

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:E	6.25%	0.05%	10.29%	53.10%	0.07%	6.48%	1.11%	0.52%	4.81%	0.90%	0.10%	1.46%	0.61%	5.12%	1.19%	0.42%	0.62%	6.28%	0.03%	0.59%
2:I	1.13%	0.62%	0.66%	0.15%	7.53%	0.90%	0.85%	36.32%	0.38%	12.72%	2.03%	2.82%	2.07%	0.06%	1.03%	6.42%	9.55%	14.50%	0.02%	0.25%
3:V	3.76%	0.03%	0.51%	2.70%	1.26%	2.62%	0.03%	2.38%	0.24%	13.94%	4.17%	0.04%	0.60%	0.20%	0.33%	0.41%	0.72%	65.96%	0.08%	0.01%
4:L	0.41%	0.13%	0.00%	0.11%	1.82%	0.29%	0.00%	0.16%	0.10%	71.37%	2.24%	0.00%	0.68%	0.09%	0.59%	12.07%	0.32%	2.81%	6.78%	0.02%
5:T	7.39%	0.01%	0.04%	0.47%	0.02%	0.17%	0.02%	1.25%	3.57%	0.18%	1.35%	0.48%	4.37%	0.13%	2.14%	2.41%	75.67%	0.26%	0.04%	0.01%
6:Q	0.34%	0.05%	0.28%	2.99%	0.04%	0.30%	7.66%	0.06%	7.24%	8.84%	0.62%	0.55%	6.14%	54.22%	8.16%	0.56%	0.71%	0.65%	0.44%	0.17%
7:S	2.29%	2.89%	0.04%	0.01%	2.39%	0.10%	0.06%	0.11%	0.00%	0.38%	0.00%	0.05%	5.36%	0.00%	0.14%	83.27%	2.08%	0.12%	0.12%	0.58%
8:P	2.11%	0.01%	0.01%	0.10%	0.03%	0.04%	0.40%	0.07%	0.02%	4.93%	0.01%	0.00%	86.95%	0.89%	1.11%	2.36%	0.81%	0.13%	0.01%	0.01%
9:G	2.58%	0.29%	5.08%	1.90%	0.04%	82.59%	0.13%	0.14%	0.07%	0.15%	0.01%	0.15%	0.11%	0.04%	2.97%	0.70%	0.16%	2.79%	0.01%	0.08%
10:T	7.84%	2.12%	0.65%	0.04%	0.36%	0.67%	0.19%	4.40%	0.36%	0.34%	0.34%	2.60%	3.88%	0.01%	0.42%	9.40%	66.75%	1.37%	0.01%	0.14%
11:L	0.11%	0.00%	0.01%	0.11%	0.13%	0.05%	0.30%	0.07%	0.08%	81.32%	1.00%	0.00%	7.16%	4.02%	3.24%	0.17%	0.15%	2.04%	0.04%	0.00%
12:S	2.94%	2.25%	0.07%	0.01%	1.41%	0.08%	0.11%	0.07%	0.00%	0.25%	0.00%	0.08%	6.29%	0.00%	0.09%	83.24%	2.22%	0.08%	0.07%	0.74%
13:L	0.17%	0.15%	0.01%	0.08%	4.72%	0.14%	0.01%	0.10%	0.03%	83.23%	1.04%	0.00%	0.56%	0.15%	0.33%	3.50%	0.08%	3.51%	2.16%	0.04%
14:S	2.89%	2.76%	0.04%	0.01%	2.28%	0.09%	0.07%	0.10%	0.00%	0.37%	0.00%	0.06%	6.29%	0.00%	0.13%	81.99%	2.17%	0.12%	0.12%	0.52%
15:P	2.11%	0.01%	0.01%	0.10%	0.03%	0.04%	0.40%	0.08%	0.02%	4.91%	0.01%	0.01%	86.92%	0.90%	1.11%	2.40%	0.80%	0.13%	0.01%	0.01%
16:G	0.78%	0.10%	0.61%	2.49%	0.00%	91.22%	0.02%	0.03%	0.08%	0.07%	0.03%	0.02%	0.05%	0.07%	2.94%	0.33%	0.07%	0.78%	0.30%	0.01%
