(0.1, 0.1, 0.1, 0.1, 0.1) wt, no DNAdam 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, 0.1, 0.1, 0.1, 1) -0.81 0.81 0.81 0.87 0.0 0.0 0.0 0.87 -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 0.99 -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	(0.1, 0.1, 0.1, 0.1, 10.0) -0.82 0.82 0.82 0.87 0.0 0.0 0.0 0.87 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 0.99 0.0 0.0 0.0 0.98 -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	(0.1, 0.1, 0.1, 1, 0.1) - 0.8 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.86 - 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	(0.1, 0.1, 0.1, 1, 1)	(0.1, 0.1, 0.1, 1, 10.0)	(0.1, 0.1, 0.1, 10.0, 0.1) - 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.86 - 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.99 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 - 1.0 1.0 1.0 0.99 0.0 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, 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 0.99 0.1 0.1 0.0 0.99 -1.0 1.0 1.0 0.99 0.1 0.1 0.1 0.98 -1.0 1.0 1.0 0.99 0.1 0.1 0.1 0.98 -1.0 1.0 1.0 0.99 0.1 0.1 0.1 0.99	(0.1, 0.1, 0.1, 10.0, 10.0) -0.8 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.8 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0
(0.1, 0.1, 1, 0.1, 0.1) wt, no DNAdam (0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.8 0.8 0.0 0.0	(0.1, 0.1, 1, 0.1, 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 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.9 0.0 0.0 0.0 0.9 1.0 - 1.0 1.0 1.0 0.9 0.0 0.0 0.0 0.9 1.0 - 1.0 1.0 1.0 0.9 0.0 0.0 0.0 0.9 1.0 - 1.0 1.0 1.0 0.9 0.0 0.0 0.0 0.0 0.9 1.0	(0.1, 0.1, 1, 0.1, 10.0) 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.0 0.86 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 0.99 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 1.0 1.0 1.0 0.99 0.0 0.0 0.0 0.0 0.99	(0.1, 0.1, 1, 1, 0.1) -0.81 0.81 0.81 0.86 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 0.98 0.02 0.02 0.02 0.98 -1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 -1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 -1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 -1.0 1.0 1.0 0.98 0.02 0.03 0.03 0.03 0.97	(0.1, 0.1, 1, 1, 1) -0.79 0.79 0.79 0.85 0.0 0.0 0.0 0.85 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 -1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 -1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 -1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98	(0.1, 0.1, 1, 1, 10.0) 0.8 0.8 0.8 0.8 0.0 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 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.96 0.03 0.03 0.04 0.96	(0.1, 0.1, 1, 10.0, 0.1) -0.82 0.82 0.82 0.88 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 0.97 0.02 0.02 0.02 0.97 -1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 -1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 -1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97	(0.1, 0.1, 1, 10.0, 1) -0.79 0.79 0.79 0.86 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 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96	(0.1, 0.1, 1, 10.0, 10.0) 0.8 0.8 0.8 0.8 0.0 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 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96
wt, no DNAdam (0.1, 0.1, 10.0, 0.1, 0.1) wt, no DNAdam (0.81 0.81 0.81 0.87 0.0 0.0 0.0 0.87 0.0 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) -0.82 0.82 0.82 0.88 0.0 0.0 0.0 0.88 -1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 -1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 -1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 -1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 -1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 -1.0 1.0 1.0 0.98 0.01 0.01 0.02 0.98	(0.1, 0.1, 10.0, 0.1, 10.0)	(0.1, 0.1, 10.0, 1, 0.1) - 0.8 0.8 0.8 0.8 0.6 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 0.97 0.03 0.02 0.3 0.97 - 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 - 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 - 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 - 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96	(0.1, 0.1, 10.0, 1, 1)	(0.1, 0.1, 10.0, 1, 10.0) -0.81 0.81 0.81 0.87 0.0 0.0 0.0 0.87 -0.