(0.1, 0.1, 0.1, 0.1, 0.1, 0.1)  wt, no DNAdam krasΔ, no DNAdam, 0/0 krasΔ, DNAdam, 0/0 krasΔ, DNAdam, chek1i/0 krasΔ, DNAdam, 0/mk2i krasΔ, DNAdam, chek1i/mk2i	(0.1, 0.1, 0.1, 0.1, 1) -0.790.790.790.03 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 0.8 0.8 0.8 7.0 -1.0 1.0 1.0 0.0 0.8 0.8 0.8 0.0 -1.0 1.0 1.0 0.0 0.8 0.8 0.8 0.0 -1.0 1.0 1.0 0.0 0.8 0.8 0.8 0.0 -1.0 1.0 1.0 0.0 0.8 0.8 0.8 0.0 -1.0 1.0 1.0 0.0 0.8 0.8 0.8 0.0 -1.0 1.0 1.0 0.0 0.8 0.8 0.8 0.0 -1.0 1.0 1.0 0.0 0.8 0.8 0.8 0.0	(0.1, 0.1, 0.1, 0.1, 10.0)  0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0  0.0 1.0 1.0 0.0 0.8 0.8 0.9 0.0  0.0 1.0 1.0 0.0 0.9 0.9 0.9 0.0  0.0 1.0 1.0 0.0 0.9 0.9 0.9 0.0  0.0 1.0 1.0 0.0 0.9 0.9 0.9 0.0  0.0 1.0 1.0 0.0 0.9 0.9 0.9 0.0	(0.1, 0.1, 0.1, 1, 0.1)  0.8 0.8 0.8 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  0.1 0 1.0 0.0 0.450.450.49  0.1 0 1.0 0.0 0.450.450.49  0.1 0 1.0 0.0 0.430.430.47  0.1 0 1.0 0.0 0.450.45 0.5	(0.1, 0.1, 0.1, 1, 1)  -0.810.810.810.02 0.0 0.0 0.0 0.0 0.0  -1.0 1.0 1.0 0.0 0.820.820.88 0.0  -1.0 1.0 1.0 0.0 0.830.830.89 0.0  -1.0 1.0 1.0 0.0 0.8 0.8 0.87 0.0  -1.0 1.0 1.0 0.0 0.810.810.87 0.0	(0.1, 0.1, 0.1, 1, 10.0)  -0.810.810.810.03 0.0 0.0 0.0 0.0 0.05 -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 0.9 0.9 0.94 0.0 -1.0 1.0 1.0 0.0 0.870.870.92 0.0 -1.0 1.0 1.0 0.0 0.890.890.94 0.0 -1.0 1.0 1.0 0.0 0.880.880.94 0.0	(0.1, 0.1, 0.1, 10.0, 0.1)  -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 0.0  -0.0 1.0 1.0 0.0 0.450.450.49 0.0  -1.0 1.0 1.0 0.0 0.450.450.49 0.0  -1.0 1.0 1.0 0.0 0.450.450.49 0.0  -1.0 1.0 1.0 0.0 0.450.450.49 0.0	(0.1, 0.1, 0.1, 10.0, 1)  -0.820.820.820.030.0 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  -1.0 1.0 1.0 0.0 0.830.830.89 0.0  -1.0 1.0 1.0 0.0 0.8 0.8 0.8 0.0  -1.0 1.0 1.0 0.0 0.8 0.8 0.8 0.0	(0.1, 0.1, 0.1, 10.0, 10.0)  -0.790.790.790.03 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 0.890.890.94 0.0  -1.0 1.0 1.0 0.0 0.9 0.9 0.9 0.9  -1.0 1.0 1.0 0.0 0.880.880.93 0.0
wt, no DNAdam (0.1, 0.1, 1, 0.1, 0.1)  wt, no DNAdam (0.8 0.8 0.8 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0 1	(0.1, 0.1, 1, 0.1, 10.0) 810.810.810.04 0.0 0.0 0.0 0.0 0.0 10 1.0 1.0 0.0 0.0 0.0 0.0 0.0 10 1.0 1.0 0.0 0.9 0.9 0.9 0.0 10 1.0 1.0 0.0 0.890.890.99 0.0 10 1.0 1.0 0.0 0.890.890.99 0.0 10 1.0 1.0 0.0 0.9 0.91.10 0.0	(0.1, 0.1, 1, 1, 0.1)  0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.04  0.0 1.0 1.0 0.0 0.450.450.49 0.0  0.0 1.0 1.0 0.0 0.450.450.480.01  0.0 1.0 1.0 0.0 0.430.430.47 0.0  0.0 1.0 1.0 0.0 0.460.460.51 0.0	(0.1, 0.1, 1, 1, 1)  -0.820.820.820.03 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 0.0 0.820.820.88 0.0  -1.0 1.0 1.0 0.0 0.820.820.87 0.0  -1.0 1.0 1.0 0.0 0.820.820.87 0.0  -1.0 1.0 1.0 1.0 0.0 0.820.820.87 0.0	(0.1, 0.1, 1, 1, 10.0)  -0.820.820.820.03 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 0.890.890.94 0.0  -1.0 1.0 1.0 0.0 0.890.890.94 0.0  -1.0 1.0 1.0 0.0 0.890.890.94 0.0  -1.0 1.0 1.0 0.0 0.890.890.94 0.0	(0.1, 0.1, 1, 10.0, 0.1)	(0.1, 0.1, 1, 10.0, 1) -0.820.820.820.820.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(0.1, 0.1, 1, 10.0, 10.0) -0.8 0.8 0.8 0.04 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 0.9 0.9 0.94 0.0
wt, no DNAdam, 0/0 + 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	(0.1, 0.1, 10.0, 0.1, 1)  -0.810.810.810.03 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 0.0 0.810.810.87 0.0  -1.0 1.0 1.0 0.0 0.810.810.87 0.0  -1.0 1.0 1.0 0.0 0.810.810.87 0.0  -1.0 1.0 1.0 0.0 0.810.810.87 0.0  -1.0 1.0 1.0 0.0 0.810.810.87 0.0  -1.0 1.0 1.0 0.0 0.810.810.87 0.0  -1.0 1.0 1.0 0.0 0.810.810.87 0.0	(0.1, 0.1, 10.0, 0.1, 10.0) .790.790.790.04 0.0 0.0 0.0 0.0 .0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 .0 1.0 1.0 0.0 0.9 0.9 0.9 0.0 .0 1.0 1.0 0.0 0.890.890.94 0.0	(0.1, 0.1, 10.0, 1, 0.1) 790.790.790.04 0.0 0.0 0.0 0.0 .0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 .0 1.0 1.0 0.0 0.430.430.47 0.0 .0 1.0 1.0 0.0 0.480.480.510.0 .0 1.0 1.0 0.0 0.420.420.45 0.0 .0 1.0 1.0 0.0 0.440.440.470.01 (0.1, 1, 0.1, 1, 0.1)	(0.1, 0.1, 10.0, 1, 1)  -0.810.810.810.03 0.0 0.0 0.0 0.0 0.0  -1.0 1.0 1.0 0.0 0.8 0.8 0.8 0.9 0.0  -1.0 1.0 1.0 0.0 0.810.810.87 0.0  -1.0 1.0 1.0 0.0 0.810.810.87 0.0  -1.0 1.0 1.0 0.0 0.830.830.89 0.0  (0.1, 1, 0.1, 1, 1)	(0.1, 0.1, 10.0, 1, 10.0)  -0.820.820.820.03 0.0 0.0 0.0 0.04  -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.04  -1.0 1.0 1.0 0.0 0.9 0.9 0.95 0.0  -1.0 1.0 1.0 0.0 0.9 0.9 0.94 0.0  -1.0 1.0 1.0 0.0 0.9 0.9 0.94 0.0  -1.0 1.0 1.0 0.0 0.9 0.9 