wt, no DNAdam -		DSB_S 0.8	SB,u_0 0.8	O.05	_CDK1			0.1)	0.8	0.8				0.0						OC*,u_ 0.05				10.0)	1.0
krasΔ, no DNAdam, 0/0 -	1.0	1.0	1.0	0.06	0.0	0.0	0.0	0.06	1.0	1.0	1.0	0.06	0.0	0.0	0.0	0.06	1.0	1.0	1.0	0.05	0.0	0.0	0.0	0.05	- 0.8
krasΔ, DNAdam, 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			0.0					- 0.6
krasΔ, DNAdam, chek1i/0 · krasΔ, DNAdam, 0/mk2i ·			1.0	0.0	0.0		0.0		- 1.0 - 1.0	1.0	1.0	0.0		0.0			1.0		1.0	0.0		0.01	0.01		- 0.4
krasΔ, DNAdam, chek1i/mk2i		1.0	1.0						- 1.0	1.0	1.0			0.01			- 1.0	1.0	1.0	0.0	0.01	0.01	0.01	0.0	- 0.2
₿'	RAF	NEX ,	p ³⁸ C	OKI NI	ATR OSB	5SB CA	SP3	tion	BRAF	MEK	638 C	DKI DKI	ATR OSB	SSB CAS	5P3	ion F	3RAF	NEK ,	p38 C	DKI N	TR DSB	55B CAG	ip3 Coliferat	tion	0.0
	[d			CDC*,ι			ζ.		[d_DSB				K1]=(0			[4 [SE S		CDC*,u					1.0
wt, no DNAdam -	0.8	0.8	0.8	0.2	0.0	0.0	0.0	0.2	0.81	0.81	0.81	0.19	0.0	0.0	0.0	0.19	0.81		_						- 0.8
kras∆, no DNAdam, 0/0 -				0.19				0.19	1.0	1.0	1.0	0.2		0.0			1.0					0.0			- 0.6
krasΔ, DNAdam, 0/0 - krasΔ, DNAdam, chek1i/0 -		1.0						0.01	1.0	1.0				0.02			1.0			0.01					
krasΔ, DNAdam, 0/mk2i ·		1.0						0.01	- 1.0	1.0				0.02			- 1.0	1.0	1.0	0.01	0.03	0.03	0.03	0.01	- 0.4
krasΔ, DNAdam, chek1i/mk2i -				0.01	0.01				1.0	1.0				0.03			1.0	·		0.02					- 0.2
B	RAF	NEX	p ³⁸ c	DKI DKI	ATR DSB	55B CA	SP3 Prolifera	tion	BRAF	MEX	638 C	DKI ATM	ATR DSB	SSB CAS	5P3 Prolifera	tion F	3RAF 1	NEK ,	138 C	bkz W b	DSB-	55B CAG	sp3 roliferat	tion	0.0
	[d_[DSB_SS	SB,u_C	DC*,u_	CDK1]	=(0.1,	10.0,	0.1)	[d __	_DSB_S	SSB,u_0	CDC*,u	ı_CDK1	L]=(0.1	, 10.0,	1)	[d_DS	SB_SSE	3,u_CD)C*,u_(CDK1]	=(0.1,	10.0,	, 10.0)	1.0
wt, no DNAdam - krasΔ, no DNAdam, 0/0 -		1.0	0.8	0.26			0.0	0.26	- 0.8	1.0		0.25		0.0			0.8	0.8						0.25	- 0.8
krasΔ, DNAdam, 0/0								0.01		1.0						0.02	1.0			0.26				0.26	- 0.6
krasΔ, DNAdam, chek1i/0 ·	1.0	1.0	1.0	0.01	0.02	0.02	0.02	0.02	1.0	1.0	1.0	0.02	0.06	0.06	0.06	0.02	1.0	1.0	1.0	0.02	0.08	0.08	0.08	0.02	- 0.4
krasΔ, DNAdam, 0/mk2i -	1.0	1.0	1.0	0.01	0.01	0.01	0.01	0.01	1.0	1.0	1.0	0.02	0.04	0.04	0.05	0.02	1.0							0.02	- 0.2
krasΔ, DNAdam, chek1i/mk2i ·		<u> </u>				<u>'</u>			1.0	1.0	<u> </u>			0.06	<u> </u>		1.0 3RAF	·		0.02 0.02					0.0
B	I	,,,- (ہ [۔] رہ	ATM	DSB.	CA CA	prolifera	tion	BL. 1	him	4. Q	ATM	r OSB	SSB CAS	prolifera	u- Y			٠,	ATM	DSb	P	rolifera		
