Table 1

	init	S	A	P	K	O	T	A
	0	-2	-4	-6	-8	-10	-12	-14
S	-2	2 -4 2 -4	-1 0 -3 -6	-1 -2 -5 -8	-1 -4 -7 -10	-1 -6 -9 -12	-1 -8 -11 -14	-1 -10 -13 -16
A	-4	-1 -6 -3 0	2 -2 4 -2	-1 2 -1 -4	-1 0 -3 -6	-1 -2 -5 -8	-1 -4 -7 -10	2 -6 -6 -12
K	-6	-1 -8 -5 -2	-1 -4 -1 2	-1 0 3 0	2 1 4 -2	-1 2 -1 -4	-1 0 -3 -6	-1 -2 -5 -8
P	-8	-1 -10 -7 -3	-1 -5 -3 0	2 -2 4 1	-1 2 2 2	-1 0 3 0	-1 1 1 -2	-1 -1 -1 -4
O	-10	-1 -12 -9 -3	-1 -5 -4 -2	-1 -4 -1 2	-1 0 3 0	2 1 4 1	-1 2 2 -1	-1 0 0 -3
T	-12	-1 -14 -11 -3	-1 -5 -4 -4	-1 -6 -3 0	-1 -2 1 1	-1 -1 2 2	2 0 6 0	-1 4 1 -2
A	-14	-1 -16 -13 -3	2 -5 -1 -6	-1 -3 -5 -2	-1 -4 -1 -1	-1 -3 0 0	-1 -2 1 4	2 2 8 2

Table 2

	init	A	T	T	G	C
	0	-2	-4	-6	-8	-10
A	-2	2 -4 2 -4	-1 0 -3 -6	-1 -2 -5 -8	-1 -4 -7 -10	-1 -6 -9 -12
T	-4	-1 -6 -3 0	2 -2 4 -2	2 2 2 -4	-1 0 -3 -6	-1 -2 -5 -8
G	-6	-1 -8 -5 -2	-1 -4 -1 2	-1 0 3 0	2 1 4 -2	-1 2 -1 -4
C	-8	-1 -10 -7 -4	-1 -6 -3 0	-1 -2 1 1	-1 -1 2 2	2 0 6 0