	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.22%	0.01%	0.22%	3.92%	0.01%	0.22%	2.91%	0.03%	3.96%	4.26%	0.20%	0.21%	4.20%	74.53%	4.35%	0.13%	0.22%	0.22%	0.10%	0.08%
2:I	0.16%	0.01%	0.03%	0.01%	0.78%	0.06%	0.01%	85.86%	0.14%	1.48%	2.54%	0.70%	0.00%	0.58%	1.90%	2.93%	2.74%	0.00%	0.00%	0.01%
3:T	4.91%	0.06%	0.07%	0.01%	0.13%	0.13%	0.04%	3.73%	0.12%	0.19%	0.24%	1.17%	3.50%	0.00%	0.32%	4.88%	80.07%	0.36%	0.00%	0.04%
4:L	0.03%	0.04%	0.00%	0.01%	1.68%	0.00%	0.00%	0.05%	0.01%	92.61%	0.68%	0.00%	0.17%	0.07%	0.12%	2.00%	0.03%	1.00%	1.40%	0.01%
5:K	0.08%	0.00%	0.20%	4.03%	0.00%	0.14%	0.08%	0.00%	85.19%	0.04%	0.69%	1.76%	0.04%	2.90%	2.76%	0.17%	1.76%	0.03%	0.02%	0.01%
6:E	4.35%	0.00%	2.66%	83.03%	0.00%	6.02%	0.03%	0.01%	1.19%	0.09%	0.10%	0.06%	0.04%	0.41%	0.10%	0.02%	0.10%	1.76%	0.01%	0.01%
7:S	1.35%	1.48%	0.02%	0.00%	1.52%	0.02%	0.02%	0.03%	0.00%	0.15%	0.00%	0.02%	3.06%	0.00%	0.05%	90.68%	1.06%	0.03%	0.03%	0.46%
8:G	1.66%	0.94%	2.68%	0.08%	0.02%	89.64%	0.13%	0.04%	0.00%	0.02%	0.00%	0.17%	0.10%	0.00%	1.13%	2.48%	0.18%	0.65%	0.02%	0.07%
9:P	0.59%	0.14%	0.03%	0.01%	0.13%	0.06%	2.91%	0.10%	0.00%	12.96%	0.00%	0.04%	72.10%	0.21%	8.83%	1.03%	0.65%	0.16%	0.01%	0.05%
10:T	9.03%	0.06%	0.04%	0.23%	0.12%	0.37%	0.01%	2.19%	1.51%	1.57%	6.17%	0.24%	4.63%	0.08%	4.52%	5.74%	62.42%	0.80%	0.28%	0.01%
11:L	0.22%	0.00%	0.00%	0.13%	0.14%	0.11%	0.03%	0.21%	0.10%	85.26%	2.64%	0.00%	2.67%	0.96%	1.10%	0.21%	0.16%	5.92%	0.06%	0.00%
12:V	4.12%	0.00%	0.12%	3.44%	0.03%	3.83%	0.00%	0.58%	0.19%	5.99%	6.10%	0.01%	0.21%	0.05%	0.19%	0.01%	0.36%	74.71%	0.05%	0.00%
13:K	0.23%	0.01%	0.36%	3.73%	0.00%	0.32%	0.20%	2.02%	66.64%	0.11%	0.30%	6.51%	0.17%	2.17%	9.85%	0.69%	6.55%	0.08%	0.00%	0.03%
14:P	6.26%	0.19%	0.25%	0.02%	0.37%	0.27%	1.77%	0.48%	0.01%	2.62%	0.01%	0.27%	68.74%	0.04%	1.18%	11.68%	4.98%	0.68%	0.01%	0.18%
15:T	4.57%	0.00%	0.01%	0.29%	0.01%	0.06%	0.00%	2.20%	1.68%	0.15%	0.17%	0.09%	4.24%	0.06%	2.01%	4.13%	80.19%	0.12%	0.00%	0.00%
16:Q	0.10%	0.00%	0.05%	4.80%	0.00%	0.15%	0.64%	0.00%	1.34%	2.45%	0.06%	0.01%	1.88%	83.83%	4.48%	0.04%	0.11%	0.03%	0.03%	0.01%
