0.29%	7.37%	0.03%	0.00%	0.02%	0.59%	0.01%	0.02%	0.04%	0.04%	2.84%	1.18%	0.02%	0.05%	74.94%	0.84%
37:Y	0.11%	7.33%	6.08%	0.15%	3.61%	0.23%	6.89%	0.34%	0.74%	0.46%	0.01%	9.78%	0.12%	0.10%	0.34%	3.53%	0.17%	0.10%	0.07%	59.83%
38:Q	0.04%	0.01%	0.06%	1.57%	0.01%	0.04%	6.54%	0.01%	1.14%	1.86%	0.03%	0.09%	2.34%	82.90%	3.14%	0.04%	0.05%	0.05%	0.02%	0.07%
39:Q	0.12%	0.00%	0.14%	4.69%	0.00%	0.17%	1.14%	0.03%	22.55%	1.36%	0.65%	0.39%	0.90%	62.86%	3.98%	0.11%	0.49%	0.12%	0.25%	0.04%
40:K	0.14%	0.00%	0.14%	2.12%	0.00%	0.21%	0.07%	1.71%	74.43%	0.04%	0.20%	5.62%	0.10%	1.22%	8.13%	0.45%	5.37%	0.04%	0.00%	0.01%
41:P	3.85%	0.52%	0.13%	0.01%	0.43%	0.32%	1.47%	0.34%	0.01%	4.21%	0.01%	0.11%	73.96%	0.11%	3.23%	6.67%	3.97%	0.52%	0.01%	0.12%
42:G	0.63%	0.39%	1.37%	0.03%	0.00%	95.89%	0.01%	0.01%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.41%	0.90%	0.02%	0.31%	0.00%	0.01%
43:Q	0.02%	0.00%	0.01%	0.87%	0.00%	0.02%	0.59%	0.00%	0.60%	1.00%	0.02%	0.00%	2.85%	91.76%	2.19%	0.01%	0.05%	0.01%	0.00%	0.00%
44:A	66.77%	0.03%	0.33%	0.04%	0.05%	0.92%	0.02%	0.28%	0.00%	0.07%	0.00%	0.08%	8.04%	0.00%	0.04%	4.00%	18.08%	1.26%	0.00%	0.01%
45:P	1.57%	0.07%	0.02%	0.00%	0.07%	0.02%	1.58%	0.05%	0.00%	2.67%	0.00%	0.02%	90.21%	0.05%	1.25%	1.53%	0.81%	0.06%	0.00%	0.04%
46:R	0.01%	0.18%	0.01%	0.03%	0.00%	2.20%	0.00%	0.08%	0.55%	0.01%	0.17%	0.15%	0.01%	0.02%	84.47%	10.92%	0.37%	0.01%	0.81%	0.00%
47:L	0.03%	0.02%	0.01%	0.00%	1.47%	0.01%	0.41%	0.40%	0.00%	92.36%	0.02%	0.03%	3.01%	0.03%	0.91%	0.04%	0.02%	1.22%	0.00%	0.01%
48:L	0.07%	0.05%	0.02%	0.00%	2.87%	0.03%	0.53%	0.85%	0.00%	88.68%	0.02%	0.01%	3.01%	0.03%	0.94%	0.08%	0.02%	2.77%	0.00%	0.02%
49:I	0.19%	0.05%	0.06%	0.01%	2.97%	0.09%	0.03%	72.90%	0.21%	5.04%	5.26%	1.13%	0.14%	0.00%	0.25%	1.17%	3.35%	7.14%	0.00%	0.02%
50:Y	0.07%	7.19%	1.76%	0.06%	7.86%	0.08%	5.36%	0.08%	0.13%	0.60%	0.00%	2.67%	0.19%	0.26%	0.28%	7.91%	0.17%	0.05%	0.07%	65.21%
51:G	3.34%	1.32%	5.17%	0.28%	0.05%	82.71%	0.20%	0.11%	0.01%	0.07%	0.00%	0.27%	0.14%	0.01%	1.41%	3.44%	0.28%	1.09%	0.01%	0.11%
52:A	87.99%	0.00%	0.23%	3.38%	0.01%	0.79%	0.00%	0.15%	0.08%	0.12%	0.01%	0.01%	1.11%	0.02%	0.06%	1.54%	3.56%	0.92%	0.00%	0.00%
53:S	1.21%	1.58%	0.05%	0.00%	1.78%	0.06%	0.07%	0.05%	0.00%	0.21%	0.00%	0.05%	3.05%	0.00%	0.08%	89.92%	0.74%	0.08%	0.01%	1.05%
54:S	0.19%	1.53%	0.23%	0.01%	0.07%	2.69%	0.30%	2.23%	0.68%	0.11%	0.08%	7.92%	0.16%	0.02%	30.22%	48.48%	4.79%	0.11%	0.03%	0.17%
55:R	0.01%	0.02%	0.00%	0.03%	0.00%	3.08%	0.00%	0.01%	0.57%	0.01%	0.16%	0.02%	0.01%	0.01%	93.73%	0.64%	0.27%	0.01%	1.41%	0.00%
56:A	95.33%	0.00%	0.60%	0.02%	0.00%	0.28%	0.00%	0.03%	0.00%	0.01%	0.00%	0.02%	0.67%	0.00%	0.00%	0.50%	1.38%	1.14%	0.00%	0.00%
57:T	3.02%	0.06%	0.07%	0.00%	0.08%	0.16%	0.03%	3.29%	0.07%	0.08%	0.04%	1.42%	2.58%	0.00%	0.15%	6.02%	82.70%	0.22%	0.00%	0.02%
58:G	4.27%	0.31%	9.11%	0.20%	0.01%	82.38%	0.02%	0.03%	0.01%	0.01%	0.00%	0.08%	0.02%	0.00%	0.51%	0.66%	0.05%	2.28%	0.00%	0.04%
59:I	0.15%	0.05%	0.04%	0.00%	2.85%	0.05%	0.02%	82.65%	0.10%	2.54%	2.26%	0.71%	0.07%	0.00%	0.21%	1.21%	3.03%	4.02%	0.00%	0.01%
60:P	1.28%	0.00%	0.00%	0.05%	0.00%	0.01%	0.02%	0.03%	0.01%	1.00%	0.00%	0.00%	92.09%	0.42%	0.60%	2.76%	1.66%	0.05%	0.00%	0.00%
61:D	2.41%	0.02%	89.70%	1.00%	0.01%	4.82%	0.21%	0.03%	0.03%	0.02%	0.00%	0.44%	0.01%	0.01%	0.01%	0.04%	0.02%	1.01%	0.00%	0.21%
62:R	0.06%	0.14%	0.02%	0.13%	0.00%	2.48%	0.01%	0.27%	3.60%	0.06%	1.04%	0.61%	0.05%	0.06%	82.14%	6.85%	1.84%	0.06%	0.55%	0.01%
63:F	0.06%	1.53%	0.03%	0.00%	79.11%	0.03%	0.03%	2.14%	0.00%	11.33%	0.04%	0.03%	0.11%	0.00%	0.06%	1.93%	0.03%	3.14%	0.07%	0.33%
64:S	0.14%	2.19%	0.18%	0.01%	0.06%	3.43%														