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.97 0.03 0.03 0.97 -1.0 1.0 1.0 0.97 0.03 0.03 0.97 -1.0 1.0 1.0 0.96 0.03 0.03 0.97 -1.0 1.0 1.0 0.96 0.03 0.03 0.97 -1.0 1.0 1.0 1.0 0.96 0.03 0.03 0.97 -1.0 1.0 1.0 1.0 0.96 0.03 0.03 0.04 0.96 (0.1, 1, 0.1, 1, 10.0)	(0.1, 0.1, 10.0, 10.0, 0.1) -0.79 0.79 0.79 0.86 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 0.96 0.03 0.03 0.03 0.96 -1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 -1.0 1.0 1.0 0.96 0.03 0.03 0.04 0.96 -1.0 1.0 1.0 0.95 0.05 0.05 0.05 0.95 (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 0.87 - 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 - 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 - 1.0 1.0 1.0 0.96 0.04 0.04 0.05 0.95 - (0.1, 1, 0.1, 10.0, 1)	(0.1, 0.1, 10.0, 10.0, 10.0) -0.81 0.81 0.81 0.87 0.0 0.0 0.0 0.87 -0.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 -1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.96 -1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 -1.0 1.0 1.0 0.96 0.04 0.04 0.09 0.95 -1.0 1.0 1.0 0.95 0.05 0.05 0.05 0.95 (0.1, 1, 0.1, 10.0, 10.0)
wt, no DNAdam - 0.8 0.8 0.8 0.9 0.0 0.0 0.0 0.8 krasΔ, no DNAdam, 0/0 - 10 10 10 10 0.0 0.0 0.0 0.0 krasΔ, DNAdam, 0/0 - 10 10 10 10 0.0 0.0 0.0 0.0 krasΔ, DNAdam, chek1i/0 - 10 10 10 0.0 0.0 0.0 0.0 0.0 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 0.0 0.0 0.0 0.0 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 0.0 0.0 0.0 0.0 0.0 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 0.0 0.0 0.0 0.0 0.0 0.0 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 0.0 0.0 0.0 0.0 0.0 0.0 0.0 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 0.0 0.0 0.0 0.0 0.0 1.0 1	0.8 0.8 0.8 0.99 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	-0.79 0.79 0.79 0.99 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 0.95 0.02 0.02 0.02 0.98 -1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 -1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.96 -1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96	0.81 0.81 0.81 0.99 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	0.8 0.8 0.8 0.98 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 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.97 0.02 0.02 0.03 0.97 1.0 1.0 1.0 0.97 0.02 0.02 0.03 0.97 1.0 1.0 1.0 0.96 0.03 0.03 0.04 0.96 (0.1, 1, 1, 1, 1, 10.0)	-0.79 0.79 0.79 0.98 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 0.97 0.03 0.03 0.03 0.97 -1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 -1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 -1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 -1.0 1.0 1.0 0.96 0.04 0.04 0.96	-0.8 0.8 0.8 0.98 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 0.97 0.03 0.03 0.03 0.97 -1.0 1.0 1.0 0.96 0.03 0.03 0.04 0.96 -1.0 1.0 1.0 0.95 0.05 0.05 0.95 -1.0 1.0 1.0 0.95 0.05 0.05 0.95	0.81 0.81 0.81 0.99 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 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 (0.1, 1, 1, 10.0, 10.0)
wt, no DNAdam	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 0.0 0.0	0.79 0.79 0.99 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 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 1.0 1.0 1.0 0.9 0.99 0.0 0.1 0.9 (0.1, 1, 10.0, 0.1, 10.0)	-0.81 0.81 0.89 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 0.9 0.09 0.09 0.1 0.9 -1.0 1.0 1.0 0.88 0.11 0.11 0.12 0.88 -1.0 1.0 1.0 0.88 0.11 0.11 0.12 0.88 -1.0 1.0 1.0 0.81 0.18 0.19 0.81 -1.0 1.0 1.0 0.81 0.18 0.19 0.81	0.79 0.79 0.79 0.98 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 0.9 0.1 0.1 0.1 0.9 1.0 1.0 1.0 0.87 0.12 0.12 0.13 0.87 1.0 1.0 1.0 0.86 0.13 0.13 0.14 0.86 1.0 1.0 1.0 0.82 0.17 0.17 0.18 0.82 (0.1, 1, 10.0, 1, 1)	-0.79 0.79 0.79 0.98 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 0.89 0.1 0.1 0.11 0.89 -1.0 1.0 1.0 0.89 0.12 0.12 0.12 0.88 -1.0 1.0 1.0 0.87 0.12 0.12 0.13 0.87 -1.0 1.0 1.0 0.84 0.15 0.15 0.16 0.84 (0.1, 1, 10.0, 1, 10.0)	-0.82 0.82 0.82 0.99 00 0.0 0.0 0.99 -1.0 1.0 1.0 1.0 0.88 0.12 0.12 0.12 0.88 -1.0 1.0 1.0 0.84 0.15 0.15 0.16 0.84 -1.0 1.0 1.0 0.81 0.17 0.17 0.19 0.81 (0.1, 1, 10.0, 10.0, 10.0, 10.0, 0.1)	0.8 0.8 0.8 0.99 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 1.0 0.88 0.11 0.11 0.12 0.88 1.10 1.0 1.0 0.84 0.15 0.15 0.16 0.84 1.0 1.0 1.0 0.84 0.16 0.16 0.16 0.84 1.0 1.0 1.0 0.79 0.2 0.2 0.21 0.79 (0.1, 1, 10.0,	-0.81 0.81 0.81 0.99 0.0 0.0 0.0 0.99 -1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0
