

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:E	2.27%	0.00%	4.53%	83.66%	0.00%	2.29%	0.13%	0.05%	2.08%	0.08%	0.00%	0.21%	0.06%	2.11%	0.11%	0.03%	0.05%	2.28%	0.00%	0.06%
2:I	0.14%	0.06%	0.09%	0.01%	3.47%	0.08%	0.13%	72.28%	0.05%	6.35%	1.07%	1.69%	0.28%	0.00%	0.10%	2.14%	4.69%	7.33%	0.00%	0.04%
3:V	1.18%	0.00%	0.04%	0.87%	0.11%	0.74%	0.00%	0.39%	0.02%	4.66%	2.19%	0.00%	0.04%	0.02%	0.02%	0.02%	0.06%	89.62%	0.01%	0.00%
4:L	0.04%	0.01%	0.00%	0.01%	0.64%	0.03%	0.00%	0.01%	0.01%	90.19%	0.78%	0.00%	0.06%	0.01%	0.05%	4.61%	0.03%	0.86%	2.68%	0.00%
5:T	2.38%	0.00%	0.00%	0.03%	0.00%	0.01%	0.00%	0.16%	1.29%	0.01%	0.73%	0.06%	1.30%	0.01%	0.62%	0.54%	92.84%	0.02%	0.00%	0.00%
6:Q	0.03%	0.00%	0.02%	0.77%	0.00%	0.02%	3.19%	0.00%	3.48%	3.72%	0.08%	0.07%	2.29%	83.14%	2.93%	0.05%	0.06%	0.08%	0.05%	0.02%
7:S	0.71%	0.81%	0.00%	0.00%	0.74%	0.01%	0.00%	0.01%	0.00%	0.03%	0.00%	0.00%	1.55%	0.00%	0.01%	95.46%	0.46%	0.01%	0.01%	0.20%
8:P	0.64%	0.00%	0.00%	0.01%	0.00%	0.00%	0.04%	0.00%	0.00%	1.54%	0.00%	0.00%	96.41%	0.30%	0.25%	0.62%	0.17%	0.01%	0.00%	0.00%
9:G	0.66%	0.12%	1.39%	0.18%	0.00%	96.30%	0.01%	0.01%	0.00%	0.01%	0.00%	0.02%	0.01%	0.00%	0.41%	0.31%	0.01%	0.54%	0.00%	0.01%
10:T	2.72%	0.01%	0.04%	0.00%	0.02%	0.04%	0.01%	0.94%	0.03%	0.01%	0.03%	0.75%	0.96%	0.00%	0.02%	2.54%	91.77%	0.09%	0.00%	0.01%
11:L	0.01%	0.00%	0.00%	0.01%	0.01%	0.00%	0.03%	0.01%	0.01%	94.66%	0.28%	0.00%	2.13%	1.36%	0.91%	0.01%	0.01%	0.56%	0.00%	0.00%
12:S	0.93%	0.75%	0.01%	0.00%	0.34%	0.01%	0.01%	0.00%	0.00%	0.02%	0.00%	0.00%	1.93%	0.00%	0.01%	95.17%	0.55%	0.01%	0.00%	0.26%
13:L	0.01%	0.01%	0.00%	0.00%	1.50%	0.01%	0.00%	0.01%	0.00%	95.16%	0.35%	0.00%	0.04%	0.01%	0.02%	1.11%	0.01%	1.07%	0.67%	0.00%
14:S	0.94%	0.81%	0.00%	0.00%	0.73%	0.01%	0.01%	0.01%	0.00%	0.03%	0.00%	0.00%	1.93%	0.00%	0.01%	94.78%	0.55%	0.01%	0.01%	0.18%
15:P	0.66%	0.00%	0.00%	0.01%	0.00%	0.00%	0.04%	0.01%	0.00%	1.53%	0.00%	0.00%	96.41%	0.30%	0.25%	0.63%	0.16%	0.01%	0.00%	0.00%
16:G	0.16%	0.01%	0.05%	0.65%	0.00%	98.20%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.01%	0.62%	0.03%	0.00%	0.17%	0.09%	0.00%
