

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:E	4.71%	0.01%	8.47%	65.38%	0.02%	4.82%	0.61%	0.26%	3.88%	0.43%	0.03%	0.85%	0.29%	4.08%	0.58%	0.19%	0.29%	4.76%	0.01%	0.30%
2:I	0.63%	0.32%	0.37%	0.06%	6.24%	0.43%	0.53%	48.63%	0.22%	10.87%	1.78%	2.59%	1.18%	0.03%	0.53%	4.72%	8.10%	12.62%	0.01%	0.14%
3:V	2.72%	0.01%	0.24%	1.94%	0.61%	1.82%	0.01%	1.49%	0.11%	10.24%	3.71%	0.01%	0.27%	0.10%	0.15%	0.16%	0.35%	76.04%	0.04%	0.00%
4:L	0.20%	0.06%	0.00%	0.05%	1.39%	0.13%	0.00%	0.07%	0.04%	79.03%	1.67%	0.00%	0.33%	0.03%	0.29%	9.31%	0.14%	1.97%	5.27%	0.01%
5:T	5.40%	0.00%	0.01%	0.20%	0.01%	0.07%	0.01%	0.69%	2.72%	0.08%	1.19%	0.26%	3.01%	0.06%	1.47%	1.47%	83.21%	0.12%	0.02%	0.00%
6:Q	0.17%	0.02%	0.12%	2.02%	0.02%	0.13%	6.14%	0.02%	6.21%	7.05%	0.35%	0.31%	4.62%	65.41%	6.11%	0.27%	0.34%	0.35%	0.24%	0.10%
7:S	1.60%	1.97%	0.02%	0.00%	1.67%	0.04%	0.03%	0.05%	0.00%	0.18%	0.00%	0.02%	3.64%	0.00%	0.06%	88.90%	1.28%	0.05%	0.05%	0.43%
8:P	1.52%	0.00%	0.00%	0.04%	0.01%	0.01%	0.19%	0.03%	0.01%	3.48%	0.00%	0.00%	91.27%	0.64%	0.70%	1.56%	0.47%	0.06%	0.00%	0.00%
9:G	1.71%	0.24%	3.46%	0.94%	0.02%	89.24%	0.06%	0.06%	0.02%	0.06%	0.00%	0.08%	0.04%	0.01%	1.63%	0.55%	0.07%	1.75%	0.01%	0.04%
10:T	5.89%	0.10%	0.29%	0.01%	0.15%	0.28%	0.08%	2.84%	0.17%	0.12%	0.17%	1.86%	2.48%	0.00%	0.15%	6.40%	78.33%	0.60%	0.00%	0.07%
11:L	0.05%	0.00%	0.00%	0.05%	0.06%	0.02%	0.14%	0.03%	0.03%	87.24%	0.70%	0.00%	4.99%	2.97%	2.20%	0.07%	0.06%	1.37%	0.02%	0.00%
12:S	2.07%	1.62%	0.03%	0.00%	0.90%	0.03%	0.05%	0.03%	0.00%	0.11%	0.00%	0.04%	4.41%	0.00%	0.04%	88.65%	1.41%	0.04%	0.03%	0.54%
13:L	0.08%	0.08%	0.00%	0.03%	3.42%	0.06%	0.00%	0.05%	0.01%	88.51%	0.77%	0.00%	0.24%	0.07%	0.15%	2.46%	0.03%	2.48%	1.53%	0.02%
14:S	2.05%	1.88%	0.02%	0.00%	1.63%	0.04%	0.04%	0.04%	0.00%	0.16%	0.00%	0.02%	4.39%	0.00%	0.05%	87.79%	1.39%	0.05%	0.05%	0.39%
15:P	1.51%	0.00%	0.00%	0.04%	0.01%	0.01%	0.20%	0.04%	0.01%	3.47%	0.00%	0.00%	91.28%	0.64%	0.68%	1.56%	0.48%	0.06%	0.00%	0.00%