0.94 0.0  (0.1, 1, 0.1, 1, 10.0)	(0.1, 0.1, 10.0, 10.0, 0.1)  -0.810.810.810.04 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 0.0 0.450.450.49 0.0  -1.0 1.0 1.0 0.0 0.460.46 0.5 0.0  -1.0 1.0 1.0 0.0 0.450.450.48 0.0  (0.1, 1, 0.1, 10.0, 0.1)	(0.1, 0.1, 10.0, 10.0, 1)  0.8 0.8 0.8 0.8 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 0.0 0.820.820.880.0  1.0 1.0 1.0 0.0 0.830.830.870.0  1.0 1.0 1.0 0.0 0.8 0.8 0.870.0  (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 0.0 0.0  -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0  -1.0 1.0 1.0 0.0 0.9 0.9 0.9 0.9  -1.0 1.0 1.0 0.0 0.9 0.9 0.9 0.9  -1.0 1.0 1.0 0.0 0.8 0.8 0.9 0.0  -1.0 1.0 1.0 0.0 0.8 0.8 0.9 0.0  -1.0 1.0 1.0 0.0 0.8 0.8 0.9 0.0  -1.0 1.0 1.0 0.0 0.8 0.8 0.9 0.0  -1.0 1.0 1.0 0.0 0.8 0.8 0.9 0.0  -1.0 1.0 1.0 0.0 0.8 0.8 0.9 0.0
wt, no DNAdam	-0.820.820.820.12 0.0 0.0 0.0 0.12 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.0 0.820.820.88 0.0 -1.0 1.0 1.0 0.0 0.810.810.87 0.0 -1.0 1.0 1.0 0.0 0.810.810.87 0.0 -1.0 1.0 1.0 0.0 0.820.820.880.01	0.8 0.8 0.8 0.12 0.0 0.0 0.0 0.13 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.0 0.8 0.8 0.9 3 0.0 1.0 1.0 1.0 0.0 0.8 0.8 0.9 4 0.0 1.0 1.0 1.0 0.0 0.8 0.8 0.9 4 0.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 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	810.810.810.11 0.0 0.0 0.0 0.13 .0 1.0 1.0 0.0 0.0 0.0 0.0 0.07 .0 1.0 1.0 0.0 0.430.430.47 0.0 .0 1.0 1.0 0.0 0.430.430.480.01 .0 1.0 1.0 0.0 0.450.45 0.5 0.01 .0 1.0 1.0 0.020.440.440.470.02 (0.1, 1, 1, 1, 0.1)	-0.8 0.8 0.8 0.13 0.0 0.0 0.0 0.14 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.07 -1.0 1.0 1.0 0.0 0.820.820.88 0.0 -1.0 1.0 1.0 0.0 0.810.810.88 0.0 -1.0 1.0 1.0 0.0 0.810.810.88 0.0 -1.0 1.0 1.0 0.0 0.810.830.880.01 (0.1, 1, 1, 1, 1)	-0.820.820.820.11 0.0 0.0 0.13 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.8 0.8 0.8 0.12 0.0 0.0 0.0 0.14 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.07 1.0 1.0 1.0 0.0 0.450.450.490.01 1.0 1.0 1.0 0.0 0.460.460.490.01 1.0 1.0 1.0 0.0 0.460.460.510.01 1.0 1.0 1.0 0.0 0.450.450.5 0.01 (0.1, 1, 1, 10.0, 0.1)	0.8 0.8 0.8 0.12 0.0 0.0 0.0 0.14 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.07 1.0 1.0 1.0 0.0 0.820.820.860.01 1.0 1.0 1.0 0.0 0.820.820.880.01 1.0 1.0 1.0 0.0 0.820.820.880.01 (0.1, 1, 1, 10.0, 1)	0.8 0.8 0.8 0.13 0.0 0.0 0.0 0.14 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.0 0.8 9.8 9.9 0.0 (0.1, 1, 1, 1, 10.0, 10.0)
wt, no DNAdam	0.8 0.8 0.8 0.14 0.0 0.0 0.0 0.15 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.6 1.0 1.0 1.0 0.0 0.810.810.87 0.0 1.0 1.0 1.0 0.0 0.820.820.870.01 1.0 1.0 1.0 0.0 0.820.820.88 0.0 1.0 1.0 1.0 0.0 0.820.820.870.01 (0.1, 1, 10.0, 0.1, 1)	810.810.810.12 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	0.8 0.8 0.8 0.12 0.0 0.0 0.0 0.17 0.10 1.0 0.0 0.0 0.0 0.0 0.16 0.10 1.0 0.0 0.460.460.5 0.02 0.10 1.0 0.0 0.430.470.02 0.10 1.0 0.0 0.430.470.520.02 (0.1, 1, 10.0, 1, 0.1)	0.820.820.820.12 0.0 0.0 0.0 0.16 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.17 1.0 1.0 1.0 0.0 0.820.820.880.01 1.0 1.0 1.0 0.0 0.810.810.860.01 1.0 1.0 1.0 0.0 0.820.820.880.01 (0.1, 1, 10.0, 1, 1)	0.8 0.8 0.8 0.13 0.0 0.0 0.0 0.17 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.16 1.0 1.0 1.0 0.0 0.890.890.94 0.0 1.0 1.0 1.0 0.0 0.890.890.94 0.0 1.0 1.0 1.0 0.0 0.890.890.99 0.0 (0.1, 1, 10.0, 1, 10.0)	0.790.790.790.14 0.0 0.0 0.0 0.18 0.0 0.10 0.0 0.10 0.0 0.0 0.10 0.0 0.0	0.8 0.8 0.8 0.14 0.0 0.0 0.0 0.10 0.15 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.17 1.0 1.0 1.0 0.0 0.830.830.890.01 1.0 1.0 1.0 0.0 0.830.830.890.01 1.0 1.0 1.0 0.0 0.830.830.890.01 (0.1, 1, 10.0, 10.0, 1)	0.790.790.790.15 0.0 0.0 0.0 0.2 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.19 1.0 1.0 1.0 0.0 0.9 0.9 0.94 0.0 1.0 1.0 1.0 0.0 0.910.910.95 0.0 1.0 1.0 1.0 0.0 0.90.891.94 0.0 1.0 1.0 1.0 0.0 0.9 0.9 0.940.01 (0.1, 1, 10.0, 10.0, 10.0)
