(0.1, 0.1, 0.1, 0.1, 0.1) wt, no DNAdam - 0.820.820.820.820.820.820.820.820.820.82	-0.810.810.810.03 0.0 0.0 0.0 0.0 0.0 - 0.8 0.8 - 1.0 1.0 1.0 0.0 0.0 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	0.1, 0.1, 0.1, 10.0)	00.03 - 0.8 0.8 0.8 0.03 0.0 0.0 0.0 0.03 00.02 - 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.02	(0.1, 0.1, 0.1, 1, 10.0) -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 0.0	(0.1, 0.1, 0.1, 10.0, 0.1)	(0.1, 0.1, 0.1, 10.0, 1) -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 -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 0.0 0.0 0.0 0.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0	(0.1, 0.1, 0.1, 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 0.0 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 0.0 0.0 0.0 0.0
wt. no DNAdam (0.1, 0.1, 1, 0.1, 0.1) wt. no DNAdam (0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.820.820.820.03 0.0 0.0 0.0 0.0 -0.790.790 -1.0 1.0 1.0 0.0 0.0 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	0.1, 1, 0.1, 10.0)	0 0.05	(0.1, 0.1, 1, 1, 10.0) -0.830.830.830.04 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 0.0 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 0.0 0.0 0.0 0.0	(0.1, 0.1, 1, 10.0, 0.1) 0.790.790.790.03 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 0.0 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 0.0 0.0 0.0 0.0	(0.1, 0.1, 1, 10.0, 1) -0.8 0.8 0.8 0.3 0.0 0.0 0.0 0.0 0.2 -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 0.0 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	(0.1, 0.1, 1, 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 0.0 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 -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 0.0 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 0.0
wt, no DNAdam (0.1, 0.1, 10.0, 0.1, 0.1) wt, no DNAdam (0.810.810.810.810.810.810.810.810.810.81	-0.810.810.810.03 0.0 0.0 0.0 0.04 -0.810.810.810.810.810.810.810.810.810.81	1, 10.0, 0.1, 10.0) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1) (0.1, 0.1, 10.0, 1, 0.1)	0 0.05	(0.1, 0.1, 10.0, 1, 10.0) -0.8 0.8 0.8 0.04 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 0.0 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 0.0 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 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 0.0 0.0	(0.1, 0.1, 10.0, 10.0, 0.1) 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 0.0 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 (0.1, 1, 0.1, 10.0, 0.1)	(0.1, 0.1, 10.0, 10.0, 1) -0.8 0.8 0.8 0.04 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 0.0 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 (0.1, 1, 0.1, 10.0, 1)	(0.1, 0.1, 10.0, 10.0, 10.0) -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 0.0 0.0 -0.8 0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.0 0.0 0.0 0.0 -0.8 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.