wt, no DNAdam	0.81 0.81 0.81 0.99 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 0.95 0.05 0.05 0.05 0.95 1.0 1.0 1.0 0.95 0.05 0.05 0.05 0.95 1.0 1.0 1.0 0.95 0.05 0.05 0.05 0.98 1.0 1.0 1.0 0.88 0.11 0.11 0.12 0.88 (0.1, 10.0, 0.1, 0.1, 1)	0.81 0.81 0.81 0.95 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1	0.81 0.81 0.81 0.99 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 0.84 0.15 0.15 0.16 0.84 1.0 1.0 1.0 0.81 0.18 0.18 0.19 0.81 1.0 1.0 1.0 0.81 0.18 0.18 0.19 0.81 1.0 1.0 1.0 0.76 0.23 0.23 0.24 0.76 (0.1, 10.0, 0.1, 1, 0.1)	0.8 0.8 0.8 0.8 0.0 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 0.85 0.14 0.14 0.15 0.85 1.0 1.0 1.0 0.81 0.18 0.18 0.19 0.81 1.0 1.0 1.0 0.8 0.19 0.19 0.2 0.8 1.0 1.0 1.0 0.76 0.23 0.23 0.24 0.76 (0.1, 10.0, 0.1, 1, 1)	0.8 0.8 0.8 0.98 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 0.86 0.14 0.14 0.14 0.86 1.0 1.0 1.0 0.81 0.18 0.18 0.19 0.81 1.0 1.0 1.0 0.74 0.25 0.25 0.26 0.74 (0.1, 10.0, 0.1, 1, 10.0)	- 0.81 0.81 0.81 0.98 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	0.81 0.81 0.81 0.99 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 0.81 0.18 0.18 0.19 0.81 1.0 1.0 1.0 0.77 0.22 0.22 0.23 0.77 1.0 1.0 1.0 0.79 0.2 0.2 0.2 0.21 0.79 1.0 1.0 1.0 0.73 0.25 0.25 0.27 0.73 (0.1, 10.0, 0.1, 10.0, 1)	0.81 0.81 0.81 0.99 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 0.32 0.18 0.18 0.18 0.82 1.0 1.0 1.0 0.78 0.21 0.21 0.22 0.78 1.0 1.0 1.0 0.76 0.23 0.23 0.24 0.76 (0.1, 10.0, 0.1, 10.0, 10.0, 10.0)
wt, no DNAdam - 0.79 0.79 0.79 0.00 0.00 0.00 0.00 0.00	- 0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0	- 0.81 0.81 0.81 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.	0.8 0.8 0.8 1.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0	0.79 0.79 0.79 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0	- 0.82 0.82 0.82 1.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0	0.8 0.8 0.8 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 0.95 0.05 0.05 0.05 0.95 1.0 1.0 1.0 0.94 0.06 0.06 0.06 0.94 1.0 1.0 1.0 0.93 0.06 0.06 0.07 0.93 1.0 1.0 1.0 0.93 0.07 0.07 0.93 (0.1, 10.0, 1, 10.0, 1)	0.79 0.79 0.79 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0
wt, no DNAdam	0.81 0.81 0.81 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.	- 0.81 0.81 0.81 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.	- 0.81 0.81 0.81 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.	- 0.83 0.83 0.83 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0	0.81 0.81 0.81 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.	0.81 0.81 0.81 1.0 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.	- 0.83 0.83 0.83 1.00 0.00 0.00 1.00 1.00 1.00 1.00 1.0	0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0
wt, no DNAdam	0.8 0.8 0.8 0.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0	0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0	0.8 0.8 0.8 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0	-0.79 0.79 0.79 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 0.72 0.27 0.27 0.28 0.72 1.0 1.0 1.0 0.68 0.3 0.3 0.32 0.68 1.0 1.0 1.0 0.69 0.3 0.3 0.31 0.69 1.0 1.0 1.0 0.62 0.36 0.36 0.38 0.62 (1, 0.1, 0.1, 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 1.0	0.82 0.82 0.82 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 0.66 0.3 0.3 0.3 0.5 0.65 1.0 1.0 1.0 1.0 1.0 0.6 0.3 0.3 0.3 0.3 0.5 0.65 1.0 1.0 1.0 1.0 0.6 0.3 0.3 0.3 0.3 0.3 0.3 0.5 0.65 1.0 1.0 1.0 0.6 0.3 0.3 0.3 0.3 0.5 0.6 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	0.81 0.81 0.81 1.0 0.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.