krasΔ, no DNAdam, 0/0 krasΔ, no DNAdam, 0/0 krasΔ, DNAdam, 0/0 krasΔ, DNAdam, 0/0 krasΔ, DNAdam, chek1i/0 krasΔ, DNAdam, 0/mk2i krasΔ, DNAdam, chek1i/mk2i (0.1, 10.0, 0.1, 0.1, 0.1) wt, no DNAdam	1.0 1.0 1.0 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 0.0 0.0 0.0 0.0 0	.0 1.0 1.0 0.0 0.0 0.0 0.17 .0 1.0 1.0 0.0 0.440.440.480.02 .0 1.0 1.0 0.0 0.460.450.490.03 .0 1.0 1.0 0.0 0.460.46 0.5 0.02 .0 1.0 1.0 0.0 0.460.450.490.03 .0 1.0 1.0 0.0 0.1, 1, 0.1)	0.8 0.8 0.80.12 0.0 0.0 0.0 0.18 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.19 1.0 1.0 1.0 0.0 0.820.820.880.01 1.0 1.0 1.0 0.0 0.820.820.880.01 1.0 1.0 1.0 0.0 0.820.820.880.01 1.0 1.0 1.0 0.0 0.820.820.880.01 (0.1, 10.0, 0.1, 1, 1)	-0.810.810.12.0.0 0.0 0.0 0.18 -1.0 1.0 1.0 0.0 0.890.890.940.01 -1.0 1.0 1.0 0.0 0.890.890.94 0.0 -1.0 1.0 1.0 0.0 0.910.910.95 0.0 -1.0 1.0 1.0 0.0 0.9 0.9 0.940.01 -1.0 1.0 0.0 0.0 0.1 0.1 0.0 0.0 0.0 0.18		1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.17 1.0 1.0 1.0 0.0 0.830.830.880.01 1.0 1.0 1.0 0.0 0.830.830.880.01 1.0 1.0 1.0 0.0 0.830.830.880.01 1.0 1.0 1.0 0.0 0.820.820.880.01 (0.1, 10.0, 0.1, 10.0, 1) -0.790.790.790.160.0 0.0 0.0 0.0 0.17	-0.790.790.790.13 0.0 0.0 0.0 0.19 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.18 -1.0 1.0 1.0 0.0 0.9 0.9 0.95 0.0 -1.0 1.0 1.0 0.0 0.9 0.9 0.95 0.0
krasΔ, no DNAdam, 0/0 (10 10 10 10 10 10 10 10 10 10 10 10 10 1	1.0 1.0 1.0 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 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 0	1.0 1.0 1.0 0.0 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	1.0 1.0 1.0 0.0 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 0.0	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.1 1.0 1.0 1.0 0.0 0.9 0.9 0.9 0.9 0.0 1.0 1.0 1.0 0.0 0.890.890.930.0 1.0 1.0 1.0 0.0 0.890.890.950.0 1.0 1.0 1.0 0.0 0.890.890.940.0 (0.1, 10.0, 1, 10.0, 10.0) 
krasΔ, no DNAdam, 0/0 + 100 100 100 100 100 100 100 100 100		1.0   1.0   0.0	0.1.0 1.0 0.0 0.0 0.0 0.0 0.23 0.1.0 1.0 0.0 0.460.46 0.5 0.03 0.1.0 1.0 0.0 0.450.450.49 0.1.0 1.0 0.0 0.450.450.49 0.1.0 1.0 0.0 0.450.450.49 0.1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.2 1.0 1.0 1.0 0.0 0.820.820.880.01 1.0 1.0 1.0 0.0 0.820.830.890.02 1.0 1.0 1.0 1.0 0.0 0.810.810.870.01 1.0 1.0 1.0 0.0 0.810.810.870.01 1.0 1.0 1.0 0.0 0.820.820.880.02 (0.1, 10.0, 10.0, 1, 1) 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.24	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.2 1.0 1.0 1.0 0.0 0.9 0.9 0.95 0.0 1.0 1.0 1.0 0.0 0.9 0.9 0.920.0 1.0 1.0 1.0 0.0 0.9 0.9 0.950.0 (0.1, 10.0, 10.0, 1, 10.0) 	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.26 1.0 1.0 1.0 0.0 0.440.440.480.03 1.0 1.0 1.0 0.020.450.45 0.5 0.05 1.0 1.0 1.0 0.050.450.450.490.05 (0.1, 10.0, 10.0, 10.0, 0.1) 0.820.820.820.14 0.0 0.0 0.0 0.23	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.23 1.0 1.0 1.0 0.0 0.830.830.890.01 1.0 1.0 1.0 0.0 0.830.830.890.01 1.0 1.0 1.0 0.0 0.830.830.890.01 1.0 1.0 1.0 0.0 0.830.830.880.01 (0.1, 10.0, 10.0, 10.0, 1) 	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.23 1.0 1.0 1.0 0.0 0.9 0.9 0.9 0.9 1.0 1.0 1.0 0.0 0.9 0.9 0.9 0.0 1.0 1.0 1.0 0.0 0.9 0.9 0.9 0.0 1.0 1.0 1.0 0.0 0.9 0.9 0.9 0.0 (0.1, 10.0, 10.0, 10.0, 10.0) 
krasΔ, no DNAdam, 0/0 10 10 10 10 00 00 00 00 00 00 00 00 00	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.11 1.0 1.0 1.0 0.0 0.8 0.8 0.870.01 1.0 1.0 1.0 0.0 0.8 0.8 0.870.02 1.0 1.0 1.0 0.0 0.820.820.880.01 1.0 1.0 1.0 0.0 0.820.820.880.01 (1, 0.1, 0.1, 0.1, 1)	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.12 1.0 1.0 1.0 0.0 0.890.890.94 0.0 1.0 1.0 1.0 0.0 0.890.890.93 0.0 1.0 1.0 0.0 0.880.880.93 0.0 1.0 1.0 0.0 0.880.880.93 0.0 (1, 0.1, 0.1, 0.1, 10.0) 790.790.790.04 0.0 0.0 0.0 0.04	(1, 0.1, 0.1, 1, 0.1)  8 0.8 0.8 0.8 0.0 0.0 0.0 0.24	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.24 1.0 1.0 1.0 0.0 0.830.830.830.02 1.0 1.0 1.0 0.0 0.820.820.880.01 1.0 1.0 1.0 0.0 0.820.820.880.01 (1, 0.1, 0.1, 1, 1) 	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.24 1.0 1.0 1.0 0.0 0.9 0.9 0.950.01 1.0 1.0 1.0 0.0 0.850.850.95 0.0 1.0 1.0 1.0 0.0 0.850.850.95 0.0 (1, 0.1, 0.1, 1, 10.0) - 0.8 0.8 0.8 0.4 0.0 0.0 0.0 0.0 4.04	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.25 1.0 1.0 1.0 0.0 0.460.46 0.5 0.03 1.0 1.0 1.0 0.020.470.470.510.05 1.0 1.0 1.0 0.050.450.45 0.5 0.04 (1, 0.1, 0.1, 10.0, 0.1) 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.04	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.25 1.0 1.0 1.0 0.0 0.840.84 0.9 0.01 1.0 1.0 1.0 0.0 0.840.840.890.01 1.0 1.0 1.0 0.0 0.830.830.880.01 (1, 0.1, 0.1, 10.0, 1) 	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.25 1.0 1.0 1.0 0.0 0.9 0.9 0.94 0.0 1.0 1.0 1.0 0.0 0.9 0.9 0.94 0.0 1.0 1.0 1.0 0.0 0.9 0.9 0.94 0.0 1.0 1.0 1.0 0.0 0.9 0.9 0.95 0.0 (1, 0.1, 0.1, 10.0, 10.0)