17:E	2.67%	0.01%	8.46%	61.68%	0.01%	7.98%	0.49%	0.56%	6.45%	0.40%	0.08%	0.95%	0.32%	2.43%	2.38%	2.41%	1.37%	1.27%	0.00%	0.07%
18:R	0.22%	0.17%	0.07%	0.52%	0.02%	13.45%	0.06%	0.94%	2.44%	0.21%	0.09%	0.39%	0.21%	0.29%	75.29%	3.05%	2.33%	0.12%	0.10%	0.02%
19:A	50.18%	0.11%	7.18%	0.85%	0.30%	8.84%	0.19%	1.45%	0.08%	0.59%	0.05%	0.53%	3.79%	0.02%	0.46%	7.72%	5.44%	17.13%	0.00%	0.08%
20:T	8.07%	0.15%	0.38%	0.02%	0.20%	0.41%	0.10%	2.03%	0.26%	0.20%	0.19%	1.69%	6.45%	0.01%	0.27%	7.08%	71.50%	0.89%	0.00%	0.09%
21:L	0.20%	0.12%	0.06%	0.01%	4.29%	0.09%	1.36%	1.04%	0.01%	78.41%	0.08%	0.03%	7.22%	0.14%	2.05%	0.20%	0.09%	4.54%	0.01%	0.04%
22:S	3.52%	2.12%	0.12%	0.00%	2.29%	0.12%	0.28%	0.09%	0.01%	0.99%	0.01%	0.12%	9.45%	0.01%	0.24%	77.31%	1.53%	0.22%	0.13%	1.43%
23:C	0.30%	64.24%	0.86%	0.01%	3.91%	2.42%	1.63%	0.07%	0.05%	0.76%	0.00%	0.76%	0.62%	0.08%	2.38%	9.06%	0.17%	0.13%	0.75%	11.80%
24:R	0.07%	0.07%	0.01%	0.16%	0.00%	6.92%	0.01%	0.05%	1.10%	0.06%	0.34%	0.07%	0.05%	0.05%	85.89%	1.33%	0.72%	0.05%	3.05%	0.00%
25:A	88.15%	0.01%	1.41%	0.06%	0.02%	0.67%	0.02%	0.20%	0.01%	0.05%	0.01%	0.10%	1.79%	0.00%	0.03%	1.38%	3.27%	2.80%	0.00%	0.01%
26:S	0.39%	3.50%	0.29%	0.02%	0.12%	5.61%	0.31%	2.37%	0.29%	0.17%	0.07%	5.04%	0.39%	0.02%	10.58%	62.95%	7.47%	0.18%	0.12%	0.13%
27:Q	0.06%	0.01%	0.08%	1.10%	0.01%	0.16%	4.95%	0.01%	0.93%	4.16%	0.05%	0.09%	4.91%	76.23%	6.79%	0.07%	0.07%	0.09%	0.18%	0.05%
28:S	0.40%	1.75%	0.52%	0.09%	0.20%	4.56%	0.28%	8.21%	0.75%	0.27%	0.26%	7.54%	0.28%	0.03%	8.59%	55.16%	10.49%	0.41%	0.08%	0.13%
29:V	8.66%	0.22%	3.36%	0.78%	5.51%	3.46%	0.47%	7.26%	0.08%	12.83%	0.68%	0.41%	1.86%	0.08%	0.68%	1.11%	1.35%	51.02%	0.03%	0.16%
30:S	1.46%	3.09%	2.91%	0.32%	1.01%	10.32%	0.97%	6.09%	1.90%	1.11%	0.37%	8.67%	0.48%	0.14%	35.58%	17.20%	5.57%	1.36%	0.40%	1.06%
31:S	0.79%	1.75%	1.39%	0.25%	0.33%	6.56%	0.99%	4.10%	2.43%	0.43%	0.29%	9.34%	0.50%	0.14%	39.93%	22.12%	7.26%	0.68%	0.18%	0.54%
32:S	1.06%	2.65%	2.06%	0.25%	0.37%	5.39%	1.23%	3.98%	2.46%	0.43%	0.48%	12.55%	0.58%	0.12%	20.18%	36.04%	8.57%	0.65%	0.29%	0.66%
