1.0	A	C	D	E	F	G	H		K	L	M	N	P	Q	R	S	T	V	W	Y
1:Q 2:V	5.02%	0.02%	0.20%		0.35%		0.01%	2.92%	0.59%	8.36%	6.54%	0.05%	0.29%	0.14%	0.53%	0.26%	0.90%	0.47% 66.57% 0.13%	0.05%	0.00%
3:Q 4:L 5:V	0.95%	0.02%		0.55%	0.73%	0.16% 0.46%	0.05%	0.92%	0.52%	67.97%	6.17%	0.03%	2.63%	0.91%	1.56%	1.28%	0.68%	0.13% 14.22% 67.07%	0.31%	0.01%
6:Q 7:S	0.26%	0.04%	0.15%		0.03%	0.27%	7.14%	0.05%	3.78%	9.69%	0.29%		6.07%	61.15%	7.11%	0.51%	0.40%	0.43%	0.95%	
8:G	0.66%	0.01%	0.08%	2.96%	0.00%	91.42%	0.00%	0.00%	0.10%	0.06%	0.04%	0.00%	0.02%	0.07%	2.90%	0.04%	0.07%	0.72% 1.41%	0.86%	0.00%
10:E 11:V	3.43%	0.01%	7.49%	70.83%	0.01%	6.44%	0.36%	0.04%	3.48%	0.24%	0.16%	0.41%	0.31%	3.89%	0.47%	0.14%	0.46%	1.68% 64.20%	0.03%	0.12%
12:K 13:K	0.41%	0.01%	0.33%	5.11%	0.01%	0.75%	0.14%	0.73%	59.85%	0.36%	6.01%	2.32%	0.18%	3.71%	13.30%	0.46%	5.75%	0.37%	0.18%	0.02%
	4.18%	0.32%	0.05%	0.01%	0.32%	0.10%	0.49%	0.15%	0.02%	1.45%	0.01%	0.14%	74.81%	0.06%	1.14%	11.01%	5.41%	0.22% 2.12%	0.03%	0.07%
16:S	2.49%	0.85%	0.08%	0.00%	1.41%	0.03%	0.12%	0.05%	0.01%	0.34%	0.00%	0.11%	5.62%	0.00%	0.04%	86.56%	1.23%	0.06% 0.13%	0.08%	0.88%
18:V 19:K						5.15% 0.36%												63.54% 0.10%		
20:V 21:S			3.41% 0.09%		0.29% 2.06%													80.50% 0.17%		
22:C 23:K			0.62% 0.14%			2.51% 0.84%						0.57% 0.88%						0.10% 0.47%		
			1.01% 0.18%															1.41% 0.36%		
	2.01%	0.59%	4.21%	1.30%	0.05%		0.15%	0.11%	0.10%	0.09%	0.00%	0.16%	0.12%	0.05%	4.65%	0.73%	0.17%	0.75% 2.21%	0.02%	
28:T 29:F	0.12%	0.20% 3.66%	0.05%	0.00%	65.61%	0.09%	0.14%	0.70%	0.01%	21.97%	0.07%	0.05%	0.60%	0.02%	0.21%	3.91%	0.05%		0.13%	0.87%
30:S 31:S		2.61% 2.38%	1.67%	0.14% 0.18%	0.29%		0.97%	3.76%	1.94% 2.15%	0.33%	0.40%	12.63%	0.43%	0.09%	19.23%	24.44% 40.48%	8.19%	0.50%	0.18% 0.25%	0.50% 0.56%
	53.67%	0.56%		0.87%		3.75%	0.33%	2.11%		1.34%		3.78% 0.66%	7.03%	0.03%	0.73%	13.69% 6.67%	13.96%	5.05%	0.02%	42.03%
35:S		0.39% 2.76%	1.53%	0.13%		5.78%	1.12%	3.31%		0.45%	0.51%	12.04%	0.64%	0.15%	20.71%	36.48%	8.79%		0.36%	0.14%
36:W 37:V	4.64%	0.00%	0.01% 0.20%	3.35%	0.13%	2.26% 3.39%	0.01%	1.26%	0.56%		5.64%	0.03%	0.50%		7.11% 0.42%	1.12% 0.29%	0.84%	70.59%	0.04%	0.20%
