	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:E	4.61%	0.01%	5.47%	69.25%	0.01%	4.60%	0.28%	0.03%	4.29%	0.41%	0.25%	0.31%	0.28%	4.29%	0.54%	0.17%	0.28%	4.62%	0.14%	0.17%
2:V	3.93%	0.01%	0.12%	2.94%	0.21%	2.63%	0.00%	1.94%	0.33%	6.76%	5.75%	0.02%	0.16%	0.09%	0.29%	0.13%	0.53%	74.12%	0.03%	0.00%
3:Q	0.05%	0.03%	0.18%	0.97%	0.02%	0.09%	10.02%	0.05%	4.26%	2.37%	0.07%	0.71%	1.77%	75.03%	3.67%	0.12%	0.17%	0.07%	0.22%	0.11%
4:L	0.60%	0.01%	0.01%	0.35%	0.44%	0.28%	0.03%	0.55%	0.35%	74.14%	5.36%	0.01%	2.23%	0.78%	1.05%	0.77%	0.41%	12.43%	0.17%	0.00%
5:V	4.94%	0.00%	0.17%	3.39%	0.05%	3.00%	0.00%	1.06%	0.28%	6.85%	6.44%	0.01%	0.21%	0.07%	0.26%	0.10%	0.54%	72.60%	0.02%	0.00%
6:E	4.54%	0.00%	2.90%	77.74%	0.00%	6.49%	0.10%	0.01%	3.52%	0.15%	0.19%	0.13%	0.14%	1.50%	0.26%	0.05%	0.31%	1.93%	0.02%	0.01%
7:S	1.51%	1.65%	0.02%	0.00%	1.70%	0.04%	0.03%	0.04%	0.00%	0.19%	0.00%	0.02%	3.44%	0.00%	0.06%	89.47%	1.25%	0.04%	0.04%	0.50%
8:G	0.47%	0.01%	0.08%	2.06%	0.00%	93.71%	0.00%	0.00%	0.05%	0.03%	0.02%	0.00%	0.01%	0.04%	2.27%	0.03%	0.03%	0.53%	0.65%	0.00%
9:G	2.38%	0.01%	0.26%	6.73%	0.00%	68.59%	0.01%	0.24%	0.51%	0.20%	0.02%	0.03%	0.17%	0.10%	16.93%	2.14%	0.80%	0.86%	0.01%	0.00%
10:G	3.42%	2.64%	6.68%	0.92%	0.11%	70.88%	0.35%	0.27%	0.04%	0.14%	0.00%	0.67%	0.49%	0.02%	3.46%	6.91%	0.88%	1.90%	0.03%	0.18%
11:V	3.62%	0.00%	0.16%	2.71%	0.18%	2.50%	0.01%	0.76%	0.16%	9.60%	3.18%	0.01%	0.19%	0.10%	0.24%	0.17%	0.31%	76.03%	0.09%	0.00%
12:V	6.60%	0.00%	0.88%	10.56%	0.43%	6.71%	0.03%	12.32%	1.51%	13.85%	1.30%	0.14%	0.99%	0.41%	1.49%	0.54%	2.06%	40.15%	0.00%	0.01%
13:R	0.03%	0.37%	0.00%	0.07%	0.01%	5.09%	0.10%	0.00%	0.46%	0.03%	0.00%	0.62%	1.02%	80.74%	0.36%	0.03%	0.04%	0.04%	11.15%	0.01%
14:P	0.73%	0.03%	0.01%	0.00%	0.03%	0.01%	0.62%	0.02%	0.00%	1.63%	0.00%	0.01%	93.42%	0.07%	1.31%	1.19%	0.90%	0.03%	0.05%	0.01%
15:G	0.37%	0.01%	0.05%	1.71%	0.00%	94.36%	0.00%	0.00%	0.04%	0.03%	0.02%	0.00%	0.01%	0.03%	2.26%	0.03%	0.03%	0.42%	0.64%	0.00%
16:G	1.27%	0.01%	0.21%	4.86%	0.00%	88.92%	0.01%	0.01%	0.29%	0.06%	0.07%	0.01%	0.06%	0.13%	2.27%	0.06%	0.10%	1.25%	0.40%	0.00%