wt, no DNAdam -0.790.790.790.0400 00 00000000000000000000000000000	1.0 1.0 1.0 0.0 0.350.350.480.0 1.0 1.0 1.0 0.020.350.350.460.02 1.0 1.0 1.0 0.0340.340.480.0 1.0 1.0 1.0 0.0340.340.460.01 (1, 0.1, 1, 0.1, 1)	1.0 1.0 0.0 0.50.560.71 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	(1, 0.1, 1, 1, 0.1)  810.810.810.04 0.0 0.0 0.0 0.0  0 1.0 1.0 0.0 0.070.07 0.1 0.0  (1, 0.1, 1, 1, 0.1)	1.0 1.0 1.0 0.0 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 0.0	(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, 0.1)	(1, 0.1, 1, 10.0, 1)	(1, 0.1, 1, 10.0, 10.0)  -3.0 3.0 3.0 0.0 0.0 0.0 0.0 0.0  -4.0 1.0 1.0 0.0 0.5 0.5 0.6 0.0  -4.0 1.0 1.0 0.0 0.5 0.5 0.6 0.0  -4.0 1.0 1.0 0.0 0.0 0.0 0.0  -5.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0  -6.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0  -6.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0  -7.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0
krasΔ, no DNAdam, 0/0 + 100 100 100 100 100 100 100 100 100	(1, 0.1, 10.0, 0.1, 1)	(1, 0.1, 10.0, 0.1, 10.0) (1, 0.1, 10.0, 0.1, 10.0) (1, 0.1, 10.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0	(1, 0.1, 10.0, 1, 0.1)  (1, 0.1, 10.0, 0.0, 0.0, 0.0, 0.0)  (1, 0.1, 10.0, 1, 0.1)	1.0 1.0 1.0 0.0 0.350.350.470.01 1.0 1.0 1.0 0.0 0.330.330.450.01 1.0 1.0 1.0 0.0 0.350.350.460.01 (1, 0.1, 10.0, 1, 1) 	1.0 1.0 1.0 0.0 0.5 0.56 0.7 0.0 1.0 1.0 1.0 0.0 0.5 0.5 0.7 0.0 1.0 1.0 1.0 0.0 0.5 0.5 0.7 0.0 1.0 1.0 1.0 0.0 0.5 0.5 0.5 0.7 1.0 1.0 1.0 1.0 0.0 0.5 0.5 0.5 0.7 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 0.0 0.060.060.090.01 1.0 1.0 1.0 0.010.070.07 0.1 0.02 1.0 1.0 1.0 0.0 0.070.07 0.1 0.02 (1, 0.1, 10.0, 10.0, 0.1) 	1.0 1.0 1.0 0.0 0.350.350.460.01 1.0 1.0 1.0 0.0 0.370.370.480.01 1.0 1.0 1.0 0.0 0.350.350.460.01 (1, 0.1, 10.0, 10.0, 1)	1.0 1.0 1.0 0.0 0.570.57 0.7 0.0 1.0 1.0 1.0 0.0 0.550.550.69 0.0 1.0 1.0 1.0 0.0 0.570.57 0.7 0.0 1.0 1.0 1.0 0.0 0.570.57 0.7 0.0 1.0 1.0 1.0 0.0 0.570.57 0.7 0.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0
krasΔ, DNAdam, 0/0 + 100 100 100 100 100 100 100 100 100	1.0 1.0 1.0 0.0 0.350.350.460.01 1.0 1.0 1.0 0.0 0.350.350.460.01 1.0 1.0 1.0 0.0 0.350.350.47 0.0 1.0 1.0 1.0 0.0 0.360.360.480.01 (1, 1, 0.1, 0.1, 1) 	(1, 1, 0.1, 0.1, 10.0) (1, 1, 0.1, 0.1, 10.0) (1, 1, 0.1, 0.1, 0.0, 0.0, 0.0, 0.0, 0.0,	.0 1.0 1.0 0.0 0.080.080.120.0 .0 1.0 1.0 0.0 0.080.080.110.0 .0 1.0 1.0 0.0 0.060.06 0.1 0.02 .0 1.0 1.0 0.0 0.070.070.110.02 (1, 1, 0.1, 1, 0.1) .810.810.810.12 0.0 0.0 0.0 0.13 .0 1.0 1.0 0.0 0.0 0.0 0.0 0.07	(1, 1, 0.1, 1, 1)  -3.810.810.810.13 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	(1, 1, 0.1, 1, 10.0) -1.0 1.0 1.0 0.00.580.580.7 0.0 -1.0 1.0 1.0 0.00.560.560.690.01 -1.0 1.0 1.0 0.00.570.570.690.01 (1, 1, 0.1, 1, 10.0) -0.8 0.8 0.8 0.13 0.0 0.0 0.0 0.14 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0	(1, 1, 0.1, 10.0, 0.0, 0.0, 0.1) (1, 1, 0.1, 10.0, 0.0, 0.0, 0.1) (1, 1, 0.1, 10.0, 0.1) (1, 1, 0.1, 10.0, 0.1)	1.0 1.0 1.0 0.0 0.340.340.460.0 1.0 1.0 1.0 0.0 0.360.360.470.0 1.0 1.0 1.0 0.0 0.360.360.470.0 1.0 1.0 1.0 0.0 0.360.360.470.0 (1, 1, 0.1, 10.0, 1) 	-1.0 1.0 1.0 0.0 0.560.560.69 0.0 1.0 1.0 1.0 0.0 0.570.57 0.7 0.0 1.0 1.0 1.0 0.0 0.580.580.71 0.0 1.0 1.0 1.0 0.0 0.550.550.680.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
krasΔ, DNAdam, 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 0.0 0.360.360.480 01 -1.0 1.0 1.0 0.040.350.350.480.04 -1.0 1.0 1.0 0.0 0.340.340.46 0.0 -1.0 1.0 1.0 0.040.350.350.460.04 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.14 -1.0 1.0 1.0 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 -	(1, 1, 1, 1, 0.1) (1, 0, 10, 0.0, 0.0, 0.0, 0.0, 0.1) (1, 1, 1, 0.1)	1.0 1.0 1.0 0.0 0.350.350.480.01 1.0 1.0 1.0 0.050.360.360.480.05 1.0 1.0 1.0 0.0 0.350.350.470.01 1.0 1.0 1.0 0.0 0.350.350.470.02 (1, 1, 1, 1, 1) -0.810.810.810.12 0.0 0.0 0.0 0.16 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.16	1.0 1.0 1.0 0.0 0.560.560.690.01 1.0 1.0 1.0 0.00.570.570.7 0.03 1.0 1.0 1.0 0.00.550.550.680.01 1.0 1.0 1.0 0.00.560.560.690.03 (1, 1, 1, 1, 10.0) -0.810.810.810.12 0.0 0.0 0.16 -1.0 1.0 0.0 0.0 0.0 0.0 0.15	1.0 1.0 1.0 0.0 0.070.070.110.02 1.0 1.0 1.0 0.050.080.080.110.06 1.0 1.0 1.0 0.0 0.070.07 0.1 0.02 1.0 1.0 1.0 0.060.080.080.110.06 (1, 1, 1, 10.0, 0.1) 	1.0 1.0 1.0 0.0 0.350.350.480.02 1.0 1.0 1.0 0.040.360.360.470.04 1.0 1.0 1.0 0.0 0.350.350.480.01 1.0 1.0 1.0 0.040.340.340.460.02 (1, 1, 1, 10.0, 1) -0.810.810.810.12 0.0 0.0 0.0 0.16 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.16	1.0 1.0 1.0 0.0 0.570.57 0.7 0.0 1.0 1.0 1.0 0.0 0.50.570.570.690.0 1.0 1.0 1.0 0.0 0.50.570.570.7 0.0 1.0 1.0 1.0 0.0 0.50.570.57 0.7 0.0 1.0 1.0 1.0 1.0 0.0 0.50.570.57 0.7 0.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0