17:T	6.17%	0.02%	0.04%	0.01%	0.03%	0.06%	0.02%	2.03%	0.17%	0.03%	0.11%	1.59%	2.52%	0.00%	0.10%	3.24%	83.78%	0.07%	0.00%	0.02%
18:L	0.07%	0.05%	0.02%	0.00%	2.94%	0.03%	0.74%	0.71%	0.00%	87.41%	0.01%	0.01%	3.92%	0.04%	1.19%	0.07%	0.03%	2.75%	0.00%	0.01%
19:T	3.91%	0.01%	0.01%	0.11%	0.01%	0.10%	0.00%	0.80%	1.36%	0.17%	2.20%	0.14%	2.88%	0.03%	2.54%	2.03%	83.38%	0.27%	0.03%	0.00%
20:L	0.19%	0.00%	0.00%	0.14%	0.01%	0.15%	0.01%	0.06%	0.08%	86.47%	2.91%	0.00%	1.50%	0.77%	0.74%	0.45%	0.12%	6.13%	0.24%	0.00%
21:T	5.41%	0.01%	0.06%	0.00%	0.02%	0.05%	0.04%	1.67%	0.21%	0.05%	0.15%	1.43%	2.72%	0.00%	0.16%	2.02%	85.90%	0.09%	0.00%	0.01%
22:C	0.09%	76.62%	0.30%	0.01%	2.42%	1.58%	0.62%	0.02%	0.01%	0.24%	0.00%	0.33%	0.19%	0.01%	1.58%	5.61%	0.06%	0.05%	1.58%	8.67%
23:T	5.21%	0.06%	0.08%	0.01%	0.12%	0.09%	0.04%	3.89%	0.11%	0.10%	0.24%	1.08%	2.25%	0.00%	0.29%	5.48%	80.62%	0.28%	0.00%	0.04%
24:F	0.05%	2.18%	0.02%	0.00%	76.71%	0.03%	0.06%	0.42%	0.00%	15.60%	0.04%	0.02%	0.27%	0.01%	0.09%	2.58%	0.02%	1.12%	0.12%	0.64%
25:S	1.27%	2.56%	0.03%	0.00%	2.04%	0.07%	0.04%	0.03%	0.00%	0.20%	0.00%	0.03%	2.60%	0.01%	0.07%	89.51%	0.78%	0.08%	0.05%	0.64%
26:G	1.90%	0.05%	1.15%	5.70%	0.00%	86.45%	0.04%	0.02%	0.13%	0.08%	0.04%	0.02%	0.05%	0.10%	1.99%	0.16%	0.16%	1.57%	0.45%	0.01%
27:F	0.15%	2.46%	0.08%	0.00%	71.61%	0.11%	0.06%	2.42%	0.00%	15.49%	0.10%	0.00%	0.20%	0.00%	0.11%	2.78%	0.07%	3.59%	0.18%	0.53%
28:S	1.51%	0.01%	0.01%	0.08%	0.14%	0.02%	0.00%	0.02%	0.01%	0.98%	0.01%	0.00%	4.00%	0.02%	0.03%	92.24%	0.74%	0.03%	0.04%	0.03%
29:L	0.09%	0.05%	0.03%	0.01%	1.87%	0.06%	0.83%	0.52%	0.00%	88.19%	0.04%	0.01%	4.14%	0.05%	1.24%	0.08%	0.04%	2.73%	0.00%	0.00%
30:S	0.32%	2.33%	0.47%	0.06%	0.11%	5.09%	0.60%	2.50%	1.01%	0.21%	0.10%	8.33%	0.28%	0.04%	31.52%	40.92%	5.56%	0.22%	0.09%	0.25%
31:T	5.40%	0.16%	0.17%	0.02%	0.22%	0.26%	0.09%	5.06%	0.14%	0.30%	0.24%	1.50%	7.00%	0.01%	0.43%	7.45%	70.94%	0.58%	0.00%	0.04%
32:S	0.39%	5.41%	0.52%	0.03%	0.35%	7.27%	0.28%	3.00%	0.25%	0.29%	0.05%	3.45%	0.25%	0.02%	9.08%	65.74%	2.98%	0.28%	0.13%	0.24%
33:G	1.59%	0.04%	0.39%	3.52%	0.00%	86.84%	0.01%	0.08%	0.11%	0.10%	0.00%	0.01%	0.04%	0.03%	6.38%	0.16%	0.12%	0.53%	0.04%	0.00%