wt, no DNAdam - 0.79 0.79 0.85 0.0 0.0 0.0 0.85 krasΔ, no DNAdam, 0/0 - 10 10 10 10 0.0 0.0 0.0 10 krasΔ, DNAdam, 0/0 - 10 10 10 10 0.0 0.0 0.0 10 krasΔ, DNAdam, chek1i/0 - 10 10 10 10 0.0 0.0 0.0 10 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 0.0 0.0 0.0 10 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 10 0.0 0.0 0.0 10 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 10 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 0.99 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.99	10.8 0.8 0.8 0.8 0.0 0.0 0.0 0.8 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 0.8 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, 1, 1, 0.1)	-0.81 0.81 0.81 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	0.79 0.79 0.79 0.85 0.0 0.0 0.0 0.85 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, 1, 1, 10.0)	-0.82 0.82 0.82 0.88 0.0 0.0 0.0 0.88 -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 0.0 1.0 -1.0 1.0 1.0 0.99 0.0 0.0 0.0 0.99 (1, 0.1, 1, 10.0, 0.1)	-0.82 0.82 0.82 0.87 0.0 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 0.0 1.0	- 0.8 0.8 0.8 0.6 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 0.0 - 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.99 - 1.0 1.0 1.0 0.95 0.0 0.0 0.0 0.99 - 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.99 - 1.0 1.0 1.0 0.0 0.0 0.0 0.0 0.99
wt, no DNAdam - 0.81 0.81 0.86 0.0 0.0 0.0 0.86 krasΔ, no DNAdam, 0/0 - 10 10 10 10 0.0 0.0 0.0 0.0 1.0 krasΔ, DNAdam, 0/0 - 10 10 10 10 0.0 0.0 0.0 0.0 1.0 krasΔ, DNAdam, chek1i/0 - 10 10 10 10 0.0 0.0 0.0 0.0 1.0 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 0.0 0.0 0.0 0.0 1.0 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 0.0 0.0 0.0 1.0 (1, 0.1, 10.0, 0.1, 0.1) wt, no DNAdam - 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.6 0.6	-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 0.0 1.0 1.0	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 0.0 1.0 1	- 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 0.98 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 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.98 0.01 0.01 0.02 0.98 1.0 1.0 1.0 0.98 0.01 0.01 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98	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 - 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 00 00 00 10 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 10 00 00 00 10 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 00 00 00 10 00 00 00 00 00	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 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 0.0 1.0 1.0 1.0
krasΔ, no ĎNAdam, 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 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 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 00 00 00 00 00 00 00 00 00	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 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 ĎNAdam, 0/0 - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, 0/0 - 10 10 10 10 10 00 00 00 10 krasΔ, DNAdam, chek1i/0 - 10 10 10 10 10 00 00 10 00 00 00 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 10 00 00 10 10 10 00 krasΔ, DNAdam, chek1i/mk2i - 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 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 0.94 0.05 0.05 0.06 0.94 1.0 1.0 1.0 0.92 0.06 0.06 0.08 0.92 1.0 1.0 1.0 0.92 0.06 0.06 0.08 0.92 1.0 1.0 1.0 0.92 0.06 0.06 0.08 0.92 1.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 1.0 1.0 1.0 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 - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, 0/0 - 10 10 10 10 10 00 00 00 10 krasΔ, DNAdam, chek1i/0 - 10 10 10 10 00 00 00 10 00 00 00 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 00 00 00 00 00 00 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 00 00 00 00 00 00 00 00 00 00	- 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 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 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 - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, 