17:S	1.78%	2.18%	0.07%	0.00%	1.95%	0.05%	0.09%	0.05%	0.01%	0.31%	0.00%	0.11%	4.17%	0.00%	0.07%	87.15%	0.86%	0.07%	0.05%	1.03%
18:L	0.04%	0.00%	0.00%	0.03%	0.11%	0.02%	0.07%	0.05%	0.02%	90.95%	0.63%	0.00%	3.31%	1.81%	1.49%	0.05%	0.05%	1.33%	0.02%	0.00%
19:R	0.05%	0.01%	0.01%	0.11%	0.01%	4.28%	0.00%	0.44%	1.49%	0.02%	0.04%	0.11%	0.04%	0.04%	90.90%	1.34%	1.07%	0.02%	0.02%	0.00%
20:L	0.12%	0.15%	0.06%	0.03%	0.00%	2.65%	0.04%	1.10%	0.86%	0.00%	84.91%	0.03%	0.05%	5.19%	0.04%	1.49%	0.14%	3.18%	0.00%	0.02%
21:S	2.42%	1.55%	0.04%	0.01%	1.68%	0.05%	0.12%	0.04%	0.00%	0.43%	0.00%	0.00%	6.56%	0.00%	0.11%	84.67%	1.07%	0.09%	0.06%	1.04%
22:C	0.11%	72.08%	0.17%	0.01%	3.35%	1.81%	0.53%	0.07%	0.01%	0.59%	0.00%	0.21%	0.35%	0.02%	4.15%	9.43%	0.12%	0.05%	2.17%	4.76%
23:A	85.46%	0.00%	0.15%	2.49%	0.01%	0.60%	0.00%	0.35%	0.10%	0.20%	0.03%	0.01%	1.87%	0.02%	0.10%	2.56%	5.35%	0.68%	0.00%	0.00%
24:A	80.31%	0.03%	3.93%	0.21%	0.11%	3.24%	0.02%	0.29%	0.01%	0.28%	0.01%	0.08%	1.06%	0.00%	0.02%	0.50%	1.77%	8.07%	0.00%	0.03%
25:S	1.31%	2.53%	0.04%	0.00%	1.93%	0.09%	0.06%	0.04%	0.00%	0.36%	0.00%	0.03%	4.56%	0.00%	0.10%	87.25%	0.86%	0.10%	0.05%	0.68%
26:G	4.46%	0.02%	0.93%	10.46%	0.00%	76.26%	0.03%	0.17%	0.46%	0.17%	0.01%	0.06%	0.21%	0.19%	4.12%	0.17%	0.48%	1.77%	0.01%	0.01%
27:F	0.09%	2.21%	0.06%	0.00%	71.07%	0.09%	0.14%	1.27%	0.00%	18.41%	0.05%	0.00%	0.45%	0.01%	0.24%	2.86%	0.05%	2.15%	0.06%	0.70%
28:T	5.48%	0.09%	0.11%	0.01%	0.17%	0.16%	0.06%	3.86%	0.15%	0.23%	0.28%	1.26%	3.87%	0.01%	0.38%	5.31%	78.06%	0.47%	0.00%	0.05%
29:F	0.12%	2.00%	0.04%	0.00%	63.86%	0.06%	0.13%	1.29%	0.00%	21.76%	0.02%	0.00%	1.17%	0.01%	0.16%	7.07%	0.17%	1.38%	0.06%	0.63%
30:D	2.36%	0.09%	79.17%	6.89%	0.10%	4.67%	1.51%	0.13%	0.17%	0.11%	0.00%	1.86%	0.16%	0.17%	0.09%	0.38%	0.34%	1.11%	0.00%	0.70%
31:D	2.83%	0.33%	63.20%	5.27%	0.04%	5.07%	6.72%	0.39%	0.32%	0.30%	0.01%	7.76%	0.33%	0.41%	0.38%	1.21%	0.81%	1.29%	0.01%	2.98%
32:Y	0.25%	9.56%	4.85%	0.28%	10.56%	0.34%	9.10%	0.17%	0.26%	0.96%	0.01%	3.48%	0.44%	0.71%	0.69%	9.78%	0.26%	0.18%	0.15%	47.98%
33:G	5.71%	0.43%	12.06%	0.41%	0.04%	76.05%	0.08%	0.08%	0.01%	0.05%	0.00%	0.16%	0.07%	0.01%	0.83%	0.83%	0.16%	2.90%	0.01%	0.09%