34:V	3.20%	0.00%	0.04%	2.74%	0.05%	2.53%	0.00%	0.25%	0.15%	12.16%	4.90%	0.00%	0.17%	0.00%	0.34%	0.19%	0.35%	72.79%	0.08%	0.00%
35:G	3.87%	1.38%	5.12%	0.67%	0.05%	79.21%	0.17%	0.26%	0.03%	0.06%	0.00%	0.48%	0.21%	0.01%	1.41%	5.10%	0.58%	1.28%	0.02%	0.09%
36:V	3.12%	0.00%	0.04%	2.47%	0.06%	2.22%	0.00%	0.22%	0.13%	8.27%	3.14%	0.00%	0.12%	0.07%	0.21%	0.12%	0.25%	79.48%	0.07%	0.00%
37:G	6.33%	0.34%	13.47%	0.13%	0.01%	74.71%	0.06%	0.08%	0.02%	0.03%	0.01%	0.29%	0.04%	0.00%	0.48%	1.05%	0.16%	2.73%	0.01%	0.03%
38:W	0.02%	5.74%	0.01%	0.02%	0.11%	0.86%	0.04%	0.00%	0.03%	1.19%	0.01%	0.01%	0.09%	0.09%	4.01%	1.13%	0.01%	0.01%	86.34%	0.31%
39:I	0.28%	0.03%	0.03%	0.01%	1.12%	0.10%	0.02%	79.18%	0.26%	2.80%	2.55%	0.79%	0.15%	0.01%	0.35%	1.69%	5.80%	4.84%	0.00%	0.01%
40:R	0.02%	4.93%	0.02%	0.00%	0.03%	1.13%	1.34%	0.00%	0.55%	0.00%	0.04%	2.05%	0.05%	0.00%	88.16%	1.47%	0.06%	0.02%	0.07%	0.04%
41:Q	0.00%	0.00%	0.02%	0.43%	0.00%	0.07%	1.91%	0.00%	0.52%	3.46%	0.02%	0.01%	4.17%	83.30%	5.89%	0.02%	0.02%	0.03%	0.10%	0.01%
42:P	11.45%	0.29%	0.04%	0.00%	0.28%	0.08%	0.39%	0.14%	0.01%	0.40%	0.00%	0.18%	53.97%	0.01%	0.24%	22.72%	9.51%	0.09%	0.01%	0.18%
43:P	0.49%	0.00%	0.00%	0.02%	0.00%	0.01%	0.09%	0.02%	0.01%	1.28%	0.00%	0.00%	94.70%	0.51%	0.76%	1.30%	0.80%	0.01%	0.00%	0.00%
44:G	1.27%	0.01%	0.38%	4.37%	0.00%	85.88%	0.01%	0.11%	0.12%	0.11%	0.01%	0.01%	0.09%	0.05%	6.57%	0.12%	0.14%	0.72%	0.00%	0.00%
45:K	0.28%	0.00%	0.08%	6.50%	0.00%	0.34%	0.05%	0.00%	76.53%	0.13%	1.37%	0.61%	0.13%	5.11%	5.88%	0.13%	2.55%	0.20%	0.03%	0.01%
46:A	94.07%	0.01%	0.32%	0.11%	0.01%	1.08%	0.00%	0.03%	0.00%	0.01%	0.00%	0.02%	0.76%	0.00%	0.00%	0.53%	1.99%	1.06%	0.00%	0.00%
47:L	0.04%	0.00%	0.00%	0.02%	0.03%	0.03%	0.03%	0.04%	0.01%	83.75%	0.52%	0.00%	2.83%	1.18%	10.35%	0.06%	0.03%	1.02%	0.04%	0.00%
48:E	3.95%	0.01%	10.99%	71.39%	0.01%	5.69%	0.21%	0.01%	3.16%	0.13%	0.14%	0.50%	0.12%	0.21%	0.07%	0.26%	1.69%	0.01%	0.01%	0.07%
49:W	0.01%	10.26%	0.00%	0.01%	0.10%	2.89%	0.01%	0.01%	0.02%	0.84%	0.01%	0.01%	0.04%	0.03%	6.38%	0.97%	0.01%	0.02%	78.23%	0.15%
