E:

		A	T	A	T	T	G	C
	-10000	0	0	0	0	0	0	0
A	-20	-24	-15	-19	-23	-27	-31	-35
T	-24	-28	-32	-10	-14	-18	-22	-26
A	-28	-32	-36	-30	-5	-9	-13	-17
G	-32	-36	-40	-34	-25	-9	-13	-17
C	-36	-40	-44	-38	-29	-29	-13	-17

Wg	-16
Ws	-4
Match	5
Mismatch	-4

F:

		A	T	A	T	T	G	C
	-10000	-20	-24	-28	-32	-36	-40	-44
A	0	-24	-28	-32	-36	-40	-44	-48
T	0	-15	-32	-36	-40	-44	-48	-52
A	0	-19	-10	-30	-34	-38	-42	-46
G	0	-23	-14	-5	-25	-29	-33	-37
C	0	-27	-18	-9	-9	-29	-24	-37

Alignment:

ATA—GC

ATATTGC

G:

		A	T	A	T	T	G	C
	-10000	0	0	0	0	0	0	0
A	0	5	-24	-19	-32	-36	-40	-44
T	0	-24	10	-19	-14	-18	-31	-35
A	0	-19	-19	15	-14	-18	-22	-26
G	0	-32	-23	-14	11	-9	-4	-17
C	0	-36	-27	-18	-9	7	-13	1

V:

		A	T	A	T	T	G	C
	0	-20	-24	-28	-32	-36	-40	-44
A	-20	5	-15	-19	-23	-27	-31	-35
T	-24	-15	10	-10	-14	-18	-22	-26
A	-28	-19	-10	15	-5	-9	-13	-17
G	-32	-23	-14	-5	11	-9	-4	-17
C	-36	-27	-18	-9	-9	7	-13	1

P:

		A	T	A	T	T	G	C
	←	←	←	←	←	←	←	←
A	↑	↖	←	↖	←	←	←	←
T	↑	↑	↖	←	↖	↖	←	←
A	↑	↖	↑	↖	←	←	←	←
G	↑	↑	↑	↑	↖	↖	↖	↖
C	↑	↑	↑	↑	↖	↖	↖	↖