34:M	0.51%	0.00%	0.01%	0.27%	0.19%	0.28%	0.00%	5.61%	4.05%	8.51%	59.65%	0.35%	0.12%	6.46%	0.33%	7.06%	6.40%	0.09%	0.11%	0.00%
35:S	0.67%	0.96%	1.15%	0.10%	0.08%	3.96%	0.57%	4.28%	3.22%	0.18%	0.52%	17.83%	0.31%	0.08%	16.08%	38.01%	11.41%	0.30%	0.12%	0.19%
36:W	0.01%	2.86%	0.00%	0.01%	0.06%	1.88%	0.01%	0.00%	0.00%	0.63%	0.00%	0.00%	0.03%	0.01%	5.29%	0.77%	0.01%	0.01%	88.27%	0.12%
37:V	4.16%	0.01%	0.86%	0.05%	0.42%	1.83%	0.01%	1.84%	0.01%	0.72%	0.05%	0.02%	0.04%	0.00%	0.02%	0.05%	0.13%	89.78%	0.00%	0.00%
38:R	0.03%	2.69%	0.09%	0.00%	0.01%	1.50%	1.57%	0.00%	0.00%	0.42%	0.00%	0.03%	0.71%	0.04%	92.32%	0.42%	0.01%	0.02%	0.06%	0.08%
39:Q	0.03%	0.00%	0.04%	0.51%	0.00%	0.02%	9.16%	0.02%	0.40%	2.36%	0.00%	0.08%	5.47%	76.95%	4.79%	0.07%	0.05%	0.03%	0.00%	0.04%
40:A	53.13%	0.30%	3.04%	0.16%	0.32%	6.99%	0.18%	1.69%	0.01%	0.59%	0.03%	0.43%	5.48%	0.00%	0.29%	5.31%	13.95%	8.02%	0.00%	0.06%
41:P	1.78%	0.01%	0.00%	0.05%	0.01%	0.01%	0.18%	0.05%	0.01%	3.41%	0.00%	0.00%	90.55%	0.62%	0.64%	1.88%	0.71%	0.07%	0.00%	0.00%
42:G	1.34%	0.03%	0.37%	6.38%	0.00%	87.98%	0.01%	0.01%	0.12%	0.09%	0.06%	0.01%	0.04%	0.11%	1.32%	0.11%	0.06%	1.76%	0.20%	0.00%
43:K	0.17%	0.00%	0.04%	6.68%	0.00%	0.18%	0.03%	0.04%	80.37%	0.11%	0.81%	0.65%	0.11%	5.46%	3.26%	0.08%	1.88%	0.09%	0.02%	0.01%
44:G	0.38%	0.07%	0.18%	0.66%	0.00%	95.46%	0.00%	0.01%	0.02%	0.02%	0.02%	0.01%	0.01%	0.01%	2.19%	0.31%	0.02%	0.33%	0.31%	0.00%
45:L	0.06%	0.00%	0.00%	0.03%	0.04%	0.02%	0.04%	0.08%	0.02%	92.18%	0.45%	0.00%	3.53%	1.20%	1.08%	0.08%	0.04%	1.15%	0.01%	0.00%
46:E	4.42%	0.01%	11.96%	68.62%	0.01%	6.30%	0.26%	0.04%	3.28%	0.16%	0.17%	0.60%	0.14%	1.38%	0.26%	0.09%	0.33%	1.88%	0.02%	0.08%
47:W	0.03%	2.82%	0.00%	0.04%	0.07%	3.31%	0.00%	0.00%	0.03%	1.21%	0.02%	0.00%	0.04%	0.02%	7.53%	1.27%	0.02%	0.02%	83.49%	0.06%
48:V	6.82%	0.01%	2.76%	0.10%	0.41%	3.63%	0.02%	1.86%	0.01%	0.79%	0.11%	0.06%	0.05%	0.00%	0.02%	0.06%	0.13%	83.17%	0.00%	0.01%
49:S	1.39%	2.62%	0.04%	0.00%	2.09%	0.09%	0.05%	0.04%	0.00%	0.25%	0.00%	0.03%	3.00%	0.00%	0.08%	88.58%	0.88%	0.09%	0.06%	0.69%
50:G	9.88%	0.69%	14.70%	1.57%	0.16%	60.80%	0.89%	0.37%	0.38%	0.20%	0.01%	1.14%	0.71%	0.05%	1.11%	2.10%	1.40%	3.67%	0.03%	0.45%
