wt. no DNAdam - 0.810.810.810.810.810.010 0.00.886	(0.1, 0.1, 0.1, 0.1, 1) -3.820.820.820.88 0.0 0.0 0.0 0.88 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	(0.1, 0.1, 0.1, 0.1, 10.0) 820.820.820.87 0.0 0.0 0.0 0.87 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	(0.1, 0.1, 0.1, 1, 0.1) 0.8 0.8 0.8 0.87 0.0 0.0 0.0 0.87 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	(0.1, 0.1, 0.1, 1, 1) -0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.86 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0	(0.1, 0.1, 0.1, 1, 10.0) -0.810.810.810.87 0.0 0.0 0.0 0.87 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 1.0	(0.1, 0.1, 0.1, 10.0, 0.1)	(0.1, 0.1, 0.1, 10.0, 1) -0.8 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.8 6 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.99 0.0 0.0 0.0 0.0 0.99	(0.1, 0.1, 0.1, 10.0, 10.0) -0.810.810.810.87 0.0 0.0 0.0 0.87 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.990.010.010.0199 -1.0 1.0 1.0 0.990.010.010.0199 -1.0 1.0 1.0 0.990.010.010.0199 -1.0 1.0 1.0 0.990.010.010.0199
wt, no DNAdam (0.1, 0.1, 1, 0.1, 0.1) wt, no DNAdam (0.79).79).79).86 (0.10 0.0) krasΔ, no DNAdam, 0/0 (1.0) (1	- 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1 - 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1 - 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1 - 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1 - 1.0 1.0 1.0 0.9 0.0 0.0 0.0 1.0 -1	(0.1, 0.1, 1, 0.1, 10.0) 810.810.810.87 0.0 0.0 0.0 0.87 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 0 1.0 1.0 0.9 0.0 0.0 0.0 0.9 - 0 1.0 1.0 0.9 0.0 0.0 0.0 0.9 -	(0.1, 0.1, 1, 1, 0.1) 0.810.810.810.87 0.0 0.0 0.0 0.87 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.990.010.010.0199 1.0 1.0 1.0 0.990.010.010.0199 1.0 1.0 1.0 0.990.010.010.0199 1.0 1.0 1.0 0.990.010.010.0199 1.0 1.0 1.0 0.990.010.010.0199	(0.1, 0.1, 1, 1, 1) -0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.86 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0	(0.1, 0.1, 1, 1, 10.0) -0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.86 -0.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -0.1 0.1 0.9 0.0 0.0 0.0 0.0 -0.1 0.1 0.9 0.0 0.0 0.0 0.0 -0.1 0.1 0.9 0.0 0.0 0.0 0.0 -0.1 0.1 0.9 0.0 0.0 0.0 0.0 -0.1 0.1 0.9 0.0 0.0 0.0 0.0 -0.1 0.1 0.9 0.0 0.0 0.0 0.0 -0.1 0.1 0.9 0.0 0.0 0.0 0.0 0.0 -0.1 0.1 0.9 0.0 0.0 0.0 0.0 0.0 -0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.1, 0.1, 1, 10.0, 0.1) -0.810.810.810.86 0.0 0.0 0.0 0.0 0.86 -0.1.0 1.0 1.0 0.0 0.0 0.0 1.0 -0.1.0 1.0 0.990.010.010.0199 -0.1.0 1.0 0.980.010.010.020.98 -0.1.0 1.0 0.980.010.010.020.98 -0.1.0 1.0 0.970.020.020.030.97	(0.1, 0.1, 1, 10.0, 1) -0.8 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.8 6 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.970.030.030.030.97 -1.0 1.0 1.0 0.960.040.040.040.96	(0.1, 0.1, 1, 10.0, 10.0) -0.810.810.810.87 0.0 0.0 0.0 0.87 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.970.030.030.030.97 -1.0 1.0 1.0 0.970.030.030.030.97 -1.0 1.0 1.0 0.960.040.040.040.96
wt, no DNAdam (0.1, 0.1, 10.0, 0.1, 0.1) wt, no DNAdam (0.0) krasΔ, no DNAdam, 0/0 (1.0) (1.0		(0.1, 0.1, 10.0, 0.1, 10.0) 810.810.810.87 0.0 0.0 0.0 0.87 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.990.010.010.010.99 0 1.0 1.0 0.990.010.010.010.99 1.0 1.0 1.0 0.990.010.010.010.99 (0.1, 1, 0.1, 0.1, 10.0)	(0.1, 0.1, 10.0, 1, 0.1) 0.820.820.820.87 0.0 0.0 0.0 0.87 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.950.020.020.99 1.0 1.0 1.0 0.950.020.020.99 1.0 1.0 1.0 0.950.020.020.99 1.0 1.0 1.0 0.970.020.020.99 (0.1, 1, 0.1, 1, 0.1)	(0.1, 0.1, 10.0, 1, 