	A	C	D	E	F	G	H	I	K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q	0.41%	0.01%	0.40%	4.94%	0.01%	0.42%	4.24%	0.05%	5.02%	5.59%	0.35%	0.36%	5.38%	65.63%	5.75%	0.25%	0.41%	0.41%	0.19%	0.17%
2:V	4.75%	0.02%	0.17%	3.52%	0.33%	3.19%	0.21%	2.63%	0.52%	7.88%	6.33%	0.04%	0.25%	0.12%	0.44%	0.21%	0.78%	68.77%	0.04%	0.00%
3:Q	0.08%	0.06%	0.29%	1.26%	0.04%	0.14%	11.23%	0.10%	5.32%	3.02%	0.11%	1.00%	2.31%	69.28%	4.68%	0.21%	0.28%	0.11%	0.32%	0.16%
4:L	0.85%	0.02%	0.02%	0.50%	0.64%	0.40%	0.04%	0.80%	0.47%	69.77%	5.98%	0.02%	2.55%	0.89%	1.41%	1.11%	0.58%	13.66%	0.27%	0.00%
5:V	5.80%	0.00%	0.26%	4.04%	0.07%	3.60%	0.01%	1.43%	0.41%	8.21%	7.22%	0.01%	0.31%	0.11%	0.38%	0.16%	0.81%	67.14%	0.03%	0.00%
6:E	5.38%	0.00%	3.51%	73.25%	0.00%	7.72%	0.15%	0.03%	4.09%	0.23%	0.27%	0.18%	0.20%	1.72%	0.38%	0.08%	0.48%	2.27%	0.03%	0.02%
7:S	1.84%	2.06%	0.03%	0.00%	2.07%	0.06%	0.05%	0.06%	0.00%	0.30%	0.00%	0.03%	4.22%	0.00%	0.09%	86.80%	1.67%	0.07%	0.07%	0.62%
8:G	0.61%	0.01%	0.14%	2.65%	0.00%	92.05%	0.00%	0.00%	0.08%	0.05%	0.03%	0.00%	0.02%	0.06%	2.75%	0.05%	0.06%	0.67%	0.76%	0.00%
9:G	2.57%	0.02%	0.28%	7.65%	0.00%	62.97%	0.03%	0.31%	0.71%	0.27%	0.03%	0.05%	0.25%	0.14%	19.75%	3.01%	1.10%	0.84%	0.01%	0.00%
10:G	1.66%	0.80%	4.07%	0.10%	0.02%	89.83%	0.07%	0.05%	0.01%	0.03%	0.00%	0.10%	0.05%	0.00%	0.92%	1.02%	0.10%	1.11%	0.02%	0.05%
11:V	6.56%	0.00%	0.27%	4.12%	0.12%	3.75%	0.01%	1.08%	0.12%	7.90%	4.88%	0.01%	0.38%	0.13%	0.94%	0.29%	0.74%	68.61%	0.06%	0.00%
12:V	4.97%	0.02%	1.05%	0.14%	0.86%	2.26%	0.02%	3.61%	0.22%	2.59%	0.15%	0.04%	0.12%	0.00%	0.05%	0.12%	0.27%	83.71%	0.00%	0.01%
13:Q	0.09%	0.01%	0.05%	0.69%	0.00%	0.05%	2.07%	0.00%	0.79%	3.64%	0.06%	0.04%	4.08%	81.96%	5.94%	0.18%	0.13%	0.05%	0.07%	0.08%
14:P	4.07%	0.33%	0.04%	0.01%	0.31%	0.09%	0.46%	0.13%	0.02%	1.32%	0.01%	0.13%	75.82%	0.05%	1.03%	10.71%	5.16%	0.21%	0.02%	0.07%
15:G	2.23%	0.03%	0.94%	8.08%	0.00%	82.17%	0.01%	0.02%	0.25%	0.16%	0.09%	0.02%	0.08%	0.19%	2.57%	0.11%	0.19%	2.16%	0.67%	0.01%
16:R	0.32%	0.03%	0.02%	0.56%	0.00%	3.52%	0.02%	0.19%	8.59%	0.31%	2.99%	0.22%	0.17%	0.40%	76.65%	0.78%	3.93%	0.39%	0.92%	0.00%
17:S	2.28%	2.57%	0.10%	0.00%	2.31%	0.07%	0.13%	0.07%	0.01%	0.44%	0.00%	0.15%	5.11%	0.00%	0.11%	84.18%	1.12%	0.10%	0.07%	1.18%
