

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:E	5.57%	0.03%	9.51%	58.83%	0.05%	5.75%	0.87%	0.39%	4.38%	0.67%	0.06%	1.11%	0.44%	4.67%	0.87%	0.31%	0.45%	5.60%	0.02%	0.43%
2:I	0.88%	0.46%	0.52%	0.10%	6.96%	0.66%	0.68%	41.69%	0.29%	11.95%	1.97%	2.74%	1.64%	0.05%	0.76%	5.66%	8.91%	13.87%	0.01%	0.20%
3:V	3.24%	0.02%	0.37%	2.38%	0.91%	2.24%	0.02%	1.97%	0.17%	12.26%	4.05%	0.03%	0.42%	0.14%	0.23%	0.26%	0.52%	70.70%	0.06%	0.01%
4:L	0.30%	0.09%	0.00%	0.07%	1.62%	0.20%	0.00%	0.11%	0.07%	74.97%	1.97%	0.00%	0.49%	0.06%	0.43%	10.83%	0.23%	2.39%	6.13%	0.01%
5:T	6.44%	0.01%	0.02%	0.32%	0.01%	0.12%	0.02%	0.97%	3.18%	0.12%	1.33%	0.36%	3.73%	0.10%	1.80%	1.91%	79.34%	0.18%	0.03%	0.00%
6:Q	0.25%	0.03%	0.20%	2.52%	0.02%	0.21%	6.96%	0.04%	6.89%	8.04%	0.49%	0.43%	5.44%	59.40%	7.20%	0.40%	0.51%	0.50%	0.34%	0.13%
7:S	1.95%	2.46%	0.03%	0.00%	2.05%	0.07%	0.04%	0.08%	0.00%	0.27%	0.00%	0.04%	4.52%	0.00%	0.10%	86.05%	1.67%	0.08%	0.08%	0.51%
8:P	1.81%	0.01%	0.00%	0.06%	0.02%	0.02%	0.29%	0.06%	0.02%	4.25%	0.01%	0.00%	89.06%	0.79%	0.91%	1.95%	0.63%	0.09%	0.00%	0.00%
9:G	2.16%	0.27%	4.29%	1.40%	0.03%	85.94%	0.09%	0.10%	0.05%	0.09%	0.00%	0.11%	0.07%	0.02%	2.26%	0.63%	0.12%	2.31%	0.01%	0.06%
10:T	7.00%	0.17%	0.45%	0.03%	0.25%	0.46%	0.12%	3.67%	0.27%	0.21%	0.26%	2.26%	3.19%	0.01%	0.27%	7.99%	72.32%	0.96%	0.00%	0.10%
11:L	0.08%	0.00%	0.00%	0.08%	0.09%	0.03%	0.22%	0.05%	0.05%	84.21%	0.85%	0.00%	6.16%	3.53%	2.70%	0.11%	0.09%	1.69%	0.03%	0.00%
12:S	2.54%	1.95%	0.05%	0.00%	1.15%	0.06%	0.08%	0.05%	0.00%	0.17%	0.00%	0.05%	5.39%	0.00%	0.06%	85.85%	1.84%	0.05%	0.05%	0.65%
13:L	0.12%	0.11%	0.00%	0.06%	4.12%	0.09%	0.01%	0.07%	0.02%	85.80%	0.91%	0.00%	0.39%	0.11%	0.23%	3.01%	0.05%	3.03%	1.85%	0.03%
14:S	2.48%	2.35%	0.03%	0.00%	1.99%	0.06%	0.05%	0.07%	0.00%	0.26%	0.00%	0.04%	5.36%	0.00%	0.09%	84.80%	1.78%	0.08%	0.08%	0.46%
15:P	1.81%	0.01%	0.00%	0.06%	0.02%	0.03%	0.29%	0.05%	0.02%	4.20%	0.01%	0.01%	89.10%	0.78%	0.91%	1.98%	0.63%	0.09%	0.00%	0.00%
16:G	0.63%	0.07%	0.44%	2.04%	0.00%	93.07%	0.01%	0.02%	0.05%	0.04%	0.02%	0.01%	0.03%	0.05%	2.35%	0.24%	0.05%	0.61%	0.25%	0.00%