krásΔ, DNAdam, 0/0 + 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(1, 1, 10.0, 0.1, 1)  -3.820.820.820.11 0.0 0.0 0.0 0.0 0.0  -1.0 1.0 1.0 0.0 0.3 0.3 0.4 0.0 0.0 0.0 0.0 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	(1, 1, 10.0, 1, 0.1)  8 0.8 0.8 0.14 0.0 0.0 0.0 0.19  1.0 1.0 0.0 0.0 0.0 0.0 0.19  1.0 1.0 0.0 0.0 0.0 0.0 0.19	1.0 1.0 1.0 0.0 0.360.360.480.03 1.0 1.0 1.0 0.050.350.350.470.05 1.0 1.0 1.0 0.0 0.360.360.470.04 1.0 1.0 1.0 0.050.370.370.480.05 (1, 1, 10.0, 1, 1) -0.810.810.810.13 0.0 0.0 0.0 0.17 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.18 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.18	(1, 1, 10.0, 1, 10.0) (1, 1, 10.0, 1, 10.0) (1, 1, 10.0, 1, 10.0) (1, 1, 10.0, 1, 10.0) (1, 1, 10.0, 1, 10.0)	(1, 1, 10.0, 10.0, 0.0, 0.0) (1, 1, 10.0, 10.0, 10.0, 0.1)  -0.820.820.820.11 0.0 0.0 0.0 0.0 0.19  -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.19	(1, 1, 10.0, 10.0, 1)	(1, 1, 10.0, 10.0, 10.0)  -0.8 0.8 0.8 0.15 0.0 0.0 0.2 -1.0 1.0 1.0 0.0 0.5 0.5 0.7 0.03 -1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 0.0 0.0 0.0 0.0 0.0
krasΔ, DNAdam, 0/0 + 10 10 10 00 00 00 00 00 00 00 00 00 00	(1, 10.0, 0.1, 0.1, 1)  -0.8 0.8 0.8 0.15 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1	(1, 10.0, 0.1, 0.1, 10.0)	(1, 10.0, 0.1, 1, 0.1) 0.8 0.8 0.8 0.15 0.0 0.0 0.0 0.16 0.0 1.0 0.0 0.0 0.0 0.0 0.16 0.0 1.0 0.0 0.0 0.0 0.0 0.0	1.0 1.0 1.0 0.040.390.39 0.5 0.04 1.0 1.0 1.0 0.0 0.360.360.480.05 1.0 1.0 1.0 0.050.390.39 0.5 0.05 (1, 10.0, 0.1, 1, 1) -0.820.820.820.14 0.0 0.0 0.0 0.16 -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, 10.0, 0.1, 1, 10.0) -0.8 0.8 0.8 0.15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	(1, 10.0, 0.1, 10.0, 0.1) -790.790.790.15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	(1, 10.0, 0.1, 10.0, 1)  -0.810.810.810.15 0.0 0.0 0.0 0.0 0.1  -1.0 1.0 1.0 0.0 0.370.370.490.02  (1, 10.0, 0.1, 10.0, 1)	(1, 10.0, 0.1, 10.0, 10.0) -0.820.820.14 0.0 0.0 0.0 0.0 0.1 -1.0 1.0 0.0 0.0 0.0 0.0 0.1 -1.0 1.0 0.0 0.0 0.0 0.0 0.1
krasΔ, DNAdam, chek1i/0 + 10 10 10 10 10 10 10 10 10 10 10 10 10	(1, 10.0, 1, 0.1, 1)	(1, 10.0, 1, 0.1, 10.0) (1, 10.0, 1, 0.1, 10.0) (1, 10.0, 10.0, 0.0, 0.0, 0.0, 0.1, 0.1,	.0 1.0 1.0 0.080.070.070.080.08 .0 1.0 1.0 0.0 0.080.080.110.02 .0 1.0 1.0 0.080.080.110.08 (1, 10.0, 1, 1, 0.1) .810.810.810.15 0.0 0.0 0.0 0.22 .0 1.0 1.0 0.0 0.0 0.0 0.0 0.21 .0 1.0 1.0 0.0 0.0 0.070.090.08	(1, 10.0, 1, 1, 1)	1.0 1.0 1.0 0.040.570.57 0.7 0.04 1.0 1.0 1.0 0.0 0.550.550.680.01 1.0 1.0 1.0 0.050.570.57 0.7 0.05 (1, 10.0, 1, 1, 10.0) 0.810.810.810.15 0.0 0.0 0.0 0.21 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.21 1.0 1.0 1.0 0.0 0.0 0.560.56 0.7 0.02	(1, 10.0, 1, 10.0, 0.0) (1, 10.0, 1, 10.0, 0.1) (1, 10.0, 1, 10.0, 0.1) (1, 10.0, 0.0, 0.0, 0.0, 0.24 1.0, 1.0, 0.0, 0.0, 0.0, 0.22 1.0, 1.0, 0.0, 0.0, 0.0, 0.22	(1, 10.0, 1, 10.0, 1) -1.0 1.0 1.0 0.0 0.370.370.490.02 -1.0 1.0 1.0 0.050.350.350.470.05 (1, 10.0, 1, 10.0, 1) -0.8 0.8 0.8 0.16 0.0 0.0 0.0 0.24 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.23 -1.0 1.0 1.0 0.0 0.0 0.370.370.490.05	(1, 10.0, 1, 10.0, 10.0)  1.0 1.0 1.0 0.0 0.570.57 0.7 0.0  1.0 1.0 1.0 0.0 0.550.550.680.04  (1, 10.0, 1, 10.0, 10.0)  0.8 0.8 0.8 0.16 0.0 0.0 0.0 0.24  1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.22  1.0 1.0 1.0 0.0 0.580.580.710.08
krasΔ, DNAdam, chek1i/0 + 10 10 10 10 10 10 10 10 10 10 10 10 10	(1, 10.0, 10.0, 0.1, 1)  -1.0 1.0 1.0 0.0, 0.360.360.490.02  -1.0 1.0 1.0 0.0, 0.370.370.490.02  -1.0 1.0 1.0 0.0, 0.360.360.480.07  -1.0 1.0 1.0 0.0, 0.0 0.0 0.0 0.18  -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.11  -1.0 1.0 1.0 0.0 0.0 0.350.350.460.03	(1, 10.0, 10.0, 0.1, 10.0)	0 1.0 1.0 0.080.070.07 0.1 0.1 0 1.0 1.0 0.0 0.080.080.110.07 0 1.0 1.0 0.110.070.07 0.1 0.11 (1, 10.0, 10.0, 1, 0.1) 0.8 0.8 0.8 0.16 0.0 0.0 0.0 0.25 0 1.0 1.0 0.0 0.0 0.0 0.0 0.24 0 1.0 1.0 0.0 0.0 0.0 0.0 0.24	(1, 10.0, 10	(1, 10.0, 10.0, 1, 10.0) -1.0 1.0 1.0 0.00.580.58 0.7 0.03 -1.0 1.0 1.0 0.00.590.570.570.690.02 (1, 10.0, 10.0, 1, 10.0) -0.8 0.8 0.8 0.16 0.0 0.0 0.0 0.25 -1.0 1.0 1.0 0.0 0.0 0.0 0.25 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.25	(1, 10.0, 10.0, 10.0, 0.1) (1, 10.0, 10.0, 10.0, 0.1) (1, 10.0, 10.0, 10.0, 0.1) (1, 10.0, 10.0, 10.0, 0.1) (1, 10.0, 10.0, 10.0, 0.1)	(1, 10.0, 10.0, 10.0, 10.0, 1)  -1.0 1.0 1.0 1.0 0.0 0.360.360.480.06 -1.0 1.0 1.0 0.0 0.380.380.490.07  (1, 10.0, 10.0, 10.0, 1)  -1.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.24 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.25 -1.0 1.0 1.0 0.0 0.0 0.4 0.40.520.08	(1, 10.0, 10.0, 10.0, 10.0) -10.0, 10.0, 10.0, 10.0, 10.0) (1, 10.0, 10.0, 10.0, 10.0) -10.0, 10.0, 10.0, 10.0, 10.0) -10.0, 10.