18:L	0.07%	0.01%	0.00%	0.04%	0.17%	0.04%	0.10%	0.08%	0.04%	88.65%	0.74%	0.00%	4.11%	2.20%	1.94%	0.09%	0.07%	1.64%	0.03%	0.00%
19:R	0.08%	0.02%	0.02%	0.16%	0.00%	5.21%	0.01%	0.53%	1.76%	0.04%	0.05%	0.17%	0.07%	0.07%	88.80%	1.64%	1.31%	0.04%	0.03%	0.00%
20:L	0.17%	0.09%	0.05%	0.00%	3.08%	0.06%	1.36%	1.02%	0.01%	81.76%	0.05%	0.07%	6.22%	0.07%	1.72%	0.21%	0.12%	3.88%	0.00%	1.04%
21:S	2.88%	1.85%	0.08%	0.00%	1.90%	0.08%	0.18%	0.06%	0.01%	0.67%	0.00%	0.09%	7.83%	0.01%	0.15%	81.47%	1.29%	0.15%	0.08%	1.23%
22:C	0.17%	66.77%	0.25%	0.02%	3.91%	2.19%	0.75%	0.10%	0.02%	0.84%	0.00%	0.30%	0.55%	0.03%	4.88%	11.14%	0.20%	0.08%	2.54%	5.25%
23:A	81.51%	0.01%	0.23%	3.05%	0.02%	0.80%	0.01%	0.51%	0.16%	0.31%	0.04%	0.02%	2.49%	0.04%	0.15%	3.31%	6.45%	0.88%	0.00%	0.00%
24:A	75.87%	0.05%	4.88%	0.31%	0.16%	3.81%	0.03%	0.42%	0.02%	0.41%	0.02%	0.11%	1.31%	0.00%	0.04%	0.64%	2.12%	9.75%	0.00%	0.04%
25:S	1.51%	3.03%	0.06%	0.00%	2.25%	0.13%	0.09%	0.06%	0.00%	0.54%	0.00%	0.04%	5.51%	0.01%	0.15%	84.53%	1.06%	0.14%	0.08%	0.78%
26:G	5.18%	0.03%	1.35%	11.92%	0.05%	71.87%	0.05%	0.23%	0.60%	0.26%	0.02%	0.10%	0.33%	0.28%	4.81%	0.25%	0.68%	2.00%	0.02%	0.01%
27:F	0.13%	2.46%	0.09%	0.01%	65.53%	0.13%	0.21%	1.50%	0.07%	21.57%	0.07%	0.10%	0.67%	0.01%	0.34%	3.47%	0.09%	2.67%	0.10%	0.85%
28:T	6.50%	0.13%	0.17%	0.01%	0.24%	0.23%	0.10%	4.63%	0.22%	0.36%	0.40%	1.47%	4.68%	0.01%	0.54%	6.27%	73.28%	0.68%	0.01%	0.07%
29:F	0.10%	3.43%	0.04%	0.00%	67.01%	0.07%	0.13%	0.65%	0.00%	21.56%	0.06%	0.04%	0.50%	0.02%	0.17%	3.63%	0.05%	1.58%	0.13%	0.81%
30:S	1.10%	2.31%	1.36%	0.17%	0.45%	3.47%	1.24%	7.97%	1.91%	0.61%	0.53%	15.04%	1.14%	0.13%	12.48%	33.72%	15.04%	0.68%	0.17%	0.49%
31:S	1.11%	3.02%	2.26%	0.25%	0.45%	8.13%	0.96%	3.27%	1.75%	0.52%	0.33%	10.70%	0.44%	0.09%	17.25%	40.90%	6.43%	0.78%	0.64%	0.72%
32:Y	0.22%	10.77%	2.35%	0.20%	11.56%	0.27%	7.58%	0.37%	0.30%	1.70%	0.01%	3.71%	0.68%	0.48%	0.80%	13.02%	0.44%	0.22%	0.24%	45.08%
33:A	56.30%	0.48%	1.90%	0.80%	0.75%	3.48%	0.29%	1.91%	0.05%	1.21%	0.06%	0.58%	6.70%	0.03%	0.66%	6.25%	13.64%	4.73%	0.02%	0.17%