wt, no DNAdam 0.8 0.8 0.8 0.12 0.0 0.0 0.0 0.13 krasΔ, no DNAdam, 0/0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 krasΔ, DNAdam, 0/0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 krasΔ, DNAdam, chek1i/0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 krasΔ, DNAdam, 0/mk2i 1.0 1.0 1.0 0.0 0.0 0.0 0.0 krasΔ, DNAdam, chek1i/mk2i 1.0 1.0 1.0 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 0.1 1 -0.810.810 1.1 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 1.1 1.0 1.0	.810.13 0.0 0.0 0.0 0.13	0 0.13	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 1.0 0.0 0.0 0.0 0.0 (0.1, 1, 1, 1, 10.0)	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 1.0 1.1 1.0 0.0 0.0 0.0 0.0 0.0 1.0 1.1 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	0.8 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 8 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 0.0 0.0 0.0 0.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 (0.1, 1, 1, 10.0, 1)	0.820.820.820.11 0.0 0.0 0.0 0.12 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 (0.1, 1, 1, 10.0, 10.0)
wt, no DNAdam - 0.810.810.12.00 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 1.0 1.0 1.0 1.0 1.0 1.0 1.0	.810.13 0.0 0.0 0.0 0.14	00.16	-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 0.020.020.020.01 -1.0 1.0 1.0 0.0 0.020.020.020.01 -1.0 1.0 1.0 0.0 0.020.020.020.01 -1.0 1.0 1.0 0.0 0.020.030.030.02 -1.0 1.0 1.0 0.0 0.020.030.030.030.02	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 0.19 1.0 1.0 1.0 0.0 0.010.010.010.02 1.0 1.0 1.0 0.0 0.010.010.010.02 1.0 1.0 1.0 0.0 0.010.010.010.02 1.0 1.0 1.0 0.0 0.010.010.010.02 (0.1, 1, 10.0, 10.0, 0.1) 0.810.810.810.14 0.0 0.0 0.0 0.1	-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 0.030.030.030.01 -1.0 1.0 1.0 0.0 0.030.030.040.01 -1.0 1.0 1.0 0.0 0.030.030.030.01 (0.1, 1, 10.0, 10.0, 1) -0.790.790.790.14 0.0 0.0 0.0 0.2	0.810.810.12 0.0 0.0 0.0 0.17 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 0.17 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
krasΔ, no DNAdam, 0/0 -10 10 10 00 00 00 00 00 00 00 krasΔ, DNAdam, 0/0 -10 10 10 10 00 00 00 00 00 krasΔ, DNAdam, chek1i/0 -10 10 10 10 00 00 00 00 00 krasΔ, DNAdam, 0/mk2i -10 10 10 10 00 00 00 00 00 krasΔ, DNAdam, chek1i/mk2i -10 10 10 10 10 00 00 00 00 00 00 00 00 0	(0.1, 10.0, 0.1, 0.1, 1)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1) (0.1, 10.0, 0.1, 1, 1) 00.16 -0.810.810.810.140.00.00.00.00.16	- 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 0.0 0.18 - 1.0 1.0 1.0 0.0 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 0.0 0.1 - 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.1 - 0.790.790.790.16 0.0 0.0 0.0 0.1	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 0.0 0.18 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 0.19 - 1.0 1.0 1.0 0.0 0.040.040.040.01 - 1.0 1.0 1.0 0.0 0.040.040.040.01 - 1.0 1.0 1.0 0.0 0.040.040.040.01 - 1.0 1.0 1.0 0.010.050.050.050.01 - (0.1, 10.0, 0.1, 10.0, 1) - 3.810.810.810.15 0.0 0.0 0.0 0.17	- 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.19 - 1.0 1.0 1.0 0.0 0.030.030.030.01 - 1.0 1.0 1.0 0.0 0.030.030.030.01 - 1.0 1.0 1.0 0.0 0.030.030.040.01 - 1.0 1.0 1.0 0.010.050.050.050.01 - (0.1, 10.0, 0.1, 10.0, 10.0) - 0.810.810.810.15 0.0 0.0 0.0 0.17