1) -0.820.820.820.88 0.0 0.0 0.0 0.88 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.970.020.020.030.97 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.950.050.050.95 (0.1, 1, 0.1, 1, 1)	(0.1, 0.1, 10.0, 1, 10.0) 0.8 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.970.030.030.97 1.0 1.0 1.0 0.970.030.030.97 1.0 1.0 1.0 0.970.030.030.97 1.0 1.0 1.0 0.970.030.030.97 1.0 1.0 1.0 0.970.030.030.99 (0.1, 1, 0.1, 1, 10.0)	(0.1, 0.1, 10.0, 10.0, 0.1) 0.8 0.8 0.8 0.8 0.7 0.0 0.0 0.0 0.87 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.970.030.030.97 1.0 1.0 1.0 0.970.030.030.030.97 1.0 1.0 1.0 0.970.030.030.030.97 (0.1, 1, 0.1, 10.0, 0.1)	(0.1, 0.1, 10.0, 10.0, 1) -0.810.810.810.88 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.960.040.040.040.96 -1.0 1.0 1.0 0.960.050.060.94 (0.1, 1, 0.1, 10.0, 1)	(0.1, 0.1, 10.0, 10.0, 10.0) -0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.86 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.970.030.030.030.97 -1.0 1.0 1.0 0.960.040.040.040.96 -1.0 1.0 1.0 0.960.040.040.040.96 -1.0 1.0 1.0 0.940.060.060.060.92 (0.1, 1, 0.1, 10.0, 10.0)
wt. no DNAdam - 0.8 0.8 0.8 0.9 0.0 0.0 0.9 0.0 0.0 0.0 0.0 0.0 0.0	(0.1, 1, 1, 0.1, 1)	820.820.820.99 0.0 0.0 0.0 0.99 - 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 0 1.0 1.0 0.990.010.010.010.99 - 0 1.0 1.0 0.990.010.010.010.99 - 0 1.0 1.0 0.990.020.020.99 - (0.1, 1, 1, 0.1, 10.0)	0.8 0.8 0.8 0.9 0.0 0.0 0.0 0.9 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0	0.8 0.8 0.8 0.9 0.0 0.0 0.0 0.9 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0	0.820.820.820.99 0.0 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1.0	0.8 0.8 0.8 0.9 0.0 0.0 0.0 0.9 0.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0	-0.790.790.790.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.970.030.030.030.97 -1.0 1.0 1.0 0.970.030.030.030.97 -1.0 1.0 1.0 0.950.050.050.050.95 (0.1, 1, 1, 10.0, 1) -0.810.810.810.810.99 0.0 0.0 0.0 0.99	0.790.790.790.99 0.0 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1.0
wt, no DNAdam	- 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 1	0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0
krasΔ, no DNAdam, 0/0 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.1, 10.0, 0.1, 0.1, 1)	0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	-1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	0.1, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	- 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	- 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0
krasΔ, no DNAdam, 0/0 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(0.1, 10.0, 1, 0.1, 1)	(0.1, 10.0, 1, 0.1, 10.0) 810.810.81 1.0 0.0 0.0 0.0 1.0 -	1.0 1.0 1.0 (.970.020.020.030.97 1.0 1.0 1.0 (.970.030.030.030.97 1.0 1.0 1.0 (.970.030.030.040.96 (0.1, 10.0, 1, 1, 0.1) 0.820.820.82 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	1.0 1.0 1.0 0.960.040.040.040.96 1.0 1.0 1.0 0.950.050.050.050.95 1.0 1.0 1.0 0.950.050.050.050.95 1.0 1.0 1.0 0.920.070.070.080.92 (0.1, 10.0, 1, 1, 1) - 0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	1.0 1.0 1.0 0.960.040.040.040.96 1.0 1.0 1.0 0.950.050.050.050.95 1.0 1.0 1.0 0.960.040.040.040.96 1.0 1.0 1.0 0.920.070.070.080.92 (0.1, 10.0, 1, 1, 10.0)	(0.1, 10.0, 1, 10.0, 0.1) -0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0	1.0 1.0 1.0 0.940.060.060.060.94 1.0 1.0 1.0 0.940.060.060.060.94 1.0 1.0 1.0 0.950.050.050.050.95 1.0 1.0 1.0 0.930.060.060.070.93 (0.1, 10.0, 1, 10.0, 1) - 0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	1.0 1.0 1.0 0.940.060.060.060.94 1.0 1.0 1.0 0.930.070.070.070.93 1.0 1.0 1.0 0.950.050.050.050.95 1.0 1.0 1.0 0.920.080.080.080.92 (0.1, 10.0, 1, 10.0, 10.0) 0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0