34:M	0.99%	0.06%	0.04%	0.44%	0.39%	0.42%	0.03%	19.45%	1.48%	21.75%	30.44%	0.17%	1.27%	0.26%	2.49%	1.08%	6.15%	10.81%	0.24%	0.01%
35:H	0.43%	0.40%	2.37%	0.18%	0.58%	0.19%	55.71%	0.40%	1.37%	5.71%	0.05%	6.73%	7.80%	6.57%	6.54%	1.35%	0.80%	0.42%	0.05%	2.35%
36:W	0.02%	3.40%	0.01%	0.04%	0.09%	3.49%	0.01%	0.00%	0.01%	0.78%	0.01%	0.01%	0.04%	0.02%	5.06%	0.97%	0.01%	0.02%	85.86%	0.16%
37:V	5.14%	0.02%	1.06%	0.07%	0.49%	2.25%	0.01%	2.23%	0.14%	0.95%	0.06%	0.04%	0.06%	0.00%	0.03%	0.08%	0.19%	87.31%	0.00%	0.00%
38:R	0.05%	3.21%	0.13%	0.00%	0.03%	1.84%	1.97%	0.01%	0.00%	0.56%	0.00%	0.05%	0.94%	0.07%	90.38%	0.52%	0.01%	0.03%	0.08%	0.12%
39:Q	0.06%	0.00%	0.02%	1.46%	0.00%	0.07%	1.20%	0.00%	0.94%	1.74%	0.04%	0.02%	4.83%	85.48%	3.92%	0.04%	0.13%	0.03%	0.02%	0.01%
40:A	49.22%	0.12%	0.51%	0.11%	0.13%	1.45%	0.05%	0.79%	0.01%	0.18%	0.01%	0.22%	11.69%	0.00%	0.13%	6.70%	26.93%	1.73%	0.00%	0.02%
41:P	1.80%	0.01%	0.00%	0.06%	0.01%	0.02%	0.28%	0.05%	0.02%	4.10%	0.01%	0.00%	89.50%	0.74%	0.81%	1.88%	0.61%	0.08%	0.00%	0.00%
42:G	1.79%	0.31%	4.21%	0.24%	0.03%	89.00%	0.08%	0.07%	0.02%	0.10%	0.00%	0.11%	0.04%	0.01%	0.83%	0.72%	0.08%	2.33%	0.01%	0.06%
43:K	1.36%	0.00%	0.07%	5.75%	0.00%	0.75%	0.04%	0.11%	46.91%	0.51%	5.82%	0.60%	1.06%	2.98%	14.91%	0.70%	17.71%	0.46%	0.25%	0.01%
44:G	0.50%	0.11%	0.26%	0.84%	0.00%	93.90%	0.06%	0.02%	0.04%	0.03%	0.02%	0.02%	0.01%	0.01%	2.98%	0.45%	0.03%	0.41%	0.37%	0.00%
45:L	0.08%	0.00%	0.00%	0.05%	0.06%	0.03%	0.06%	0.12%	0.03%	90.17%	0.51%	0.00%	4.33%	1.48%	1.48%	0.12%	0.06%	1.39%	0.02%	0.00%
46:E	5.18%	0.01%	13.70%	62.95%	0.01%	7.48%	0.37%	0.07%	3.76%	0.23%	0.23%	0.84%	0.21%	1.63%	0.39%	0.14%	0.47%	2.17%	0.02%	0.12%
47:W	0.04%	3.78%	0.01%	0.07%	0.11%	4.12%	0.01%	0.01%	0.05%	1.45%	0.04%	0.01%	0.07%	0.04%	8.83%	1.63%	0.04%	0.05%	79.54%	0.11%
48:V	5.56%	0.00%	0.06%	4.09%	0.00%	3.61%	0.00%	0.57%	0.47%	7.28%	6.03%	0.00%	0.46%	0.20%	0.31%	0.16%	0.68%	70.42%	0.03%	0.00%
49:A	67.31%	0.01%	0.24%	2.74%	0.01%	1.38%	0.01%	0.34%	0.20%	0.35%	0.03%	0.02%	6.77%	0.07%	0.24%	4.41%	14.56%	1.30%	0.00%	0.00%
50:V	3.23%	0.07%	1.73%	0.27%	0.42%	1.93%	0.16%	9.19%	0.01%	11.94%	0.00%	0.26%	1.21%	0.03%	0.19%	0.47%	0.96%	65.60%	0.00%	0.04%