51:I	0.92%	0.23%	0.27%	0.04%	9.15%	0.35%	0.18%	52.67%	0.19%	10.88%	3.30%	1.31%	1.08%	0.03%	0.58%	3.15%	6.51%	9.06%	0.01%	0.08%
52:N	0.78%	0.41%	10.73%	0.67%	0.64%	0.82%	4.12%	4.24%	6.12%	0.55%	0.19%	48.40%	4.31%	1.05%	0.95%	10.02%	7.20%	0.49%	0.01%	2.20%
53:W	0.20%	2.43%	0.02%	0.10%	0.11%	2.70%	0.02%	0.00%	0.04%	0.80%	0.02%	0.01%	0.05%	0.04%	5.72%	0.96%	0.04%	0.04%	86.60%	0.26%
54:N	0.42%	0.28%	4.80%	0.68%	0.14%	1.07%	4.01%	4.10%	8.83%	0.22%	0.10%	51.27%	0.27%	0.61%	1.47%	12.89%	7.32%	0.21%	0.00%	1.31%
55:G	4.40%	1.81%	6.82%	0.47%	0.12%	75.83%	0.40%	0.23%	0.03%	0.14%	0.00%	0.53%	0.29%	0.02%	2.06%	4.51%	0.57%	1.52%	0.03%	0.22%
56:G	11.89%	1.31%	15.74%	1.61%	0.27%	55.81%	0.90%	0.44%	0.08%	0.37%	0.02%	1.22%	0.40%	0.05%	1.84%	2.97%	0.92%	3.58%	0.08%	0.51%
57:S	0.61%	2.06%	1.37%	0.18%	0.61%	7.89%	0.53%	5.51%	1.01%	0.56%	0.16%	9.50%	0.23%	0.05%	30.26%	32.90%	4.81%	0.99%	0.25%	0.53%
58:T	4.45%	0.00%	0.01%	0.47%	0.01%	0.30%	0.01%	3.72%	1.75%	0.40%	0.35%	0.11%	2.86%	0.06%	4.99%	3.22%	77.01%	0.29%	0.00%	0.00%
59:G	5.82%	1.48%	12.82%	0.68%	0.10%	65.95%	0.40%	0.30%	0.02%	0.28%	0.01%	0.55%	0.48%	0.02%	2.16%	4.73%	0.92%	3.08%	0.03%	0.19%
60:Y	0.26%	9.91%	3.16%	0.22%	10.97%	0.25%	8.52%	0.15%	0.14%	1.20%	0.00%	2.24%	0.48%	0.43%	0.66%	10.19%	0.15%	0.19%	0.18%	50.67%
61:A	60.30%	0.01%	0.17%	2.01%	0.02%	0.58%	0.01%	1.39%	0.35%	0.58%	0.09%	0.04%	9.95%	0.08%	0.36%	6.05%	16.96%	0.85%	0.01%	0.00%
62:D	1.17%	0.02%	90.72%	4.03%	0.02%	1.83%	0.37%	0.03%	0.12%	0.02%	0.00%	0.67%	0.02%	0.06%	0.02%	0.05%	0.03%	0.50%	0.00%	0.31%
63:S	1.43%	2.69%	0.04%	0.00%	2.16%	0.09%	0.05%	0.05%	0.00%	0.22%	0.00%	0.03%	5.30%	0.00%	0.09%	85.92%	1.13%	0.10%	0.04%	0.68%
64:V	3.85%	0.00%	0.13%	2.81%	0.07%	2.48%	0.00%	0.42%	0.11%	10.60%	4.64%	0.00%	0.25%	0.13%	0.17%	0.16%	0.32%	73.80%	0.06%	0.00%
65:K	0.11%	0.00%	0.04%	4.78%	0.00%	0.18%	0.02%	0.03%	84.57%	0.06%	0.85%	0.69%	0.06%	3.36%	3.16%	0.08%	1.92%	0.05%	0.03%	0.00%
66:G	0.93%	0.51%	1.87%	0.05%	0.00%	93.27%	0.02%	0.02%	0.00%	0.00%	0.00%	0.09%	0.01%	0.00%	0.71%	1.88%	0.05%	0.55%	0.01%	0.01%