17:E	1.43%	0.00%	3.17%	86.98%	0.00%	3.33%	0.04%	0.07%	2.77%	0.05%	0.00%	0.12%	0.02%	0.73%	0.25%	0.36%	0.17%	0.49%	0.00%	0.01%
18:R	0.02%	0.02%	0.00%	0.04%	0.00%	4.36%	0.00%	0.32%	0.93%	0.02%	0.01%	0.05%	0.02%	0.03%	92.39%	1.03%	0.74%	0.01%	0.01%	0.00%
19:A	82.54%	0.01%	2.64%	0.10%	0.02%	3.04%	0.01%	0.18%	0.00%	0.04%	0.00%	0.06%	1.36%	0.00%	0.02%	0.80%	2.68%	6.48%	0.00%	0.01%
20:T	2.76%	0.01%	0.03%	0.00%	0.02%	0.03%	0.01%	0.60%	0.03%	0.01%	0.02%	0.59%	1.94%	0.00%	0.02%	2.17%	91.68%	0.08%	0.00%	0.01%
21:L	0.02%	0.01%	0.00%	0.00%	1.51%	0.01%	0.36%	0.36%	0.00%	93.45%	0.01%	0.00%	2.09%	0.01%	0.71%	0.01%	0.01%	1.43%	0.00%	0.00%
22:S	1.13%	0.77%	0.01%	0.00%	0.80%	0.01%	0.03%	0.01%	0.00%	0.10%	0.00%	0.01%	3.06%	0.00%	0.02%	93.06%	0.47%	0.02%	0.01%	0.50%
23:C	0.02%	88.92%	0.07%	0.00%	1.19%	0.80%	0.16%	0.00%	0.00%	0.06%	0.00%	0.08%	0.04%	0.00%	0.70%	2.81%	0.01%	0.01%	0.18%	4.94%
24:R	0.00%	0.01%	0.00%	0.01%	0.00%	2.04%	0.00%	0.00%	0.35%	0.00%	0.09%	0.01%	0.00%	0.00%	95.98%	0.41%	0.15%	0.00%	0.94%	0.00%
25:A	97.14%	0.00%	0.37%	0.01%	0.00%	0.18%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.41%	0.00%	0.00%	0.26%	0.90%	0.70%	0.00%	0.00%
26:S	0.04%	1.13%	0.03%	0.00%	0.01%	1.80%	0.03%	0.84%	0.03%	0.01%	0.01%	2.08%	0.03%	0.00%	3.24%	88.11%	2.59%	0.02%	0.01%	0.01%
27:Q	0.00%	0.00%	0.01%	0.23%	0.00%	0.01%	1.69%	0.00%	0.29%	1.27%	0.00%	0.01%	1.44%	92.97%	2.05%	0.00%	0.00%	0.00%	0.02%	0.00%
28:S	0.03%	0.44%	0.05%	0.00%	0.01%	1.52%	0.03%	3.32%	0.07%	0.02%	0.02%	3.23%	0.02%	0.00%	3.20%	84.72%	3.27%	0.03%	0.01%	0.01%
29:V	3.88%	0.02%	1.52%	0.09%	2.37%	1.54%	0.05%	3.81%	0.00%	4.84%	0.11%	0.04%	0.20%	0.00%	0.07%	0.11%	0.16%	81.16%	0.00%	0.02%
30:S	0.17%	2.15%	0.43%	0.01%	0.14%	5.26%	0.12%	3.77%	0.25%	0.10%	0.04%	6.53%	0.04%	0.00%	21.18%	56.66%	2.74%	0.14%	0.05%	0.20%
31:S	0.07%	0.72%	0.16%	0.01%	0.03%	1.59%	0.12%	1.65%	0.32%	0.03%	0.03%	6.18%	0.04%	0.00%	21.42%	64.21%	3.29%	0.05%	0.02%	0.07%
32:S	0.09%	0.83%	0.22%	0.01%	0.03%	1.46%	0.13%	1.74%	0.37%	0.03%	0.08%	7.53%	0.04%	0.00%	10.05%	73.51%	3.70%	0.05%	0.04%	0.09%