krasΔ, no DNAdam, 0/0 - 10 10 10 00 00 00 00 00 krasΔ, DNAdam, 0/0 - 10 10 10 00 00 00 00 00 00 krasΔ, DNAdam, chek1i/0 - 10 10 10 10 00 00 00 00 00 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 00 00 00 00 00 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 00 00 00 00 00 00 00 00 00		10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	.) (0.1, 10.0, 1, 1, 1)	(0.1, 10.0, 1, 1, 10.0)	(0.1, 10.0, 1, 10.0, 0.1) -0.320.820.820.15 0.0 0.0 0.0 0.0 0.2 -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 0.0 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 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 0.2 -1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.2	-1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.11 -1.0 1.0 1.0 0.0 0.010.010.01 0.0 -1.0 1.0 1.0 0.0 0.010.010.010.01 -1.0 1.0 1.0 0.0 0.010.010.010.01 -1.0 1.0 1.0 0.0 0.010.010.010.02 (0.1, 10.0, 1, 10.0, 1) -0.820.820.820.14 0.0 0.0 0.0 0.0 0.22 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.23	(0.1, 10.0, 1, 10.0, 10.0) -0.810.810.810.15 0.0 0.0 0.0 0.23
krasΔ, DNAdam, 0/0 -10 10 10 00 00 00 00 00 00 krasΔ, DNAdam, chek1i/0 -10 10 10 00 00 00 00 00 00 00 krasΔ, DNAdam, 0/mk2i -10 10 10 00 00 00 00 00 00 krasΔ, DNAdam, chek1i/mk2i -10 10 10 10 10 10 10 10 10 10 10 10 10 1		0.0, 10.0, 0.1, 10.0)	.1) (0.1, 10.0, 10.0, 10.0, 1, 1) (0.1, 10.0, 10.0, 10.0, 1, 1) (0.24	-1.0 1.0 1.0 0.0 0.040.040.040.01 -1.0 1.0 1.0 0.020.050.050.02 -1.0 1.0 1.0 0.0 0.040.040.040.01 -1.0 1.0 1.0 0.0 0.050.050.050.03 -0.790.790.790.18 0.0 0.0 0.0 0.26 -1.0 1.0 1.0 0.0 0.0 0.0 0.23	1.0 1.0 1.0 0.0 0.020.020.020.03 1.0 1.0 1.0 0.0 0.030.030.030.03 1.0 1.0 1.0 0.0 0.030.030.030.03 1.0 1.0 1.0 0.040.030.030.040.04 (0.1, 10.0, 10.0, 10.0, 0.1) 0.790.790.790.17 0.0 0.0 0.0 0.26 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.25	(0.1, 10.0, 10.0, 10.0, 10.0, 1) -1.0 1.0 1.0 0.0 0.040.040.040.01 -1.0 1.0 1.0 0.0 0.050.050.060.02 (0.1, 10.0, 10.0, 10.0, 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 0.0 0.0 0.0 0.25	(0.1, 10.0, 10.0, 10.0, 10.0, 10.0) -0.820.820.820.14 0.0 0.0 0.0 0.0 0.24
KrásΔ, DNAdam, 0/0	(1, 0.1, 0.1, 0.1, 1) (1, 0 -0.810.810.810.03 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	.0 0.0 0.010.010.01 0.0	040.06	1.0 1.0 1.0 0.0 0.060.060.070.01 1.0 1.0 1.0 0.0 0.070.070.070.01 1.0 1.0 1.0 0.0 0.070.070.070.03 (1, 0.1, 0.1, 1, 10.0) 	1.0 1.0 1.0 0.0 0.050.050.050.04 1.0 1.0 1.0 0.020.050.050.050.05 1.0 1.0 1.0 0.0 0.040.040.04 1.0 1.0 1.0 0.050.040.040.05 (1, 0.1, 0.1, 10.0, 0.1) 0.790.790.790.03 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 0.070.070.070.01 1.0 1.0 1.0 0.020.080.080.080.02 1.0 1.0 1.0 0.0 0.070.070.070.01 1.0 1.0 1.0 0.0 0.070.070.070.01 (1, 0.1, 0.1, 10.0, 1) -0.820.820.820.820.03 0.0 0.0 0.0 0.04 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0	(1, 0.1, 0.1, 10.0, 10.0) -1.0 1.0 1.0 0.0 0.070.090.090.01 -1.0 1.0 0.0 0.070.070.090.090.01 -1.0 1.0 0.0 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, 1, 0.1, 1) (1, -0.810.810.810.810.810.810.810.810.810.81	0.1, 1, 0.1, 10.0) 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 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 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 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(1, 0.1, 1, 1, 1)	(1, 0.1, 1, 1, 10.0) -0.820.820.820.03 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(1, 0.1, 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 0.0 0.0 0.	(1, 0.1, 1, 10.0, 1) -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 (1, 0.1, 1, 10.0, 1) -0.8 0.8 0.8 0.8 0.3 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, 1, 10.0, 10.0) - 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
