	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.49%	0.05%	1.03%	4.69%	0.06%	0.49%	10.32%	0.16%	4.93%	5.95%	0.33%	0.82%	5.74%	56.74%	6.17%	0.35%	0.49%	0.49%	0.19%	0.50%
2:L	0.83%	0.09%	0.04%	0.60%	2.89%	0.46%	0.19%	2.31%	0.90%	63.45%	4.19%	0.08%	3.65%	1.97%	2.22%	1.47%	0.79%	13.35%	0.49%	0.02%
3:Q	0.11%	0.08%	0.34%	1.55%	0.05%	0.18%	11.65%	0.12%	5.29%	3.33%	0.13%	1.10%	2.65%	66.87%	5.21%	0.26%	0.34%	0.15%	0.35%	0.24%
4:L	0.87%	0.09%	0.04%	0.60%	3.00%	0.48%	0.18%	2.41%	0.96%	62.53%	4.36%	0.09%	3.57%	1.91%	2.21%	1.52%	0.84%	13.82%	0.50%	0.02%
5:Q	0.09%	0.03%	0.12%	1.30%	0.02%	0.21%	3.92%	0.03%	4.45%	2.62%	0.08%	0.30%	1.85%	78.32%	5.52%	0.15%	0.16%	0.11%	0.65%	0.05%
6:E	6.19%	0.00%	3.94%	74.90%	0.00%	8.50%	0.08%	0.03%	1.91%	0.18%	0.21%	0.16%	0.11%	0.73%	0.25%	0.06%	0.27%	2.43%	0.03%	0.02%
7:S	3.46%	0.02%	0.00%	0.03%	0.03%	0.08%	0.00%	0.00%	0.02%	4.36%	0.09%	0.00%	4.82%	0.01%	0.16%	82.51%	1.95%	0.15%	2.30%	0.00%
8:G	1.28%	0.66%	2.58%	0.10%	0.01%	90.84%	0.03%	0.04%	0.02%	0.02%	0.00%	0.14%	0.04%	0.00%	1.09%	2.08%	0.12%	0.89%	0.03%	0.02%
9:P	0.64%	0.00%	0.00%	0.05%	0.00%	0.01%	0.19%	0.04%	0.01%	1.87%	0.00%	0.00%	92.63%	0.74%	1.18%	1.60%	0.97%	0.04%	0.00%	0.00%
10:G	0.81%	0.03%	0.38%	3.14%	0.00%	84.12%	0.01%	0.10%	0.14%	0.12%	0.01%	0.01%	0.09%	0.06%	10.13%	0.21%	0.16%	0.45%	0.01%	0.00%
11:L	0.09%	0.00%	0.00%	0.05%	0.10%	0.06%	0.09%	0.12%	0.12%	88.75%	0.50%	0.00%	3.73%	1.47%	3.21%	0.16%	0.07%	1.50%	0.06%	0.00%
12:V	5.76%	0.00%	0.27%	4.86%	0.09%	5.17%	0.01%	1.19%	0.41%	8.49%	7.87%	0.02%	0.29%	0.13%	0.42%	0.27%	0.83%	63.80%	0.11%	0.00%
13:K	0.32%	0.00%	0.24%	5.32%	0.00%	0.82%	0.10%	0.42%	62.87%	0.33%	5.59%	1.16%	0.17%	3.92%	12.92%	0.29%	4.99%	0.34%	0.17%	0.01%
14:P	4.21%	0.23%	0.08%	0.00%	0.32%	0.08%	0.73%	0.17%	0.02%	1.47%	0.00%	0.24%	75.14%	0.03%	0.61%	11.06%	5.30%	0.21%	0.01%	0.09%
15:S	2.74%	0.34%	0.01%	0.15%	0.30%	0.39%	0.01%	0.02%	0.04%	15.15%	0.15%	0.01%	3.38%	0.03%	0.60%	65.93%	0.77%	0.69%	9.25%	0.06%
16:E	4.31%	0.00%	1.95%	77.48%	0.00%	5.89%	0.07%	0.02%	4.58%	0.14%	0.30%	0.13%	0.16%	2.25%	0.61%	0.07%	0.43%	1.58%	0.02%	0.02%