50:L	0.05%	0.02%	0.01%	0.00%	1.35%	0.04%	0.78%	0.81%	0.00%	87.22%	0.02%	0.02%	7.04%	0.07%	0.88%	0.10%	0.07%	1.53%	0.00%	0.01%
51:A	58.63%	0.01%	0.67%	6.78%	0.03%	1.86%	0.01%	0.57%	0.30%	0.62%	0.04%	0.02%	7.40%	0.17%	0.38%	5.48%	15.34%	1.68%	0.01%	0.01%
52:L	0.10%	0.06%	0.03%	0.00%	2.47%	0.00%	0.83%	0.69%	0.00%	87.04%	0.03%	0.01%	4.10%	0.04%	1.24%	0.01%	0.15%	3.11%	0.00%	0.02%
53:I	0.39%	0.09%	0.10%	0.01%	3.45%	0.13%	0.08%	71.41%	0.10%	3.43%	1.52%	2.06%	0.53%	0.00%	0.17%	2.87%	8.54%	5.07%	0.00%	0.04%
54:Y	0.24%	9.16%	5.02%	0.09%	10.56%	0.26%	7.51%	0.16%	0.18%	0.87%	0.00%	3.09%	0.34%	1.37%	0.43%	9.88%	0.23%	0.22%	0.11%	50.28%
55:W	0.01%	2.78%	0.01%	0.00%	0.05%	2.34%	0.01%	0.00%	0.01%	0.38%	0.01%	0.00%	0.01%	0.01%	5.11%	0.45%	0.01%	0.01%	88.65%	0.11%
56:D	3.94%	0.23%	51.75%	4.77%	0.19%	9.56%	6.24%	0.71%	0.54%	0.32%	0.01%	13.34%	0.34%	0.49%	0.42%	1.89%	1.07%	1.93%	0.00%	2.26%
57:D	1.99%	0.27%	67.34%	5.66%	0.28%	3.73%	6.16%	0.28%	0.29%	0.21%	0.00%	7.33%	0.23%	0.45%	0.31%	1.06%	0.53%	0.93%	0.00%	2.94%
58:D	2.80%	0.29%	64.72%	6.49%	0.34%	4.19%	6.02%	0.35%	0.49%	0.23%	0.01%	7.27%	0.28%	0.57%	0.35%	0.99%	0.62%	1.18%	0.00%	2.81%
59:K	0.40%	0.02%	0.61%	7.46%	0.02%	0.75%	0.25%	0.57%	66.22%	0.73%	2.90%	4.74%	0.21%	3.23%	6.78%	3.94%	0.38%	0.21%	0.00%	0.00%
60:R	0.14%	6.39%	0.24%	0.02%	0.13%	1.47%	4.49%	0.09%	0.08%	1.03%	0.01%	0.90%	1.70%	0.20%	79.84%	2.15%	0.23%	0.08%	0.45%	0.38%
61:Y	0.10%	8.67%	2.10%	0.02%	3.63%	0.16%	7.45%	0.09%	0.16%	0.61%	0.00%	3.34%	0.33%	0.29%	0.47%	7.04%	0.20%	0.04%	0.04%	65.26%
62:S	0.11%	3.07%	0.19%	0.01%	0.02%	5.12%	0.06%	0.61%	0.21%	0.02%	0.03%	1.81%	0.04%	0.00%	22.46%	64.54%	1.42%	0.05%	0.16%	0.05%
63:P	0.67%	0.00%	0.00%	0.03%	0.00%	0.01%	0.09%	0.02%	0.01%	1.52%	0.00%	0.00%	94.24%	0.65%	0.75%	1.22%	0.75%	0.04%	0.00%	0.00%
64:S	1.46%	5.10%	0.05%	0.00%	4.02%	0.15%	0.11%	0.16%	0.00%	0.42%	0.00%	0.05%	4.05%	0.00%	0.29%	81.51%	1.41%	0.14%	0.06%	0.99%
65:L	0.08%	0.00%	0.00%	0.06%	0.05%	0.05%	0.09%	0.05%	0.01%	90.02%	0.65%	0.00%	3.16%	1.62%	1.48%	0.08%	0.03%	2.57%	0.04%	0.00%
66:K	0.18%	0.00%	0.11%	3.80%	0.00%	0.35%	0.09%	0.27%	71.08%	0.16%	4.77%	1.74%	0.09%	2.72%	10.25%	0.15%	3.98%	0.16%	0.08%	0.01%