67:R	0.04%	0.02%	0.00%	0.04%	0.00%	0.27%	1.14%	0.01%	0.02%	1.90%	0.00%	0.00%	6.98%	5.54%	83.88%	0.10%	0.04%	0.03%	0.02%	0.01%
68:F	0.09%	2.18%	0.06%	0.00%	71.11%	0.09%	0.13%	1.27%	0.00%	18.36%	0.04%	0.00%	0.47%	0.01%	0.24%	2.85%	0.05%	2.19%	0.06%	0.71%
69:T	5.63%	0.08%	0.09%	0.01%	0.14%	0.14%	0.06%	3.65%	0.07%	0.20%	0.07%	1.19%	3.90%	0.00%	0.57%	5.22%	78.58%	0.37%	0.00%	0.00%
70:I	0.39%	0.10%	0.09%	0.00%	4.51%	0.14%	0.06%	67.00%	0.32%	5.57%	4.75%	1.52%	0.27%	0.01%	0.32%	1.66%	4.50%	8.73%	0.01%	0.05%
71:S	1.22%	1.49%	0.03%	0.00%	1.34%	0.04%	0.07%	0.03%	0.00%	0.29%	0.00%	0.00%	6.49%	0.00%	0.09%	85.98%	1.07%	0.07%	0.01%	0.46%
72:R	0.11%	0.07%	0.01%	0.11%	0.01%	1.15%	0.01%	0.96%	2.47%	0.06%	0.06%	0.25%	0.12%	0.11%	87.25%	4.34%	2.82%	0.04%	0.05%	0.01%
73:D	3.10%	0.05%	83.41%	1.98%	0.03%	6.58%	0.95%	0.08%	0.16%	0.04%	0.00%	1.20%	0.07%	0.05%	0.06%	0.13%	0.14%	1.58%	0.00%	0.38%
74:N	0.40%	0.32%	4.17%	0.19%	0.15%	0.36%	2.34%	2.52%	3.48%	0.11%	0.11%	68.45%	0.30%	0.13%	0.71%	7.12%	6.88%	0.11%	0.00%	2.14%
75:A	85.92%	0.04%	1.16%	0.05%	0.03%	1.65%	0.02%	0.17%	0.00%	0.08%	0.00%	0.05%	1.75%	0.00%	0.02%	1.28%	4.29%	3.50%	0.00%	0.01%
76:K	0.34%	0.00%	0.17%	4.03%	0.00%	0.28%	0.12%	0.19%	75.99%	0.11%	1.58%	1.92%	0.21%	5.17%	3.14%	0.33%	6.24%	0.13%	0.03%	0.03%
77:N	0.35%	0.07%	2.48%	0.41%	0.05%	0.24%	1.27%	3.84%	13.05%	0.11%	0.46%	60.97%	0.20%	0.23%	1.36%	6.88%	7.39%	0.10%	0.01%	0.53%
78:S	0.91%	2.77%	0.05%	0.00%	2.55%	0.08%	0.08%	0.04%	0.00%	0.39%	0.00%	0.04%	3.13%	0.00%	0.07%	87.16%	1.15%	0.07%	0.07%	1.43%
79:L	0.05%	0.00%	0.01%	0.04%	0.33%	0.02%	0.40%	0.17%	0.03%	86.98%	0.50%	0.00%	5.33%	2.46%	2.22%	0.08%	0.06%	1.31%	0.01%	0.00%
80:Y	0.19%	17.75%	3.76%	0.12%	9.45%	0.36%	7.23%	0.49%	0.14%	0.81%	0.01%	5.15%	0.42%	0.19%	0.62%	9.55%	0.34%	0.21%	0.26%	43.02%
81:L	0.43%	0.02%	0.01%	0.21%	0.83%	0.19%	0.11%	0.51%	0.04%	74.55%	1.55%	0.00%	8.10%	1.33%	2.13%	0.44%	0.20%	9.19%	0.16%	0.00%
82:Q	0.17%	0.02%	0.51%	4.50%	0.02%	0.25%	10.26%	0.50%	16.46%	1.57%	0.00%	3.86%	1.98%	52.69%	5.67%	0.25%	0.96%	0.09%	0.02%	0.16%
83:M	0.45%	0.01%	0.01%	0.30%	0.29%	0.27%	0.00%	7.33%	1.80%	11.81%	58.58%	0.00%	0.23%	0.00%	2.60%	0.35%	3.40%	12.32%	0.09%	0.00%