krasΔ, DNAdam, Chek1i/O 10 10 10 10 10 10 10 10 10 10 10 10 10	(1, 0.1, 10.0, 0.1, 1) (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, 1)	(1, 0.1, 10.0, 1, 10.0) -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(1, 0.1, 10.0, 10.0, 0.0, 0.0, 0.0) (1, 0.1, 10.0, 10.0, 0.1) (1, 0.1, 10.0, 10.0, 0.1) (1, 0.1, 10.0, 10.0, 0.1) (1, 0.1, 10.0, 10.0, 0.1)	(1, 0.1, 10.0, 10.	(1, 0.1, 10.0, 10.0, 10.0) -0.8 0.8 0.8 0.3 0.0 0.0 0.0 0.0 0.0 -0.9 0.0 0.0 0.0 0.0 0.0 0.0
krasΔ, DNAdam, chekli/0 -10 10 10 10 10 10 10 10 10 10 10 10 10 1	(1, 1, 0.1, 0.1, 1) (1, -0.8 0.8 0.8 0.14 0.0 0.0 0.0 0.0 0.14 -0.810.810 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 1.0 1	1, 0.1, 0.1, 10.0) (1, 1, 0.1, 1, 0.1) 810.12 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 1.0 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 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 0.0	(1, 1, 0.1, 1, 10.0) -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.	(1, 1, 0.1, 10.0, 0.1) 	(1, 1, 0.1, 10.0, 1) -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(1, 1, 0.1, 10.0, 10.0) -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
krasΔ, DNAdam, 0/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, 0.1) krasΔ, DNAdam, 0/0 (1, 1, 1, 0.1, 0.1) krasΔ, DNAdam, 0/0 (1, 1, 1, 0.1, 0.1)	(1, 1, 1, 0.1, 1)	1, 1, 0.1, 10.0) 1, 1, 0.1, 10.0) 1, 1, 0.1, 10.0) 1, 1, 0.1, 10.0) 1, 1, 0.1, 10.0) 1, 1, 0.1, 10.0) 1, 1, 0.1, 10.0) 1, 0.0, 0.0, 0.0, 0.0, 0.1 1, 0.0, 0.0, 0.0, 0.0, 0.0 1, 0.0, 0.0, 0.0, 0.0 1	(1, 1, 1, 1, 1) (0,15	-1.0 1.0 1.0 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) -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 (1, 1, 1, 10.0, 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 0.0 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 0.0	(1, 1, 1, 10.0, 10.0) -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 (1, 1, 1, 10.0, 10.0) -0.810.810.810.12 0.0 0.0 0.0 0.16 -1.0 1.0 0.0 0.0 0.0 0.0 0.18 -1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.18 -1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.18
krasΔ, DNAdam, 0/mk2i		., 10.0, 0.1, 10.0) (1, 1, 10.0, 1, 0.1) 0.8 0.13 0.0 0.0 0.0 0.0 0.0 0 0.0 0.0 0.0 0.0	(1, 1, 10.0, 1, 1) (0.18	(1, 1, 10.0, 1, 10.0) -0.810.810.810.12 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 0.0 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 0.17 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(1, 1, 10.0, 10.0, 0.1) 0.810.810.810.14 0.0 0.0 0.0 0.19 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.19 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.19 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	(1, 1, 10.0, 10.0, 1) -0.810.810.810.12 0.0 0.0 0.0 0.18 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.7 -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 0.0 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, 1, 10.0, 10.0, 10.0) - 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 0.18 - 1.0 1.0 1.0 0.0 0.0 0.0 0.4 0.2 - 1.0 1.0 1.0 0.0 0.0 0.0 0.4 0.2 - 1.0 1.0 1.0 0.0 0.0 0.0 0.2 0.2
krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 10 10 10 10 10 10 10 10 10		0.0, 0.1, 0.1, 10.0)) (1, 10.0, 0.1, 1, 1)	(1, 10.0, 0.1, 1, 10.0) -0.810.810.810.14 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 0.0 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 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, 10.0, 0.1, 10.0, 0.1) 0.810.810.810.14 0.0 0.0 0.0 0.17 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 0.0 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, 10.0, 0.1, 10.0, 1) -0.810.810.810.14 0.0 0.0 0.0 0.1 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.1 -1.0 1.0 1.0 0.0 0.0 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 0.0 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, 10.0, 0.1, 10.0, 10.0) -0.810.810.16 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 1.0 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 1.0 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
(1, 10.0, 1, 0.1, 0.1) wt. no DNAdam (1, 10.0, 1, 0.1, 0.1) krasΔ, no DNAdam, 0/0 (10.0, 10.0	-0.810.810.810.16 <mark>0.0 0.0 0.0</mark> 0.18 -0.810.810 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.1 -1.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.010.03 -1.0 1.0 -1.0 1.0 1.0 0.0 0.0 0.0 0.010.09 -1.0 1.0	0.0, 1, 0.1, 10.0) (1, 10.0, 1, 1, 0.1) 810.16 0.0 0.0 0.0 0.18 1.0 0.0 0.0 0.0 0.0 0.1 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 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	00.22 - 0.8 0.8 0.8 0.17 0.0 0.0 0.0 0.23 00.23 - 1.0 1.0 1.0 0.0 0.0 0.0 0.23 00.09 - 1.0 1.0 1.0 0.0 0.020.020.020.07 0 0.1 - 1.0 1.0 1.0 0.080.020.020.030.08 010.09 - 1.0 1.0 1.0 0.0 0.020.020.020.06	(1, 10.0, 1, 1, 10.0) -0.810.810.810.15 0.0 0.0 0.0 0.22 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.2 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.2 -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 0.0 0.0 0.0	(1, 10.0, 1, 10.0, 0.1) 0.810.810.810.16 0.0 0.0 0.0 0.24 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.23 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, 10.0, 1, 10.0, 1)	(1, 10.0, 1, 10.0, 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 0.24 1.0 1.0 1.0 0.0 0.040.040.040.04 1.0 1.0 1.0 0.060.040.040.040.06 1.0 1.0 1.0 0.070.050.050.050.05
(1, 10.0, 10.0, 0.1, 0.1) wt, no DNAdam	-0.810.810.810.15 0.0 0.0 0.0 0.18 - 0.8 0.8 - 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.11 - 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	.0, 10.0, 0.1, 10.0) (1, 10.0, 10.0, 1, 0.3, 0.8, 0.16, 0.0, 0.0, 0.0, 0.19, 1.0, 0.0, 0.0, 0.0, 0.12, 1.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0	00.25	(1, 10.0, 10.0, 1, 10.0) - 0.8 0.8 0.8 0.17 0.0 0.0 0.0 0.25 - 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.25 - 1.0 1.0 1.0 0.0 0.0 0.50.050.06 - 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 0.0 0.0 0.0 0.0 0.0	(1, 10.0, 10.0, 10.0, 0.1) 9.790.790.790.17 0.0 0.0 0.0 0.25 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.25 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.25 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.1 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.1 1.0 1.0 1.0 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 0.0 0.1	(1, 10.0, 10.0, 10.0, 1) -0.8 0.8 0.8 0.15 0.0 0.0 0.0 0.25 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.24 -1.0 1.0 1.0 0.0 0.050.050.060.05 -1.0 1.0 1.0 0.0 0.040.040.050.06 -1.0 1.0 1.0 0.0 0.050.050.070.07	(1, 10.0, 10.0, 10.0, 10.0) - 0.8 0.8 0.8 0.15 0.0 0.0 0.0 0.25 - 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 0.04 - 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 0.0 0.0 0.0 0.0 0.04 - 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