17:T	9.10%	0.06%	0.09%	0.03%	0.08%	0.16%	0.05%	2.89%	0.34%	0.09%	0.23%	2.17%	3.27%	0.01%	0.26%	4.92%	75.98%	0.21%	0.00%	0.04%
18:L	0.09%	0.00%	0.00%	0.09%	0.11%	0.04%	0.23%	0.06%	0.06%	83.52%	0.87%	0.00%	6.34%	3.68%	2.88%	0.12%	0.11%	1.77%	0.03%	0.00%
19:S	3.57%	2.76%	0.09%	0.01%	2.46%	0.09%	0.16%	0.09%	0.01%	0.48%	0.01%	0.12%	5.97%	0.00%	0.12%	80.71%	1.84%	0.12%	0.09%	1.29%
20:L	0.17%	0.12%	0.04%	0.00%	4.00%	0.08%	1.15%	0.97%	0.00%	81.44%	0.03%	0.12%	5.94%	0.08%	1.69%	0.15%	0.06%	4.02%	0.00%	0.03%
21:T	6.88%	0.14%	0.16%	0.02%	0.26%	0.26%	0.10%	4.81%	0.28%	0.44%	0.50%	1.44%	5.12%	0.01%	0.61%	6.73%	71.37%	0.78%	0.01%	0.07%
22:C	0.21%	66.18%	0.65%	0.04%	3.47%	2.35%	1.30%	0.06%	0.06%	0.58%	0.00%	0.63%	0.44%	0.04%	2.64%	7.91%	0.13%	0.12%	2.57%	10.65%
23:T	6.47%	0.54%	0.29%	0.05%	0.37%	0.76%	0.17%	4.42%	0.14%	0.44%	0.11%	2.24%	10.52%	0.01%	0.64%	12.78%	59.09%	0.85%	0.01%	0.09%
24:V	5.61%	0.03%	1.93%	0.12%	0.76%	2.60%	0.02%	1.33%	0.01%	1.83%	0.15%	0.03%	0.09%	0.00%	0.03%	0.09%	0.13%	85.24%	0.00%	0.01%
25:S	1.71%	3.33%	0.07%	0.01%	2.70%	0.15%	0.08%	0.07%	0.00%	0.45%	0.00%	0.06%	4.05%	0.01%	0.15%	84.84%	1.19%	0.16%	0.10%	0.88%
26:G	5.09%	1.27%	8.18%	0.76%	0.13%	73.92%	0.61%	0.28%	0.06%	0.13%	0.01%	0.75%	0.51%	0.05%	1.73%	3.24%	0.86%	2.06%	0.04%	0.31%
27:G	9.71%	0.88%	20.08%	0.80%	0.01%	59.42%	0.45%	0.12%	0.04%	0.15%	0.01%	0.03%	0.18%	0.02%	0.79%	1.18%	0.34%	4.97%	0.08%	0.32%
28:S	1.74%	1.92%	0.03%	0.00%	1.80%	0.06%	0.09%	0.05%	0.00%	0.44%	0.01%	0.03%	5.60%	0.00%	0.09%	86.46%	0.87%	0.08%	0.04%	0.68%
29:I	0.67%	0.20%	0.15%	0.03%	5.61%	0.31%	0.08%	60.69%	0.39%	7.56%	3.57%	1.11%	0.43%	0.02%	1.30%	2.15%	4.62%	11.02%	0.01%	0.06%
30:S	0.70%	2.64%	0.97%	0.14%	0.22%	6.58%	1.04%	3.28%	2.01%	0.45%	0.23%	8.72%	0.58%	0.12%	38.12%	25.90%	7.13%	0.51%	0.19%	0.48%
31:S	1.43%	4.30%	1.75%	0.25%	0.71%	4.36%	1.61%	7.92%	1.95%	0.89%	0.54%	13.60%	1.66%	0.17%	12.47%	30.98%	13.37%	0.95%	0.29%	0.79%
32:S	2.30%	2.93%	2.53%	0.37%	1.34%	6.69%	1.27%	7.93%	1.50%	1.41%	0.55%	11.08%	1.14%	0.15%	11.93%	31.98%	12.46%	1.28%	0.38%	0.78%