67:S	0.12%	0.51%	0.31%	0.06%	0.02%	2.25%	0.13%	2.84%	1.95%	0.06%	0.19%	4.65%	0.06%	0.03%	34.87%	48.80%	2.35%	0.70%	0.06%	0.04%
68:R	0.03%	0.39%	0.02%	0.06%	0.00%	4.41%	0.01%	0.13%	0.71%	0.02%	0.22%	0.23%	0.02%	0.02%	78.92%	12.88%	0.50%	0.03%	1.38%	0.00%
69:L	0.05%	0.03%	0.01%	0.00%	1.95%	0.02%	0.51%	0.53%	0.00%	90.88%	0.01%	0.05%	3.23%	0.01%	1.04%	0.06%	0.02%	1.57%	0.00%	0.00%
70:T	4.97%	0.06%	0.06%	0.00%	0.10%	0.10%	0.04%	3.21%	0.05%	0.15%	0.05%	1.00%	3.50%	0.03%	0.44%	4.59%	81.36%	0.29%	0.00%	0.02%
71:I	0.29%	0.10%	0.06%	0.01%	4.27%	0.14%	0.03%	73.35%	0.16%	4.91%	2.23%	0.83%	0.18%	0.00%	0.60%	1.63%	3.19%	8.00%	0.00%	0.03%
72:T	5.04%	0.06%	0.06%	0.00%	0.11%	0.11%	0.04%	3.32%	0.10%	0.17%	0.08%	1.02%	3.49%	0.00%	0.45%	4.71%	80.94%	0.28%	0.00%	0.02%
73:K	0.51%	0.00%	0.18%	3.32%	0.00%	0.29%	0.11%	0.38%	57.69%	0.28%	4.34%	1.50%	0.42%	3.82%	11.37%	0.59%	14.87%	0.20%	0.09%	0.02%
74:D	2.17%	0.23%	83.67%	5.70%	0.02%	2.81%	0.67%	0.06%	0.23%	0.02%	0.00%	2.00%	0.02%	0.06%	0.06%	0.12%	0.08%	1.92%	0.00%	0.35%
75:T	7.28%	0.08%	0.09%	0.01%	0.13%	0.15%	0.05%	4.03%	0.12%	0.11%	0.17%	1.18%	5.00%	0.00%	0.19%	6.89%	74.16%	0.32%	0.00%	0.00%
76:S	1.71%	1.35%	0.02%	0.00%	1.15%	0.03%	0.04%	0.02%	0.00%	0.33%	0.00%	0.00%	4.63%	0.00%	0.03%	89.47%	0.70%	0.04%	0.06%	0.40%
77:K	0.24%	0.02%	0.37%	3.63%	0.00%	0.19%	0.42%	2.48%	60.36%	0.19%	0.24%	9.42%	0.26%	3.94%	11.28%	1.02%	5.70%	0.11%	0.00%	0.13%
78:N	0.22%	0.47%	6.34%	0.85%	0.33%	0.64%	3.97%	4.39%	11.11%	0.30%	0.25%	56.69%	0.15%	0.47%	1.38%	6.28%	2.70%	0.38%	0.01%	3.08%
79:Q	0.08%	0.00%	0.10%	2.27%	0.00%	0.07%	3.68%	0.01%	2.68%	1.32%	0.06%	0.12%	3.50%	82.62%	3.08%	0.09%	0.18%	0.05%	0.04%	0.05%
80:V	4.58%	0.00%	0.12%	3.13%	0.06%	2.69%	0.00%	0.88%	0.20%	6.20%	6.35%	0.01%	0.11%	0.00%	0.20%	0.07%	0.36%	74.99%	0.01%	0.00%
81:V	3.71%	0.01%	0.80%	0.07%	0.61%	1.64%	0.01%	2.73%	0.01%	1.92%	0.16%	0.02%	0.07%	0.00%	0.03%	0.06%	0.14%	88.00%	0.00%	0.00%
82:L	0.21%	0.07%	0.06%	0.02%	3.75%	0.00%	0.87%	0.21%	0.01%	76.60%	0.14%	0.04%	2.15%	0.27%	0.88%	0.41%	0.21%	3.89%	0.00%	0.03%
83:T	8.08%	0.02%	0.09%	1.31%	0.08%	0.43%	0.02%	4.57%	1.49%	1.52%	0.30%	0.44%	4.50%	0.02%	6.01%	5.86%	64.57%	0.60%	0.01%	0.01%
