

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:E	4.45%	0.01%	8.01%	67.67%	0.02%	4.53%	0.54%	0.23%	3.66%	0.37%	0.03%	0.78%	0.25%	3.88%	0.48%	0.16%	0.26%	4.40%	0.01%	0.24%
2:I	0.74%	0.01%	0.04%	0.66%	0.53%	0.52%	0.04%	48.06%	4.12%	14.43%	6.41%	0.37%	0.61%	0.34%	5.08%	1.34%	10.01%	6.66%	0.01%	0.01%
3:V	2.65%	0.00%	0.16%	2.26%	0.14%	2.11%	0.01%	1.44%	0.10%	8.32%	3.71%	0.01%	0.14%	0.07%	0.14%	0.12%	0.21%	78.36%	0.04%	0.00%
4:M	0.27%	0.00%	0.00%	0.19%	0.03%	0.19%	0.00%	2.31%	3.40%	4.32%	75.13%	0.04%	0.12%	0.08%	3.52%	0.14%	5.64%	4.56%	0.06%	0.00%
5:T	4.97%	0.00%	0.01%	0.17%	0.00%	0.06%	0.01%	0.61%	2.55%	0.06%	1.17%	0.23%	2.78%	0.05%	1.34%	1.32%	84.53%	0.11%	0.02%	0.00%
6:Q	0.13%	0.01%	0.11%	1.86%	0.01%	0.11%	5.80%	0.02%	5.97%	6.70%	0.31%	0.28%	4.34%	67.53%	5.72%	0.23%	0.30%	0.30%	0.19%	0.08%
7:S	1.48%	1.81%	0.01%	0.00%	1.58%	0.04%	0.02%	0.04%	0.00%	0.15%	0.00%	0.02%	3.41%	0.00%	0.05%	89.75%	1.17%	0.04%	0.05%	0.39%
8:P	1.38%	0.00%	0.00%	0.03%	0.01%	0.01%	0.11%	0.03%	0.01%	3.20%	0.00%	0.00%	91.96%	0.68%	0.63%	1.43%	0.44%	0.05%	0.00%	0.00%
9:A	71.32%	0.02%	5.27%	0.39%	0.14%	6.31%	0.03%	0.45%	0.01%	0.43%	0.01%	0.09%	0.98%	0.00%	0.07%	0.58%	1.65%	12.23%	0.00%	0.02%
10:T	5.55%	0.06%	0.15%	0.01%	0.08%	0.16%	0.04%	1.24%	0.12%	0.06%	0.09%	1.16%	4.13%	0.00%	0.08%	4.59%	82.08%	0.36%	0.00%	0.04%
11:L	0.04%	0.00%	0.00%	0.05%	0.05%	0.02%	0.13%	0.03%	0.03%	88.31%	0.62%	0.00%	4.62%	2.76%	2.01%	0.05%	0.06%	1.24%	0.01%	0.00%
12:S	1.93%	1.60%	0.02%	0.00%	1.61%	0.03%	0.04%	0.03%	0.00%	0.15%	0.00%	0.02%	4.09%	0.00%	0.04%	88.58%	1.31%	0.04%	0.03%	0.47%
13:V	2.18%	0.00%	0.06%	1.80%	0.10%	1.54%	0.00%	0.28%	0.09%	10.31%	4.68%	0.00%	0.22%	0.08%	0.12%	0.09%	0.24%	78.18%	0.04%	0.00%
14:S	1.92%	1.75%	0.02%	0.00%	1.52%	0.03%	0.03%	0.04%	0.00%	0.13%	0.00%	0.02%	4.06%	0.00%	0.05%	88.70%	1.28%	0.04%	0.05%	0.37%
15:P	1.39%	0.00%	0.00%	0.03%	0.01%	0.01%	0.17%	0.03%	0.01%	3.21%	0.00%	0.00%	91.99%	0.62%	0.61%	1.42%	0.43%	0.05%	0.00%	0.00%
16:G	0.42%	0.04%	0.24%	1.48%	0.00%	95.32%	0.00%	0.01%	0.03%	0.02%	0.01%	0.01%	0.01%	0.03%	1.61%	0.13%	0.03%	0.41%	0.19%	0.00%