33:Y	0.29%	12.04%	4.43%	0.16%	8.01%	0.53%	10.79%	0.32%	0.65%	2.54%	0.03%	5.34%	0.90%	0.37%	1.21%	8.78%	0.47%	0.25%	0.72%	42.17%
34:L	0.32%	0.30%	0.01%	0.12%	9.81%	0.10%	0.04%	1.58%	0.07%	68.10%	0.34%	0.01%	2.24%	0.51%	0.75%	13.09%	0.33%	1.79%	0.41%	0.08%
35:A	63.87%	0.27%	5.62%	0.32%	0.38%	4.42%	0.14%	0.68%	0.06%	0.40%	0.07%	0.35%	3.31%	0.02%	0.14%	3.10%	5.32%	11.36%	0.01%	0.20%
36:W	0.42%	14.82%	0.39%	0.59%	0.97%	12.94%	0.29%	0.03%	0.08%	1.27%	0.03%	0.14%	0.27%	0.16%	5.77%	3.03%	0.10%	0.25%	56.15%	2.31%
37:Y	0.47%	12.26%	8.99%	0.58%	5.61%	1.00%	9.74%	1.27%	2.22%	1.85%	0.06%	12.76%	0.62%	0.43%	1.63%	7.35%	0.81%	0.45%	0.32%	31.56%
38:Q	0.20%	0.05%	0.28%	2.92%	0.05%	0.25%	10.13%	0.07%	2.26%	3.51%	0.10%	0.34%	4.84%	67.68%	6.28%	0.21%	0.25%	0.22%	0.10%	0.26%
39:Q	0.52%	0.04%	0.55%	7.88%	0.03%	0.81%	1.75%	0.24%	28.03%	2.26%	2.04%	1.25%	1.59%	40.89%	8.26%	0.51%	1.93%	0.46%	0.83%	0.11%
40:K	0.67%	0.02%	0.66%	4.13%	0.02%	1.05%	0.31%	3.05%	51.16%	0.22%	0.75%	8.85%	0.40%	2.05%	14.80%	1.79%	9.78%	0.19%	0.02%	0.08%
41:P	5.14%	1.64%	0.49%	0.11%	1.47%	1.05%	2.32%	1.12%	0.08%	6.43%	0.07%	0.41%	54.68%	0.41%	4.89%	11.48%	6.11%	1.68%	0.06%	0.37%
42:G	1.43%	0.86%	3.13%	0.15%	0.02%	90.38%	0.05%	0.04%	0.01%	0.02%	0.00%	0.09%	0.03%	0.00%	1.07%	1.76%	0.07%	0.83%	0.02%	0.03%
43:Q	0.09%	0.00%	0.03%	1.77%	0.00%	0.11%	1.57%	0.00%	1.14%	2.12%	0.06%	0.02%	5.82%	82.19%	4.76%	0.07%	0.18%	0.05%	0.02%	0.01%
44:A	41.65%	0.19%	0.61%	0.16%	0.20%	1.66%	0.07%	1.13%	0.03%	0.26%	0.03%	0.34%	13.05%	0.00%	0.20%	8.02%	30.45%	1.90%	0.01%	0.04%
45:P	3.35%	0.25%	0.12%	0.01%	0.32%	0.13%	3.11%	0.17%	0.01%	5.52%	0.01%	0.10%	78.75%	0.22%	2.77%	3.15%	1.53%	0.32%	0.00%	0.16%
46:R	0.08%	0.71%	0.07%	0.11%	0.01%	4.78%	0.04%	0.35%	1.02%	0.07%	0.26%	0.57%	0.08%	0.11%	72.84%	16.46%	1.05%	0.06%	1.32%	0.02%
47:L	0.18%	0.11%	0.05%	0.01%	2.76%	0.08%	0.95%	0.87%	0.02%	82.79%	0.07%	0.13%	6.65%	0.14%	1.97%	0.21%	0.09%	2.88%	0.01%	0.03%