0/0 - 10 10 10 10 00 00 00 00 00 00 krasΔ, DNAdam, chek1i/0 - 10 10 10 10 00 00 00 00 10 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 00 00 00 00 00 krasΔ, DNAdam, chek1i/mk2i - 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 0.0 1.0 1.0 1.0	(1, 10.0, 1, 0.1, 10.0) (1, 10.0, 1, 0.1, 10.0) (1, 10.0, 1, 0.1, 10.0) (1, 10.0, 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 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.97 0.02 0.02 0.03 0.97 1.0 1.0 1.0 0.97 0.02 0.02 0.03 0.97 1.0 1.0 1.0 0.97 0.02 0.02 0.03 0.97 1.0 1.0 1.0 0.97 0.02 0.03 0.07 1.0 1.0 0.01 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 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.98 1.0 1.0 1.0 0.96 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.96 0.03 0.03 0.04 0.96 1.0 1.0 1.0 0.96 0.03 0.03 0.04 0.96 1.0 1.0 0.00 0.0 0.0 0.0 0.0 1.0 1.0 1.	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 - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, 0/0 - 10 10 10 10 09 00 00 00 00 09 krasΔ, DNAdam, chek1i/0 - 10 10 10 09 00 00 00 09 krasΔ, DNAdam, 0/mk2i - 10 10 10 09 00 00 00 09 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 09 00 00 00 00 09 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 09 00 00 00 00 00 00 00 00 00 00 00 00	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 1.0 1.0	1.0 1.0 1.0 0.89 0.09 0.09 0.11 0.89 1.0 1.0 1.0 0.87 0.1 0.1 0.13 0.87 1.0 1.0 1.0 0.86 0.11 0.11 0.14 0.86 1.0 1.0 1.0 0.85 0.12 0.12 0.15 0.85 (1, 10.0, 10.0, 1, 0.1)	1.0 1.0 1.0 0.88 0.09 0.09 0.12 0.88 1.0 1.0 1.0 0.88 0.1 0.1 0.1 0.3 0.87 1.0 1.0 1.0 0.86 0.1 0.1 0.12 0.88 1.0 1.0 1.0 0.85 0.12 0.12 0.15 0.85 (1, 10.0, 10.0, 10.0, 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 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	1.0 1.0 1.0 0.84 0.14 0.14 0.16 0.84 1.0 1.0 1.0 0.81 0.15 0.15 0.18 0.82 1.0 1.0 1.0 0.81 0.16 0.16 0.19 0.81 0.16 0.16 0.19 0.81 0.16 0.16 0.19 0.81 0.16 0.16 0.19 0.81 0.16 0.16 0.19 0.81	1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0
krasΔ, no ĎNAdam, 0/0 - 10 10 10 10 00 00 00 10 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 00 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 00 00 00 00 00 00 00 00 00 00	1.0 1.0 1.0 0.96 0.04 0.04 0.96 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 1.0 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 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 0.96 0.03 0.03 0.04 0.96 1.0 1.0 1.0 0.95 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 (10.0, 0.1, 0.1, 0.1, 10.0)	10.0 1.0 0.8 0.16 0.16 0.2 0.8 1.0 1.0 1.0 1.0 0.8 0.17 0.17 0.2 0.8 1.0 1.0 1.0 0.79 0.17 0.17 0.21 0.79 1.0 1.0 1.0 0.78 0.18 0.18 0.22 0.78 1.0 1.0 0.79 0.17 0.17 0.21 0.79 1.0 1.0 0.78 0.18 0.18 0.22 0.78 1.0 1.0 0.78 0.18 0.18 0.22 0.78 1.0 1.0 0.0 0.0 0.87	1.0 1.0 1.0 0.82 0.14 0.14 0.18 0.82 1.0 1.0 1.0 0.82 0.15 0.15 0.18 0.82 1.0 1.0 1.0 0.81 0.16 0.16 0.19 0.81 1.0 1.0 1.0 0.79 0.17 0.17 0.21 0.79 (10.0, 0.1, 0.1, 1, 1)	1.0 1.0 1.0 0.81 0.16 0.16 0.19 0.81 0.10 1.0 0.8 0.17 0.17 0.21 0.79 (10.0, 0.1, 0.1, 1.0, 0.0) 0.0 0.8 0.81 0.81 0.81 0.87 0.0 0.0 0.0 0.87	- 1.0 1.0 1.0 0.75 0.21 0.21 0.25 0.75 - 1.0 1.0 1.0 0.73 0.23 0.23 0.27 0.73 - 1.0 1.0 1.0 0.72 0.24 0.24 0.28 0.72 - 1.0 1.0 1.0 0.7 0.26 0.26 0.3 0.7 - (10.0, 0.1, 0.1, 10.0, 0.1)	1.0 1.0 1.0 0.76 0.22 0.22 0.24 0.76 1.0 1.0 1.0 0.7 0.26 0.26 0.3 0.7 1.0 1.0 1.0 0.73 0.23 0.23 0.27 0.73 1.0 1.0 1.0 0.71 0.25 0.25 0.29 0.71 (10.0, 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