wt, no DNAdam (10.0, 0.1, 0.1, 0.1, 0.1) wt, no DNAdam (10.0, 0.1, 0.1, 0.1, 0.1) krasΔ, no DNAdam, 0/0 (10.0, 0.0, 0.0, 0.0, 0.0) krasΔ, DNAdam, 0/0 (10.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0,	-0.810.810.810.03 0.0 0.0 0.0 0.0 -0.810.810.810. -1.0 1.0 1.0 0.0 0.0 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	0.1, 0.1, 0.1, 10.0) (10.0, 0.1, 0.1, 1, 0.1,	0 0.04	(10.0, 0.1, 0.1, 1, 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 0.0 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 -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 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 1.0 0.0 0.0 0.0 0.0	(10.0, 0.1, 0.1, 10.0, 0.1) 0.8 0.8 0.8 0.02 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 0.0 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, 0.1, 10.0, 1) -0.810.810.830.00 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 0.0 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 (10.0, 0.1, 1, 10.0, 1)	(10.0, 0.1, 0.1, 10.0, 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 0.0 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 0.0 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 0.0 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 0.0 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 0.0 0.0 0.0
wt. no DNAdam - 0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	- 0.810.810.810.04 0.0 0.0 0.0 0.04 - 0.8 0.8 - 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 1.0 1.0 1.0 1.0 1.0 1.0	0.8 (0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0 0.04	-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 0.04 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.02 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.02	0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.8 0.8 0.8 0.04 0.0 0.0 0.0 0.05 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.02 1.0 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	0.810.810.810.04 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
wt, no DNAdam -0.8 0.8 0.8 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 1.0 1.0 1.0 1.0 1.0 1.0 1.0	.790.04 0.0 0.0 0.0 0.0 1.02	0 0.05 0 0.02 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-0.830.830.830.03 0.0 0.0 0.0 0.04 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.04 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.02 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.02	0.790.790.790.03 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	-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 0.04 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.01 -1.0 1.0 1.0 0.0 0.0 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 0.02 (10.0, 1, 0.1, 10.0, 1) -0.820.820.820.11 0.0 0.0 0.0 0.13	-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 0.05 -1.0 1.0 1.0 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 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 -1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
krasΔ, no DNAdam, 0/0 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	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0.06	-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 0.0 0.0 0.0 0.02 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.07 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.03 -1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.08 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.08	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 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