krasΔ, DNAdam, chek1i/0 + 10 10 10 10 00 00 00 110.00 krasΔ, DNAdam, 0/mk2i + 10 10 10 00 00 00 110.10 krasΔ, DNAdam, chek1i/mk2i + 10 10 10 10 10 00 00 10 10 10 10 10 10	(10.0, 0.1, 0.1, 0.1, 1) -1.0 1.0 1.0 0.00.370.370.490.03 -1.0 1.0 1.0 0.090.360.360.470.09 -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	(10.0, 0.1, 0.1, 0.1, 10.0)  8 0.8 0.8 0.0 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  1.0 0.0 0.0 0.0 0.0 0.0 0.0  1.0 0.0 0.0 0.0 0.0 0.0 0.0  1.0 0.0 0.0 0.0 0.0 0.0 0.0  1.0 0.0 0.0 0.0 0.0 0.0 0.0	(10.0, 0.1, 0.1, 1, 0.1)  8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.0 1.0 1.0 0.060.390.390.490.06 1.0 1.0 1.0 0.0 0.390.390.510.05 1.0 1.0 1.0 0.070.380.380.5 0.07 (10.0, 0.1, 0.1, 1, 1) -0.780.780.780.04 0.0 0.0 0.0 0.04 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.01 -1.0 1.0 1.0 0.0 0.220.220.240.01 -1.0 1.0 1.0 0.0 0.020.240.270.02	(10.0, 0.1, 0.1, 1, 10.0) -1.0 1.0 1.0 0.0 0.6 0.6 0.720.03 -1.0 1.0 1.0 0.040.570.570.710.04 (10.0, 0.1, 0.1, 1, 10.0) -0.810.810.810.03 0.0 0.0 0.0 0.04 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.02 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.02 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.02 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.02	(10.0, 0.1, 0.1, 10.0, 0.1) (10.0, 0.1, 0.1, 10.0, 0.1) (10.1, 0.1, 0.1, 10.0, 0.1) (10.0, 0.1, 0.1, 10.0, 0.1) (10.0, 0.1, 0.1, 10.0, 0.1)	(10.0, 0.1, 0.1, 10.0, 1)  -1.0 1.0 1.0 0.003.390.390.510.04 -1.0 1.0 1.0 0.060.370.370.490.06  (10.0, 0.1, 0.1, 10.0, 1)  -0.810.810.810.03 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 -1.0 1.0 1.0 0.0 0.0 0.240.240.270.01	(10.0, 0.1, 0.1, 10.0, 10.0)
krasΔ, DNAdam, chek1i/0 + 10 10 10 10 00 00 00 00 00 00 00 00 00	(10.0, 0.1, 1, 0.1, 1)  -0.8 0.8 0.8 0.3 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.2 0.2 40.2 40.2 6 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1	(10.0, 0.1, 1, 0.1, 10.0) 82.820.820.03 0.0 0.0 0.0 0.0 1.0 1.0 0.0 0.430.430.470.01 (10.0, 0.1, 1, 0.1, 10.0)	(10.0, 0.1, 1, 1, 0.1) 810.810.810.040.040.040.040.05 0 1.0 1.0 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 1.0 1.0 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	(10.0, 0.1, 1, 1, 1)  -0.8 0.8 0.8 0.04 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 0.0 0.0 0.0 0.0 0.0  -1.0 1.0 1.0 0.0 0.240.240.270.01  -1.0 1.0 1.0 0.0 0.220.240.240.260.02	(10.0, 0.1, 1, 1, 10.0) -1.0 1.0 1.0 0.0.430.430.470.02 (10.0, 0.1, 1, 1, 10.0) -0.8 0.8 0.8 0.3 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 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0	(10.0, 0.1, 1, 10.0, 0.1) 	(10.0, 0.1, 1, 10.0, 1)  -1.0 1.0 1.0 0.0 0.240.240.260.02  (10.0, 0.1, 1, 10.0, 1)  -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	(10.0, 0.1, 1, 10.0, 10.0) 
krasΔ, DNAdam, 0/mk2i + 10 10 10 00 050 050 050 050 050 050 050	(10.0, 0.1, 10.0, 0.1, 1)	(10.0, 0.1, 10.0, 0.1, 10.0) .810.810.810.03 0.0 0.0 0.0 0.0 .0 1.0 1.0 0.0 0.0 0.0 0.0	(10.0, 0.1, 10.0, 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(10.0, 0.1, 10.0, 1, 1)	(10.0, 0.1, 10.0, 1, 10.0) (10.0, 0.1, 10.0, 1, 10.0) (10.0, 0.1, 10.0, 0.0, 0.0, 0.0, 0.0, 0.0	(10.0, 0.1, 10.0, 10.0, 0.1)	(10.0, 0.1, 10.0, 10.0, 1)	-1.0 1.0 1.0 0.0 0.440.440.490.02 -1.0 1.0 1.0 0.0 0.430.430.470.01 (10.0, 0.1, 10.0, 10.0, 10.0) -0.810.810.810.03 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 0.0 0.440.440.480.01 -1.0 1.0 1.0 0.0 0.10.430.470.01
KrasΔ, DNAdam, chek1i/mk2i (10.0, 1, 0.1, 0.1, 0.1)  wt. no DNAdam (10.0, 1, 0.1, 0.1, 0.1)  krasΔ, no DNAdam, 0/0 (10.0, 1, 0.1)  krasΔ, DNAdam, 0/0 (10.0, 1, 0.1)  krasΔ, DNAdam, 0/0 (10.0, 1, 0.1)	- <mark>1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0</mark> -	(10.0, 1, 0.1, 0.1, 10.0) 0.0 1.0 0.020.450.450.490.02 (10.0, 1, 0.1, 0.1, 10.0) 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0	(10.0, 1, 0.1, 1, 0.1) (10.0, 1, 0.1, 1, 0.1) (10.0, 1, 0.0, 0.0, 0.0, 0.13 (10.0, 0.0, 0.0, 0.0, 0.0, 0.0) (10.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0) (10.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	(10.0, 1, 0.1, 1, 1)  -0.8 0.8 0.8 0.12 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	(10.0, 1, 0.1, 1, 10.0) -1.0 1.0 1.0 0.0 0.430.470.01 (10.0, 1, 0.1, 1, 10.0) -0.810.810.810.12 0.0 0.0 0.0 0.13 -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 4.0 4.40.480.02 -1.0 1.0 1.0 0.0 0.0 4.0 4.40.480.02	(10.0, 1, 0.1, 10.0, 0.0, 0.1) 	(10.0, 1, 0.1, 10.0, 1) -1.0 1.0 1.0 1.0 1.0 1.240.240.270.02 (10.0, 1, 0.1, 10.0, 1) -0.8 0.8 0.8 0.13 0.0 0.0 0.0 0.14 -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 0.230.230.260.03 -1.0 1.0 1.0 0.070.250.250.270.07	(10.0, 1, 0.1, 10.0, 10.0) (10.0, 1, 0.1, 10.0, 10.0)