39:Q	0.06%	0.40% 0.00%	0.01% 0.02% 0.49%	1.09%	0.01% 0.00% 0.02%		0.90%	0.00%		1.45%	0.00% 0.02% 0.00%	0.03%		1.09% 87.90% 0.00%		0.07%	0.05% 0.04% 2.92%	0.02% 0.03% 1.64%	1.19% 0.05% 0.00%	0.01% 0.01% 0.01%
40:A 41:P 42:G	90.93% 0.73% 0.90%	0.05%			0.05%	0.05%	0.77%	0.05%		2.13%	0.00%	0.02%	90.95%	0.17%	0.02% 1.56% 6.67%	0.89% 2.11% 0.27%	2.92% 1.25% 0.12%	1.64% 0.07% 0.37%	0.00%	0.01%
42:G	0.08%		0.35%	2.30% 1.21% 2.29%	0.04%	0.11% 92.00%	23.45%	0.11%	0.81%	3.76%	0.01%	0.98%	3.76%	57.78%		0.26%	0.12% 0.15% 0.06%	0.14%	0.01%	0.00% 0.32% 0.00%
45:L 46:E	0.13% 3.85%	0.06%	0.03%	0.01% 62.26%	2.10%	0.04%	1.01%	1.33%	0.00% 3.95%	79.97%	0.03%		11.00%	0.13% 3.39%			0.18% 0.53%	2.34% 1.86%	0.00% 0.04%	0.02% 0.09%
47:W 48:M	0.15%	7.07%		0.33% 0.73%		3.84%	0.06%	0.03%	0.31% 4.60%	1.84%	0.12%	0.04%		0.10%	8.60% 4.60%	3.24% 0.28%	0.16%	0.19%	72.91%	
49:G 50:G	5.55% 1.76%	0.02% 0.12%	0.39% 1.26%		0.00%	71.25% 81.11%	0.02%	0.25%				0.04%	0.32% 0.12%	0.14%	9.84% 4.39%	0.64% 0.33%	0.79% 0.17%	1.12%	0.02% 0.27%	0.00% 0.02%
51:I 52:I	0.50% 0.74%	0.09% 0.18%	0.15% 0.19%		3.00% 4.82%	0.25% 0.38%				4.93% 9.10%		1.13% 1.10%		0.01% 0.01%	1.17% 0.80%	2.26% 1.92%	4.39% 5.19%	8.50% 12.27%	0.00% 0.02%	0.02% 0.05%
53:P 54:I	1.41% 0.84%	0.14% 0.33%	0.03% 0.26%	0.01% 0.06%		0.06% 0.39%			0.00% 0.31%				87.60% 0.59%		1.23% 0.67%	4.34% 1.82%	2.18% 3.48%	0.15% 13.37%	0.01% 0.03%	0.04% 0.11%
	10.42%		16.06%	4.29%		54.37%	0.45%	0.58%		0.53%	0.03%	0.68%		0.09%				3.91%	0.08%	0.83% 0.25%
58:A	28.79%	0.01%	3.03%	29.53%	0.05%	6.73%	0.07%	1.83%	1.10%	1.71%	0.20%	0.14%	6.72%	0.60%	1.61%	3.85%	9.00%	1.04% 4.99%	0.01%	0.02%
59:N 60:Y		0.81% 12.30%		1.38% 0.14%	0.59% 7.12%	0.67%	7.94% 7.93%	0.20%	9.02% 0.25%	0.56% 1.62%	0.01%	45.97% 4.01%	0.49%		2.01% 0.86%			0.47% 0.15%	0.15%	
62:Q	0.21%	0.01%		8.95% 6.26%			0.06%		2.08%	0.61%	0.08%	0.08%		<mark>74.52%</mark>		0.10%	22.75% 0.10%	0.25%	0.01%	0.01%
63:K 64:F	0.52% 0.28% 0.14%	0.02% 3.61% 0.01%		4.70% 0.01% 1.17%	0.02% <mark>58.55%</mark> 0.01%	0.15%	0.34% 0.07% 3.08%	3.47%		22.36%	0.19%		0.45%	2.25% 0.01% 81.74%	7.15% 0.22%	1.29% 4.63% 0.26%	6.76% 0.27% 0.24%	0.37% 4.66% 0.06%	0.10%	0.07% 0.70% 0.09%