51:I	1.46%	0.07%	0.15%	0.90%	3.33%	0.57%	0.07%	35.18%	3.38%	22.43%	6.93%	0.60%	1.20%	0.43%	3.17%	2.32%	7.79%	9.99%	0.02%	0.03%
52:S	1.98%	0.57%	0.05%	0.43%	0.94%	0.11%	0.03%	0.13%	0.05%	2.55%	0.02%	0.02%	4.40%	0.04%	0.11%	86.18%	1.80%	0.18%	0.15%	0.26%
53:Y	0.27%	12.74%	3.33%	0.22%	14.37%	0.53%	9.64%	0.51%	0.14%	2.33%	0.01%	3.06%	1.07%	0.90%	1.45%	14.31%	0.42%	0.42%	0.29%	33.98%
54:D	2.52%	0.45%	59.09%	7.93%	0.47%	4.78%	7.00%	0.46%	0.89%	0.37%	0.02%	7.39%	0.41%	0.84%	0.57%	1.63%	0.83%	1.18%	0.01%	3.15%
55:G	1.93%	0.04%	1.01%	5.53%	0.01%	78.17%	0.03%	0.24%	0.26%	0.29%	0.02%	0.05%	0.28%	0.16%	10.13%	0.32%	0.48%	1.02%	0.03%	0.01%
56:S	1.05%	3.27%	1.94%	0.20%	0.62%	4.70%	1.72%	7.98%	1.15%	0.89%	0.33%	12.53%	1.34%	0.17%	8.36%	40.64%	11.25%	0.97%	0.12%	0.77%
57:N	1.05%	0.67%	10.48%	1.60%	0.94%	1.27%	5.53%	5.41%	6.38%	0.88%	0.31%	41.87%	0.59%	0.95%	1.81%	9.95%	7.01%	0.72%	0.03%	2.54%
58:L	1.07%	0.07%	2.92%	9.97%	0.16%	1.08%	1.30%	4.15%	41.96%	0.84%	0.46%	12.54%	0.64%	4.62%	7.31%	1.94%	8.14%	0.45%	0.02%	0.36%
59:Y	0.18%	10.71%	5.68%	0.26%	7.29%	0.65%	7.54%	0.25%	0.43%	1.63%	0.03%	4.78%	0.39%	0.25%	0.77%	6.65%	0.28%	0.23%	0.30%	51.71%
60:Y	0.14%	11.71%	3.17%	0.12%	6.65%	0.58%	8.05%	0.16%	0.22%	1.43%	0.01%	3.88%	0.43%	0.31%	0.79%	7.37%	0.31%	0.12%	0.13%	54.43%
61:A	49.77%	0.01%	0.62%	6.71%	0.00%	1.72%	0.04%	0.90%	0.43%	0.52%	0.06%	0.06%	8.75%	0.24%	1.10%	5.96%	21.76%	1.34%	0.00%	0.01%
62:D	1.45%	0.04%	88.57%	4.82%	0.03%	2.19%	0.52%	0.04%	0.16%	0.03%	0.01%	0.83%	0.02%	0.10%	0.04%	0.07%	0.06%	0.63%	0.00%	0.39%
63:S	0.70%	2.08%	0.04%	0.00%	2.03%	0.10%	0.09%	0.06%	0.00%	0.42%	0.00%	0.05%	3.58%	0.00%	0.08%	88.01%	1.41%	0.06%	0.07%	1.20%
64:V	4.03%	0.00%	0.16%	2.91%	0.09%	2.86%	0.01%	0.89%	0.30%	10.49%	6.22%	0.01%	0.29%	0.18%	0.49%	0.15%	0.71%	70.15%	0.04%	0.00%
65:K	0.17%	0.00%	0.06%	5.77%	0.00%	0.26%	0.04%	0.05%	81.02%	0.10%	1.04%	0.83%	0.08%	4.05%	3.90%	0.12%	2.38%	0.07%	0.05%	0.01%
66:G	1.15%	0.64%	2.28%	0.07%	0.01%	91.66%	0.03%	0.04%	0.01%	0.01%	0.00%	0.13%	0.01%	0.00%	0.94%	2.23%	0.07%	0.69%	0.02%	0.02%
67:R	0.05%	0.03%	0.01%	0.05%	0.01%	0.33%	1.65%	0.01%	0.03%	2.27%	0.00%	0.01%	8.47%	6.46%	80.38%	0.10%	0.06%	0.04%	0.02%	0.01%