84:M	0.30%	0.00%	0.00%	0.24%	0.06%	0.25%	0.00%	2.06%	1.49%	13.18%	64.77%	0.02%	0.21%	0.12%	2.11%	0.13%	2.96%	12.02%	0.00%	0.02%
85:T	5.25%	0.03%	0.10%	0.00%	0.04%	0.06%	0.06%	4.06%	0.22%	0.10%	0.07%	2.23%	2.62%	0.00%	0.51%	2.92%	81.53%	0.20%	0.00%	0.02%
86:N	0.36%	0.29%	2.51%	0.20%	0.13%	0.40%	2.38%	2.70%	5.25%	0.14%	0.07%	61.88%	0.27%	0.20%	3.49%	9.23%	8.42%	0.16%	0.00%	1.92%
87:M	0.30%	0.01%	0.01%	0.16%	0.13%	0.30%	0.00%	8.17%	1.27%	8.42%	61.49%	0.07%	0.14%	0.05%	9.12%	0.63%	3.32%	6.28%	0.13%	0.00%
88:D	2.76%	0.03%	84.82%	3.31%	0.01%	5.20%	0.64%	0.06%	0.18%	0.02%	0.00%	1.43%	0.02%	0.04%	0.05%	0.12%	0.06%	1.01%	0.00%	0.25%
89:P	1.18%	0.05%	0.02%	0.00%	0.07%	0.05%	0.60%	0.06%	0.00%	1.49%	0.00%	0.02%	91.52%	0.04%	1.14%	2.21%	1.45%	0.09%	0.00%	0.01%
90:V	3.01%	0.00%	0.12%	2.40%	0.05%	2.24%	0.00%	0.49%	0.17%	9.41%	3.83%	0.01%	0.21%	0.09%	0.28%	0.13%	0.43%	77.06%	0.05%	0.00%
91:D	2.10%	0.02%	84.60%	5.81%	0.01%	2.63%	0.61%	0.06%	0.20%	0.03%	0.00%	1.44%	0.02%	0.06%	0.06%	0.00%	0.06%	1.96%	0.00%	0.24%
92:T	2.40%	0.00%	0.01%	0.14%	0.01%	0.15%	0.00%	2.98%	1.28%	0.19%	0.19%	0.11%	1.63%	0.03%	4.83%	1.90%	84.04%	0.10%	0.00%	0.00%
93:A	73.02%	0.02%	4.89%	0.35%	0.12%	5.86%	0.02%	0.39%	0.01%	0.37%	0.01%	0.08%	0.98%	0.00%	0.06%	0.07%	1.69%	11.56%	0.00%	0.01%
94:T	4.68%	0.00%	0.01%	0.08%	0.01%	0.10%	0.00%	1.84%	0.76%	0.16%	0.12%	0.11%	3.98%	0.03%	2.20%	4.00%	81.73%	0.16%	0.00%	0.00%
95:Y	0.12%	8.21%	3.08%	0.12%	9.85%	0.21%	9.13%	0.27%	0.07%	1.06%	0.00%	2.93%	0.05%	0.39%	0.73%	9.19%	0.33%	0.17%	0.16%	53.48%
96:Y	0.18%	8.91%	5.05%	0.05%	5.98%	0.30%	8.16%	0.14%	0.28%	0.88%	0.01%	3.01%	0.29%	0.37%	0.46%	5.09%	0.14%	0.14%	0.23%	60.32%
97:C	0.08%	78.06%	0.12%	0.01%	3.30%	0.99%	0.27%	0.03%	0.00%	0.26%	0.00%	0.12%	0.23%	0.01%	2.40%	7.39%	0.06%	0.02%	2.09%	4.56%
98:A	78.64%	0.00%	0.43%	8.56%	0.01%	1.92%	0.01%	0.23%	0.15%	0.34%	0.02%	0.01%	1.46%	0.01%	0.14%	2.01%	4.51%	1.46%	0.00%	0.00%
99:H	0.05%	0.20%	1.92%	0.17%	0.13%	0.11%	81.13%	0.06%	0.13%	1.66%	0.00%	1.97%	1.59%	5.86%	2.35%	0.19%	0.06%	0.05%	0.00%	2.38%