krasΔ, DNAdam, 0/0 - 10 10 10 10 00 00 00 00 00 00 krasΔ, DNAdam, chek1i/0 - 10 10 10 10 00 00 00 00 10 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 10 00 00 00 10 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 10 00 00 00 00 00 00 00 00	- 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.9 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.9 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0	(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)	(10.0, 0.1, 1, 1, 0.1) (10.0, 0.1, 1, 1, 0.1) (10.0, 0.1, 1, 1, 0.1)	(10.0, 0.1, 1, 1, 1) -0.81 0.81 0.81 0.80 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 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 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 0.0 (10.0, 0.1, 1, 1, 10.0) 0.8 0.8 0.8 0.8 0.0 0.0 0.0 0.87 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0	(10.0, 0.1, 1, 10.0, 0.0 0.0 0.0 1.0 (10.0, 0.1, 1, 10.0, 0.0 0.0 0.0 1.0 (10.0, 0.1, 1, 10.0, 0.1)	- 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	(10.0, 0.1, 1, 10.0, 10.0, 10.0) (10.0, 0.1, 1, 10.0, 10.0, 10.0) (10.0, 0.1, 1, 10.0, 10.0, 10.0) (10.0, 10.1, 10.0, 10.0, 10.0, 10.0)
krasΔ, DNAdam, 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 1.0 0.0 0.0 1.0 1.0 1.0	1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01	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 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 (10.0, 0.1, 10.0, 1, 10.0) -0.81 0.81 0.81 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 0.99 0.01 0.01 0.09 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 0.99 0.01 0.01 0.01 0.99 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 0.99 0.01 0.01 0.09 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
krasΔ, DNAdam, 0/0 - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, chek1i/0 - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 10 00 00 00 00 00 00 00 00	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 1.98 0.01 0.01 0.02 0.98 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 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.9 0.0 0.0 0.0 0.99 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 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 (10.0, 1, 0.1, 1, 10.0) 	1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 (10.0, 1, 0.1, 10.0, 0.1) - 0.81 0.81 0.81 0.99 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 0.98 0.02 0.02 0.92 0.93 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 1.0 1.0 1.0 0.1, 10.0, 1)	1.0 1.0 1.0 1.98 1.02 1.02 0.02 0.98 1.0 1.0 1.0 1.98 1.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 1.02 0.02 0.02 0.98 1.0 1.0 1.0 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, 0/0 - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, chek1i/0 - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 10 00 00 00 10 (10.0, 1, 1, 0.1, 0.1) wt, no DNAdam - 0.8 0.8 0.8 0.9 0.0 0.0 0.0 0.0 10 krasΔ, no DNAdam, 0/0 - 10 10 10 10 0.0 0.0 0.0 10	- 1.0 1.0 1.0 1.0 0.0 0.0 0.0 1.0 1.0 1.0	(10.0, 1, 1, 0.1, 10.0) (10.0, 1, 1, 0.1, 10.0) (10.0, 1, 1, 0.1, 10.0) (10.0, 1, 1, 0.1, 10.0)	1.0 1.0 1.0 1.0 1.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01 0.02 0.98 1.0 1.0 1.0 0.98 0.01 0.01 0.02 0.98 (10.0, 1, 1, 1, 0.1) 	1.0 1.0 1.0 1.0 1.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 1.0 1.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 1.0 1.99 0.01 0.01 0.01 0.99 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 1.9 0.01 0.01 0.01 0.9 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 (10.0, 1, 1, 1, 10.0) -0.8 0.8 0.8 0.99 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 0.99 0.01 0.01 0.01 0.99 -1.0 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 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.98 0.01 0.01 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 (10.0, 1, 1, 10.0, 1) 0.8 0.8 0.8 0.99 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 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
krasΔ, DNAdam, 0/0 - 10 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	(10.0, 1, 10.0, 0.1, 1)	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 0.95 0.04 0.04 0.05 0.95 1.0 1.0 1.0 0.96 0.04 0.04 0.96 1.0 1.0 1.0 0.96 0.04 0.04 0.96 1.0 1.0 1.0 0.96 0.04 0.04 0.96 (10.0, 1, 10.0, 1, 0.1) - 0.82 0.82 0.82 0.99 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	(10.0, 1, 10.0, 1, 1) -0.79 0.79 0.79 0.90 0.00 0.00 0.00 0.99 -1.0 1.0 1.0 1.0 0.94 0.05 0.05 0.05 0.95 -1.0 1.0 1.0 1.0 0.94 0.05 0.05 0.06 0.94	1.0 1.0 1.0 1.0 0.95 0.04 0.04 0.05 0.95 1.0 1.0 1.0 0.96 0.04 0.04 0.04 0.96 1.0 1.0 1.0 0.94 0.05 0.05 0.06 0.94 (10.0, 1, 10.0, 