68:F	0.14%	2.41%	0.09%	0.01%	65.46%	0.13%	0.21%	1.52%	0.01%	21.61%	0.07%	0.11%	0.70%	0.01%	0.34%	3.47%	0.09%	2.70%	0.10%	0.84%
69:T	6.79%	0.11%	0.14%	0.01%	0.21%	0.21%	0.09%	4.26%	0.11%	0.30%	0.11%	1.41%	4.70%	0.00%	0.80%	6.13%	74.00%	0.56%	0.00%	0.05%
70:I	0.56%	0.15%	0.15%	0.02%	5.18%	0.22%	0.09%	60.79%	0.46%	6.80%	5.27%	1.73%	0.41%	0.02%	0.49%	1.98%	5.34%	10.27%	0.01%	0.01%
71:S	3.04%	1.84%	0.05%	0.00%	1.62%	0.06%	0.11%	0.05%	0.00%	0.44%	0.00%	0.04%	7.77%	0.01%	0.14%	82.81%	1.28%	0.11%	0.02%	0.61%
72:R	0.16%	0.10%	0.02%	0.15%	0.01%	1.45%	0.03%	1.11%	2.82%	0.10%	0.09%	0.35%	0.19%	0.17%	84.62%	5.11%	3.39%	0.06%	0.07%	0.01%
73:D	3.56%	0.07%	79.51%	2.76%	0.04%	7.89%	1.17%	0.12%	0.23%	0.06%	0.00%	1.43%	0.10%	0.08%	0.10%	0.20%	0.20%	2.03%	0.00%	0.43%
74:N	0.56%	0.73%	3.27%	0.22%	0.35%	0.72%	9.16%	2.57%	3.69%	0.44%	0.09%	47.75%	0.70%	0.41%	1.71%	12.74%	12.63%	0.20%	0.02%	2.03%
75:S	3.15%	7.36%	0.36%	0.01%	7.56%	0.23%	0.53%	0.12%	0.02%	2.89%	0.01%	0.21%	2.95%	0.01%	0.34%	67.69%	0.72%	0.35%	0.39%	5.11%
76:K	0.52%	0.01%	0.27%	5.01%	0.01%	0.45%	0.18%	0.29%	70.33%	0.19%	2.01%	2.25%	0.33%	5.91%	4.27%	0.47%	7.22%	0.20%	0.04%	0.04%
77:N	0.30%	0.11%	3.15%	0.43%	0.08%	0.31%	1.63%	4.86%	8.99%	0.12%	0.30%	63.29%	0.14%	0.21%	3.23%	6.79%	5.15%	0.22%	0.01%	0.66%
78:T	6.43%	0.04%	0.04%	0.24%	0.05%	0.26%	0.01%	1.56%	1.78%	0.55%	2.60%	0.28%	4.67%	0.06%	3.30%	5.26%	72.14%	0.63%	0.09%	0.01%
79:L	0.55%	0.05%	0.05%	0.20%	1.63%	0.17%	0.35%	0.98%	0.32%	78.36%	2.21%	0.04%	3.72%	1.72%	1.63%	0.54%	0.44%	7.04%	0.17%	0.01%
80:Y	0.28%	19.25%	4.10%	0.19%	10.36%	0.50%	7.95%	0.57%	0.21%	1.14%	0.01%	5.53%	0.63%	0.26%	0.90%	11.21%	0.49%	0.30%	0.35%	35.77%
81:L	0.61%	0.03%	0.02%	0.31%	1.09%	0.29%	0.16%	0.64%	0.07%	70.34%	1.65%	0.01%	9.28%	1.59%	2.58%	0.66%	0.29%	10.16%	0.22%	0.01%
82:Q	0.26%	0.04%	0.76%	5.07%	0.03%	0.38%	11.18%	0.68%	16.82%	1.86%	0.01%	4.86%	2.42%	46.55%	6.87%	0.40%	1.33%	0.15%	0.03%	0.23%
83:M	0.63%	0.01%	0.02%	0.44%	0.40%	0.40%	0.01%	8.13%	2.16%	13.66%	51.55%	0.11%	0.35%	0.13%	3.23%	0.51%	3.96%	14.16%	0.13%	0.00%
84:N	0.34%	0.19%	5.88%	0.39%	0.13%	0.43%	3.61%	4.34%	8.40%	0.24%	0.37%	59.04%	0.20%	0.40%	3.44%	6.14%	5.02%	0.42%	0.01%	1.00%
