

	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.33%	0.01%	0.32%	4.56%	0.01%	0.33%	3.90%	0.04%	4.60%	5.08%	0.29%	0.29%	4.90%	68.95%	5.24%	0.20%	0.33%	0.33%	0.16%	0.13%
2:V	4.28%	0.01%	0.15%	3.19%	0.24%	2.83%	0.01%	2.22%	0.42%	7.18%	5.99%	0.02%	0.18%	0.11%	0.34%	0.16%	0.61%	72.01%	0.03%	0.00%
3:Q	0.06%	0.04%	0.21%	1.09%	0.03%	0.10%	10.52%	0.07%	4.70%	2.57%	0.09%	0.80%	1.97%	72.91%	4.02%	0.15%	0.21%	0.09%	0.25%	0.13%
4:L	0.61%	0.05%	0.02%	0.43%	2.26%	0.32%	0.14%	1.83%	0.72%	68.08%	4.18%	0.06%	3.07%	1.80%	1.81%	1.04%	0.57%	12.65%	0.35%	0.01%
5:Q	0.05%	0.02%	0.07%	0.96%	0.01%	0.14%	3.42%	0.02%	3.60%	2.17%	0.05%	0.21%	1.45%	82.52%	4.54%	0.09%	0.10%	0.07%	0.46%	0.05%
6:E	5.11%	0.00%	3.26%	79.46%	0.00%	7.05%	0.05%	0.01%	1.54%	0.13%	0.14%	0.10%	0.07%	0.59%	0.17%	0.04%	0.17%	2.09%	0.02%	0.02%
7:S	2.81%	0.01%	0.00%	0.02%	0.02%	0.05%	0.00%	0.00%	0.01%	3.59%	0.06%	0.00%	4.14%	0.01%	0.11%	85.57%	1.57%	0.10%	1.93%	0.00%
8:G	1.03%	0.53%	2.11%	0.06%	0.00%	92.74%	0.02%	0.03%	0.01%	0.01%	0.00%	0.09%	0.02%	0.00%	0.81%	1.75%	0.07%	0.67%	0.02%	0.01%
9:P	0.52%	0.00%	0.00%	0.03%	0.00%	0.01%	0.12%	0.02%	0.01%	1.50%	0.00%	0.00%	94.15%	0.61%	0.95%	1.26%	0.78%	0.03%	0.00%	0.00%
10:G	0.71%	0.02%	0.25%	2.62%	0.00%	86.98%	0.00%	0.07%	0.10%	0.08%	0.01%	0.00%	0.06%	0.04%	8.42%	0.13%	0.12%	0.38%	0.01%	0.00%
11:L	0.05%	0.00%	0.00%	0.03%	0.06%	0.03%	0.05%	0.07%	0.02%	91.09%	0.40%	0.00%	3.00%	1.18%	2.62%	0.10%	0.05%	1.20%	0.04%	0.00%
12:V	4.89%	0.00%	0.18%	4.08%	0.05%	4.47%	0.00%	0.86%	0.28%	7.14%	6.96%	0.01%	0.18%	0.08%	0.29%	0.18%	0.56%	69.70%	0.07%	0.00%
13:K	0.21%	0.00%	0.16%	4.51%	0.00%	0.54%	0.06%	0.31%	68.96%	0.20%	4.93%	0.99%	0.11%	3.33%	11.00%	0.19%	4.16%	0.21%	0.11%	0.01%
14:P	3.48%	0.15%	0.06%	0.00%	0.23%	0.06%	0.63%	0.12%	0.01%	1.26%	0.00%	0.18%	79.68%	0.02%	0.52%	9.11%	4.27%	0.15%	0.01%	0.06%
15:S	2.40%	0.23%	0.01%	0.11%	0.20%	0.25%	0.00%	0.01%	0.03%	13.11%	0.11%	0.00%	2.78%	0.02%	0.40%	71.24%	0.64%	0.49%	7.93%	0.04%