84:N	0.22%	0.12%	5.02%	0.28%	0.09%	0.30%	3.14%	3.69%	7.43%	0.15%	0.25%	65.56%	0.13%	0.27%	2.42%	5.64%	4.11%	0.26%	0.00%	0.90%
85:Y	0.16%	4.65%	0.16%	0.01%	0.07%	5.36%	0.26%	1.65%	0.10%	0.07%	0.03%	3.71%	0.13%	0.00%	4.96%	73.27%	5.15%	0.09%	0.07%	0.09%
86:L	0.06%	0.00%	0.00%	0.04%	0.09%	0.04%	0.07%	0.01%	0.01%	89.93%	0.52%	0.00%	3.63%	1.82%	1.67%	0.07%	0.02%	1.88%	0.06%	0.00%
87:R	0.17%	0.02%	0.01%	0.24%	0.00%	4.01%	0.01%	0.70%	2.74%	0.04%	0.05%	0.23%	0.08%	0.08%	86.62%	2.42%	2.50%	0.05%	0.03%	0.00%
88:A	52.14%	0.08%	8.25%	0.15%	0.18%	9.74%	0.09%	0.07%	0.02%	0.32%	0.02%	0.20%	2.50%	0.00%	0.09%	1.65%	4.37%	19.41%	0.00%	0.04%
89:E	2.92%	0.00%	7.84%	76.47%	0.00%	4.70%	0.27%	0.02%	2.24%	0.09%	0.12%	0.21%	0.14%	3.03%	0.33%	0.06%	0.47%	1.03%	0.01%	0.05%
90:D	2.58%	0.04%	81.30%	6.49%	0.02%	3.29%	0.74%	0.07%	0.27%	0.03%	0.00%	2.16%	0.03%	0.08%	0.08%	0.15%	0.10%	2.19%	0.00%	0.39%
91:T	5.80%	0.00%	0.00%	0.15%	0.00%	0.08%	0.06%	0.06%	1.20%	0.15%	1.21%	0.00%	4.27%	0.04%	0.90%	4.21%	81.54%	0.34%	0.05%	0.00%
92:A	85.31%	0.01%	0.80%	0.03%	0.01%	0.72%	0.02%	0.09%	0.01%	0.02%	0.00%	0.00%	3.21%	0.00%	0.01%	1.63%	6.99%	1.04%	0.00%	0.01%
93:L	0.04%	0.42%	0.00%	0.00%	20.16%	0.06%	0.03%	0.32%	0.01%	73.27%	0.47%	0.01%	0.42%	0.12%	0.15%	2.80%	0.15%	0.89%	0.65%	0.11%
94:Y	0.19%	17.43%	3.72%	0.09%	9.43%	0.34%	7.27%	0.43%	0.17%	0.91%	0.01%	4.89%	0.43%	0.16%	0.64%	9.59%	0.32%	0.19%	0.27%	43.53%
95:H	0.17%	0.27%	2.44%	0.16%	0.24%	0.17%	71.40%	0.09%	0.25%	4.84%	0.01%	1.46%	4.52%	6.25%	4.93%	0.30%	0.12%	0.19%	0.01%	2.17%
96:C	0.09%	75.71%	0.14%	0.01%	3.72%	1.08%	0.32%	0.05%	0.01%	0.33%	0.00%	0.15%	0.29%	0.01%	2.65%	8.19%	0.09%	0.03%	2.29%	4.86%
97:A	89.23%	0.00%	0.06%	1.13%	0.00%	0.60%	0.00%	0.02%	0.04%	0.19%	0.12%	0.00%	1.87%	0.03%	0.07%	1.32%	2.82%	2.46%	0.03%	0.00%
98:R	0.34%	0.05%	0.02%	0.43%	0.00%	8.00%	0.02%	0.66%	2.45%	0.05%	0.06%	0.25%	0.15%	0.09%	79.86%	5.10%	2.35%	0.07%	0.05%	0.00%
99:G	1.33%	0.01%	0.12%	6.93%	0.00%	87.48%	0.00%	0.00%	0.15%	0.15%	0.07%	0.00%	0.04%	0.11%	1.46%	0.05%	0.06%	1.75%	0.29%	0.00%
100:T	5.77%	0.02%	0.06%	0.01%	0.05%	0.09%	0.03%	3.28%	0.13%	0.09%	0.09%	1.28%	3.09%	0.00%	0.19%	2.79%	82.84%	0.20%	0.00%	0.00%