16:G	0.47%	0.05%	0.31%	1.61%	0.00%	94.78%	0.00%	0.01%	0.04%	0.02%	0.01%	0.01%	0.02%	0.03%	1.78%	0.16%	0.03%	0.46%	0.21%	0.00%
17:E	2.26%	0.00%	6.43%	72.04%	0.00%	6.41%	0.24%	0.31%	5.26%	0.21%	0.03%	0.53%	0.13%	1.72%	1.23%	1.47%	0.75%	0.92%	0.00%	0.04%
18:R	0.10%	0.09%	0.02%	0.24%	0.01%	9.64%	0.02%	0.67%	1.88%	0.10%	0.05%	0.21%	0.10%	0.15%	82.75%	2.22%	1.66%	0.06%	0.03%	0.01%
19:A	62.98%	0.05%	5.53%	0.46%	0.14%	6.53%	0.08%	0.79%	0.03%	0.26%	0.02%	0.29%	2.84%	0.01%	0.18%	1.90%	4.70%	13.16%	0.00%	0.04%
20:T	5.93%	0.07%	0.18%	0.01%	0.09%	0.19%	0.04%	1.39%	0.13%	0.08%	0.10%	1.26%	4.48%	0.00%	0.11%	4.95%	80.52%	0.44%	0.00%	0.05%
21:L	0.09%	0.06%	0.03%	0.00%	3.22%	0.04%	0.89%	0.75%	0.00%	84.99%	0.04%	0.01%	4.96%	0.07%	1.49%	0.09%	0.04%	3.21%	0.00%	0.02%
22:S	2.50%	1.61%	0.05%	0.00%	1.72%	0.06%	0.13%	0.05%	0.01%	0.48%	0.00%	0.06%	6.76%	0.00%	0.11%	84.16%	1.08%	0.10%	0.06%	1.07%
23:C	0.12%	74.81%	0.41%	0.00%	2.76%	1.72%	0.82%	0.03%	0.02%	0.34%	0.00%	0.40%	0.27%	0.02%	1.62%	6.43%	0.07%	0.05%	0.49%	9.61%
24:R	0.03%	0.03%	0.00%	0.08%	0.00%	4.81%	0.00%	0.02%	0.77%	0.02%	0.22%	0.03%	0.02%	0.02%	90.45%	0.91%	0.44%	0.02%	2.13%	0.00%
25:X	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
26:X	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
27:X	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
28:X	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
29:S	0.19%	2.52%	0.15%	0.01%	0.05%	4.02%	0.14%	1.76%	0.14%	0.07%	0.03%	4.07%	0.18%	0.01%	7.34%	73.53%	5.57%	0.09%	0.06%	0.06%
30:Q	0.02%	0.00%	0.03%	0.66%	0.00%	0.07%	3.65%	0.00%	0.65%	2.92%	0.03%	0.03%	3.36%	83.61%	4.74%	0.03%	0.03%	0.04%	0.08%	0.03%
31:S	0.19%	1.19%	0.25%	0.03%	0.09%	3.34%	0.14%	6.59%	0.37%	0.12%	0.13%	6.21%	0.12%	0.01%	6.53%	66.94%	7.48%	0.19%	0.04%	0.06%
32:V	7.19%	0.11%	2.78%	0.42%	4.49%	2.81%	0.23%	6.49%	0.03%	9.80%	0.41%	0.22%	0.97%	0.03%	0.35%	0.56%	0.73%	62.28%	0.01%	0.09%
33:S	0.81%	3.02%	1.77%	0.11%	0.59%	8.85%	0.55%	5.77%	1.09%	0.57%	0.21%	9.00%	0.22%	0.04%	32.96%	28.01%	4.78%	0.71%	0.22%	0.73%