16:E	3.58%	0.00%	1.59%	81.58%	0.00%	4.96%	0.05%	0.01%	3.90%	0.09%	0.21%	0.09%	0.10%	1.77%	0.42%	0.05%	0.29%	1.28%	0.01%	0.02%
17:T	7.51%	0.04%	0.06%	0.02%	0.05%	0.10%	0.03%	2.42%	0.24%	0.05%	0.17%	1.89%	2.88%	0.00%	0.18%	3.98%	80.20%	0.13%	0.00%	0.03%
18:L	0.06%	0.00%	0.00%	0.06%	0.07%	0.02%	0.17%	0.04%	0.03%	86.66%	0.73%	0.00%	5.22%	3.05%	2.30%	0.07%	0.07%	1.43%	0.02%	0.00%
19:S	2.89%	2.27%	0.06%	0.00%	2.09%	0.06%	0.11%	0.06%	0.01%	0.32%	0.00%	0.08%	5.02%	0.00%	0.07%	84.21%	1.49%	0.07%	0.06%	1.13%
20:L	0.11%	0.08%	0.03%	0.00%	3.42%	0.05%	0.91%	0.83%	0.00%	84.72%	0.02%	0.01%	4.84%	0.06%	1.43%	0.10%	0.04%	3.33%	0.00%	0.02%
21:T	5.84%	0.08%	0.10%	0.01%	0.19%	0.19%	0.07%	4.24%	0.20%	0.29%	0.39%	1.26%	4.20%	0.01%	0.42%	5.75%	76.19%	0.53%	0.01%	0.05%
22:C	0.14%	71.98%	0.43%	0.02%	2.87%	1.94%	0.89%	0.04%	0.02%	0.38%	0.00%	0.44%	0.30%	0.02%	2.10%	6.65%	0.08%	0.07%	2.08%	9.54%
23:T	5.73%	0.37%	0.20%	0.03%	0.26%	0.54%	0.11%	4.07%	0.10%	0.29%	0.09%	1.97%	9.06%	0.01%	0.45%	11.02%	65.03%	0.61%	0.00%	0.06%
24:V	4.60%	0.02%	1.49%	0.07%	0.60%	2.19%	0.01%	1.10%	0.00%	1.39%	0.10%	0.02%	0.05%	0.00%	0.02%	0.05%	0.09%	88.19%	0.00%	0.01%
25:S	1.49%	2.83%	0.05%	0.00%	2.23%	0.10%	0.06%	0.04%	0.00%	0.30%	0.00%	0.03%	3.21%	0.00%	0.10%	87.70%	0.96%	0.11%	0.07%	0.72%
26:G	4.45%	1.01%	7.18%	0.53%	0.07%	78.34%	0.41%	0.18%	0.03%	0.09%	0.00%	0.54%	0.35%	0.03%	1.38%	2.78%	0.62%	1.75%	0.03%	0.23%
27:G	8.39%	0.78%	17.47%	0.53%	0.07%	65.54%	0.32%	0.09%	0.02%	0.10%	0.00%	0.25%	0.13%	0.01%	0.65%	1.05%	0.23%	4.08%	0.06%	0.23%
28:S	1.42%	1.59%	0.02%	0.00%	1.46%	0.04%	0.06%	0.03%	0.00%	0.29%	0.00%	0.02%	4.57%	0.00%	0.06%	89.15%	0.70%	0.05%	0.02%	0.51%
29:I	0.44%	0.14%	0.09%	0.01%	4.82%	0.21%	0.05%	67.33%	0.27%	6.16%	3.07%	0.99%	0.27%	0.01%	0.92%	1.85%	3.87%	9.45%	0.01%	0.04%
30:S	0.90%	2.20%	1.03%	0.11%	0.35%	3.32%	1.03%	7.56%	1.67%	0.49%	0.46%	15.06%	0.95%	0.09%	11.73%	37.68%	14.29%	0.54%	0.14%	0.39%
31:S	0.98%	3.93%	1.46%	0.08%	0.39%	7.69%	0.71%	2.61%	0.36%	0.33%	0.05%	9.69%	0.49%	0.04%	5.18%	57.48%	7.59%	0.34%	0.13%	0.46%