101:D	4.58%	0.18%	67.13%	5.40%	0.14%	5.75%	5.79%	0.17%	0.22%	0.24%	0.00%	4.85%	0.43%	0.40%	0.37%	0.91%	1.00%	1.08%	0.00%	1.35%
102:Y	0.20%	10.57%	5.19%	0.23%	7.01%	0.38%	8.77%	0.13%	0.19%	0.81%	0.00%	3.33%	0.20%	0.24%	0.59%	6.06%	0.10%	0.19%	0.15%	55.63%
103:T	3.47%	0.10%	0.10%	0.01%	0.21%	0.16%	0.09%	4.68%	0.11%	0.21%	0.21%	1.39%	3.01%	0.01%	0.29%	4.94%	80.59%	0.41%	0.00%	0.00%
104:I	0.75%	0.30%	0.26%	0.10%	10.42%	0.31%	0.16%	51.94%	0.10%	11.11%	0.97%	2.06%	1.06%	0.01%	0.31%	4.04%	6.04%	10.03%	0.01%	0.10%
105:D	2.79%	0.05%	86.58%	1.12%	0.03%	5.26%	0.97%	0.03%	0.11%	0.03%	0.00%	1.03%	0.04%	0.04%	0.05%	0.12%	0.10%	1.18%	0.00%	0.47%
106:D	2.46%	0.04%	84.25%	4.01%	0.02%	4.63%	1.33%	0.04%	0.11%	0.05%	0.00%	1.21%	0.06%	0.11%	0.07%	0.12%	0.13%	1.01%	0.00%	0.34%
107:A	77.38%	0.00%	0.05%	2.73%	0.00%	1.66%	0.00%	0.02%	0.10%	0.38%	0.30%	0.00%	2.49%	0.05%	0.08%	1.66%	6.41%	6.66%	0.02%	0.00%
108:G	3.41%	0.04%	1.93%	12.38%	0.02%	72.84%	0.04%	0.08%	0.39%	0.17%	0.15%	0.07%	0.08%	0.14%	2.06%	0.18%	0.21%	5.54%	0.27%	0.02%
109:I	0.36%	0.05%	0.06%	0.01%	2.03%	0.15%	0.03%	76.17%	0.24%	3.62%	1.82%	0.91%	0.19%	0.01%	0.32%	1.82%	5.95%	6.27%	0.00%	0.00%
110:H	0.06%	0.37%	0.85%	0.10%	0.32%	0.08%	72.54%	0.09%	0.07%	3.95%	0.00%	1.21%	4.76%	6.59%	6.00%	0.43%	0.13%	0.13%	0.01%	2.31%
111:Y	0.22%	9.82%	5.20%	0.19%	6.37%	0.37%	8.78%	0.17%	0.25%	1.20%	0.01%	3.24%	0.35%	0.22%	0.57%	5.65%	0.17%	0.18%	0.25%	56.78%
112:Y	0.15%	9.63%	2.66%	0.14%	10.34%	0.37%	5.70%	0.15%	0.18%	1.02%	0.01%	2.67%	0.48%	0.42%	0.43%	10.64%	0.28%	0.08%	0.15%	54.71%
113:G	5.95%	1.57%	8.85%	0.55%	0.16%	71.87%	0.52%	0.20%	0.03%	0.18%	0.01%	0.82%	0.37%	0.02%	1.83%	3.89%	0.86%	2.00%	0.05%	0.28%
114:S	2.65%	0.06%	0.00%	0.11%	0.07%	0.12%	0.00%	0.00%	12.20%	0.07%	0.00%	0.00%	3.07%	0.02%	0.26%	72.66%	0.57%	0.43%	7.66%	0.01%
115:G	3.24%	0.00%	0.28%	14.43%	0.00%	75.50%	0.01%	0.01%	0.42%	0.14%	0.18%	0.01%	0.07%	0.15%	1.67%	0.05%	0.19%	3.30%	0.34%	0.00%
116:T	5.91%	0.02%	0.07%	0.01%	0.03%	0.06%	0.04%	2.07%	0.21%	0.06%	0.13%	1.70%	3.15%	0.00%	0.19%	2.29%	83.91%	0.12%	0.00%	0.00%