33:Y	0.02%	5.77%	1.22%	0.01%	3.30%	0.04%	4.22%	0.03%	0.07%	0.28%	0.00%	2.14%	0.07%	0.03%	0.11%	2.77%	0.03%	0.01%	0.08%	79.80%
34:L	0.03%	0.03%	0.00%	0.01%	4.52%	0.01%	0.00%	0.56%	0.01%	89.29%	0.03%	0.00%	0.24%	0.06%	0.07%	4.56%	0.02%	0.51%	0.04%	0.01%
35:A	88.09%	0.03%	1.60%	0.04%	0.04%	1.55%	0.01%	0.08%	0.00%	0.02%	0.00%	0.04%	1.27%	0.00%	0.01%	1.12%	2.39%	3.67%	0.00%	0.02%
36:W	0.03%	8.57%	0.02%	0.07%	0.13%	5.02%	0.01%	0.00%	0.01%	0.38%	0.00%	0.01%	0.02%	0.02%	1.85%	0.67%	0.00%	0.02%	82.81%	0.39%
37:Y	0.04%	4.99%	4.39%	0.06%	2.59%	0.09%	5.01%	0.15%	0.34%	0.20%	0.00%	7.26%	0.05%	0.04%	0.13%	2.27%	0.07%	0.04%	0.03%	72.22%
38:Q	0.02%	0.00%	0.03%	1.05%	0.00%	0.02%	4.63%	0.00%	0.75%	1.29%	0.01%	0.04%	1.54%	88.45%	2.08%	0.01%	0.02%	0.02%	0.01%	0.03%
39:Q	0.04%	0.00%	0.06%	3.24%	0.00%	0.07%	0.82%	0.01%	17.05%	0.97%	0.30%	0.18%	0.63%	73.69%	2.50%	0.04%	0.21%	0.05%	0.11%	0.02%
40:K	0.06%	0.00%	0.06%	1.36%	0.00%	0.08%	0.03%	1.15%	83.06%	0.02%	0.09%	3.92%	0.04%	0.84%	5.49%	0.18%	3.60%	0.01%	0.00%	0.01%
41:P	2.86%	0.23%	0.06%	0.00%	0.19%	0.15%	1.06%	0.15%	0.00%	3.01%	0.00%	0.05%	82.14%	0.05%	2.34%	4.63%	2.83%	0.22%	0.00%	0.05%
42:G	0.39%	0.24%	0.86%	0.01%	0.00%	97.44%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.24%	0.59%	0.01%	0.18%	0.00%	0.00%
43:Q	0.01%	0.00%	0.00%	0.56%	0.00%	0.01%	0.35%	0.00%	0.40%	0.62%	0.01%	0.00%	1.85%	94.80%	1.37%	0.00%	0.02%	0.00%	0.00%	0.00%
44:A	77.29%	0.01%	0.21%	0.02%	0.02%	0.61%	0.01%	0.13%	0.00%	0.03%	0.00%	0.03%	5.60%	0.00%	0.02%	2.60%	12.51%	0.90%	0.00%	0.00%
45:P	1.00%	0.02%	0.01%	0.00%	0.03%	0.01%	1.04%	0.02%	0.00%	1.74%	0.00%	0.01%	93.72%	0.02%	0.79%	1.01%	0.56%	0.03%	0.00%	0.01%
46:R	0.00%	0.07%	0.00%	0.01%	0.00%	1.42%	0.00%	0.04%	0.36%	0.01%	0.12%	0.06%	0.01%	0.01%	89.42%	7.72%	0.20%	0.00%	0.56%	0.00%
47:L	0.01%	0.01%	0.00%	0.00%	0.99%	0.00%	0.25%	0.24%	0.00%	95.21%	0.01%	0.02%	1.91%	0.01%	0.58%	0.02%	0.01%	0.74%	0.00%	0.00%
48:L	0.03%	0.02%	0.01%	0.00%	1.93%	0.01%	0.34%	0.56%	0.00%	92.66%	0.01%	0.00%	1.94%	0.01%	0.64%	0.03%	0.01%	1.81%	0.00%	0.01%