krasΔ, DNAdam, 0/0 - 10 10 10 10 10 10 10 10 10 10 10 10 10	- 1.0 1.0 1.0 0.920.070.070.080.92 - 1.0 1.0 1.0 0.940.060.060.060.94 - 1.0 1.0 1.0 0.850.140.140.150.85 - 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 0.810.810.81 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.0 0.0 0.0 1.0	.0 1.0 1.0 0.950.050.050.050.950 1.0 1.0 0.920.080.080.080.920 1.0 1.0 0.940.050.050.060.940 1.0 1.0 0.820.160.160.180.820 1.1 10.0, 10.0, 0.1, 10.0) 820.820.82 1.0 0.0 0.0 0.0 1.00 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -	1.0 1.0 1.0 0.89 0.1 0.1 0.10.89 1.0 1.0 1.0 0.89 0.1 0.10.10.120.88 1.0 1.0 1.0 0.89 0.1 0.10.110.89 1.0 1.0 1.0 0.830.150.150.170.83 (0.1, 10.0, 10.0, 1, 0.1) 0.820.820.82 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.850.140.140.150.85	-1.0 1.0 1.0 0.790.190.190.210.79 -1.0 1.0 1.0 0.770.220.220.230.77 -1.0 1.0 1.0 0.8 0.180.18 0.2 0.8 -1.0 1.0 1.0 0.710.270.270.290.71	- 1.0 1.0 1.0 0.810.180.180.190.81 - 1.0 1.0 1.0 0.750.230.230.250.75 - 1.0 1.0 1.0 0.770.220.220.230.77 - 1.0 1.0 1.0 0.690.290.290.310.69 - (0.1, 10.0, 10.0, 1, 10.0) - 0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.730.260.260.270.73	- 1.0 1.0 0.880.120.120.120.88 - 1.0 1.0 0.840.150.150.160.84 - 1.0 1.0 0.860.130.130.140.86 - 1.0 1.0 0.820.160.160.180.82 (0.1, 10.0, 10.0, 10.0, 0.1) - 0.810.810.81 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0	- 1.0 1.0 1.0 0.770.210.210.230.77 - 1.0 1.0 1.0 0.720.270.270.280.72 - 1.0 1.0 1.0 0.740.250.250.260.74 - 1.0 1.0 1.0 0.7 0.280.28 0.3 0.7 (0.1, 10.0, 10.0, 10.0, 1) - 0.810.810.81 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.7 0.290.29 0.3 0.7	- 1.0 1.0 1.0 0.760.240.240.240.76 - 1.0 1.0 1.0 0.710.280.280.290.71 - 1.0 1.0 1.0 0.750.240.240.250.75 - 1.0 1.0 1.0 0.660.330.330.340.66 (0.1, 10.0, 10.0, 10.0, 10.0) - 0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.7 0.3 0.3 0.3 0.7
krasΔ, DNAdam, 0/0 - 10 10 10 10 10 10 10 10 10 10 10 10 10	1.0 1.0 1.0 0.9 0.1 0.1 0.1 0.9 1.0 1.0 1.0 0.920.080.080.080.92 1.0 1.0 1.0 0.77 0.2 0.2 0.230.77 (1, 0.1, 0.1, 0.1, 1)		(1, 0.1, 0.1, 1, 0.1) 0.8 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0	1.0 1.0 1.0 0.720.260.260.280.72 1.0 1.0 1.0 0.690.290.290.310.69 1.0 1.0 1.0 0.7 0.280.28 0.3 0.7 1.0 1.0 1.0 0.640.340.340.360.64 (1, 0.1, 0.1, 1, 1) 	1.0 1.0 0.7 3.2 20.2 20.2 70.7 3 1.0 1.0 1.0 0.660.3 30.3 30.3 40.66 1.0 1.0 1.0 0.7 0.2 90.2 9 0.3 0.7 1.0 1.0 1.0 0.610.3 80.3 80.3 90.61 (1, 0.1, 0.1, 1, 10.0) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	- 1.0 1.0 1.0 0.810.170.170.190.81 - 1.0 1.0 1.0 0.810.180.190.81 - 1.0 1.0 1.0 0.820.160.160.180.82 - 1.0 1.0 0.760.210.210.240.76 (1, 0.1, 0.1, 10.0, 0.1) - 0.810.810.810.86 0.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.0 0.0 0.0 1.0	1.0 1.0 1.0 0.630.360.370.63 1.0 1.0 1.0 0.660.330.340.66 1.0 1.0 1.0 0.60.380.380.4 0.6 (1, 0.1, 0.1, 10.0, 1) -0.8 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.86 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	1.0 1.0 1.0 0.650.340.340.350.65 1.0 1.0 1.0 0.650.340.340.350.65 1.0 1.0 1.0 0.590.4 0.40.410.59 (1, 0.1, 0.1, 10.0, 10.0) 0.8 0.8 0.8 0.8 7 0.0 0.0 0.0 0.87 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.990.010.010.010.99