1, 10.0) - 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 0.94 0.05 0.05 0.06 0.94 1.0 1.0 1.0 0.93 0.07 0.07 0.07 0.93 1.0 1.0 1.0 0.93 0.07 0.07 0.08 0.92 (10.0, 1, 10.0, 10.0, 0.1) - 0.81 0.81 0.81 0.99 0.0 0.0 0.0 0.99 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.99	1.0 1.0 1.0 0.94 0.06 0.06 0.06 0.94 1.0 1.0 1.0 0.93 0.07 0.07 0.07 0.93 1.0 1.0 1.0 0.92 0.07 0.07 0.08 0.92 1.0 1.0 1.0 0.92 0.08 0.08 0.08 0.92 (10.0, 1, 10.0, 10.0, 1) - 0.82 0.82 0.82 0.99 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 1.9 0.94 0.06 0.06 0.06 0.94 1.0 1.0 1.0 0.93 0.07 0.07 0.93 1.0 1.0 1.0 0.93 0.07 0.07 0.93 1.0 1.0 1.0 0.93 0.06 0.06 0.07 0.93 (10.0, 1, 10.0, 10.0, 10.0) - 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 0.0
krásΔ, DNAdam, 0/0 - 10 10 10 10 10 10 10 10 10 10 10 10 10	- 1.0 1.0 1.0 1.9 9 0.01 0.01 0.01 0.99 - 1.0 1.0 1.0 0.98 0.01 0.01 0.02 0.98 - 1.0 1.0 1.0 0.98 0.01 0.01 0.02 0.98 - 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 - 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 - 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 9.98 0.01 0.01 0.02 9.98 1.0 1.0 1.0 9.99 0.01 0.01 0.01 9.99 1.0 1.0 1.0 9.98 0.02 0.02 0.02 9.96 1.0 1.0 1.0 9.98 0.02 0.02 0.02 0.98 (10.0, 10.0, 0.1, 0.1, 10.0) -0.81 0.81 0.81 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 9.3 0.07 0.07 0.07 0.93 1.0 1.0 1.0 9.3 0.07 0.07 0.07 0.93 1.0 1.0 1.0 9.2 0.08 0.08 0.08 0.92 1.0 1.0 1.0 9.2 0.08 0.08 0.08 0.92 (10.0, 10.0, 0.1, 1, 0.1) - 0.81 0.81 0.81 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 9.9 0.07 0.07 0.08 0.92 - 1.0 1.0 1.0 9.9 0.06 0.06 0.07 0.93 - 1.0 1.0 1.0 9.9 0.08 0.08 0.08 0.92 - 1.0 1.0 1.0 9.9 0.08 0.08 0.08 0.92 - 1.0 1.0 1.0 0.9 0.08 0.08 0.08 0.92 - 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 0.93 0.07 0.07 0.07 0.93 - 1.0 1.0 1.0 0.92 0.08 0.08 0.08 0.92 - 1.0 1.0 1.0 0.92 0.07 0.07 0.08 0.92 - 1.0 1.0 1.0 0.92 0.08 0.08 0.08 0.92 - 1.0 1.0 1.0 0.92 0.08 0.08 0.08 0.92 - 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 - 0.81 0.81 0.81 1.0 0.0 0.0 0.0 1.0 - 1.0 1.0 1.0 0.92 0.01 0.01 0.01 0.0	- 1.0 1.0 1.0 0.89 0.11 0.11 0.11 0.89 - 1.0 1.0 1.0 0.89 0.11 0.11 0.11 0.89 - 1.0 1.0 1.0 0.88 0.11 0.11 0.12 0.88 - 1.0 1.0 1.0 0.88 0.11 0.11 0.12 0.88 (10.0, 10.0, 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 0.98 0.02 0.02 0.98	1.0 1.0 1.0 0.9 0.1 0.1 0.1 0.9 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 0.9 0.09 0.1 0.9 -1.0 1.0 1.0 0.9 0.1 0.1 0.1 0.9 -1.0 1.0 1.0 0.8 0.12 0.12 0.12 0.88 -1.0 1.0 1.0 0.88 0.12 0.12 0.12 0.88 -1.0 1.0 1.0 0.88 0.12 0.12 0.12 0.88 -1.0 1.0 1.0 0.88 0.12 0.12 0.12 0.88 -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 00 00 00 00 00 krasΔ, DNAdam, 0/mk2i - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, chek1i/mk2i - 10 10 10 10 00 00 00 10 (10.0, 10.0, 1, 0.1, 0.1) wt, no DNAdam - 0.8 0.8 0.8 0.0 0.0 0.0 0.0 10 krasΔ, no DNAdam, 0/0 - 10 10 10 10 00 00 00 10 krasΔ, DNAdam, 0/0 - 10 10 10 00 00 00 00 10 krasΔ, DNAdam, 0/0 - 10 10 10 00 00 00 00 00 00 00 00 00 00	(10.0, 10.0, 1.0, 0.0, 0.0, 0.0, 0.0, 0.0	(10.0, 10.0, 1,0, 1,0, 0,0, 0,0, 0,0, 1,0, 1	1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 -1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 -1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 -1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 (10.0, 10.0, 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 0.93 0.07 0.07 0.93	1.0 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01	1.0 1.0 1.0 0.99 0.01 0.01 0.10 0.99 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 (10.0, 10.0, 1, 1, 10.0) - 0.82 0.82 0.82 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 0.92 0.07 0.07 0.08 0.92	1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 1.0 1.0 0.0 0.0 0.0 0.0 1.0 1	1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 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 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.98 0.02 0.02 0.02 0.98 1.0 1.0 1.0 0.97 0.03 0.03 0.03 0.97 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.