85:S	0.22%	4.34%	0.38%	0.02%	0.04%	7.22%	0.11%	0.77%	0.27%	0.05%	0.05%	2.47%	0.08%	0.01%	10.80%	71.22%	1.60%	0.10%	0.15%	0.10%
86:L	0.06%	0.00%	0.00%	0.05%	0.10%	0.03%	0.10%	0.07%	0.03%	89.07%	0.63%	0.00%	4.07%	2.14%	1.91%	0.08%	0.05%	1.55%	0.04%	0.00%
87:R	0.24%	0.04%	0.03%	0.37%	0.00%	4.82%	0.02%	1.16%	4.09%	0.07%	0.11%	0.42%	0.13%	0.14%	82.10%	2.97%	3.15%	0.08%	0.05%	0.00%
88:A	24.50%	0.74%	4.79%	0.52%	0.64%	10.23%	0.53%	3.80%	0.06%	1.64%	0.07%	1.43%	11.59%	0.04%	1.09%	7.68%	17.19%	13.24%	0.01%	0.20%
89:E	3.20%	0.01%	8.91%	71.00%	0.01%	5.99%	0.33%	0.04%	3.39%	0.20%	0.13%	0.34%	0.24%	3.53%	0.41%	0.12%	0.42%	1.57%	0.03%	0.12%
90:D	3.16%	0.05%	77.41%	7.53%	0.03%	4.00%	0.88%	0.11%	0.38%	0.04%	0.01%	2.51%	0.04%	0.11%	0.14%	0.21%	0.15%	2.77%	0.00%	0.47%
91:T	6.83%	0.00%	0.00%	0.22%	0.00%	0.14%	0.00%	0.01%	1.50%	0.27%	1.84%	0.02%	5.15%	0.06%	1.48%	5.10%	76.65%	0.54%	0.08%	0.00%
92:A	61.09%	0.08%	0.49%	0.10%	0.09%	1.26%	0.08%	0.34%	0.01%	0.28%	0.01%	0.12%	9.82%	0.00%	0.12%	4.71%	19.88%	1.48%	0.00%	0.03%
93:V	3.82%	0.02%	0.70%	2.20%	0.90%	2.44%	0.03%	2.40%	0.14%	10.77%	3.16%	0.01%	0.45%	0.14%	0.23%	0.26%	0.51%	71.74%	0.04%	0.01%
94:Y	0.32%	10.35%	4.34%	0.24%	11.46%	0.34%	8.24%	0.46%	0.25%	1.38%	0.01%	5.75%	0.76%	0.49%	0.73%	12.87%	0.54%	0.30%	0.28%	40.90%
95:Y	0.35%	10.53%	6.42%	0.11%	7.68%	0.56%	9.90%	0.24%	0.46%	1.65%	0.02%	3.56%	0.54%	0.68%	0.84%	6.78%	0.26%	0.28%	0.39%	48.76%
96:C	0.14%	70.64%	0.23%	0.01%	4.37%	1.43%	0.50%	0.07%	0.01%	0.48%	0.00%	0.22%	0.42%	0.02%	3.26%	9.76%	0.13%	0.05%	2.75%	5.51%
97:A	85.97%	0.00%	0.09%	1.52%	0.01%	0.83%	0.00%	0.03%	0.07%	0.31%	0.18%	0.18%	0.00%	2.40%	0.04%	0.12%	1.69%	3.49%	3.19%	0.04%	0.00%
98:R	0.37%	0.03%	0.13%	0.73%	0.01%	9.10%	0.08%	2.51%	6.35%	0.18%	0.27%	1.45%	0.28%	0.33%	72.57%	1.84%	3.47%	0.28%	0.03%	0.01%
99:M	0.90%	0.03%	0.09%	0.61%	1.24%	0.44%	0.05%	16.54%	3.28%	13.42%	35.33%	0.46%	0.59%	0.25%	3.17%	0.86%	6.67%	15.98%	0.10%	0.01%
100:F	0.20%	3.40%	0.06%	0.02%	61.94%	0.13%	0.11%	2.78%	0.02%	21.34%	0.13%	0.07%	0.43%	0.01%	0.23%	4.30%	0.19%	3.84%	0.18%	0.62%
101:Q	0.12%	0.02%	0.11%	1.10%	0.01%	0.08%	3.88%	0.01%	1.09%	1.85%	0.05%	0.08%	4.82%	81.84%	4.25%	0.22%	0.22%	0.05%	0.10%	0.11%