49:I	0.08%	0.02%	0.02%	0.00%	2.10%	0.04%	0.02%	81.68%	0.09%	3.27%	3.98%	0.77%	0.06%	0.00%	0.12%	0.79%	2.22%	4.75%	0.00%	0.01%
50:Y	0.03%	5.02%	1.17%	0.02%	5.50%	0.03%	3.66%	0.03%	0.05%	0.24%	0.00%	1.94%	0.07%	0.11%	0.11%	5.30%	0.07%	0.02%	0.03%	76.60%
51:A	2.29%	0.89%	3.52%	0.11%	0.02%	88.69%	0.09%	0.04%	0.00%	0.02%	0.00%	0.12%	0.05%	0.00%	0.90%	2.34%	0.13%	0.71%	0.01%	0.05%
52:A	92.88%	0.00%	0.10%	2.16%	0.00%	0.45%	0.00%	0.07%	0.04%	0.05%	0.00%	0.00%	0.60%	0.01%	0.02%	0.85%	2.26%	0.52%	0.00%	0.00%
53:S	0.78%	1.02%	0.02%	0.00%	1.13%	0.02%	0.02%	0.02%	0.00%	0.08%	0.00%	0.02%	1.96%	0.00%	0.03%	93.68%	0.50%	0.03%	0.01%	0.68%
54:S	0.08%	1.11%	0.09%	0.00%	0.02%	1.88%	0.14%	1.55%	0.30%	0.04%	0.03%	6.06%	0.06%	0.01%	22.13%	63.00%	3.35%	0.05%	0.01%	0.08%
55:R	0.01%	0.01%	0.00%	0.01%	0.00%	2.01%	0.00%	0.00%	0.36%	0.00%	0.10%	0.01%	0.00%	0.01%	96.02%	0.40%	0.15%	0.01%	0.91%	0.00%
56:A	97.17%	0.00%	0.38%	0.01%	0.00%	0.18%	0.00%	0.01%	0.00%	0.00%	0.00%	0.01%	0.40%	0.00%	0.00%	0.28%	0.87%	0.69%	0.00%	0.00%
57:T	2.09%	0.02%	0.03%	0.00%	0.03%	0.06%	0.01%	2.31%	0.03%	0.03%	0.02%	0.97%	1.66%	0.00%	0.06%	3.92%	88.65%	0.09%	0.00%	0.01%
58:G	2.83%	0.21%	6.06%	0.08%	0.00%	88.56%	0.01%	0.02%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.30%	0.47%	0.02%	1.39%	0.00%	0.02%
59:I	0.06%	0.02%	0.02%	0.00%	1.92%	0.02%	0.01%	88.85%	0.05%	1.52%	1.53%	0.49%	0.02%	0.00%	0.09%	0.79%	1.99%	2.63%	0.00%	0.01%
60:P	0.83%	0.00%	0.00%	0.02%	0.00%	0.00%	0.01%	0.01%	0.00%	0.64%	0.00%	0.00%	94.99%	0.27%	0.37%	1.76%	1.07%	0.03%	0.00%	0.00%
61:D	1.59%	0.01%	93.39%	0.63%	0.01%	3.10%	0.12%	0.01%	0.01%	0.01%	0.00%	0.30%	0.00%	0.00%	0.01%	0.00%	0.02%	0.01%	0.65%	0.00%
62:R	0.02%	0.06%	0.01%	0.05%	0.00%	1.59%	0.00%	0.11%	2.50%	0.02%	0.75%	0.26%	0.02%	0.02%	88.13%	4.96%	1.12%	0.02%	0.37%	0.00%
63:F	0.02%	1.00%	0.01%	0.00%	86.47%	0.01%	0.01%	1.47%	0.00%	7.36%	0.02%	0.01%	0.04%	0.00%	0.02%	1.19%	0.02%	2.08%	0.03%	0.22%
64:S	0.06%	1.48%	0.07%	0.00%	0.02%	2.29%	0.06%</													