17:E	2.21%	0.00%	6.12%	73.85%	0.00%	6.07%	0.19%	0.28%	5.00%	0.18%	0.02%	0.48%	0.12%	1.55%	1.07%	1.28%	0.66%	0.88%	0.00%	0.03%
18:R	0.08%	0.08%	0.02%	0.20%	0.00%	8.95%	0.02%	0.63%	1.79%	0.09%	0.04%	0.19%	0.08%	0.14%	83.97%	2.09%	1.53%	0.05%	0.03%	0.01%
19:A	65.34%	0.04%	5.19%	0.40%	0.12%	6.10%	0.07%	0.69%	0.02%	0.23%	0.01%	0.25%	2.67%	0.01%	0.15%	1.78%	4.53%	12.37%	0.00%	0.03%
20:T	5.53%	0.06%	0.15%	0.01%	0.08%	0.16%	0.03%	1.31%	0.11%	0.07%	0.09%	1.17%	4.14%	0.00%	0.09%	4.57%	82.02%	0.37%	0.00%	0.04%
21:L	0.07%	0.05%	0.02%	0.00%	2.99%	0.03%	0.83%	0.71%	0.00%	86.15%	0.03%	0.01%	4.55%	0.06%	1.43%	0.09%	0.03%	2.92%	0.00%	0.02%
22:S	2.36%	1.48%	0.04%	0.00%	1.59%	0.05%	0.12%	0.04%	0.00%	0.41%	0.00%	0.05%	6.25%	0.00%	0.10%	85.34%	1.02%	0.09%	0.06%	0.99%
23:C	0.10%	76.65%	0.35%	0.00%	2.52%	1.61%	0.70%	0.02%	0.01%	0.28%	0.00%	0.36%	0.23%	0.02%	1.54%	5.97%	0.06%	0.04%	0.43%	9.09%
24:R	0.02%	0.03%	0.00%	0.06%	0.00%	4.44%	0.00%	0.02%	0.72%	0.02%	0.20%	0.03%	0.01%	0.02%	91.20%	0.84%	0.39%	0.02%	1.97%	0.00%
25:A	93.07%	0.01%	0.87%	0.02%	0.01%	0.39%	0.01%	0.07%	0.00%	0.01%	0.00%	0.03%	1.02%	0.00%	0.01%	0.74%	2.02%	1.70%	0.00%	0.00%
26:S	0.17%	2.36%	0.12%	0.00%	0.05%	3.75%	0.12%	1.67%	0.12%	0.05%	0.03%	3.85%	0.15%	0.00%	6.83%	75.39%	5.16%	0.07%	0.05%	0.05%
27:Q	0.02%	0.00%	0.03%	0.59%	0.00%	0.06%	3.43%	0.00%	0.60%	2.70%	0.02%	0.03%	3.13%	84.85%	4.35%	0.02%	0.02%	0.03%	0.07%	0.03%
28:S	0.16%	1.07%	0.21%	0.03%	0.07%	3.10%	0.13%	6.22%	0.31%	0.10%	0.11%	5.90%	0.10%	0.01%	6.16%	69.13%	6.97%	0.17%	0.03%	0.05%
29:V	6.86%	0.09%	2.64%	0.36%	4.22%	2.67%	0.21%	6.25%	0.02%	9.30%	0.38%	0.19%	0.85%	0.02%	0.31%	0.09%	0.64%	64.41%	0.01%	0.08%
30:S	0.71%	3.03%	1.55%	0.10%	0.54%	8.44%	0.49%	5.63%	0.97%	0.49%	0.19%	8.96%	0.20%	0.04%	32.04%	30.59%	4.56%	0.63%	0.19%	0.67%
31:S	0.33%	1.44%	0.64%	0.07%	0.13%	4.06%	0.47%	3.09%	1.51%	0.15%	0.11%	8.63%	0.19%	0.04%	32.47%	40.30%	5.72%	0.25%	0.10%	0.28%
32:N	0.34%	0.29%	6.77%	0.53%	0.19%	0.40%	4.57%	2.46%	9.72%	0.19%	0.25%	58.81%	0.22%	0.30%	1.51%	5.64%	5.40%	0.20%	0.01%	2.18%