48:L	0.38%	0.21%	0.10%	0.02%	5.20%	0.15%	1.19%	1.72%	0.01%	76.02%	0.08%	0.05%	6.42%	0.13%	1.77%	0.40%	0.12%	5.93%	0.01%	0.10%
49:I	0.90%	0.20%	0.26%	0.07%	4.82%	0.42%	0.18%	50.27%	0.69%	10.18%	6.58%	1.88%	0.74%	0.04%	0.99%	2.23%	6.67%	12.79%	0.02%	0.08%
50:Y	0.32%	11.75%	3.15%	0.25%	12.29%	0.40%	8.60%	0.34%	0.44%	2.44%	0.02%	4.04%	0.99%	1.04%	1.21%	14.56%	0.68%	0.29%	0.33%	36.86%
51:G	5.76%	2.33%	8.78%	1.22%	0.28%	66.00%	0.82%	0.47%	0.09%	0.33%	0.01%	0.97%	0.60%	0.06%	2.83%	5.66%	1.12%	2.18%	0.08%	0.40%
52:A	70.29%	0.02%	1.03%	6.70%	0.06%	2.07%	0.05%	0.60%	0.38%	0.62%	0.10%	0.08%	3.22%	0.14%	0.33%	4.11%	7.58%	2.57%	0.02%	0.02%
53:S	2.38%	3.14%	0.27%	0.02%	3.76%	0.30%	0.35%	0.22%	0.01%	1.04%	0.01%	0.19%	6.21%	0.01%	0.35%	77.59%	1.41%	0.43%	0.09%	2.21%
54:S	0.81%	2.09%	0.87%	0.13%	0.29%	4.33%	0.98%	3.69%	2.25%	0.46%	0.31%	9.27%	0.68%	0.17%	42.60%	21.96%	7.93%	0.49%	0.14%	0.54%
55:R	0.06%	0.07%	0.01%	0.18%	0.00%	6.76%	0.00%	0.06%	1.23%	0.07%	0.38%	0.08%	0.05%	0.07%	86.10%	1.28%	0.70%	0.07%	2.82%	0.00%
56:A	88.55%	0.01%	1.35%	0.10%	0.02%	0.68%	0.02%	0.18%	0.01%	0.05%	0.00%	0.10%	1.62%	0.00%	0.04%	1.44%	3.08%	2.74%	0.00%	0.01%
57:T	4.94%	0.29%	0.30%	0.03%	0.33%	0.67%	0.17%	4.99%	0.27%	0.45%	0.14%	2.54%	5.60%	0.02%	0.80%	12.18%	65.36%	0.82%	0.01%	0.08%
58:G	8.28%	0.55%	16.82%	0.90%	0.08%	64.76%	0.13%	0.15%	0.04%	0.10%	0.01%	0.27%	0.10%	0.02%	1.28%	0.97%	0.22%	5.15%	0.02%	0.15%
59:I	0.70%	0.21%	0.21%	0.04%	4.81%	0.31%	0.10%	63.59%	0.42%	6.23%	3.86%	1.30%	0.45%	0.01%	0.96%	2.51%	6.02%	8.19%	0.02%	0.06%
60:P	2.88%	0.01%	0.02%	0.24%	0.02%	0.08%	0.10%	0.17%	0.07%	2.10%	0.01%	0.01%	82.22%	0.86%	1.44%	6.15%	3.39%	2.22%	0.00%	0.01%
61:D	4.57%	0.07%	77.87%	2.21%	0.07%	10.10%	0.52%	0.14%	0.11%	0.14%	0.00%	0.81%	0.07%	0.10%	0.10%	0.17%	0.14%	0.42%	0.00%	0.41%
62:R	0.39%	0.49%	0.19%	0.54%	0.04%	5.18%	0.13%	0.95%	5.80%	0.27%	1.49%	1.88%	0.26%	0.26%	66.73%	9.81%	4.13%	0.29%	1.10%	0.07%
63:F	0.33%	2.88%	0.15%	0.01%	57.42%	0.15%	0.16%	3.72%	0.02%	22.37%	0.18%	0.13%	0.65%	0.02%	0.33%	4.50%	0.20%	5.83%	0.30%	0.67%
64:S	0.61%	4.04%	0.77%</																	