17:E	2.49%	0.01%	7.53%	66.55%	0.01%	7.27%	0.36%	0.44%	5.99%	0.31%	0.05%	0.74%	0.23%	2.08%	1.78%	1.94%	1.05%	1.14%	0.00%	0.05%
18:R	0.15%	0.13%	0.04%	0.37%	0.01%	11.68%	0.04%	0.80%	2.19%	0.16%	0.07%	0.30%	0.14%	0.22%	78.80%	2.67%	2.05%	0.10%	0.06%	0.01%
19:A	56.10%	0.08%	6.41%	0.65%	0.21%	7.74%	0.14%	1.12%	0.05%	0.41%	0.03%	0.41%	3.35%	0.01%	0.30%	2.32%	5.18%	15.46%	0.00%	0.05%
20:T	7.09%	0.11%	0.26%	0.02%	0.14%	0.30%	0.07%	1.73%	0.19%	0.13%	0.15%	1.46%	5.45%	0.01%	0.17%	6.04%	75.99%	0.66%	0.00%	0.07%
21:L	0.14%	0.08%	0.04%	0.00%	3.79%	0.07%	1.13%	0.93%	0.00%	81.59%	0.05%	0.02%	6.15%	0.10%	1.79%	0.14%	0.07%	3.85%	0.01%	0.03%
22:S	3.03%	1.90%	0.08%	0.00%	2.02%	0.09%	0.20%	0.07%	0.01%	0.71%	0.01%	0.09%	8.14%	0.01%	0.17%	80.65%	1.31%	0.16%	0.09%	1.26%
23:C	0.20%	69.30%	0.62%	0.01%	3.34%	2.11%	1.23%	0.05%	0.03%	0.51%	0.00%	0.58%	0.42%	0.05%	2.05%	7.78%	0.12%	0.09%	0.62%	10.90%
24:R	0.05%	0.06%	0.00%	0.11%	0.00%	5.91%	0.00%	0.04%	0.93%	0.04%	0.27%	0.05%	0.03%	0.03%	88.19%	1.10%	0.57%	0.03%	2.57%	0.00%
25:A	90.26%	0.01%	1.18%	0.04%	0.01%	0.55%	0.01%	0.13%	0.01%	0.03%	0.00%	0.07%	1.46%	0.00%	0.02%	1.11%	2.74%	2.35%	0.00%	0.01%
26:S	0.29%	3.08%	0.21%	0.01%	0.08%	4.85%	0.22%	2.09%	0.21%	0.12%	0.05%	4.59%	0.27%	0.01%	8.99%	68.08%	6.54%	0.13%	0.09%	0.09%
27:Q	0.05%	0.01%	0.06%	0.85%	0.01%	0.10%	4.39%	0.01%	0.80%	3.56%	0.04%	0.06%	4.18%	79.79%	5.79%	0.04%	0.05%	0.06%	0.13%	0.04%
28:S	0.29%	1.48%	0.38%	0.05%	0.14%	4.00%	0.22%	7.50%	0.54%	0.18%	0.20%	7.04%	0.18%	0.01%	7.63%	60.58%	9.12%	0.30%	0.06%	0.10%
29:V	8.03%	0.17%	3.14%	0.59%	5.08%	3.19%	0.35%	7.00%	0.05%	11.48%	0.57%	0.32%	1.37%	0.05%	0.52%	0.82%	1.03%	56.11%	0.01%	0.12%
30:S	1.11%	3.09%	2.36%	0.20%	0.80%	9.69%	0.76%	6.05%	1.53%	0.83%	0.29%	9.01%	0.34%	0.09%	34.78%	21.51%	5.29%	1.02%	0.32%	0.91%
31:S	0.59%	1.66%	1.07%	0.16%	0.24%	5.56%	0.76%	3.80%	1.93%	0.30%	0.23%	9.40%	0.35%	0.09%	38.67%	27.38%	6.76%	0.49%	0.13%	0.45%
32:S	0.80%	2.37%	1.57%	0.16%	0.26%	4.68%	0.94%	3.67%	2.03%	0.30%	0.37%	12.39%	0.41%	0.08%	19.08%	41.77%	7.90%	0.47%	0.23%	0.53%