33:S	1.36%	4.38%	2.04%	0.14%	0.58%	8.61%	1.01%	3.06%	0.50%	0.50%	0.07%	10.20%	0.74%	0.08%	6.17%	50.90%	8.31%	0.53%	0.19%	0.63%
34:Y	0.41%	11.12%	6.29%	0.33%	7.88%	0.58%	12.06%	0.24%	0.33%	2.12%	0.02%	3.26%	0.71%	0.45%	1.00%	7.04%	0.25%	0.30%	0.39%	45.21%
35:Y	0.21%	11.55%	3.45%	0.05%	8.28%	0.63%	8.11%	0.21%	0.56%	1.96%	0.02%	3.74%	0.58%	0.65%	0.84%	8.73%	0.36%	0.18%	0.47%	49.44%
36:W	0.02%	1.24%	0.00%	0.04%	0.04%	3.49%	0.00%	0.00%	0.01%	0.80%	0.01%	0.00%	0.03%	0.02%	5.64%	0.05%	0.01%	0.02%	87.71%	0.06%
37:G	9.26%	0.35%	18.47%	0.29%	0.23%	65.51%	0.14%	0.09%	0.09%	0.04%	0.01%	0.44%	0.09%	0.01%	0.48%	0.44%	0.22%	4.01%	0.06%	0.03%
38:W	0.04%	7.79%	0.02%	0.05%	0.23%	1.67%	0.11%	0.01%	0.07%	1.75%	0.02%	0.03%	0.22%	0.18%	5.77%	1.83%	0.04%	0.03%	79.51%	0.63%
39:I	0.62%	0.06%	0.08%	0.03%	1.65%	0.24%	0.04%	69.26%	0.47%	4.29%	3.19%	1.11%	0.36%	0.02%	0.75%	2.36%	8.28%	7.15%	0.00%	0.02%
40:R	0.06%	3.86%	0.15%	0.01%	0.04%	2.22%	2.29%	0.01%	0.01%	0.64%	0.00%	0.07%	1.06%	0.08%	88.46%	0.70%	0.02%	0.04%	0.11%	0.15%
41:Q	0.07%	0.00%	0.05%	1.49%	0.00%	0.08%	3.25%	0.00%	1.07%	3.56%	0.04%	0.04%	4.66%	79.46%	5.99%	0.04%	0.09%	0.06%	0.03%	0.02%
42:P	15.42%	0.62%	0.09%	0.02%	0.58%	0.18%	0.47%	0.31%	0.04%	0.56%	0.01%	0.33%	39.73%	0.01%	0.36%	28.59%	12.07%	0.22%	0.02%	0.36%
43:P	0.72%	0.00%	0.00%	0.05%	0.00%	0.02%	0.19%	0.03%	0.03%	1.89%	0.00%	0.00%	91.87%	0.73%	1.20%	2.03%	1.22%	0.02%	0.00%	0.00%
44:G	1.69%	0.06%	0.68%	8.07%	0.00%	83.95%	0.01%	0.03%	0.20%	0.71%	0.11%	0.02%	0.08%	0.19%	1.86%	0.21%	0.10%	2.33%	0.26%	0.01%
45:K	0.33%	0.00%	0.08%	8.37%	0.00%	0.35%	0.06%	0.06%	74.05%	0.20%	1.05%	0.82%	0.23%	6.99%	4.51%	0.14%	2.54%	0.18%	0.03%	0.01%
46:G	0.57%	0.13%	0.31%	0.95%	0.00%	93.38%	0.00%	0.02%	0.04%	0.04%	0.03%	0.02%	0.01%	0.01%	3.09%	0.52%	0.04%	0.45%	0.39%	0.00%
47:L	0.10%	0.00%	0.00%	0.05%	0.07%	0.04%	0.06%	0.13%	0.03%	89.11%	0.56%	0.00%	4.76%	1.59%	1.71%	0.14%	0.07%	1.54%	0.03%	0.00%
48:E	5.59%	0.02%	14.31%	60.50%	0.04%	7.94%	0.43%	0.08%	3.95%	0.27%	0.26%	0.97%	0.24%	1.74%	0.47%	0.18%	0.57%	2.31%	0.03%	0.13%
49:W	0.17%	7.38%	0.07%	0.37%	0.32%	3.79%	0.07%	0.03%	0.37%	1.91%	0.13%	0.04%	0.17%	0.11%	8.61%	3.45%	0.19%	0.22%	72.08%	0.53%