65:Q 66:G 67:R	0.14% 5.80% 0.21%		18.79%		0.11%	15.09%	0.16%	0.53%	1.13% 0.06% 2.92%	0.35% 0.10%	0.06% 0.03% 0.10%	0.51%	0.08%	0.01% 0.14%	0.70%	0.75%	0.19%	55.96%		0.09% 0.09% 0.01%
68:V 69:T	5.71% 5.65%	0.05%	1.99% 0.03%	0.16%	1.47% 0.03%	3.73%	0.02%	4.33% 1.39%	0.01%	2.86%	0.14% 2.68%	0.09%	0.26% 4.39%	0.01%	0.14% 3.28%	0.24%	0.43%	78.31% 0.56%	0.00%	0.02%
70:I	0.92%	0.09%	0.27%	0.08%	2.06%	0.29%		55.84% 9.75%	0.61%	7.68% 1.28%			0.86% 4.74%	0.04%	0.77%		10.89%	7.73%	0.01% 0.01%	0.05%
	67.86% 3.04%	0.00%		3.25%	0.01%	2.23%	0.01%	0.10%		0.66%		0.01%	4.11%	0.11%	0.18%	2.69% 0.22%	9.96% 0.24%	7.84%	0.04%	0.00%
74:K 75:S	0.54% 1.65%	0.05% 3.21%		3.28% 0.02%	0.04% 3.64%		1.04% 0.23%	1.80% 0.24%	50.82% 0.01%		0.35% 0.01%	10.54% 0.18%			9.96% 0.24%	<mark>1.66%</mark> 80.54%	14.95% 1.75%		0.01% 0.18%	0.25% 2.03%
76:T 77:S	6.55% 0.38%	0.01% 1.13%	0.01% 0.88%	0.25% 0.27%	0.02% 0.09%		0.00% 0.51%		1.79% 3.19%	0.53% 0.27%		0.08% 5.63%	5.24% 0.25%	0.11% 0.12%		4.95% <mark>33.55%</mark>		0.67% 1.89%	0.11% 0.10%	0.00% 0.13%
78:T 79:A	5.72% 71.17%	0.02% 0.06%	0.06% 5.40%	0.82% 0.52%	0.04% 0.19%	0.57% 4.73%	0.02% 0.05%	4.63% 0.55%	2.18% 0.02%	0.78% 0.55%	0.59% 0.05%	0.30% 0.15%	4.09% 1.66%	0.11% 0.01%	6.09% 0.07%	4.45% 0.90%		0.55% 11.21%	0.01% 0.00%	0.01% 0.05%
80:Y 81:M	0.63%	11.13% 0.03%	0.02%				0.01%	9.85%		1.09% 11.92%	47.17%		0.34%	0.11%	12.33%	9.55% 1.28%	0.58% 4.83%	8.12%	0.28%	50.09% 0.00%
82:E 83:L	2.94% 0.75%	0.04%	0.02%	61.74% 0.53%	1.08%	0.54%	0.06%	0.12%		69.28%	6.01%		0.14%	0.86%	0.59% 1.17%	0.19% 1.61%		1.26% 13.67%	0.81%	0.13%
84:S 85:S		1.22% 3.35%		0.19%		6.80%	0.17%		0.30%	0.06%	0.06%	5.41% 2.47%	0.08%	0.01%	11.32%	30.56% 72.03%	1.62%	2.40% 0.10%		0.13%
86:L 87:R 88:S	0.57%	0.03%		1.10%	0.01%	0.04% 4.05% 0.89%	0.07%	2.40%	11.57%	0.20%	0.30%	1.70%	0.35%	0.43%	67.83%			1.68% 0.23% 0.52%		0.00% 0.01% 2.43%
88:S 89:E 90:D	3.39% 3.46%	0.02%		<mark>69.04%</mark>	0.01%		0.38%	0.05%	3.51%			0.24% 0.39% 2.66%		3.74%		0.14%		0.52% 1.69% 3.03%		0.14% 0.48%
91:T		0.00%	0.01% 1.04%	0.26%	0.04% 0.00% 0.03%	0.17%	0.00%	0.11%	0.45% 1.52% 0.01%	0.29%		0.03%		0.07%	1.36%		75.52%	0.59%	0.00% 0.09% 0.00%	0.48% 0.00% 0.01%