krasΔ, DNAdam, 0/0 - 10 10 10 10 10 10 10 10 10 10 10 10 10	1.0 1.0 1.0 1.0 0.99 0.01 0.01 0.01 0.99 1.0 1.0 1.0 0.99 0.01 0.01	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 0.93 0.07 0.07 0.93 1.0 1.0 1.0 0.9 0.09 0.09 0.1 0.9 1.0 1.0 1.0 0.92 0.07 0.07 0.08 0.92 1.0 1.0 1.0 0.92 0.07 0.07 0.08 0.92 (10.0, 10.0, 10.0, 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 0.86 0.13 0.13 0.14 0.86	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 0.92 0.07 0.07 0.08 0.92 1.0 1.0 1.0 1.0 0.91 0.08 0.08 0.09 0.91 1.0 1.0 1.0 0.92 0.08 0.08 0.08 0.92 1.0 1.0 1.0 0.93 0.07 0.07 0.07 0.93 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 0.88 0.12 0.12 0.12 0.88 1.0 1.0 1.0 0.88 0.12 0.12 0.12 0.88 1.0 1.0 1.0 0.86 0.14 0.14 0.14 0.86 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 0.88 0.12 0.12 0.12 0.88 1.0 1.0 1.0 0.86 0.13 0.13 0.14 0.86 1.0 1.0 1.0 0.87 0.12 0.12 0.13 0.87 1.0 1.0 1.0 0.87 0.13 0.13 0.13 0.13 0.87 1.0 1.0 1.0 0.0, 10.0, 10.0, 10.0 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 0.87 0.12 0.12 0.13 0.87 1.0 1.0 1.0 0.86 0.13 0.13 0.14 0.86 1.0 1.0 1.0 1.0 0.86 0.13 0.13 0.14 0.86 1.0 1.0 1.0 1.0 0.88 0.11 0.11 0.12 0.88 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1
krasΔ, DNAdam, chek1i/0 krasΔ, DNAdam, chek1i/0 krasΔ, DNAdam, o/mk2i krasΔ, DNAdam, chek1i/mk2i D38 S28 CASL3 CA	BRAF BRAF BRAF CONTINUE CONTINUE CASP3 CAS	BRAF BRAF BRAF BRAF BRAF BRAF BRAF BRAF	BRAF D38 CDK1 CDK1 TM_ATR SB_SSB CASP3 Feration	ATA	BRAF DSB SSB CASP3 CASP3 PI FI	1.0 1.0 1.0 0.8 0.19 0.19 0.2 0.8 1.0 1.0 1.0 0.8 0.19 0.19 0.2 0.8 1.0 1.0 1.0 0.77 0.22 0.22 0.23 0.77	- 1.0 1.0 1.0 0.82 0.18 0.18 0.82 - 1.0 1.0 1.0 0.8 0.19 0.19 0.2 0.8 - 1.0 1.0 1.0 0.77 0.21 0.21 0.23 0.77	US SS S S S S S S S S S S S S S S S S S
AT DS	B CI ATM_ DSB_ CA_ Prolifera	B CI ATM DSB CA Prolifera	CI ATM DSB CA Prolifera	BF N CE ATM A DSB SE CAS	BI CI ATM DSB CA CA	AT DS Prolife	DSB CATM CATM CATM CATM CATM CATM CATM CATM	B CI ATM DSB CA