50:I	0.57%	0.11%	0.09%	0.03%	2.04%	0.17%	0.70%	70.21%	0.28%	3.96%	2.44%	1.00%	0.51%	0.01%	0.37%	2.46%	10.96%	4.74%	0.00%	0.02%
51:G	2.26%	0.04%	1.02%	7.89%	0.01%	83.25%	0.01%	0.02%	0.29%	0.18%	0.09%	0.02%	0.09%	0.21%	1.73%	0.14%	0.20%	2.04%	0.49%	0.01%
52:S	1.35%	1.68%	1.52%	0.21%	0.33%	4.43%	1.08%	8.22%	1.42%	0.52%	0.46%	10.41%	0.82%	0.10%	11.16%	38.95%	16.11%	0.79%	0.08%	0.37%
53: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%
54: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%
55: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%
56: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%
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: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%
59:Y	0.32%	11.69%	2.78%	0.15%	12.39%	0.34%	8.10%	0.27%	0.18%	1.89%	0.01%	3.97%	0.85%	0.55%	0.92%	14.27%	0.57%	0.21%	0.34%	40.20%
60: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%
61: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%
62:S	0.79%	5.37%	1.08%	0.10%	0.64%	10.85%	0.50%	3.73%	0.52%	0.53%	0.08%	4.29%	0.40%	0.05%	10.17%	55.68%	4.05%	0.56%	0.27%	0.35%
63:C	2.41%	0.08%	1.01%	8.02%	0.11%	79.99%	0.03%	0.02%	0.26%	0.18%	0.08%	0.03%	0.07%	0.23%	3.74%	0.14%	0.13%	2.05%	1.50%	0.02%
64:S	0.39%	0.99%	0.94%	0.29%	0.11%	4.42%	0.36%	3.87%	3.16%	0.21%	0.34%	6.27%	0.20%	0.13%	38.71%	33.20%	4.14%	2.07%	0.07%	0.12%
65:T	8.02%	0.26%	0.39%	0.05%	0.51%	0.39%	0.18%	6.30%	0.40%	0.46%	0.51%	2.77%	3.87%	0.01%	0.78%	8.70%	65.17%	1.03%	0.01%	0.17%
66:Y	0.29%	11.78%	4.57%	0.24%	7.70%	0.48%	9.72%	0.21%	0.55%	2.03%	0.02%	3.70%	0.52%	0.72%	0.80%	8.33%	0.44%	0.18%	0.38%	46.05%
67:Y	0.23%	10.82%	3.46%	0.08%	4.43%	0.62%	8.78%	0.19%	0.52%	1.74%	0.01%	3.70%	0.62%	0.33%	0.95%	9.87%	0.44%	0.12%	0.45%	52.64%
68:N	0.43%	0.51%	5.40%	0.76%	0.26%	0.64%	3.69%	2.69%	13.97%	0.28%	0.33%	54.07%	0.33%	0.44%	2.60%	5.99%	4.98%	0.22%	0.02%	2.39%
69:P	3.15%	0.01%	0.00%	0.11%	0.01%	0.06%	0.06%	0.01%	0.01%	1.76%	0.13%	0.00%	83.12%	0.59%	0.53%	6.54%	3.40%	0.33%	0.11%	0.00%
70:S	3.43%	2.77%	0.08%	0.01%	2.48%	0.10%	0.19%	0.09%	0.01%	0.48%	0.01%	0.09%	6.28%	0.01%	0.12%	80.37%	1.97%	0.10%	0.09%	1.32%