32:Y	0.27%	10.12%	5.46%	0.23%	6.86%	0.39%	10.75%	0.17%	0.23%	1.46%	0.01%	2.92%	0.49%	0.31%	0.69%	5.94%	0.17%	0.20%	0.27%	53.06%
33:Y	0.13%	10.53%	2.86%	0.03%	7.21%	0.45%	7.14%	0.13%	0.40%	1.36%	0.01%	3.33%	0.37%	0.43%	0.59%	7.21%	0.24%	0.10%	0.34%	57.12%
34:W	0.04%	2.29%	0.01%	0.08%	0.09%	2.62%	0.01%	0.00%	0.04%	1.35%	0.02%	0.01%	0.09%	0.09%	4.22%	1.17%	0.02%	0.04%	87.63%	0.17%
35:S	0.75%	0.78%	1.06%	0.15%	0.06%	4.06%	0.39%	4.64%	3.63%	0.17%	0.56%	18.83%	0.34%	0.11%	15.65%	35.99%	12.30%	0.32%	0.07%	0.14%
36:W	0.04%	6.47%	0.02%	0.07%	0.19%	2.04%	0.07%	0.01%	0.06%	1.44%	0.02%	0.02%	0.13%	0.11%	5.35%	1.60%	0.03%	0.03%	81.81%	0.49%
37:I	0.41%	0.04%	0.06%	0.02%	1.36%	0.16%	0.03%	74.77%	0.35%	3.46%	2.79%	0.94%	0.23%	0.01%	0.53%	1.99%	6.99%	5.86%	0.00%	0.01%
38:R	0.02%	0.28%	0.01%	0.01%	0.00%	0.96%	0.14%	0.00%	0.01%	0.47%	0.00%	0.00%	0.76%	1.10%	94.03%	0.08%	0.02%	0.01%	2.09%	0.01%
39:Q	0.03%	0.00%	0.04%	1.29%	0.00%	0.06%	2.27%	0.01%	1.23%	2.98%	0.04%	0.21%	2.01%	85.64%	4.00%	0.03%	0.05%	0.03%	0.05%	0.01%
40:P	13.81%	0.44%	0.06%	0.01%	0.42%	0.12%	0.42%	0.21%	0.03%	0.47%	0.00%	0.26%	45.29%	0.01%	0.29%	26.57%	11.17%	0.14%	0.01%	0.26%
41:P	0.59%	0.00%	0.00%	0.03%	0.00%	0.01%	0.12%	0.02%	0.01%	1.57%	0.00%	0.00%	93.48%	0.60%	0.94%	1.62%	0.98%	0.01%	0.00%	0.00%
42:G	1.42%	0.04%	0.06%	6.88%	0.00%	86.93%	0.01%	0.01%	0.14%	0.11%	0.07%	0.01%	0.05%	0.14%	1.44%	0.13%	0.07%	1.89%	0.20%	0.00%
43:K	0.22%	0.00%	0.06%	7.07%	0.00%	0.23%	0.05%	0.05%	78.22%	0.14%	1.02%	0.78%	0.14%	5.82%	3.84%	0.10%	2.12%	0.13%	0.02%	0.01%
44:G	0.87%	0.02%	0.23%	2.54%	0.00%	86.40%	0.00%	0.06%	0.15%	0.03%	0.00%	0.01%	0.02%	0.03%	9.08%	0.16%	0.07%	0.29%	0.02%	0.00%
45:L	0.06%	0.00%	0.00%	0.03%	0.05%	0.04%	0.05%	0.08%	0.02%	91.15%	0.40%	0.00%	3.03%	1.16%	2.58%	0.10%	0.05%	1.18%	0.04%	0.00%
46:E	4.72%	0.01%	12.66%	66.40%	0.01%	6.75%	0.29%	0.05%	3.49%	0.18%	0.20%	0.70%	0.16%	1.49%	0.32%	0.11%	0.38%	1.97%	0.02%	0.10%
47:W	0.12%	6.44%	0.04%	0.26%	0.22%	3.13%	0.04%	0.02%	0.26%	1.62%	0.09%	0.02%	0.11%	0.07%	7.37%	2.83%	0.12%	0.13%	76.76%	0.38%