33:L	0.14%	0.13%	0.00%	0.04%	7.95%	0.04%	0.01%	1.11%	0.03%	78.17%	0.16%	0.00%	0.99%	0.24%	0.29%	9.26%	0.14%	1.08%	0.17%	0.04%
34:A	75.58%	0.13%	3.53%	0.15%	0.17%	3.07%	0.05%	0.32%	0.02%	0.14%	0.02%	0.17%	2.40%	0.00%	0.05%	2.19%	4.20%	7.70%	0.00%	0.09%
35:W	0.15%	13.32%	0.13%	0.27%	0.50%	9.47%	0.09%	0.01%	0.03%	0.79%	0.01%	0.05%	0.09%	0.06%	3.81%	1.74%	0.03%	0.10%	68.01%	1.32%
36:Y	0.19%	9.39%	7.44%	0.27%	4.47%	0.43%	8.25%	0.63%	1.20%	0.83%	0.02%	11.42%	0.23%	0.19%	0.65%	4.84%	0.34%	0.19%	0.13%	48.89%
37:Q	0.08%	0.01%	0.11%	2.08%	0.02%	0.09%	8.05%	0.02%	1.53%	2.42%	0.05%	0.16%	3.15%	77.64%	4.18%	0.07%	0.10%	0.09%	0.04%	0.12%
38:Q	0.22%	0.01%	0.25%	5.92%	0.01%	0.32%	1.37%	0.07%	25.96%	1.71%	1.08%	0.67%	1.15%	54.07%	5.40%	0.20%	0.89%	0.21%	0.42%	0.06%
39:K	0.28%	0.01%	0.27%	2.81%	0.00%	0.41%	0.13%	2.17%	66.20%	0.08%	0.36%	7.03%	0.18%	1.57%	10.54%	0.81%	7.03%	0.07%	0.01%	0.03%
40:P	4.47%	0.87%	0.24%	0.03%	0.73%	0.53%	1.83%	0.58%	0.02%	5.14%	0.02%	0.20%	66.67%	0.20%	3.96%	8.55%	4.88%	0.85%	0.02%	0.19%
41:G	0.87%	0.53%	1.89%	0.06%	0.00%	94.27%	0.02%	0.01%	0.00%	0.01%	0.00%	0.04%	0.01%	0.00%	0.61%	1.19%	0.03%	0.44%	0.01%	0.01%
42:Q	0.04%	0.00%	0.01%	1.15%	0.00%	0.04%	0.89%	0.00%	0.77%	1.35%	0.03%	0.01%	3.85%	88.70%	3.03%	0.02%	0.09%	0.02%	0.01%	0.00%
43:A	57.40%	0.07%	0.43%	0.07%	0.08%	1.19%	0.03%	0.52%	0.01%	0.12%	0.01%	0.14%	10.09%	0.00%	0.07%	5.36%	22.87%	1.52%	0.00%	0.01%
44:P	2.15%	0.11%	0.04%	0.00%	0.13%	0.05%	2.11%	0.08%	0.00%	3.62%	0.00%	0.04%	86.47%	0.09%	1.79%	2.06%	1.08%	0.11%	0.00%	0.07%
45:R	0.02%	0.32%	0.02%	0.04%	0.00%	3.02%	0.01%	0.15%	0.72%	0.03%	0.21%	0.26%	0.03%	0.04%	80.07%	13.46%	0.55%	0.02%	1.03%	0.00%
46:L	0.07%	0.05%	0.01%	0.00%	1.93%	0.02%	0.58%	0.54%	0.00%	89.39%	0.03%	0.06%	4.16%	0.06%	1.26%	0.08%	0.03%	1.70%	0.00%	0.01%
47:L	0.14%	0.08%	0.04%	0.00%	3.77%	0.06%	0.74%	1.17%	0.00%	84.47%	0.03%	0.02%	4.14%	0.05%	1.22%	0.14%	0.04%	3.85%	0.00%	0.04%