100:R	0.03%	0.08%	0.01%	0.06%	0.00%	4.76%	0.00%	0.29%	0.59%	0.02%	0.02%	0.09%	0.02%	0.02%	90.20%	3.40%	0.35%	0.01%	0.03%	0.00%
101:R	0.01%	0.01%	0.00%	0.01%	0.00%	0.70%	0.03%	0.00%	0.54%	0.00%	0.00%	0.76%	0.01%	1.39%	95.33%	0.02%	0.01%	0.00%	1.19%	0.00%
102:G	0.25%	0.01%	0.02%	0.48%	0.00%	96.25%	0.00%	0.00%	0.02%	0.01%	0.01%	0.01%	0.01%	0.01%	2.21%	0.03%	0.02%	0.29%	0.37%	0.00%
103:P	0.31%	0.00%	0.00%	0.01%	0.00%	0.00%	0.05%	0.01%	0.01%	0.55%	0.00%	0.00%	95.83%	0.41%	0.53%	1.49%	0.79%	0.01%	0.00%	0.00%
104:T	4.01%	0.14%	0.43%	0.04%	0.43%	0.44%	0.33%	11.62%	0.34%	0.54%	0.22%	5.58%	2.65%	0.02%	1.96%	6.93%	63.03%	1.04%	0.01%	0.26%
105:T	4.55%	0.00%	0.02%	0.29%	0.01%	0.07%	0.01%	2.24%	1.75%	0.16%	0.19%	0.08%	3.99%	0.06%	2.00%	3.89%	80.56%	0.13%	0.00%	0.00%
106:L	0.07%	0.06%	0.03%	0.00%	2.03%	0.04%	0.95%	0.58%	0.00%	87.08%	0.04%	0.01%	4.64%	0.03%	1.32%	0.09%	0.04%	2.95%	0.00%	0.00%
107:F	0.07%	1.95%	0.02%	0.00%	75.83%	0.04%	0.06%	0.74%	0.00%	12.30%	0.02%	0.00%	0.47%	0.01%	0.09%	6.74%	0.09%	0.86%	0.07%	0.61%
108:G	1.45%	0.00%	0.42%	3.65%	0.00%	90.80%	0.00%	0.06%	0.07%	0.09%	0.00%	0.01%	0.08%	0.03%	2.45%	0.13%	0.18%	0.55%	0.01%	0.00%
109:V	2.10%	0.00%	0.06%	1.61%	0.10%	1.44%	0.00%	0.46%	0.13%	12.28%	5.00%	0.00%	0.18%	0.11%	0.42%	0.18%	0.24%	75.58%	0.08%	0.00%
110:P	3.11%	0.39%	0.03%	0.00%	0.29%	0.06%	0.58%	0.09%	0.00%	1.32%	0.00%	0.04%	82.05%	0.03%	1.41%	7.19%	3.21%	0.10%	0.01%	0.07%
111:M	0.73%	0.01%	0.02%	0.41%	0.34%	0.41%	0.01%	5.45%	3.36%	17.67%	48.66%	0.14%	0.48%	0.20%	5.18%	0.68%	7.69%	8.09%	0.27%	0.00%
112:V	5.82%	0.06%	2.40%	0.11%	1.82%	3.76%	0.11%	8.34%	0.15%	5.84%	0.22%	0.23%	0.77%	0.00%	0.07%	0.47%	1.24%	68.67%	0.00%	0.03%
113:R	0.02%	0.09%	0.00%	0.08%	0.00%	7.19%	0.02%	0.00%	0.03%	0.14%	0.01%	0.00%	0.20%	0.27%	80.62%	0.06%	0.02%	0.03%	11.21%	0.00%
114:G	0.51%	0.00%	0.15%	2.29%	0.00%	79.17%	0.00%	0.08%	0.19%	0.05%	0.00%	0.02%	0.04%	0.04%	16.41%	0.59%	0.17%	0.26%	0.01%	0.00%
115:P	1.70%	0.01%	0.02%	0.39%	0.01%	0.09%	0.11%	0.13%	0.05%	3.68%	0.01%	0.01%	83.29%	1.46%	2.18%	4.34%	2.34%	0.17%	0.00%	0.00%
116:V	2.38%	0.00%	0.08%	2.16%	0.04%	1.88%	0.00%	0.52%	0.19%	6.73%	4.47%	0.00%	0.10%	0.05%	0.11%	0.06%	0.27%	81.15%	0.02%	0.00%