117:Y	0.17%	10.15%	3.84%	0.04%	6.69%	0.29%	7.75%	0.11%	0.49%	1.10%	0.01%	4.29%	0.40%	0.45%	0.42%	6.45%	0.26%	0.10%	0.28%	56.73%
118:W	0.06%	13.87%	0.07%	0.06%	0.56%	2.48%	0.10%	0.01%	0.02%	0.86%	0.01%	0.05%	0.09%	0.06%	3.77%	1.96%	0.03%	0.04%	74.44%	1.46%
119:Y	0.23%	8.54%	7.83%	0.19%	4.66%	0.41%	7.96%	0.46%	1.04%	1.05%	0.03%	12.00%	0.63%	0.19%	0.73%	5.17%	0.70%	0.22%	0.29%	47.70%
120:F	0.05%	2.60%	0.02%	0.00%	72.81%	0.10%	0.08%	1.07%	0.00%	17.71%	0.05%	0.00%	0.32%	0.01%	0.18%	2.93%	0.04%	1.35%	0.06%	0.61%
121:D	2.72%	0.21%	68.38%	3.05%	0.20%	5.63%	7.18%	0.33%	0.17%	0.31%	0.01%	6.38%	0.37%	0.24%	0.48%	0.77%	0.64%	1.19%	0.00%	1.75%
122:L	0.21%	0.10%	0.06%	0.00%	4.58%	0.09%	0.83%	1.16%	0.00%	81.99%	0.10%	0.02%	2.85%	0.07%	1.42%	0.17%	0.07%	6.26%	0.01%	0.04%
123:W	0.01%	0.67%	0.00%	0.00%	0.02%	2.37%	0.00%	0.00%	0.01%	0.61%	0.01%	0.00%	0.02%	0.01%	5.81%	0.64%	0.01%	0.01%	89.77%	0.03%
124:G	0.96%	0.33%	1.95%	0.04%	0.00%	95.08%	0.00%	0.00%	0.04%	0.00%	0.01%	0.00%	0.04%	0.00%	0.45%	0.45%	0.22%	0.62%	0.01%	0.01%
125:R	0.01%	0.72%	0.02%	0.00%	0.04%	0.26%	6.48%	0.02%	0.00%	2.62%	0.00%	0.00%	6.29%	0.55%	82.24%	0.57%	0.05%	0.01%	0.02%	0.04%
126:G	5.28%	0.67%	10.43%	1.16%	0.05%	75.70%	0.15%	0.09%	0.03%	0.07%	0.00%	0.17%	0.07%	0.01%	1.75%	0.76%	0.15%	3.26%	0.02%	0.17%
127:T	5.86%	0.09%	0.27%	0.01%	0.14%	0.26%	0.07%	2.62%	0.16%	0.11%	0.15%	1.78%	2.63%	0.00%	0.59%	6.20%	78.87%	0.56%	0.00%	0.06%
128:L	0.05%	0.05%	0.00%	0.03%	0.04%	0.05%	0.05%	0.19%	0.01%	81.78%	0.63%	0.00%	3.12%	1.32%	11.41%	0.08%	0.03%	1.26%	0.06%	0.00%
129:V	4.18%	0.01%	1.23%	0.10%	0.74%	1.30%	0.01%	3.16%	0.01%	2.12%	0.09%	0.03%	0.06%	0.00%	0.04%	0.08%	0.12%	86.72%	0.00%	0.00%
130:T	4.41%	0.17%	0.15%	0.02%	0.18%	0.39%	0.08%	4.08%	0.09%	0.18%	0.07%	1.92%	4.57%	0.00%	0.34%	9.77%	73.08%	0.44%	0.00%	0.01%
131:V	4.34%	0.01%	1.36%	0.07%	0.55%	2.04%	0.01%	1.05%	0.01%	1.26%	0.08%	0.01%	0.06%	0.00%	0.02%	0.05%	0.09%	89.03%	0.00%	0.01%
132:S	2.39%	1.51%	0.05%	0.00%	1.70%	0.06%	0.13%	0.05%	0.00%	0.44%	0.00%	0.06%	6.52%	0.00%	0.10%	84.73%	1.02%	0.09%	0.11%	1.03%
133:S	1.33%	0.13%	0.00%	0.05%	0.20%	0.02%	0.00%	0.03%	0.01%	1.80%	0.00%	0.00%	4.51%	0.02%	0.05%	90.86%	0.86%	0.03%	0.05%	0.05%