wt, no DNAdam -				CDC*,u					- 8.0	d_DSB 0.8				K1]=(1 0.0						DC*,u				0.05	1.0
kras∆, no DNAdam, 0/0 -	1.0	1.0	1.0	0.05	0.0	0.0	0.0	0.05	- 1.0	1.0	1.0	0.05	0.0	0.0	0.0	0.05	1.0			0.05					- 0.8
krasΔ, DNAdam, 0/0 -	1.0	1.0	1.0	0.01	0.0	0.0	0.0	0.01	1.0	1.0	1.0	0.01	0.0	0.0	0.0	0.01	1.0	1.0	1.0	0.01	0.0	0.0	0.0	0.01	- 0.6
krasΔ, DNAdam, chek1i/0 ·				0.01				0.01	1.0	1.0						0.02	-			0.02					- 0.4
krasΔ, DNAdam, 0/mk2i · krasΔ, DNAdam, chek1i/mk2i ·				0.01		0.0		0.01	- 1.0 - 1.0	1.0				0.0			1.0			0.01					- 0.2
									BRAF								3RAF N	NEK ,	p38 CC	DKJ W D	TR DSB	SSB CAS	SP3	tion	0.0
							•							·	•					,	•	8	(O·		
wt, no DNAdam				_CDC*,					- 0.8	0.8	0.8	0.2		0.0			[d_ - 0.8	DSB_5	0.8	CDC*,		(1]=(1 0.0			1.0
kras∆, no DNAdam, 0/0 ·	1.0	1.0	1.0	0.19	0.0	0.0	0.0	0.19	1.0	1.0	1.0	0.2	0.0	0.0	0.0	0.2	1.0	1.0	1.0	0.21	0.0	0.0	0.0	0.21	- 0.8
kras∆, DNAdam, 0/0 -								0.05	1.0					0.01			1.0							0.06	- 0.6
krasΔ, DNAdam, chek1i/0 - krasΔ, DNAdam, 0/mk2i -								0.06	- 1.0 - 1.0	1.0				0.01			1.0			0.06				0.07	- 0.4
kras∆, DNAdam, chek1i/mk2i ·	1.0	1.0	1.0	0.06	0.0	0.0	0.0	0.06	- 1.0	1.0	1.0	0.06	0.01	0.01	0.02			'						0.06	- 0.2
В	RAF	VEK	938 C	DKI DKI	ATR OSB	55B CA	SP3 prolifera	tion	BRAF	MEK	638 C	DKI DKI	ATR OSB	SSB CAS	5P3 prolifera	tion F	3RAF N	NEK ,	38 C	DKI M F	DSB S	55B CAG	ip3 Coliferat	tion	0.0
				CDC*,u			•							(1]=(1,	•		[d_D	SB_SS	B,u_C	DC*,u_	_CDK1]=(1,	10.0, 1	10.0)	1.0
wt, no DNAdam		0.8	0.8	0.26				0.26	-	0.81				0.0			0.79								- 0.8
krasΔ, no DNAdam, 0/0 - krasΔ, DNAdam, 0/0 -			1.0	0.24				0.24	1.0	1.0		0.26		0.0			1.0			0.25		0.0			- 0.6
kras∆, DNAdam, chek1i/0 ·	1.0	1.0	1.0	0.07	0.01	0.01	0.01	0.08	- 1.0	1.0	1.0	0.08	0.03	0.03	0.03	0.09	1.0	1.0	1.0	0.08	0.04	0.04	0.05	0.1	- 0.4
krasΔ, DNAdam, 0/mk2i ·	1.0	1.0	1.0	0.06	0.0	0.0	0.01	0.06	1.0	1.0	1.0	0.07	0.02	0.02	0.03	0.07	1.0	1.0	1.0	0.06	0.03	0.03	0.04	0.07	- 0.2
krasΔ, DNAdam, chek1i/mk2i -		1.0	1.0	0.09	0.01	<u>'</u>			1.0	1.0	1.0			0.03			1.0 3RAF	1.0		0.09					0.0
B	RAF N	nr. k	کی کر	Un ATM !	DSB	CA CA	broliters.	tion	BRAF	Mr.	کی آرم	Dr. ATM	P. DSB	SSB CAS	prolifera	uv. P		·	. U	DKJ W E	DSB.	. CA	rolifera		
wt, no DNAdam -		_	_	DC*,u_ 0.05					[d ₋					L]=(10. 0.0			[d_DS		_					, 10.0)	1.0
kras∆, no DNAdam, 0/0				0.05		0.0		0.05	- 1.0	1.0		0.05		0.0			- 1.0			0.05					- 0.8