102:E	5.71%	0.00%	3.66%	76.85%	0.00%	7.92%	0.07%	0.07%	1.75%	0.15%	0.18%	0.13%	0.08%	0.63%	0.20%	0.05%	0.22%	2.32%	0.02%	0.02%
103:S	1.84%	2.10%	0.03%	0.00%	2.13%	0.06%	0.05%	0.07%	0.00%	0.29%	0.00%	0.03%	4.20%	0.00%	0.09%	86.71%	1.62%	0.07%	0.07%	0.63%
104:G	2.09%	1.34%	3.49%	0.14%	0.01%	85.74%	0.22%	0.09%	0.01%	0.04%	0.00%	0.31%	0.19%	0.00%	1.65%	3.26%	0.34%	0.90%	0.04%	0.13%
105:P	1.94%	0.01%	0.01%	0.18%	0.04%	0.07%	0.20%	0.14%	0.04%	7.40%	0.01%	0.01%	80.35%	3.42%	3.81%	1.09%	0.80%	0.47%	0.01%	0.00%
106:P	1.97%	0.01%	0.04%	0.60%	0.03%	0.15%	0.25%	0.13%	0.08%	3.79%	0.01%	0.01%	81.93%	1.95%	1.70%	5.47%	1.67%	0.20%	0.00%	0.01%
107:R	0.19%	2.63%	0.32%	0.03%	0.23%	0.95%	11.71%	0.07%	0.01%	4.94%	0.00%	0.19%	10.46%	0.72%	65.08%	1.73%	0.18%	0.12%	0.07%	0.36%
108:L	0.18%	0.13%	0.01%	0.06%	2.36%	0.09%	0.00%	0.11%	0.03%	84.59%	0.66%	0.00%	0.38%	0.10%	0.30%	5.03%	0.09%	2.51%	3.38%	0.01%
109:D	2.75%	0.43%	63.44%	2.50%	0.02%	5.73%	5.42%	0.85%	0.39%	0.26%	0.02%	11.21%	0.34%	0.28%	0.38%	1.81%	1.02%	1.22%	0.01%	1.74%
110:R	0.77%	3.38%	0.37%	0.05%	0.50%	2.30%	9.62%	0.13%	0.06%	4.29%	0.00%	0.28%	8.77%	2.48%	63.38%	2.15%	0.55%	0.37%	0.14%	0.40%
111:W	0.04%	2.47%	0.02%	0.06%	0.17%	1.52%	0.03%	0.00%	0.00%	0.99%	0.02%	0.01%	0.08%	0.05%	6.28%	1.17%	0.05%	0.03%	86.65%	0.31%
112:S	0.56%	2.03%	0.63%	0.06%	0.17%	6.39%	0.49%	7.36%	0.68%	0.28%	0.15%	5.82%	0.38%	0.04%	11.05%	55.26%	8.11%	0.33%	0.09%	0.13%
113:G	2.17%	2.72%	3.37%	0.10%	0.06%	81.17%	0.21%	0.09%	0.01%	0.08%	0.00%	0.27%	0.11%	0.01%	2.76%	5.69%	0.20%	0.79%	0.07%	0.12%
114:R	0.11%	0.08%	0.01%	0.06%	0.02%	0.81%	0.42%	0.07%	0.05%	4.59%	0.01%	0.01%	7.72%	2.23%	83.29%	0.19%	0.05%	0.28%	0.13%	0.01%
115:N	0.87%	0.74%	8.90%	0.68%	0.53%	1.00%	6.56%	6.76%	2.66%	0.77%	0.17%	39.78%	1.05%	0.55%	1.54%	13.48%	11.16%	0.80%	0.01%	2.01%
116:Y	0.35%	10.68%	6.33%	0.30%	7.41%	0.55%	10.21%	0.24%	0.35%	1.74%	0.02%	3.73%	0.54%	0.34%	0.84%	6.69%	0.26%	0.27%	0.33%	48.83%
117:Y	0.18%	11.28%	3.06%	0.14%	7.54%	0.55%	8.02%	0.17%	0.36%	1.82%	0.01%	3.70%	0.48%	0.26%	0.74%	7.99%	0.30%	0.14%	0.35%	52.91%
118:Y	0.18%	11.24%	3.08%	0.13%	7.56%	0.55%	8.06%	0.16%	0.35%	1.84%	0.01%	3.72%	0.48%	0.27%	0.73%	8.05%	0.29%	0.14%	0.34%	52.81%