krasΔ, DNAdam, Cnek1/0 - 10 10 10 10 10 10 10 10 10 10 10 10 10	(1, 0.1, 1, 0.1, 1) -0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0 -0	0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	(1, 0.1, 1, 1, 1) -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 (1, 0.1, 1, 1, 1) -0.810.810.810.87 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.990.010.010.0199 -1.0 1.0 1.0 0.990.010.010.020.98	(1, 0.1, 1, 1, 10.0) -0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 1.0 -0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 -0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 -0.1 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(1, 0.1, 1, 10.0, 0.1) (1, 0.1, 1, 10.0, 0.1) (1, 0.1, 1, 10.0, 0.1) 	(1, 0.1, 1, 10.0, 1) -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 (1, 0.1, 1, 10.0, 1) -0.810.810.810.87 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.990.010.010.0199	(1, 0.1, 1, 10.0, 10.0) (1, 0.1, 1, 10.0, 10.0)
krasΔ, no DNAdam, 0/0 - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, 0/0 - 10 10 10 10 00 00 00 10 krasΔ. DNAdam, chek1i/0 - 10 10 10 10 10 00 00 00 10	(1, 0.1, 10.0, 0.1, 1)	(1, 0.1, 10.0, 0.1, 10.0) 810.810.810.88 0.0 0.0 0.0 0.88 0 1.0 1.0 0.9 0.0 0.0 0.0 0.0 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	(1, 0.1, 10.0, 1, 0.1) 0.810.810.810.87 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.87 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	(1, 0.1, 10.0, 1, 1) -0.810.810.810.87 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0	(1, 0.1, 10.0, 1, 10.0) -0.810.810.810.87 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	(1, 0.1, 10.0, 10.0, 0.1) -0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0 0.0	(1, 0.1, 10.0, 10.0, 1) -0.8 0.8 0.8 0.85 0.0 0.0 0.0 0.85 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.980.020.020.020.98	(1, 0.1, 10.0, 10.0, 10.0) -0.810.810.870.000.000.030.97 -1.0 1.0 1.0 0.970.030.030.030.97 -1.0 1.0 1.0 0.970.030.030.030.97 -1.0 1.0 1.0 0.970.030.030.030.97 -1.0 1.0 1.0 0.970.030.030.030.97
krasΔ, DNAdam, 0/mk2i - 10 10 10 10 10 10 10 10 10 10 10 10 10	(1, 1, 0.1, 0.1, 1) -1.0 1.0 1.0 1.9 0.0 0.0 0.0 1.9 -1 (1, 1, 0.1, 0.1, 1) -2.790.790.790.99 0.0 0.0 0.0 0.9 -1 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1	(1, 1, 0.1, 0.1, 10.0) 810.810.810.99 0.0 0.0 0.0 0.99 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	(1, 1, 0.1, 1, 0.1) 0.0 (1, 1, 0.1, 1, 0.1) 0.8 (0.8 (0.8 (0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(1, 1, 0.1, 1, 1) -1.0 1.0 1.0 (1.970.020.020.031.97 (1, 1, 0.1, 1, 1) -0.790.790.790.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.980.010.010.021.98 -1.0 1.0 1.0 0.980.020.020.021.98 -1.0 1.0 1.0 0.990.010.010.010.99	(1, 1, 0.1, 1, 10.0)	(1, 1, 0.1, 10.0, 0.1) -0.810.810.810.99 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-1.0 1.0 1.0 0.970.020.020.030.97 -1.0 1.0 1.0 0.970.030.030.030.97 (1, 1, 0.1, 10.0, 1) -0.8 0.8 0.8 0.9 0.0 0.0 0.0 0.9 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.980.020.020.020.98	-1.0 1.0 1.0 0.960.040.040.040.96 -1.0 1.0 1.0 0.960.040.040.050.96 (1, 1, 0.1, 10.0, 10.0) -0.790.790.790.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.970.020.020.030.97 -1.0 1.0 1.0 0.970.020.020.030.97
KrasΔ, DNAdam, cnek1i/mk2i - (1, 1, 1, 0.1, 0.1) wt, no DNAdam - (1, 1, 1, 0.1, 0.1) krasΔ, no DNAdam, 0/0 - (1, 1, 1, 0.1) krasΔ, DNAdam, 0/0 - (1, 1, 1, 0.1) krasΔ, DNAdam, 0/0 - (1, 1, 1, 0.1) krasΔ, DNAdam, chek1i/0 - (1, 1, 1, 0.1)	(1, 1, 1, 0.1, 1) -0.8 0.8 0.8 0.98 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.990.010.010.01999 -1.0 1.0 1.0 0.990.020.020.02	(1, 1, 1, 0.1, 10.0) (1, 1, 1, 0.1, 10.0) 8 0.8 0.8 0.9 0.0 0.0 0.0 0.0 0 1.0 1.0 0.0 0.0 0.0 0.0 0 1.0 1.0 0.0 0.0 0.0 0.0 0 1.0 1.0 0.9 0.0 0.0 0.0 0.0 0 1.0 1.0 0.9 0.0 0.0 0.0 0.0 0.0	(1, 1, 1, 1, 0.1) 0.780.780.780.99 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.98 1.0 1.0 1.0 0.980.020.020.0298 1.0 1.0 1.0 0.980.020.020.0298 1.0 1.0 1.0 0.980.020.020.0298	(1, 1, 1, 1, 1) -0.810.810.810.99 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.940.050.050.060.94 -1.0 1.0 1.0 0.930.050.050.060.080.92	(1, 1, 1, 1, 10.0) (1, 1, 1, 1, 10.0) 0.8 0.8 0.8 0.9 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.9 0.0 0.0 0.0 1.0 1.0 1.0 0.9 0.0 0.0 0.0 1.0 1.0 1.0 0.9 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.9 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.9 0.