71:L	0.17%	0.01%	0.05%	0.00%	3.22%	0.09%	1.11%	0.96%	0.00%	82.25%	0.05%	0.02%	5.98%	0.13%	1.67%	0.18%	0.06%	3.95%	0.01%	0.03%
72:K	0.54%	0.01%	0.21%	5.18%	0.01%	0.52%	0.23%	0.26%	69.37%	0.20%	2.22%	2.34%	0.32%	4.97%	4.70%	0.39%	8.20%	0.23%	0.07%	0.05%
73:S	0.07%	1.76%	0.17%	0.01%	0.03%	5.06%	0.14%	1.60%	0.18%	0.05%	0.05%	4.55%	0.09%	0.01%	7.64%	75.66%	2.74%	0.07%	0.08%	0.04%
74:R	0.04%	0.17%	0.01%	0.04%	0.01%	1.04%	0.59%	0.01%	0.02%	0.78%	0.00%	0.01%	2.33%	1.62%	92.96%	0.18%	0.02%	0.05%	0.21%	0.01%
75:V	5.68%	0.01%	2.01%	0.17%	1.44%	3.72%	0.04%	4.39%	0.02%	2.93%	0.14%	0.10%	0.25%	0.01%	0.14%	0.24%	0.42%	78.25%	0.00%	0.02%
76:T	7.29%	0.12%	0.14%	0.01%	0.24%	0.23%	0.09%	4.36%	0.12%	0.35%	0.12%	1.39%	5.21%	0.00%	0.89%	6.52%	72.24%	0.62%	0.00%	0.05%
77:I	1.04%	0.03%	0.07%	0.38%	1.45%	0.24%	0.06%	47.23%	3.75%	9.27%	9.43%	0.82%	1.13%	0.35%	4.39%	1.44%	13.18%	5.72%	0.01%	0.02%
78:S	2.15%	0.44%	0.05%	0.50%	0.64%	0.14%	0.02%	0.18%	0.06%	4.56%	0.02%	0.01%	4.62%	0.06%	0.18%	84.00%	1.85%	0.25%	0.12%	0.15%
79:V	4.39%	0.01%	0.74%	6.52%	0.56%	4.74%	0.06%	12.66%	1.00%	22.71%	1.68%	0.01%	1.81%	0.60%	1.86%	1.58%	2.59%	36.38%	0.01%	0.01%
80:D	3.80%	0.09%	72.89%	8.07%	0.05%	7.90%	1.35%	0.12%	0.25%	0.07%	0.01%	1.57%	0.11%	0.24%	0.20%	0.25%	0.21%	2.24%	0.00%	0.57%
81:T	7.06%	0.01%	0.01%	0.32%	0.02%	0.19%	0.01%	0.38%	1.58%	0.47%	2.95%	0.08%	5.63%	0.06%	1.33%	5.44%	73.53%	0.85%	0.07%	0.00%
82:S	3.42%	2.34%	0.06%	0.00%	1.09%	0.05%	0.13%	0.09%	0.01%	0.38%	0.00%	0.07%	6.35%	0.00%	0.12%	82.92%	1.96%	0.09%	0.12%	0.79%
83:K	0.61%	0.01%	0.32%	5.23%	0.01%	0.51%	0.22%	0.34%	67.61%	0.23%	2.12%	2.46%	0.39%	6.56%	4.66%	0.57%	7.82%	0.24%	0.05%	0.04%
84:N	0.34%	0.16%	3.05%	0.70%	0.12%	0.53%	1.60%	7.64%	14.74%	0.22%	0.48%	50.99%	0.15%	0.34%	2.91%	9.93%	5.14%	0.28%	0.02%	0.66%
85:Q	0.22%	0.05%	0.41%	2.98%	0.05%	0.21%	13.22%	0.05%	3.66%	3.67%	0.15%	0.68%	4.40%	63.36%	5.59%	0.26%	0.30%	0.24%	0.13%	0.37%
86:F	0.36%	3.35%	0.12%	0.01%	61.37%	0.20%	0.08%	3.54%	0.03%	19.77%	0.29%	0.09%	0.39%	0.01%	0.21%	4.18%	0.22%	4.60%	0.37%	0.83%