krasΔ, DNAdam, 0/mk2i - 10 10 10 00 00 00 00 00 00 00 00 00 00	- 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 - 1.0 1.0 1.0 0.0 0.230.230.250.03	. <mark>.0 1.0 1.0 0.0 0.0 0.0 0.0</mark> 0.07 -	(10.0, 1, 1, 1, 0.1) (10.0, 1, 1, 1, 0.1) (10.0, 1, 0.0 0.0 0.0 0.18 (10.0, 0.0 0.0 0.0 0.0 0.18 (10.0 0.0 0.0 0.0 0.0 0.18 (10.0 0.0 0.0 0.0 0.0 0.0 0.18 (10.0 0.0 0.0 0.0 0.0 0.0 0.18 (10.0 0.0 0.0 0.0 0.0 0.0 0.18	(10.0, 1, 1, 1, 1)  -0.8 0.8 0.8 0.13 0.0 0.0 0.0 0.17 -1.0 1.0 1.0 0.0 0.250.250.270.06 -1.0 1.0 1.0 0.0 0.240.240.260.05	(10.0, 1, 1, 1, 10.0) -1.0 1.0 1.0 0.060.440.440.470.06 (10.0, 1, 1, 1, 10.0) -0.820.820.820.11 0.0 0.0 0.16 -1.0 1.0 1.0 0.0 0.0 0.0 0.16 -1.0 1.0 1.0 0.0 0.0 0.0 0.16 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.16 -1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.16	(10.0, 1, 1, 10.0, 0.1) 	-1.0 1.0 1.0 0.0 0.240.240.260.02 -1.0 1.0 1.0 0.070.230.230.260.07 (10.0, 1, 1, 10.0, 1) -0.810.810.810.13 0.0 0.0 0.0 0.17 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.16 -1.0 1.0 1.0 0.0 0.240.240.260.05 -1.0 1.0 1.0 0.0 0.260.260.280.08	(10.0, 1, 1, 10.0, 10.0)
krasΔ, DNAdam, 0/mk2i (10.0, 1, 10.0, 0.1, 0.1)  wt. no DNAdam (0/0, 1, 10.0, 0.1, 0.1)  krasΔ, no DNAdam (0/0 (10.0, 1, 10.0) (10.0, 1, 0.1)  krasΔ, DNAdam, 0/0 (10.0, 1, 10.0) (10.0, 10.1)  krasΔ, DNAdam, 0/0 (10.0, 10.1) (	(10.0, 1, 10.0, 0.1, 1) -0.8 0.8 0.8 0.14 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1 -1.0 1.0 1.0 0.0 0.0 240.240.260.03	(10.0, 1, 10.0, 0.1, 10.0)	(10.0, 1, 10.0, 1, 0.1) (10.0, 1, 10.0, 1, 0.1) (10.0, 1, 10.0, 0.0, 0.0, 0.19 (10.0, 1.0, 0.0, 0.0, 0.0, 0.2) (10.0, 0.0, 0.0, 0.0, 0.0, 0.0) (10.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.2) (10.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	(10.0, 1, 10.0, 1, 1)  -0.8 0.8 0.8 0.14 0.0 0.0 0.0 0.19 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.8 -1.0 1.0 1.0 0.0 0.260.260.280.06 -1.0 1.0 1.0 0.0 0.250.250.280.08	(10.0, 1, 10.0, 1, 10.0) -0.810.810.810.140.000.000.17 -1.0 1.0 1.0 0.0 0.0 0.0 0.18 -1.0 1.0 1.0 0.0 0.460.460.490.04 -1.0 1.0 1.0 0.0 0.460.460.510.06 -1.0 1.0 1.0 0.0 0.460.460.480.05	(10.0, 1, 10.0, 10.0, 0.1) (10.0, 1, 10.0, 10.0, 0.1) 	(10.0, 1, 10.0, 10.0, 1)  -0.810.810.810.12 0.0 0.0 0.0 0.0 0.19 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.17 -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 0.250.250.270.07 -1.0 1.0 1.0 0.0 0.270.290.06	-1.0 1.0 1.0 0.060.450.450.480.06 (10.0, 1, 10.0, 10.0, 10.0) -0.8 0.8 0.8 0.13 0.0 0.0 0.0 0.19 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.17 -1.0 1.0 1.0 0.050.450.450.490.03 -1.0 1.0 1.0 0.050.450.450.480.05 -1.0 1.0 1.0 0.00.470.47 0.5 0.04
(10.0, 10.0, 0.1, 0.1, 0.1)  wt, no DNAdam -0.810.810.810.15 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	-0.810.810.810.15 0.0 0.0 0.0 0.15 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.04 -1.0 1.0 1.0 0.0 0.240.240.270.01 -1.0 1.0 1.0 0.080.240.240.270.08 -1.0 1.0 1.0 0.000.240.240.260.01	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 1.0 1.0	(10.0, 10.0, 0.1, 1, 0.1)  (10.0, 10.0, 0.1, 1, 0.1)  (10.0, 10.0, 0.0, 0.0, 0.0, 0.1)  (10.0, 10.0, 0.0, 0.0, 0.0, 0.1)  (10.0, 0.0, 0.0, 0.0, 0.0, 0.1)  (10.0, 0.0, 0.0, 0.0, 0.0, 0.1)  (10.0, 0.0, 0.0, 0.0, 0.0, 0.1)  (10.0, 0.0, 0.0, 0.0, 0.0, 0.1)	(10.0, 10.0, 0.1, 1, 1)  -0.810.810.810.15 0.0 0.0 0.0 0.0  -1.0 1.0 1.0 0.0 0.2 0.2 0.2 0.0  -1.0 1.0 1.0 0.0 0.2 0.2 0.2 0.2 0.2  -1.0 1.0 1.0 0.0 0.2 0.2 0.2 0.2 0.2  -1.0 1.0 1.0 0.0 0.2 0.2 0.2 0.2 0.2  -1.0 1.0 1.0 0.0 0.2 0.2 0.2 0.2 0.2 0.2	(10.0, 10.0, 0.1, 1, 10.0) -0.810.810.810.15 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0	(10.0, 10.0, 0.1, 10.0, 0.1) 	(10.0, 10.0, 0.1, 10.0, 1)  -0.8 0.8 0.8 0.15 0.0 0.0 0.0 0.1  -1.0 1.0 0.0 0.0 0.0 0.0 0.1  -1.0 1.0 0.0 0.0 0.250.250.270.04  -1.0 1.0 0.0 0.0 0.250.250.270.04  -1.0 1.0 0.0 0.0 0.230.230.250.08	(10.0, 10.0, 0.1, 10.0, 10.0) (10.0, 10.0, 0.1, 10.0, 10.0) -0.810.810.810.14 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 -1.0 1.0 0.0 0.0 0.430.430.470.08 -1.0 1.0 0.0 0.430.430.480.08 -1.0 1.0 0.0 0.450.450.490.08