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.9 0.0 0.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	(1, 1, 1, 10.0, 0.1) 	(1, 1, 1, 10.0, 1) -0.790.790.790.980.0 0.0 0.0 0.98 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.910.080.080.090.91 -1.0 1.0 1.0 0.910.070.070.090.91 -1.0 1.0 1.0 0.9 0.080.08 0.1 0.9	(1, 1, 1, 10.0, 10.0) -0.810.810.810.99 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
(1, 1, 10.0, 0.1, 0.1)	- 1.0 1.0 1.0 1.0 <mark>0.0 0.0 0.0</mark> 1.0 - 1		1.0 1.0 1.0 0.980.010.010.020.98 (1, 1, 10.0, 1, 0.1) 0.790.790.790.98 0.0 0.0 0.0 0.98 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.980.020.020.020.98 1.0 1.0 1.0 0.980.020.020.020.98 1.0 1.0 1.0 0.970.020.020.030.97 1.0 1.0 1.0 0.970.020.020.030.97	(1, 1, 10.0, 1, 1) -0.8 0.8 0.8 0.9 0.0 0.0 0.0 0.9 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.9 0.900.9 0.1 0.9 -1.0 1.0 1.0 0.9 0.900.9 0.1 0.9 -1.0 1.0 1.0 0.88 0.1 0.1 0.120.88 -1.0 1.0 1.0 0.9 0.88 0.1 0.9 -1.0 1.0 1.0 0.9 0.88 0.1 0.1 0.18	(1, 1, 10.0, 1, 10.0) -0.820.820.820.99 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.870.120.120.130.87 -1.0 1.0 1.0 0.870.110.110.130.87 -1.0 1.0 1.0 0.870.110.110.130.87 -1.0 1.0 1.0 0.830.140.140.170.83	(1, 1, 10.0, 10.0, 0.1) -0.810.810.810.99 0.0 0.0 0.0 0.99 -0.1.0 1.0 1.0 0.0 0.0 0.0 1.0 -0.1.0 1.0 0.950.040.040.050.95 -0.1.0 1.0 0.960.030.030.040.96 -0.1.0 1.0 0.960.030.030.040.96	(1, 1, 10.0, 10.0, 1) -0.790.790.790.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.860.130.130.140.86 -1.0 1.0 1.0 0.860.120.120.140.86 -1.0 1.0 1.0 0.860.120.120.140.86 -1.0 1.0 1.0 0.820.150.150.180.82	(1, 1, 10.0, 10.0, 10.0) -0.820.820.820.980.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.820.160.160.180.82 -1.0 1.0 1.0 0.810.170.170.190.81 -1.0 1.0 1.0 0.760.210.240.76
(1, 10.0, 0.1, 0.1, 0.1)	(1, 10.0, 0.1, 0.1, 1) -0.790.790.79 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.990.010.010.0199 -1.0 1.0 1.0 1.990.010.010.0199 -1.0 1.0 1.0 1.990.010.010.0199 -1.0 1.0 1.0 1.990.010.010.01	(1, 10.0, 0.1, 0.1, 10.0) 810.810.81 1.0 0.0 0.0 0.0 1.0	(1, 10.0, 0.1, 1, 0.1) 0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	(1, 10.0, 0.1, 1, 1) -0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.980.020.020.021.98 -1.0 1.0 1.0 1.980.020.020.021.98 -1.0 1.0 1.0 1.980.020.020.021.98	(1, 10.0, 0.1, 1, 10.0) -0.810.810.81	(1, 10.0, 0.1, 10.0, 0.1) -0.820.820.82 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 019 1.0 1.0 1.0 0.90 014 014 014 014 014 014 014 014 014 01	(1, 10.0, 0.1, 10.0, 1) -0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.960.030.030.040.96 -1.0 1.0 1.0 0.960.030.030.040.96 -1.0 1.0 1.0 0.970.030.030.030.97 -1.0 1.0 1.0 0.960.040.040.040.96	(1, 10.0, 0.1, 10.0, 10.0) -0.810.810.81 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.950.040.040.050.95 -1.0 1.0 1.0 0.960.040.040.040.96 -1.0 1.0 1.0 0.960.040.040.040.040.96
