		G	A	T	C	A	G	G	A	A	C	T	G	A	G
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	1	0	0	0	0	1	1	0	0	0	0	1	0	1
A	0	0	2	0	0	1	0	0	2	1	0	0	0	2	0
G	0	1	0	1	0	0	2	1	0	1	0	0	1	0	3
C	0	0	0	0	2	0	0	1	0	0	2	0	0	0	1
G	0	1	0	0	0	1	1	1	0	0	0	1	1	0	1
G	0	1	0	0	0	0	2	2	0	0	0	0	2	0	1
A	0	0	2	0	0	1	0	1	3	1	0	0	0	3	1
A	0	0	1	1	0	1	0	0	2	4	2	0	0	1	2
T	0	0	0	2	0	0	0	0	0	2	3	3	1	0	0
T	0	0	0	1	1	0	0	0	0	0	1	4	2	0	0
G	0	1	0	0	0	0	1	1	0	0	0	2	5	3	1
C	0	0	0	0	1	0	0	0	0	0	1	0	3	4	2
A	0	0	1	0	0	2	0	0	1	1	0	0	1	4	3
C	0	0	0	0	1	0	1	0	0	0	2	0	0	2	3

		X	Y	A	X	B	A	C	S	L	L
	0	0	0	0	0	0	0	0	0	0	0
P	0	0	0	0	0	0	0	0	0	0	0
Q	0	0	0	0	0	0	0	0	0	0	0
R	0	0	0	0	0	0	0	0	0	0	0
A	0	0	0	2	1	0	2	1	0	0	0
X	0	2	1	1	4	3	2	1	0	0	0
A	0	1	0	3	3	2	5	4	3	2	1
B	0	0	0	2	2	5	4	3	2	1	0
C	0	0	0	1	1	4	3	6	5	4	3
S	0	0	0	0	0	3	2	5	8	7	6
T	0	0	0	0	0	2	1	4	7	6	5
V	0	0	0	0	0	1	0	3	6	5	4
Q	0	0	0	0	0	0	0	2	5	4	3