93:V 94:Y	4.61%	0.02%		3.70%		2.57%	0.07%	4.43%	0.36%				0.70%	0.30% 0.57%	0.47%	0.33% 13.52%	1.11%	63.94% 0.35%	0.02%	0.01% 0.01% 38.08%
95:Y 96:C	0.42%	10.87%	6.79% 0.26%	0.15%	8.06% 4.70%		10.33%		0.51%	1.86%	0.03%	3.67% 0.25%	0.61%		0.95%	7.22% 10.42%	0.30%	0.32%	0.44%	45.78% 5.72%
97:A 98:R	84.51%	0.00%		1.66% 0.68%	0.01%		0.00%	0.04%		0.37% 0.10%		0.00%	2.66%		0.15%	1.86%	3.81% 2.97%	3.50% 0.12%	0.05% 0.07%	0.00% 0.00%
	5.94%		0.91%	8.17%	0.01%	9.28% 71.49%	0.02%	0.23%	3.41% 0.51%		0.02%	0.06%	0.13%	0.13%		0.11% 0.65%	0.30% 0.42%	2.53% 1.16%	0.02% 0.03%	0.01% 0.00%
102:G	2.43%		1.53%	6.50%	0.00%	9.48% 83.90%	0.02%	0.05%	3.36% 0.23%	0.11%					0.38% 2.24%		0.31% 0.15%		0.02% 0.45%	0.01% 0.01%
104:F	0.25%	9.28% 3.44%	0.09%	0.01%	57.40%	3.76% 0.16%	0.12%	3.67%		22.61%	0.12%		0.73%	0.20%	0.29%	4.52%	0.16%	5.52%		0.56%
106:K	0.52%	0.00%		7.17%	0.01%	0.65%	0.17%	0.36%	60.81%	0.62%	4.58%	0.02%			11.61%			1.96% 0.68%	0.17%	0.01%
108:L	0.16%	0.55% 0.11%	0.09%	0.00%	0.53% 3.79%	0.08%	1.01%	0.95%	0.00%	80.21%	0.04%	0.33%	6.88%	0.09%	2.51%	0.15%	0.07%	3.84%	0.02%	0.32%
110:A	64.32%	0.28%	3.17%	0.35%	0.54%	1.40% 6.35%	0.24%	1.03%	0.02%	0.90%	0.02%		3.69%	0.01%	0.27%	3.09%	0.20%	7.97%	0.01%	0.14%
111:F 112:D 113:V	3.02%		60.13%			5.97%	1.75%	0.20%	0.58%		0.01%	1.92%	0.28%	0.49%	0.15% 0.19%	8.14% 0.57%	0.13% 0.52%	1.38%	0.00%	0.84%
114:W	0.02%	0.88%	1.92% 0.00% 2.46%	0.04%	0.02%		0.01%		0.01%		0.01%	0.00%	0.04%		7.62%	0.88%	0.01%	81.60% 0.01% 0.83%	86.23%	0.04%
116:Q	0.04%	0.01%	0.10%	0.63%	0.01%	0.04%	24.13%	0.03%	0.47%	3.13%	0.01%	0.23%	7.00%	57.45%	6.32%	0.08%	0.10%	0.83% 0.05% 2.51%	0.00%	0.15%
118:T	3.49%	0.01%	0.02%	0.17%	0.01%	0.10%	0.01%	1.62%	1.32%	0.13%	0.11%	0.45%	3.31%	0.06%	1.53%	3.74%	83.81%	0.11% 13.71%	0.00%	0.00%
120:V	5.50%	0.03%	1.63%	0.17%	0.98%	1.61%	0.02%	3.85%	0.02%	2.70%	0.14%	0.05%	0.12%	0.00%	0.07%	0.14%	0.22%	82.73% 0.79%	0.00%	0.01%
122:V	5.57%	0.02%	1.68%	0.14%	0.85%	2.41%	0.05%	1.93%	0.01%	3.29%	0.18%	0.05%	0.17%	0.01%	0.06%	0.09%	0.18%	83.33% 0.08%	0.00%	0.01%
																		0.25%		