krasΔ, DNAdam, chek1i/mk2i (10.0, 10.0, 1, 0.1, 0.1)  wt. no DNAdam (10.0, 10.0, 1, 0.1, 0.1)  krasΔ, no DNAdam, 0/0 (10.0, 1	- 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.1 - I	(10.0, 10.0, 1, 0.1, 10.0)	.0 1.0 1.0 0.110.050.050.060.11 (10.0, 10.0, 1, 1, 0.1) 0.8 0.8 0.8 0.16 0.0 0.0 0.0 0.22 .0 1.0 1.0 0.0 0.0 0.0 0.0 0.23 .0 1.0 1.0 0.0 0.050.050.050.09 .0 1.0 1.0 0.120.050.050.050.14 .0 1.0 1.0 0.130.050.050.050.13	(10.0, 10.0, 1, 1, 1)  -0.8 0.8 0.8 0.16 0.0 0.0 0.0 0.23 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.23 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.0 0.240.240.27 0.1 -1.0 1.0 1.0 0.0 0.240.240.260.08 -1.0 1.0 1.0 0.1 0.250.250.28 0.1	(10.0, 10.0, 1, 1, 10.0)  -0.810.810.810.16 0.0 0.0 0.0 0.22 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.23 -1.0 1.0 1.0 0.0 0.0 0.470.470.510.06 -1.0 1.0 1.0 0.0 0.0 0.40.460.5 0.06 -1.0 1.0 1.0 0.0 0.0 0.460.46 0.5 0.06	-1.0 1.0 1.0 0.110.050.050.050.11 (10.0, 10.0, 1, 10.0, 0.1) -0.8 0.8 0.8 0.8 0.15 0.0 0.0 0.0 0.23 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.23 -1.0 1.0 1.0 0.0 0.050.050.050.13 -1.0 1.0 1.0 0.0 0.050.050.050.13 -1.0 1.0 1.0 0.0 0.050.050.050.14	(10.0, 10.0, 1, 10.0, 1)  -0.810.810.810.15 0.0 0.0 0.0 0.23 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.23 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.23 -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 0.260.260.290.09 -1.0 1.0 1.0 0.0 0.270.27 0.3 0.08 -1.0 1.0 1.0 0.120.270.290.12	1.0 1.0 1.0 0.080.440.440.480.08 (10.0, 10.0, 1, 10.0, 10.0) -0.820.820.820.14 0.0 0.0 0.0 0.22 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.24 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.24 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.24 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
(10.0, 10.0, 10.0, 0.1, 0.1)   wt. no DNAdam   (10.0, 10.0, 10.0, 0.1, 0.1)   wt. no DNAdam   (10.0, 10.0, 10.0, 0.1, 0.1)   krasΔ, no DNAdam, 0/0   (10.0, 10.0, 10.0, 0.0, 0.0, 0.0, 0.0, 0.	(10.0, 10.0, 10.0, 0.1, 1)  -0.8 0.8 0.8 0.16 0.0 0.0 0.0 0.2 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.12 -1.0 1.0 1.0 0.0 0.240.240.260.04 -1.0 1.0 1.0 0.00.250.250.280.04	10.0, 10.0, 10.0, 0.1, 10.0)  0.8 0.8 0.8 0.17 0.0 0.0 0.0 0.19  1.0 1.0 1.0 0.0 0.450.450.490.00  1.0 1.0 1.0 0.00.440.440.480.08  1.0 1.0 1.0 0.00.430.430.460.00	(10.0, 10.0, 10.0, 1, 0.1)  820.820.820.15 0.0 0.0 0.0 0.24  0 10 10 0.0 0.0 0.0 0.0 0.25  0 10 10 0.120.040.040.040.14  0 10 10 0.0 0.0 0.0 0.0 0.0 0.12  0 10 10 0.120.040.040.040.14	(10.0, 10.0, 10.0, 1, 1)  -0.810.810.810.15 0.0 0.0 0.0 0.24 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.25 -1.0 1.0 1.0 0.0 0.0 0.240.260.08 -1.0 1.0 1.0 0.0 0.250.270.290.09 -1.0 1.0 1.0 0.0 0.250.250.270.08 -1.0 1.0 1.0 0.090.270.270.290.09	(10.0, 10.0, 10.0, 1, 10.0) - 0.8 0.8 0.8 0.16 0.0 0.0 0.0 0.24 - 1.0 1.0 1.0 0.0 0.0 0.0 0.25 - 1.0 1.0 1.0 0.0 0.460.46 0.5 0.07 - 1.0 1.0 1.0 0.0 0.450.45 0.5 0.07 - 1.0 1.0 1.0 0.0 0.450.45 0.5 0.07 - 1.0 1.0 1.0 0.0 0.450.45 0.5 0.07	(10.0, 10.0, 10.0, 10.0, 0.1)  0.810.810.810.16 0.0 0.0 0.0 0.0 0.24  1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.25  1.0 1.0 0.0 0.050.050.060.12  1.0 1.0 0.0 0.060.060.060.12  1.0 1.0 0.130.060.060.060.13	(10.0, 10.0, 10.0, 10.0, 1)	(10.0, 10.0, 10.0, 10.0, 10.0)
A TAP TION TO THE PROPERTY OF	A SHALL SHAL	MEK DB38 DK1 SSSB tion tion	VEK DK1 DK1 SSSB tion	<del></del>	MEKAP PASS PASS PASS PASS PASS PASS PASS P	<del></del>	AAF XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	BRAF MEK P38 CDK1 ATM ATR DSB_SSB CASP3