34:S	0.38%	1.48%	0.76%	0.09%	0.16%	4.48%	0.56%	3.31%	1.40%	0.18%	0.16%	9.22%	0.23%	0.05%	35.80%	34.94%	6.07%	0.31%	0.09%	0.33%
35:S	0.54%	2.02%	1.09%	0.10%	0.18%	3.81%	0.66%	3.23%	1.50%	0.18%	0.29%	11.91%	0.26%	0.05%	17.41%	48.99%	6.94%	0.29%	0.16%	0.40%
36:Y	0.13%	10.27%	3.09%	0.07%	6.39%	0.24%	8.54%	0.15%	0.34%	1.32%	0.01%	4.30%	0.42%	0.18%	0.60%	6.35%	0.22%	0.09%	0.40%	56.89%
37:L	0.15%	0.14%	0.00%	0.05%	8.33%	0.04%	0.02%	1.18%	0.02%	76.75%	0.17%	0.00%	1.18%	0.29%	0.37%	9.67%	0.15%	1.23%	0.21%	0.04%
38:A	73.79%	0.16%	3.85%	0.18%	0.20%	3.27%	0.06%	0.37%	0.02%	0.17%	0.03%	0.20%	2.54%	0.01%	0.06%	2.36%	4.41%	8.23%	0.00%	0.10%
39:W	0.19%	13.75%	0.16%	0.31%	0.56%	9.98%	0.11%	0.01%	0.04%	0.85%	0.01%	0.05%	0.11%	0.08%	4.11%	1.91%	0.04%	0.12%	66.12%	1.49%
40:Y	0.23%	9.89%	7.71%	0.31%	4.71%	0.49%	8.47%	0.70%	1.34%	0.98%	0.02%	11.87%	0.28%	0.21%	0.75%	5.24%	0.39%	0.22%	0.16%	46.01%
41:Q	0.09%	0.02%	0.13%	2.20%	0.02%	0.11%	8.41%	0.02%	1.63%	2.59%	0.06%	0.18%	3.39%	76.18%	4.49%	0.09%	0.11%	0.10%	0.04%	0.14%
42:Q	0.25%	0.02%	0.30%	6.22%	0.01%	0.39%	1.42%	0.09%	26.68%	1.80%	1.22%	0.76%	1.18%	51.78%	5.85%	0.25%	1.00%	0.55%	0.48%	0.06%
43:K	0.32%	0.01%	0.32%	3.02%	0.01%	0.49%	0.15%	2.34%	63.96%	0.10%	0.40%	7.33%	0.20%	1.63%	11.26%	0.94%	7.40%	0.08%	0.01%	0.03%
44:P	4.60%	0.98%	0.26%	0.04%	0.83%	0.61%	1.91%	0.65%	0.02%	5.38%	0.03%	0.24%	64.78%	0.22%	4.12%	9.02%	5.10%	0.97%	0.02%	0.22%
45:G	0.96%	0.57%	2.08%	0.07%	0.01%	93.68%	0.02%	0.02%	0.00%	0.01%	0.00%	0.05%	0.01%	0.00%	0.68%	1.27%	0.03%	0.51%	0.01%	0.01%
46:Q	0.04%	0.00%	0.01%	1.26%	0.00%	0.05%	0.99%	0.00%	0.82%	1.47%	0.03%	0.01%	4.13%	87.76%	3.28%	0.03%	0.09%	0.02%	0.01%	0.00%
47:A	54.89%	0.09%	0.45%	0.08%	0.10%	1.26%	0.03%	0.58%	0.01%	0.14%	0.01%	0.16%	10.65%	0.00%	0.09%	5.70%	24.13%	1.61%	0.00%	0.02%
48:P	2.34%	0.12%	0.05%	0.00%	0.16%	0.05%	2.27%	0.09%	0.00%	3.91%	0.00%	0.05%	85.33%	0.10%	1.89%	2.23%	1.15%	0.14%	0.00%	0.08%