87:S	3.00%	3.09%	0.16%	0.01%	2.57%	0.17%	0.20%	0.05%	0.01%	0.78%	0.00%	0.10%	8.16%	0.00%	0.23%	78.30%	1.40%	0.27%	0.10%	1.39%
88:L	0.08%	0.00%	0.00%	0.05%	0.13%	0.04%	0.10%	0.11%	0.04%	87.50%	0.77%	0.00%	4.54%	2.41%	2.22%	0.11%	0.09%	1.77%	0.04%	0.00%
89:K	0.35%	0.04%	1.00%	4.73%	0.03%	0.76%	0.59%	1.75%	56.27%	0.35%	3.66%	8.34%	0.21%	3.36%	10.47%	2.03%	5.55%	0.32%	0.11%	0.09%
90:L	0.78%	0.03%	0.02%	0.55%	0.96%	0.56%	0.05%	0.78%	0.39%	69.51%	6.03%	0.01%	1.82%	0.84%	1.10%	1.74%	0.51%	13.41%	0.88%	0.01%
91:S	1.17%	1.18%	1.88%	0.19%	0.17%	4.66%	0.97%	5.54%	4.02%	0.31%	0.52%	20.25%	0.53%	0.11%	12.66%	30.58%	14.25%	0.53%	0.19%	0.31%
92:S	1.70%	4.04%	0.07%	0.01%	3.33%	0.15%	0.11%	0.09%	0.00%	0.50%	0.00%	0.05%	4.82%	0.00%	0.20%	82.70%	0.91%	0.16%	0.09%	1.00%
93:V	4.81%	0.00%	0.12%	3.58%	0.11%	3.16%	0.00%	0.35%	0.20%	13.63%	5.56%	0.01%	0.45%	0.23%	0.30%	0.29%	0.57%	66.51%	0.12%	0.00%
94:T	7.92%	0.04%	0.14%	0.01%	0.09%	0.18%	0.07%	4.15%	0.09%	0.17%	0.08%	1.57%	3.83%	0.00%	0.22%	3.96%	77.04%	0.41%	0.00%	0.02%
95:A	75.77%	0.02%	4.42%	0.19%	0.01%	4.88%	0.07%	0.19%	0.01%	0.23%	0.01%	0.08%	0.97%	0.00%	0.04%	0.67%	2.19%	10.19%	0.00%	0.02%
96:A	67.75%	0.03%	0.28%	3.23%	0.01%	2.19%	0.01%	0.11%	0.16%	0.66%	0.44%	0.01%	4.19%	0.11%	0.18%	2.74%	10.16%	7.73%	0.04%	0.00%
97:D	3.23%	0.05%	76.09%	8.01%	0.04%	3.87%	1.15%	0.15%	0.46%	0.07%	0.01%	2.38%	0.10%	0.16%	0.17%	0.25%	0.27%	3.11%	0.00%	0.42%
98:T	7.37%	0.00%	0.01%	0.26%	0.00%	0.17%	0.00%	0.11%	1.56%	0.30%	1.70%	0.03%	5.65%	0.08%	1.38%	5.49%	75.21%	0.60%	0.08%	0.00%
99:A	78.98%	0.02%	1.02%	0.04%	0.03%	1.40%	0.03%	0.27%	0.01%	0.07%	0.01%	0.11%	4.11%	0.00%	0.04%	2.26%	8.81%	2.78%	0.00%	0.01%
100:V	4.64%	0.02%	1.12%	3.73%	0.09%	2.60%	0.07%	4.51%	0.36%	11.36%	4.01%	0.00%	0.73%	0.29%	0.47%	0.34%	1.11%	63.56%	0.02%	0.01%
101:Y	0.38%	10.78%	4.46%	0.27%	11.94%	0.39%	8.52%	0.52%	0.29%	1.62%	0.01%	5.90%	0.90%	0.57%	0.89%	13.58%	0.64%	0.35%	0.32%	37.67%
102:Y	0.42%	10.93%	6.85%	0.14%	8.18%	0.65%	10.41%	0.27%	0.51%	1.90%	0.03%	3.65%	0.66%	0.81%	0.99%	7.24%	0.30%	0.33%	0.46%	45.27%