wt. no DNAdam (1, 10.0, 1, 0.1, 0.1) wt. no DNAdam (1, 10.0, 1, 0.1, 0.1) krasΔ, no DNAdam, 0/0 (1, 10.0,	- 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 1 - 1.0 1.0 1.0 0.970.030.030.030.97 - 1 - 1.0 1.0 1.0 0.970.030.030.93 - 7 - 1.0 1.0 1.0 0.970.020.020.030.97 - 1 - 1.0 1.0 1.0 0.970.020.020.030.97 - 1	0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 0 1.0 1.0 0.970.030.030.030.97 - 0 1.0 1.0 0.960.040.040.040.96 - 0 1.0 1.0 0.960.030.030.040.96 - 0 1.0 1.0 0.960.030.030.040.96 -	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.980.020.020.020.98 1.0 1.0 1.0 0.970.020.020.030.97 1.0 1.0 1.0 0.970.030.030.030.97 1.0 1.0 1.0 0.970.030.030.030.97	- 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	- 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.840.150.150.160.84 - 1.0 1.0 1.0 0.820.150.150.180.82 - 1.0 1.0 1.0 0.840.140.140.160.84 - 1.0 1.0 1.0 0.8 0.150.15 0.2 0.8	- 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 1.0 0.960.030.030.040.96 - 1.0 1.0 1.0 0.960.030.030.040.96 - 1.0 1.0 1.0 0.960.030.030.040.96 - 1.0 1.0 1.0 0.950.040.040.050.95	-1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.830.150.150.170.83 -1.0 1.0 1.0 0.820.160.160.180.82 -1.0 1.0 1.0 0.830.140.140.170.83 -1.0 1.0 1.0 0.790.180.180.210.79	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0
wt, no DNAdam (1, 10.0, 10.0, 0.1, 0.1) krasΔ, no DNAdam, 0/0 (1, 10.0, 10.0, 0.1, 0.1) krasΔ, DNAdam, 0/0 (1, 10.0, 10.0, 0.1, 0.1) krasΔ, DNAdam, chek1i/0 (1, 10.0, 10.	0.8 0.8 0.8 1.0 0.0 0.0 1.0 0.1 0.0 0.0 1.0 0.0 1.0 0.0 0	(1, 10.0, 10.0, 0.1, 10.0) 820.820.82 1.0 0.0 0.0 0.0 1.0	(1, 10.0, 10.0, 1, 0.1) 0.810.810.81 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.950.030.030.050.95 1.0 1.0 1.0 0.950.040.040.050.95 1.0 1.0 1.0 0.950.040.040.050.95 1.0 1.0 1.0 0.950.040.040.050.95 1.0 1.0 1.0 0.950.040.040.050.95 1.0 1.0 1.0 0.950.040.040.050.95	(1, 10.0, 10.0, 1, 1) -0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.8 0.170.17 0.2 0.8 -1.0 1.0 1.0 0.8 0.160.16 0.2 0.8 -1.0 1.0 1.0 0.8 0.160.16 0.2 0.8 -1.0 1.0 1.0 0.790.170.170.210.79 (10.0, 0.1, 0.1, 1, 1)	(1, 10.0, 10.0, 1, 10.0) 0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.760.210.210.240.76 1.0 1.0 0.77 0.2 0.2 0.2 0.2 0.77 1.0 1.0 1.0 0.690.270.270.310.69 (10.0, 0.1, 0.1, 1, 10.0)	(1, 10.0, 10.0, 10.0, 0.1) -0.810.810.81 1.0 0.0 0.0 0.0 1.0 -0.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -0.1 0.1 0.0 0.930.050.050.070.93 -0.1 0.1 0.0 0.930.050.050.070.93 -0.1 0.1 0.0 0.930.050.050.070.93 -0.1 0.1 0.0 0.930.050.050.070.93 -0.1 0.1 0.0 0.930.050.050.070.93	(1, 10.0, 10.0, 10.0, 1) -0.820.820.82 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.760.220.220.240.76 -1.0 1.0 1.0 0.740.230.230.260.74 -1.0 1.0 1.0 0.720.230.230.280.72 (10.0, 0.1, 0.1, 10.0, 1)	(1, 10.0, 10.0, 10.0, 10.0) -0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.7 0.270.270.290.71 -1.0 1.0 1.0 0.650.330.330.350.65 -1.0 1.0 1.0 0.630.340.340.370.63 (10.0, 0.1, 0.1, 10.0, 10.0)
wt, no DNAdam - 1820 820 820 820 820 10 10 10 10 10 10 10 10 10 10 10 10 10	0.830.830.830.87 0.0 0.0 0.0 0.87	810.810.810.87 0.0 0.0 0.0 0.87 - 1	0.810.810.810.86 0.0 0.0 0.0 0.86 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 (10.0, 0.1, 1, 1, 0.1)	0.8 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.8 0.8	0.8 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0	0.8 0.8 0.8 0.8 7 0.0 0.0 0.0 0.0 0.8 7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.810.810.87 0.0 0.0 0.0 0.87 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	0.8 0.8 0.8 0.8 6 0.0 0.0 0.0 0.8 6 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 (10.0, 0.1, 1, 10.0, 10.0)