117:N	0.27%	0.11%	4.12%	0.28%	0.08%	0.48%	2.65%	3.15%	9.00%	0.12%	0.06%	64.25%	0.18%	0.19%	1.15%	7.84%	5.21%	0.15%	0.00%	0.71%
118:G	9.59%	0.72%	14.71%	1.36%	0.13%	59.39%	1.50%	0.39%	0.08%	0.28%	0.01%	1.44%	0.76%	0.06%	1.23%	2.17%	1.96%	3.85%	0.03%	0.35%
119:M	0.65%	0.00%	0.01%	0.02%	0.41%	0.28%	0.00%	6.58%	3.36%	16.77%	47.88%	0.09%	0.53%	0.19%	5.38%	0.80%	7.85%	8.24%	0.35%	0.00%
120:D	3.67%	0.03%	81.21%	2.18%	0.02%	8.80%	0.63%	0.06%	0.05%	0.13%	0.02%	1.43%	0.03%	0.06%	0.06%	0.17%	0.09%	1.19%	0.00%	0.26%
121:V	3.66%	0.02%	1.11%	0.04%	0.93%	1.69%	0.02%	2.79%	0.01%	2.86%	0.20%	0.03%	0.10%	0.00%	0.03%	0.08%	0.17%	86.25%	0.00%	0.01%
122:W	0.01%	0.63%	0.00%	0.02%	0.01%	2.11%	0.00%	0.00%	0.01%	0.56%	0.00%	0.00%	0.02%	0.01%	5.13%	0.55%	0.01%	0.01%	90.92%	0.02%
123:G	0.38%	0.39%	0.55%	0.54%	0.00%	92.37%	0.02%	0.03%	0.03%	0.02%	0.01%	0.06%	0.02%	0.01%	3.47%	1.53%	0.05%	0.33%	0.20%	0.00%
124:Q	0.03%	0.01%	0.13%	0.72%	0.01%	0.05%	18.34%	0.04%	0.61%	1.93%	0.00%	0.94%	3.26%	68.53%	5.09%	0.08%	0.07%	0.04%	0.00%	0.12%
125:G	1.26%	0.01%	0.11%	6.33%	0.00%	88.64%	0.00%	0.00%	0.09%	0.06%	0.05%	0.00%	0.03%	0.00%	1.28%	0.04%	0.06%	1.66%	0.30%	0.00%
126:T	4.99%	0.02%	0.07%	0.01%	0.05%	0.06%	0.04%	4.13%	0.14%	0.09%	0.07%	2.35%	2.71%	0.00%	0.49%	2.86%	81.72%	0.18%	0.00%	0.01%
127:T	4.73%	0.00%	0.01%	0.09%	0.00%	0.00%	0.00%	0.13%	0.99%	0.10%	0.82%	0.76%	3.61%	0.04%	0.68%	3.46%	85.00%	0.21%	0.04%	0.00%
128:V	3.60%	0.01%	1.08%	0.08%	0.40%	1.17%	0.01%	1.49%	0.00%	1.50%	0.05%	0.02%	0.06%	0.00%	0.02%	0.06%	0.15%	90.28%	0.00%	0.00%
129:T	4.82%	0.06%	0.12%	0.00%	0.10%	0.16%	0.04%	2.65%	0.07%	0.14%	0.03%	0.99%	3.52%	0.00%	0.19%	4.90%	81.83%	0.35%	0.00%	0.03%
130:V	3.84%	0.01%	1.08%	0.06%	0.56%	1.73%	0.02%	1.35%	0.00%	2.22%	0.09%	0.00%	0.06%	0.00%	0.02%	0.04%	0.17%	88.81%	0.00%	0.00%
131:S	2.17%	1.40%	0.04%	0.00%	1.50%	0.04%	0.10%	0.03%	0.00%	0.35%	0.01%	0.04%	5.85%	0.00%	0.09%	86.36%	0.94%	0.01%	0.07%	0.94%
132:S	1.16%	0.22%	0.00%	0.03%	0.39%	0.04%	0.02%	0.04%	0.02%	4.43%	0.00%	0.01%	3.63%	0.10%	0.12%	88.70%	0.72%	0.05%	0.11%	0.20%