103:C	0.16%	68.24%	0.25%	0.02%	4.74%	1.56%	0.59%	0.08%	0.01%	0.58%	0.00%	0.05%	0.52%	0.03%	3.52%	10.50%	0.16%	0.07%	2.94%	5.76%
104:A	84.35%	0.00%	0.11%	1.70%	0.01%	0.94%	0.00%	0.04%	0.08%	0.38%	0.21%	0.01%	2.68%	0.05%	0.15%	1.88%	3.85%	3.50%	0.05%	0.00%
105:R	0.96%	0.04%	0.20%	1.73%	0.01%	8.10%	0.11%	2.23%	9.85%	0.24%	0.28%	2.17%	0.60%	0.54%	64.20%	2.24%	6.13%	0.30%	0.04%	0.02%
106:F	0.15%	2.88%	0.09%	0.01%	57.01%	0.19%	0.17%	1.74%	0.01%	27.81%	0.12%	0.00%	0.76%	0.02%	0.46%	4.39%	0.12%	3.04%	0.26%	0.69%
107:G	4.46%	0.49%	9.19%	0.16%	0.02%	80.80%	0.14%	0.06%	0.01%	0.05%	0.00%	0.03%	0.08%	0.01%	0.84%	1.17%	0.15%	2.14%	0.01%	0.00%
108:G	4.14%	1.01%	9.15%	0.18%	0.04%	78.08%	0.20%	0.09%	0.00%	0.08%	0.00%	0.17%	0.09%	0.01%	1.92%	2.46%	0.22%	2.04%	0.01%	0.00%
109:E	3.78%	0.01%	11.25%	67.73%	0.01%	6.08%	0.59%	0.26%	3.38%	0.19%	0.02%	0.64%	0.30%	2.96%	0.72%	0.20%	0.78%	1.02%	0.00%	0.09%
110:V	3.85%	0.04%	0.86%	5.02%	2.17%	3.58%	0.08%	12.54%	0.69%	19.40%	1.51%	0.15%	1.09%	0.41%	1.23%	1.29%	2.15%	43.92%	0.02%	0.02%
111:L	0.39%	0.32%	0.02%	0.21%	10.79%	0.15%	0.03%	1.87%	0.10%	66.10%	0.38%	0.01%	0.18%	0.32%	0.38%	1.33%	4.03%	0.24%	0.07%	
112:R	0.70%	0.48%	0.21%	1.22%	0.13%	3.68%	2.30%	0.15%	0.49%	3.37%	0.03%	0.10%	13.31%	10.26%	60.21%	1.66%	0.73%	0.35%	0.49%	0.11%
113:Y	0.40%	9.40%	8.97%	0.61%	7.11%	1.03%	12.13%	0.61%	0.82%	1.62%	0.03%	9.09%	0.64%	0.54%	1.40%	7.75%	0.55%	0.36%	0.21%	36.74%
114:T	7.15%	0.01%	0.02%	0.25%	0.02%	0.18%	0.01%	0.64%	1.42%	0.38%	1.49%	0.03%	5.37%	0.07%	1.72%	5.37%	74.88%	0.59%	0.11%	0.00%
115:D	2.68%	0.53%	56.09%	1.89%	0.55%	3.89%	8.91%	0.60%	1.04%	0.75%	0.03%	10.72%	0.72%	2.42%	0.81%	1.88%	1.20%	1.40%	0.01%	3.89%
116:W	0.03%	1.59%	0.00%	0.05%	0.03%	3.71%	0.00%	0.00%	0.00%	0.72%	0.01%	0.00%	0.04%	0.04%	7.53%	0.62%	0.02%	0.03%	85.53%	0.03%
117:P	0.44%	0.01%	0.00%	0.02%	0.00%	0.01%	0.10%	0.02%	0.01%	0.98%	0.00%	0.01%	93.44%	0.69%	0.84%	2.24%	1.17%	0.02%	0.00%	0.00%
118:K	0.50%	0.01%	0.48%	11.38%	0.01%	1.61%	0.32%	0.41%	49.74%	1.26%	5.23%	0.88%	0.53%	11.11%	10.66%	0.30%	4.09%	0.93%	0.52%	0.04%
119:P	11.55%	0.00%	0.00%	0.11%	0.01%	0.00%	0.01%	0.01%	0.11%	1.00%	0.15%	0.00%	53.23%	0.16%	0.22%	22.88%	9.85%	0.28%	0.35%	0.00%