wt, no DNAdam 181081081087 10 10 10 10 10 10 10 10 10 10 10 10 10	1.0 1.0 1.0 1.0 0.0 0.0 1.0	810.810.810.870.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0	0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0	-0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	-0.810.810.87 0.0 0.0 0.0 0.87 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0	-0.790.790.850.000.000.85 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.990.010.010.010.99 -1.0 1.0 1.0 0.980.010.010.020.98 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.980.020.020.020.98	-0.790.790.85 0.0 0.0 0.0 0.85 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.980.020.020.020.98
krasΔ, no DNAdam, 0/0 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 0.0 0.0 0.0 1.0 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.980.020.020.020.98 1.0 1.0 1.0 0.980.020.020.020.98 1.0 1.0 1.0 0.980.020.020.020.98 1.0 1.0 1.0 0.980.020.020.020.98 (10.0, 1, 0.1, 10.0, 1)	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.980.020.020.020.98 1.0 1.0 1.0 0.970.020.020.030.97 1.0 1.0 1.0 0.970.020.030.030.97 1.0 1.0 1.0 0.970.020.030.030.97 (10.0, 1, 0.1, 10.0, 10.0) 0.810.810.810.99 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0
krasΔ, DNAdam, chek1i/0 - 10 10 10 10 00 00 10 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 00 00 10 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 10 00 00 10 (10.0, 1, 1, 0.1, 0.1) wt, no DNAdam - 0.8 0.8 0.8 0.9 0.0 00 00 10 krasΔ, no DNAdam, 0/0 - 10 10 10 10 00 00 10 10	(10.0, 1, 1, 0.1, 1) -0.810.810.810.99 0.0 0.0 0.0 1.0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	(10.0, 1, 1, 0.1, 10.0)	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 (10.0, 1, 1, 1, 0.1) 0.8 0.8 0.8 0.8 0.9 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	1.0 1.0 1.0 (1990.010.010.010.0199 1.0 1.0 1.0 (1990.010.010.010.0199 1.0 1.0 1.0 (1990.010.010.010.0199 1.0 1.0 1.0 (1990.010.010.010.0199 (10.0, 1, 1, 1, 1) -0.810.810.810.99 0.0 0.0 0.0 1.0	(10.0, 1, 1, 1, 10.0)	(10.0, 1, 1, 10.0, 0.1)	-1.0 1.0 1.0 0.990.010.010.0199 -1.0 1.0 1.0 0.990.010.010.01999 -1.0 1.0 1.0 0.990.010.010.01999 -1.0 1.0 1.0 0.990.010.010.01999 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.999	1.0 1.0 1.0 0.970.030.030.030.97 1.0 1.0 1.0 0.970.020.020.030.97 1.0 1.0 1.0 0.980.020.020.020.98 1.0 1.0 1.0 0.980.020.020.020.98 (10.0, 1, 1, 10.0, 10.0)
krasΔ, DNAdam, 0/0 - 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(10.0, 1, 10.0, 0.1, 1) -0.810.810.810.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.0 0.0 0.0 0.0	1.0 1.0 1.9 1.0 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 0.990.010.010.010.99 1.0 1.0 1.0 0.990.010.010.010.99 1.0 1.0 1.0 0.990.010.010.010.99 1.0 1.0 1.0 0.990.010.010.010.99 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.980.020.020.020.99	-1.0 1.0 1.0 0.960.040.040.040.96 -1.0 1.0 1.0 0.950.050.050.050.95 -1.0 1.0 1.0 0.970.030.030.97 -1.0 1.0 1.0 0.950.050.050.050.95 (10.0, 1, 10.0, 1, 1) -0.8 0.8 0.8 0.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.930.070.070.070.93	1.0 1.0 1.0 0.950.050.050.050.95 1.0 1.0 1.0 0.940.060.060.060.94 1.0 1.0 1.0 0.930.070.070.070.93 1.0 1.0 1.0 0.930.060.060.070.93 (10.0, 1, 10.0, 1, 10.0) 	- 1.0 1.0 1.0 0.980.010.010.020.98 - 1.0 1.0 1.0 0.990.010.010.010.99 - 1.0 1.0 1.0 0.980.020.020.020.98 - (10.0, 1, 10.0, 10.0, 0.1) - 0.810.810.810.99 0.0 0.0 0.0 0.99 - 1.0 1.0 1.0 0.970.030.030.030.97	-1.0 1.0 1.0 0.930.060.060.070.93 -1.0 1.0 1.0 0.920.070.070.080.92 -1.0 1.0 1.0 0.940.060.060.060.94 -1.0 1.0 1.0 0.920.070.070.080.92 -1.0 1.0 1.0 0.920.070.070.080.92 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0	-1.0 1.0 1.0 0.890.110.110.10.89 -1.0 1.0 1.0 0.89 0.1 0.1 0.110.89 -1.0 1.0 1.0 0.9 0.090.09 0.1 0.9 -1.0 1.0 1.0 0.880.120.120.120.88 -1.0 1.0 1.0 0.880.120.120.120.88 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