119:Y	0.18%	11.27%	3.12%	0.14%	7.54%	0.54%	8.04%	0.17%	0.35%	1.82%	0.01%	3.70%	0.49%	0.26%	0.74%	7.99%	0.29%	0.14%	0.34%	52.81%
120:Y	0.13%	11.73%	3.29%	0.06%	6.87%	0.55%	8.20%	0.17%	0.32%	1.44%	0.01%	3.75%	0.43%	0.19%	0.77%	7.13%	0.31%	0.12%	0.26%	54.27%
121:G	10.42%	0.87%	15.30%	2.19%	0.24%	51.55%	2.35%	0.64%	0.16%	0.52%	0.02%	2.11%	1.21%	0.16%	1.71%	2.64%	2.98%	4.37%	0.05%	0.51%
122:M	0.04%	0.01%	0.04%	0.71%	0.24%	0.97%	0.01%	7.07%	4.08%	20.75%	36.03%	0.02%	0.93%	0.34%	6.71%	1.33%	8.74%	10.14%	0.59%	0.01%
123:D	5.02%	0.06%	74.81%	2.93%	0.03%	11.30%	0.84%	0.10%	0.24%	0.05%	0.00%	1.80%	0.08%	0.05%	0.12%	0.33%	0.25%	1.03%	0.00%	0.32%
124:V	4.94%	0.03%	1.58%	0.04%	1.25%	2.23%	0.04%	3.60%	0.02%	3.91%	0.34%	0.06%	0.21%	0.01%	0.07%	0.15%	0.32%	81.16%	0.00%	0.01%
125:W	0.01%	0.81%	0.00%	0.03%	0.02%	3.00%	0.01%	0.00%	0.01%	0.76%	0.01%	0.00%	0.03%	0.02%	7.09%	0.80%	0.01%	0.01%	87.33%	0.04%
126:G	1.18%	0.40%	2.31%	0.09%	0.01%	93.97%	0.02%	0.02%	0.01%	0.01%	0.00%	0.06%	0.01%	0.00%	0.55%	0.55%	0.03%	0.76%	0.01%	0.01%
127:Q	0.04%	0.01%	0.09%	0.58%	0.01%	0.07%	23.25%	0.03%	0.44%	2.94%	0.01%	0.20%	6.59%	59.51%	5.95%	0.07%	0.08%	0.04%	0.00%	0.13%
128:G	1.71%	0.04%	0.23%	8.56%	0.00%	84.12%	0.01%	0.17%	0.14%	0.10%	0.01%	0.05%	0.12%	0.01%	1.85%	0.07%	0.11%	2.28%	0.43%	0.00%
129:T	6.78%	0.05%	0.14%	0.02%	0.10%	0.12%	0.08%	5.35%	0.25%	0.17%	0.12%	3.03%	3.65%	0.01%	0.84%	3.74%	75.17%	0.37%	0.00%	0.03%
130:T	6.19%	0.00%	0.01%	0.19%	0.00%	0.12%	0.00%	2.34%	1.27%	0.21%	1.15%	0.08%	5.01%	0.08%	1.07%	4.71%	79.17%	0.04%	0.00%	0.00%
131:V	4.94%	0.02%	1.54%	0.15%	0.58%	1.48%	0.02%	2.04%	0.01%	2.16%	0.10%	0.04%	0.16%	0.00%	0.05%	0.12%	0.30%	86.29%	0.00%	0.00%
132:T	6.36%	0.12%	0.22%	0.01%	0.18%	0.29%	0.08%	3.44%	0.11%	0.27%	0.06%	1.31%	4.78%	0.00%	0.37%	6.50%	75.16%	0.67%	0.00%	0.06%
133:V	5.22%	0.02%	1.56%	0.12%	0.77%	2.28%	0.04%	1.81%	0.01%	3.11%	0.16%	0.04%	0.14%	0.01%	0.04%	0.08%	0.15%	84.42%	0.00%	0.01%
134:S	2.88%	1.79%	0.07%	0.00%	1.97%	0.08%	0.19%	0.06%	0.01%	0.67%	0.00%	0.08%	7.79%	0.00%	0.15%	81.47%	1.25%	0.15%	0.16%	1.21%
135:S	1.52%	0.39%	0.01%	0.05%	0.71%	0.07%	0.05%	0.10%	0.03%	5.91%	0.01%	0.01%	4.91%	0.18%	0.25%	84.13%	1.00%	0.09%	0.19%	0.38%