33:Y	0.21%	11.36%	3.82%	0.11%	7.28%	0.39%	9.80%	0.23%	0.50%	1.92%	0.02%	4.91%	0.63%	0.27%	0.89%	7.65%	0.34%	0.17%	0.57%	48.92%
34:L	0.24%	0.21%	0.01%	0.08%	9.22%	0.07%	0.03%	1.43%	0.04%	72.17%	0.24%	0.01%	1.69%	0.39%	0.55%	11.50%	0.23%	1.52%	0.32%	0.06%
35:A	68.49%	0.22%	4.79%	0.25%	0.28%	3.88%	0.09%	0.51%	0.04%	0.27%	0.05%	0.28%	2.96%	0.01%	0.10%	2.77%	4.96%	9.88%	0.01%	0.15%
36:W	0.30%	14.51%	0.27%	0.45%	0.78%	11.61%	0.20%	0.02%	0.06%	1.06%	0.02%	0.09%	0.18%	0.12%	4.98%	2.46%	0.07%	0.18%	60.71%	1.93%
37:Y	0.34%	11.19%	8.51%	0.45%	5.21%	0.73%	9.29%	0.99%	1.83%	1.41%	0.04%	12.56%	0.43%	0.32%	1.15%	6.41%	0.60%	0.33%	0.24%	37.98%
38:Q	0.15%	0.03%	0.21%	2.62%	0.03%	0.17%	9.39%	0.04%	1.96%	3.08%	0.08%	0.25%	4.15%	71.68%	5.40%	0.15%	0.18%	0.16%	0.07%	0.20%
39:Q	0.37%	0.03%	0.42%	7.18%	0.02%	0.60%	1.61%	0.16%	27.86%	2.05%	1.65%	1.00%	1.38%	45.59%	7.12%	0.37%	1.49%	0.34%	0.65%	0.10%
40:K	0.47%	0.01%	0.48%	3.60%	0.01%	0.74%	0.21%	2.73%	57.20%	0.15%	0.56%	8.22%	0.29%	1.86%	13.19%	1.37%	8.70%	0.13%	0.01%	0.05%
41:P	4.93%	1.35%	0.38%	0.07%	1.14%	0.85%	2.15%	0.89%	0.05%	6.00%	0.05%	0.32%	59.21%	0.32%	4.57%	10.35%	5.70%	1.33%	0.04%	0.31%
42:G	1.19%	0.70%	2.57%	0.10%	0.01%	92.11%	0.03%	0.03%	0.01%	0.01%	0.00%	0.07%	0.02%	0.00%	0.90%	1.51%	7.05%	0.65%	0.02%	0.02%
43:Q	0.06%	0.00%	0.02%	1.52%	0.00%	0.07%	1.27%	0.00%	0.96%	1.80%	0.05%	0.02%	5.03%	84.90%	4.06%	0.04%	0.13%	0.03%	0.01%	0.01%
44:A	47.66%	0.14%	0.54%	0.11%	0.15%	1.47%	0.05%	0.84%	0.02%	0.20%	0.02%	0.24%	12.01%	0.00%	0.14%	6.93%	27.69%	1.76%	0.00%	0.03%
45:P	2.86%	0.19%	0.09%	0.01%	0.23%	0.09%	2.73%	0.13%	0.00%	4.77%	0.00%	0.08%	81.91%	0.15%	2.36%	2.74%	1.35%	0.22%	0.00%	0.11%
46:R	0.05%	0.54%	0.04%	0.08%	0.01%	4.05%	0.02%	0.24%	0.90%	0.06%	0.25%	0.44%	0.06%	0.08%	75.61%	15.51%	0.81%	0.04%	1.21%	0.01%
47:L	0.13%	0.08%	0.03%	0.00%	2.46%	0.05%	0.78%	0.73%	0.01%	85.64%	0.06%	0.10%	5.60%	0.10%	1.66%	0.15%	0.06%	2.36%	0.00%	0.02%