krasΔ, DNAdam, chek1i/0 - 10 10 10 10 10 10 10 10 10 10 10 10 10	- 1.0 1.0 1.0 0.980.020.020.020.98 - 1 - 1.0 1.0 1.0 0.980.020.020.020.98 - 1 - 1.0 1.0 1.0 0.990.010.010.010.99 - 1	(10.0, 10.0, 0.1, 0.1, 10.0) 790.790.79	1.0 1.0 1.0 1.980.020.020.020.98 1.0 1.0 1.0 1.980.020.020.020.98 1.0 1.0 1.0 1.980.020.020.020.98 (10.0, 10.0, 0.1, 1, 0.1) 0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	(10.0, 10.0, 0.1, 1, 1) -0.810.810.81	(10.0, 10.0, 880.120.120.120.120.88 1.0, 1.0, 1.0, 0.890.110.110.110.89 1.0, 1.0, 1.0, 0.70.120.120.130.87 (10.0, 10.0, 0.1, 1, 10.0) 0.810.810.81, 1.0, 0.0, 0.0, 0.0, 0.0 1.0, 1.0, 1.0, 0.0, 0.0, 0.0, 0.0 1.0, 1.0, 1.0, 0.0, 0.0, 0.0, 0.0	(10.0, 10.0, 0.1, 10.0, 0.1) -0.810.810.811.0 0.0 0.0 0.0 1.0 -0.10 1.0 1.0 0.990.010.010.99	-1.0 1.0 1.0 0.880.120.120.120.88 -1.0 1.0 1.0 0.880.120.120.120.88 -1.0 1.0 1.0 0.860.130.130.140.86 (10.0, 10.0, 0.1, 10.0, 1) -0.810.810.81 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.970.020.020.030.97	-1.0 1.0 1.0 0.830.170.170.170.83 -1.0 1.0 1.0 0.840.150.150.160.84 -1.0 1.0 1.0 0.820.170.170.180.82 (10.0, 10.0, 0.1, 10.0, 10.0) -0.810.810.81 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.960.040.040.040.96
krasΔ, DNAdam, 0/mk2i - 10 10 10 10 10 10 10 10 10 10 10 10 10	(10.0, 10.0, 1, 0.1, 1)	(10.0, 10.0, 1, 0.1, 10.0) 780.780.78 1.0 0.0 0.0 0.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	(10.0, 10.0, 1, 1, 1) -1.0 1.0 1.0 1.991.010.010.021.98 -1.0 1.0 1.0 1.980.020.021.021.98 (10.0, 10.0, 1, 1, 1) -0.790.790.79 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0	(10.0, 10.0, 1, 1, 10.0) -0.810.810.81 .00 .00 0.0 1.0 -0.10 1.0 0.80.110.110.120.88 -0.10 1.0 0.80.120.120.120.88	(10.0, 10.0, 1, 10.0, 0.1)	-1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.980.020.020.020.98 -1.0 1.0 1.0 0.970.030.030.99 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.880.110.110.120.88 -1.0 1.0 1.0 0.870.130.130.130.87	-1.0 1.0 1.0 0.970.030.030.97 -1.0 1.0 1.0 0.960.040.040.040.96 -1.0 1.0 1.0 0.960.040.040.040.96 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.810.180.180.190.81 -1.0 1.0 1.0 0.810.190.190.190.81
krasΔ, DNAdam, chek1i/mk2i - 10.0, 10.0, 10.0, 0.1, 0.1) wt, no DNAdam - 3810.81 10 00 00 00 10 krasΔ, no DNAdam, 0/0 - 10 10 10 00 00 00 10 krasΔ. DNAdam, 0/0 - 10 10 10 10 00 00 00 10	-0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 -0.1	10 1.0 1.0 1.971.030.030.030.97 - 1.0 1.0 1.0 1.971.030.030.030.97 - 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.0 1.0 1.0 1.980.010.010.020.98 1.0 1.0 1.0 1.980.020.020.020.98 (10.0, 10.0, 10.0, 1, 0.1) 0.810.810.81 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0	(10.0, 10.0, 10.0, 10.0, 1, 1) -1.0, 1.0, 1.0, 10.0, 10.0, 1, 1) -1.0, 1.0, 10.0, 10.0, 1, 1) -1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0,	(10.0, 10.0, 10.0, 10.0, 1, 10.0) 	(10.0, 10.0, 10.0, 10.0, 0.1) 	(10.0, 10.0, 10.0, 10.1,	- 1.0 1.0 1.0 0.820.170.170.180.82 - 1.0 1.0 1.0 0.830.170.170.170.83 (10.0, 10.0, 10.0, 10.0, 10.0) - 0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.730.260.260.270.73 - 1.0 1.0 1.0 0.70.290.290.3 0.7 - 1.0 1.0 1.0 0.710.290.290.290.71
TEN A	A SSB	MANAMANANANANANANANANANANANANANANANANAN	FISSBERGE OF THE STATE OF THE S	TRAP VANA VANA TION VANA VION VANA VION VION VION VION VION VION VION VION	10 10 10 178 210 210 220 78 11 12 10 11 12 12 12 12 12 12 12 12 12 12 12 12	MAF MEKF MEKF MEKF MEKF ME ME ME ME ME ME ME ME ME ME ME ME ME	L ∠ ⊗ T ← G ← C ← C ← C ← C ← C ← C ← C ← C ← C	BRAF PER PRESCRIPTION PROLIFERATION PRO