120:A	80.31%	0.01%	1.10%	0.03%	0.02%	0.98%	0.04%	0.17%	0.02%	0.05%	0.01%	0.13%	4.19%	0.00%	0.06%	2.25%	9.12%	1.52%	0.00%	0.02%
121:W	0.31%	8.62%	0.18%	0.63%	0.45%	13.58%	0.13%	0.02%	0.07%	1.13%	0.03%	0.05%	0.17%	0.15%	5.21%	2.00%	0.07%	0.20%	66.02%	1.00%
122:F	0.25%	3.80%	0.10%	0.00%	63.68%	0.17%	0.11%	3.66%	0.02%	16.12%	0.15%	0.10%	0.72%	0.01%	0.30%	4.17%	0.22%	5.80%	0.05%	0.57%
123:D	3.79%	0.20%	77.78%	4.64%	0.04%	7.21%	1.69%	0.07%	0.22%	0.00%		1.48%	0.11%	0.18%	0.15%	0.14%		1.68%	0.00%	0.45%
124:P	2.76%	0.10%	0.05%	0.00%	0.17%	0.06%	1.21%	0.14%	0.01%	1.92%	0.01%	0.06%	83.40%	0.07%	0.81%	5.36%	3.07%	0.19%	0.00%	0.04%
125:W	0.05%	0.86%	0.01%	0.18%	0.03%	15.52%	0.01%	0.00%	0.00%	0.78%	0.01%	0.00%	0.04%	0.02%	5.88%	0.82%	0.01%	0.05%	75.69%	0.04%
126:G	1.36%	0.43%	2.56%	0.11%	0.01%	93.02%	0.03%	0.02%	0.01%	0.01%	0.00%	0.08%	0.01%	0.00%	0.61%	0.62%	0.04%	1.05%	0.02%	0.02%
127:Q	0.07%	0.00%	0.00%	1.59%	0.00%	0.07%	1.24%	0.00%	0.96%	1.83%	0.06%	0.01%	5.69%	83.68%	4.48%	0.05%	0.18%	0.03%	0.02%	0.01%
128:G	3.13%	0.02%	1.21%	8.28%	0.01%	72.80%	0.02%	0.38%	0.78%	0.21%	0.04%	0.08%	0.09%	0.15%	9.70%	0.26%	0.34%	2.44%	0.02%	0.01%
129:T	6.26%	0.62%	1.51%	0.10%	1.00%	1.87%	0.47%	11.28%	0.76%	1.13%	0.91%	5.50%	3.71%	0.04%	1.16%	14.27%	45.56%	3.58%	0.02%	0.25%
130:L	0.12%	0.01%	0.00%	0.07%	0.11%	0.10%	0.09%	0.12%	0.02%	75.72%	0.96%	0.00%	4.20%	1.71%	14.38%	0.20%	0.09%	1.96%	0.14%	0.00%
131:V	5.58%	0.01%	1.66%	0.18%	1.00%	1.57%	0.02%	4.07%	0.12%	2.75%	0.15%	0.05%	0.12%	0.00%	0.08%	0.14%	0.22%	82.36%	0.00%	0.01%
132:T	6.83%	0.14%	0.26%	0.01%	0.23%	0.35%	0.09%	3.67%	0.13%	0.31%	0.07%	1.38%	5.19%	0.01%	0.44%	0.72%	73.03%	0.79%	0.00%	0.01%
133:V	5.65%	0.02%	1.72%	0.15%	0.23%	2.49%	0.04%	1.93%	0.01%	3.39%	0.19%	0.03%	0.18%	0.01%	0.06%	0.10%	0.19%	82.96%	0.00%	0.01%
134:S	3.08%	1.92%	0.09%	0.00%	2.11%	0.09%	0.23%	0.07%	0.01%	0.78%	0.01%	0.09%	8.37%	0.01%	0.17%	79.92%	1.36%	0.18%	0.19%	1.31%
135:S	1.61%	0.48%	0.02%	0.06%	0.83%	0.09%	0.06%	0.11%	0.04%	6.36%	0.01%	0.02%	5.25%	0.20%	0.29%	82.67%	1.10%	0.12%	0.24%	0.44%