krasΔ, no DNAdam, 0/0 - 10 10 10 00 00 00 00 00 00 00 00 00 00	(10.0, 1, 10.0, 0.1, 1) (10.0,	1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1) (10.0, 1, 10.0, 1, 1)	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.17 1.0 1.0 1.0 0.0 0.010.010.010.05 1.0 1.0 1.0 0.0 0.010.010.010.06 1.0 1.0 1.0 0.0 0.010.010.010.08 (10.0, 1, 10.0, 1, 10.0)	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 0.0 0.07 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.08 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.1 (10.0, 1, 10.0, 10.0, 0.1) 	1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.17 1.0 1.0 1.0 0.0 0.010.010.010.06 1.0 1.0 1.0 0.080.020.020.020.09 1.0 1.0 1.0 0.090.020.020.020.09 (10.0, 1, 10.0, 10.0, 1)	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 0.16 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
krasΔ, no DNAdam, 0/0 10 10 10 00 00 00 00 00 00 00 00 00 00	(10.0, 10.0, 0.1, 0.1, 1)	1.0 0.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0	.1) (10.0, 10.0, 0.1, 1, 1)	1.0 1.0 1.0 0.0 0.010.010.010.07 1.0 1.0 1.0 0.0 0.010.010.020.020.08 1.0 1.0 1.0 0.0 0.020.020.020.08 (10.0, 10.0, 0.1, 1, 10.0) - 0.8 0.8 0.8 0.15 0.0 0.0 0.0 0.17 - 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 0.0 0.0	1.0 1.0 1.0 0.0 0.030.30.030.06 1.0 1.0 1.0 0.0 0.020.020.020.06 1.0 1.0 1.0 0.0 0.020.020.020.06 1.0 1.0 1.0 0.0 0.020.020.020.08 (10.0, 10.0, 0.1, 10.0, 1) -3.810.810.810.14 0.0 0.0 0.0 0.17 -1.0 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 0.0 0.0 0.0 0.0
krasΔ, DNAdam, 0/0 10 10 10 10 10 10 10 10 10 10 10 10 10	-1.0 1.0 1.0 0.11 0.0 0.0 0.0 0.11 -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 0.0 0.1 - 1.0 1.0 1.0 0.0 0.0 0.0 0.	10 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	(10.0, 10.0, 1, 1, 10.0)	(10.0, 10.0, 1, 10.0, 0.0) (10.0, 10.0, 1, 10.0, 0.0) (10.0, 10.0, 1, 10.0, 0.1) (10.0, 10.0, 0.0, 0.0, 0.0) (10.0, 10.0, 0.0, 0.0, 0.0) (10.0, 10.0, 0.0, 0.0, 0.0, 0.2) (10.0, 0.0, 0.0, 0.0, 0.0, 0.2)	(10.0, 10.0, 10.0, 0.0, 0.0, 0.0, 0.0, 0.	(10.0, 10.0, 1, 10.0, 10.0)
krasΔ, DNAdam, Chek1i/0 10 10 10 10 10 10 10 10 10 10 10 10 10	1.0 1.0 1.0 0.11 0.0 0.0 0.0 0.1 1 1.0 1.0	0.0, 10.0, 0.1, 10.0) 0.0, 10.0, 0.1, 10.0) 0.0, 10.0, 0.1, 10.0) 0.0, 10.0, 0.1, 10.0) 0.0, 10.0, 0.1, 10.0) 0.0, 10.0, 0.1, 10.0) 0.0, 0.0, 0.0, 0.0, 0.1, 10.0,	0.13	- 1.0 1.0 1.0 0.090.030.030.03 0.1 - 1.0 1.0 1.0 0.0 0.020.020.030.03 0.1 - 1.0 1.0 1.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1	1.0 1.0 1.0 0.12 0.0 0.0 0.0 0.13 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.12 1.0 1.0 1.0 0.150.010.010.010.15 (10.0, 10.0, 10.0, 10.0, 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 0.25 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.12	1.0 1.0 1.0 0.0 0.030.030.030.09 1.0 1.0 1.0 0.120.020.020.020.12 1.0 1.0 1.0 0.0 0.030.030.030.08 1.0 1.0 1.0 0.110.030.030.030.11 (10.0, 10.0, 10.0, 10.0, 1) - 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 0.0 0.26 - 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.26	1.0 1.0 1.0 0.0 0.040.040.040.08 1.0 1.0 0.090.040.040.040.08 1.0 1.0 0.0 0.040.040.040.08 1.0 1.0 0.1 0.040.040.050.1 (10.0, 10.0, 10.0, 10.0, 10.0)
krasΔ, DNAdam, chek1i/0 10 10 10 10 10 10 10 10 10 10 10 10 10	SSS ATA E CONTROL OF THE CONTROL OF	ATR ATR ATR ATR SSB ATR ATR ATR SSB ATR ATR ATR ATR ATR ATR ATR ATR ATR ATR	tion AAF ATR tion of or	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	SSSB AT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	BRAF DSB CDK1 CDK1 TM ATR CASP3 50 50 50 50 50 50 50 50 50 50 50 50 50
BI CC ATM DSB CA Proliferat	BI CC CAS DSB 3 CAS Proliferal	ATM	Proliferat BI CL ATM DSB CA CA	BF CC CT CTM , DSB 5 CAS Proliferat	ATM ATM ATM A Proliferat	BB N CC ATM , DSB 3 CA3	BI CE ATM , DSB 5 CAS