48:I	0.36%	0.09%	0.10%	0.02%	3.73%	0.16%	0.07%	64.84%	0.34%	6.79%	6.05%	1.42%	0.28%	0.01%	0.45%	1.52%	4.49%	9.24%	0.00%	0.04%
49:Y	0.13%	9.10%	2.32%	0.11%	9.73%	0.16%	6.71%	0.15%	0.23%	1.08%	0.01%	3.32%	0.37%	0.48%	0.52%	10.38%	0.30%	0.09%	0.13%	54.70%
50:G	4.23%	1.71%	6.55%	0.54%	0.10%	77.07%	0.36%	0.20%	0.03%	0.12%	0.00%	0.47%	0.25%	0.02%	1.86%	4.31%	0.50%	1.45%	0.03%	0.19%
51:A	82.55%	0.01%	0.43%	4.55%	0.01%	1.16%	0.01%	0.27%	0.16%	0.23%	0.03%	0.02%	1.70%	0.05%	0.12%	2.32%	4.96%	1.40%	0.00%	0.01%
52:S	1.62%	2.28%	0.11%	0.01%	2.62%	0.12%	0.14%	0.10%	0.00%	0.49%	0.00%	0.09%	4.09%	0.00%	0.15%	85.38%	1.01%	0.07%	0.10%	1.51%
53:T	5.92%	0.06%	0.07%	0.01%	0.15%	0.10%	0.05%	3.70%	0.09%	0.17%	0.12%	1.23%	4.06%	0.00%	0.58%	5.39%	77.93%	0.32%	0.00%	0.03%
54:R	0.02%	0.02%	0.00%	0.04%	0.00%	3.41%	0.00%	0.02%	0.72%	0.02%	0.20%	0.03%	0.02%	0.04%	92.72%	0.86%	0.41%	0.02%	1.45%	0.00%
55:A	93.27%	0.00%	0.85%	0.04%	0.01%	0.40%	0.01%	0.07%	0.00%	0.01%	0.00%	0.04%	0.95%	0.00%	0.01%	0.79%	1.91%	1.63%	0.00%	0.00%
56:T	3.81%	0.12%	0.13%	0.01%	0.14%	0.29%	0.06%	4.03%	0.12%	0.17%	0.06%	1.83%	3.57%	0.01%	0.30%	8.04%	76.90%	0.38%	0.00%	0.03%
57:G	9.42%	0.68%	14.13%	1.43%	0.14%	62.83%	0.82%	0.33%	0.07%	0.18%	0.01%	1.03%	0.64%	0.04%	1.07%	2.05%	1.26%	3.44%	0.03%	0.41%
58:I	0.76%	0.19%	0.19%	0.02%	8.79%	0.35%	0.07%	54.24%	0.11%	9.74%	2.26%	0.51%	0.46%	0.01%	0.34%	1.19%	3.61%	17.11%	0.01%	0.05%
59:P	1.82%	0.00%	0.00%	0.09%	0.01%	0.02%	0.06%	0.06%	0.02%	1.34%	0.00%	0.00%	89.01%	0.55%	0.84%	3.83%	2.24%	0.09%	0.00%	0.00%
60:A	71.19%	0.02%	5.37%	0.24%	0.14%	6.33%	0.03%	0.46%	0.01%	0.44%	0.01%	0.09%	1.05%	0.00%	0.05%	0.56%	1.74%	12.26%	0.00%	0.02%
61:R	0.12%	0.20%	0.04%	0.21%	0.01%	2.97%	0.05%	0.45%	4.43%	0.14%	1.26%	0.99%	0.13%	0.22%	76.84%	8.12%	2.56%	0.10%	1.14%	0.02%
62:F	0.12%	2.05%	0.05%	0.00%	71.66%	0.06%	0.06%	2.76%	0.00%	15.23%	0.08%	0.06%	0.23%	0.00%	0.12%	2.70%	0.07%	4.15%	0.12%	0.45%
63:S	0.26%	2.88%	0.32%	0.02%	0.11%	4.57%	0.27%	1.80%	0.32%	0.11%	0.04%	4.45%	0.26%	0.02%	8.83%	70.77%	4.65%	0.11%	0.07%	0.14%
64:G	5.58%	0.77%	11.80%	0.19%	0.05%															