48:I	0.37%	0.07%	0.06%	0.01%	1.70%	0.11%	0.04%	75.78%	0.18%	3.12%	2.13%	0.85%	0.32%	0.01%	0.24%	1.90%	9.13%	3.96%	0.00%	0.02%
49:G	2.93%	0.15%	3.35%	5.84%	0.02%	82.65%	0.04%	0.06%	0.17%	0.15%	0.05%	0.05%	0.11%	0.11%	1.44%	0.40%	0.22%	1.98%	0.27%	0.02%
50:Y	0.32%	7.73%	4.18%	0.33%	9.47%	0.28%	9.64%	0.66%	0.38%	1.85%	0.02%	5.79%	0.71%	0.54%	0.84%	10.61%	0.66%	0.40%	0.22%	45.35%
51:I	0.58%	0.25%	0.18%	0.04%	10.46%	0.27%	0.10%	50.93%	0.21%	13.61%	4.87%	0.83%	0.38%	0.02%	0.45%	1.59%	2.94%	12.19%	0.02%	0.08%
52:Y	0.22%	10.47%	2.41%	0.11%	11.27%	0.22%	7.23%	0.19%	0.12%	1.27%	0.00%	3.59%	0.56%	0.40%	0.64%	12.23%	0.39%	0.14%	0.24%	48.31%
53:Y	0.26%	10.99%	5.92%	0.10%	7.66%	0.42%	9.54%	0.16%	0.23%	1.10%	0.01%	3.60%	0.26%	0.44%	0.72%	6.70%	0.13%	0.21%	0.11%	51.44%
54:S	0.31%	4.52%	0.41%	0.03%	0.21%	5.46%	0.44%	1.95%	0.42%	0.15%	0.04%	4.66%	0.25%	0.03%	8.77%	66.56%	5.27%	0.17%	0.11%	0.26%
55:G	1.95%	0.06%	0.69%	6.78%	0.00%	83.61%	0.01%	0.01%	0.18%	0.12%	0.06%	0.02%	0.04%	0.15%	3.13%	0.09%	0.09%	1.70%	1.29%	0.01%
56:S	0.27%	0.86%	0.72%	0.17%	0.06%	3.83%	0.24%	3.33%	2.37%	0.13%	0.23%	5.68%	0.12%	0.07%	35.93%	40.99%	3.25%	1.64%	0.05%	0.08%
57: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%
58:T	6.78%	0.12%	0.24%	0.02%	0.27%	0.28%	0.12%	6.09%	0.26%	0.28%	0.16%	2.35%	2.85%	0.01%	0.98%	7.59%	70.84%	0.66%	0.00%	0.07%
59:N	0.37%	0.33%	3.15%	0.44%	0.21%	0.37%	2.98%	2.67%	9.89%	0.21%	0.22%	60.10%	0.28%	0.42%	1.82%	7.09%	7.03%	0.21%	0.01%	2.19%
60:Y	0.15%	9.67%	2.83%	0.06%	3.82%	0.45%	7.13%	0.13%	0.37%	1.22%	0.01%	3.38%	0.39%	0.22%	0.60%	8.19%	0.29%	0.08%	0.33%	60.70%
61:N	0.29%	0.35%	4.62%	0.51%	0.18%	0.41%	3.04%	2.22%	12.73%	0.17%	0.22%	61.39%	0.22%	0.31%	1.82%	5.18%	4.05%	0.14%	0.01%	2.15%
62:P	2.98%	0.10%	0.04%	0.00%	0.16%	0.05%	1.02%	0.11%	0.01%	1.63%	0.00%	0.06%	84.14%	0.03%	0.67%	5.77%	3.00%	0.14%	0.01%	0.08%
63:S	1.91%	2.54%	0.09%	0.00%	2.25%	0.08%	0.10%	0.02%	0.00%	0.37%	0.00%	0.05%	5.67%	0.00%	0.05%	84.59%	0.88%	0.13%	0.06%	1.19%
64:L	0.11%	0.07%	0.03%	0.00																