49:R	0.03%	0.36%	0.02%	0.05%	0.00%	3.27%	0.01%	0.18%	0.75%	0.03%	0.21%	0.30%	0.03%	0.05%	78.97%	14.01%	0.62%	0.03%	1.07%	0.00%
50:L	0.07%	0.06%	0.01%	0.00%	2.07%	0.03%	0.63%	0.59%	0.00%	88.50%	0.04%	0.07%	4.50%	0.07%	1.35%	0.09%	0.04%	1.86%	0.00%	0.01%
51:L	0.17%	0.10%	0.05%	0.00%	3.99%	0.07%	0.82%	1.24%	0.00%	83.26%	0.04%	0.02%	4.46%	0.06%	1.33%	0.16%	0.05%	4.14%	0.00%	0.05%
52:I	0.44%	0.10%	0.13%	0.03%	3.94%	0.19%	0.08%	62.49%	0.40%	7.30%	6.18%	1.51%	0.31%	0.01%	0.51%	1.62%	4.84%	9.88%	0.01%	0.04%
53:Y	0.15%	9.56%	2.42%	0.12%	10.20%	0.19%	7.07%	0.18%	0.24%	1.23%	0.01%	3.46%	0.45%	0.54%	0.60%	11.05%	0.35%	0.12%	0.16%	51.89%
54:G	4.54%	1.80%	6.89%	0.61%	0.12%	75.36%	0.43%	0.23%	0.04%	0.14%	0.00%	0.54%	0.29%	0.02%	2.03%	4.51%	0.59%	1.59%	0.03%	0.22%
55:A	80.83%	0.01%	0.51%	4.85%	0.02%	1.29%	0.01%	0.32%	0.19%	0.27%	0.03%	0.03%	1.92%	0.05%	0.14%	2.57%	5.40%	1.55%	0.00%	0.01%
56:S	1.73%	2.29%	0.12%	0.01%	2.62%	0.14%	0.16%	0.11%	0.00%	0.46%	0.01%	0.09%	4.39%	0.00%	0.17%	84.88%	1.03%	0.19%	0.04%	1.58%
57:S	0.40%	1.86%	0.46%	0.04%	0.15%	3.49%	0.56%	2.96%	1.33%	0.23%	0.15%	9.17%	0.34%	0.06%	37.44%	34.36%	6.37%	0.24%	0.07%	0.31%
58:R	0.03%	0.03%	0.00%	0.08%	0.00%	4.59%	0.00%	0.03%	0.83%	0.03%	0.25%	0.04%	0.02%	0.03%	90.66%	0.89%	0.44%	0.03%	2.02%	0.00%
59:A	92.60%	0.01%	0.90%	0.05%	0.01%	0.44%	0.01%	0.08%	0.00%	0.02%	0.00%	0.04%	1.03%	0.00%	0.01%	0.87%	2.11%	1.81%	0.00%	0.00%
60:T	3.98%	0.13%	0.15%	0.01%	0.17%	0.34%	0.07%	4.20%	0.15%	0.20%	0.07%	1.96%	3.83%	0.01%	0.34%	8.74%	75.18%	0.44%	0.00%	0.04%
61:G	6.07%	0.42%	12.68%	0.45%	0.03%	74.65%	0.05%	0.07%	0.01%	0.03%	0.00%	0.15%	0.04%	0.01%	0.82%	0.82%	0.11%	3.49%	0.01%	0.08%
62:I	0.34%	0.10%	0.10%	0.01%	3.80%	0.13%	0.04%	74.50%	0.21%	4.02%	3.09%	0.98%	0.19%	0.00%	0.49%	1.74%	4.38%	5.83%	0.01%	0.03%
63:P	1.97%	0.00%	0.00%	0.11%	0.01%	0.03%	0.04%	0.08%	0.03%	1.47%	0.00%	0.00%	88.03%	0.61%	0.94%	4.16%	2.39%	0.11%	0.00%	0.00%
64:D	3.39%	0.04%	84.74%	1.50%	0.03%	7.0														