48:L	0.25%	0.16%	0.07%	0.01%	4.65%	0.11%	0.99%	1.49%	0.00%	79.59%	0.06%	0.03%	5.43%	0.09%	1.55%	0.26%	0.08%	5.10%	0.00%	0.07%
49:I	0.65%	0.15%	0.18%	0.05%	4.41%	0.30%	0.13%	56.01%	0.54%	8.77%	6.54%	1.71%	0.50%	0.02%	0.74%	1.96%	5.79%	11.50%	0.01%	0.06%
50:Y	0.21%	10.81%	2.82%	0.18%	11.46%	0.29%	8.02%	0.25%	0.34%	1.81%	0.01%	3.80%	0.71%	0.79%	0.90%	12.95%	0.51%	0.18%	0.24%	43.71%
51:G	5.17%	2.10%	7.92%	0.91%	0.20%	70.47%	0.61%	0.35%	0.06%	0.22%	0.01%	0.75%	0.45%	0.04%	2.45%	5.16%	8.57%	1.90%	0.05%	0.31%
52:A	75.52%	0.01%	0.75%	5.88%	0.04%	1.68%	0.03%	0.46%	0.28%	0.41%	0.07%	0.05%	2.55%	0.09%	0.23%	3.33%	6.52%	2.07%	0.01%	0.01%
53:S	2.07%	2.77%	0.19%	0.01%	3.22%	0.21%	0.25%	0.16%	0.01%	0.73%	0.01%	0.14%	5.33%	0.01%	0.26%	81.13%	1.24%	0.30%	0.06%	1.91%
54:S	0.58%	2.00%	0.67%	0.08%	0.22%	3.93%	0.78%	3.35%	1.83%	0.34%	0.23%	9.43%	0.51%	0.11%	40.64%	27.11%	7.31%	0.36%	0.10%	0.42%
55:R	0.05%	0.05%	0.01%	0.12%	0.00%	5.67%	0.00%	0.04%	1.04%	0.04%	0.31%	0.06%	0.03%	0.04%	88.42%	1.09%	0.56%	0.05%	2.42%	0.00%
56:A	90.60%	0.01%	1.11%	0.07%	0.01%	0.55%	0.01%	0.13%	0.01%	0.03%	0.00%	0.07%	1.34%	0.00%	0.03%	1.14%	2.60%	2.27%	0.00%	0.01%
57:T	4.51%	0.21%	0.22%	0.02%	0.24%	0.50%	0.12%	4.69%	0.21%	0.31%	0.11%	2.26%	4.78%	0.01%	0.55%	10.59%	69.99%	0.62%	0.00%	0.07%
58:G	7.29%	0.50%	14.98%	0.64%	0.05%	69.33%	0.09%	0.11%	0.02%	0.06%	0.00%	0.21%	0.07%	0.01%	1.07%	0.90%	0.16%	4.38%	0.01%	0.11%
59:I	0.51%	0.14%	0.15%	0.02%	4.40%	0.22%	0.08%	68.83%	0.31%	5.11%	3.52%	1.15%	0.30%	0.01%	0.70%	2.15%	5.26%	7.09%	0.01%	0.05%
60:P	2.44%	0.00%	0.01%	0.17%	0.01%	0.05%	0.07%	0.12%	0.05%	1.77%	0.01%	0.00%	85.13%	0.75%	1.18%	5.16%	2.90%	0.16%	0.00%	0.00%
61:D	4.04%	0.06%	81.12%	1.86%	0.05%	8.70%	0.42%	0.10%	0.08%	0.09%	0.00%	0.73%	0.05%	0.05%	0.06%	0.11%	0.10%	2.02%	0.00%	0.36%
62:R	0.26%	0.36%	0.12%	0.40%	0.03%	4.48%	0.09%	0.73%	5.36%	0.19%	1.42%	1.51%	0.19%	0.19%	70.64%	9.34%	3.49%	0.20%	0.97%	0.05%
63:F	0.23%	2.57%	0.09%	0.01%	63.09%	0.11%	0.11%	3.37%	0.01%	19.63%	0.14%	0.10%	0.43%	0.01%	0.23%	3.75%	0.14%	5.17%	0.22%	0.58%
64:S	0.45%	3.60%	0.57%	0.05%</																