kras∆, DNAdam, 0/0 -	1.0	1.0	1.0	0.01	0.0	0.0	0.0	0.01	1.0	1.0	1.0	0.02	0.0	0.0	0.0	0.02	1.0	1.0	1.0	0.02	0.0	0.0	0.0	0.02	- 0.6
kras∆, DNAdam, chek1i/0 ·		1.0						0.03	1.0	1.0		0.02					1.0			0.02				0.03	- 0.4
krasΔ, DNAdam, 0/mk2i · krasΔ, DNAdam, chek1i/mk2i ·								0.02	- 1.0 - 1.0	1.0		0.02		0.0			1.0			0.02					- 0.2
									BRAF								3RAF N	nek ,	p38 C	DKJ V	TR OSB	55B CAS	5P3 Coliferat	tion	0.0
				<i>ρ</i> ν [.] CDC*,u			•							(1]=(10	•		p					`			1^
wt, no DNAdam -		0.8	0.8	0.19				0.19	- 0.8	0.8	0.8	0.2		0.0						DC*,u_ 0.19				0.19	1.0
kras∆, no DNAdam, 0/0 -				0.2			0.0		1.0		1.0			0.0			1.0		1.0	0.2		0.0			0.8
krasΔ, DNAdam, 0/0 · krasΔ, DNAdam, chek1i/0 ·				0.07	0.0				1.0	1.0				0.01			1.0			0.08				0.08	- 0.6
krasΔ, DNAdam, chek1i/0 · krasΔ, DNAdam, 0/mk2i ·				0.09				0.09	- 1.0	1.0				0.01			1.0							0.08	- 0.4
krasΔ, DNAdam, chek1i/mk2i		1.0	1.0	0.09	0.0	0.0	0.0	0.09	1.0	1.0	1.0	0.1	0.01	0.01	0.01		1.0	1.0		0.09					- 0.2
Ī	<u> </u>	NEX	p38 c	DKJ DKJ	ATR OSB	55B CA	SP3 Prolifera	tion	BRAF	MEX	638 C	DKI ATM	ATR DSB	SSB CAS	5P3 Prolifera	tion F	3RAF 1	NEK .	138° CT	XIN D	DSB S	55B CAG	ip3 roliferat	tion	0.0
B)	RAF			,		· ·																			1.0
8) DC*,u_(CDK1]:	=(10.0	, 10.0,	0.1)	[d_	DSB_S	SB,u_C	DC*,u_	_CDK1]=(10.0	0, 10.0	, 1)	[d_DS	B_SSB	,u_CD	C*,u_C	DK1]=	=(10.0	, 10.0	, 10.0)	
wt, no DNAdam -	[d_D 0.81	0SB_SS 0.81	B,u_C[0.81	OC*,u_0 0.23	0.0	0.0	0.0	0.23	0.82	0.82	0.82	0.24	0.0	0.0	0.0	0.24	0.8	0.8	0.8	0.26	0.0	0.0	0.0	0.26	- 0.8
wt, no DNAdam · kras∆, no DNAdam, 0/0 ·	[d_D 0.81	0.81 1.0	B,u_Cl 0.81 1.0	OC*,u_(0.23 0.25	0.0	0.0		0.23			0.82	0.24	0.0		0.0	0.24		1.0	0.8	0.26	0.0	0.0	0.0		- 0.8 - 0.6
wt, no DNAdam -	[d_D 0.81 1.0	0SB_SS 0.81 1.0	B,u_C[0.81 1.0 1.0	OC*,u_(0.23 0.25	0.0	0.0	0.0	0.23	- 0.82 - 1.0	1.0	0.82 1.0 1.0	0.24 0.26 0.1	0.0 0.0 0.02	0.0	0.0	0.24 0.26 0.11	0.8	0.8 1.0 1.0	0.8 1.0 1.0	0.26 0.25 0.1	0.0 0.0 0.02	0.0 0.0 0.02	0.0	0.26	
wt, no DNAdam - krasΔ, no DNAdam, 0/0 - krasΔ, DNAdam, 0/0 -	[d_D 0.81 1.0	0SB_SS 0.81 1.0	B,u_C[0.81 1.0 1.0	0.23 0.25 0.1 0.11	0.0 0.0 0.0	0.0 0.0 0.0	0.0	0.23 0.25 0.1 0.11	- 1.0 - 1.0	0.82 1.0 1.0	0.82 1.0 1.0	0.24 0.26 0.1 0.11	0.0 0.02 0.02	0.0	0.0 0.0 0.02 0.02	0.24 0.26 0.11 0.12	- 0.8 - 1.0 - 1.0	0.8 1.0 1.0	0.8 1.0 1.0	0.26 0.25 0.1	0.0 0.0 0.02 0.03	0.0 0.0 0.02 0.03	0.0 0.0 0.03 0.03	0.26 0.25 0.11 0.13	- 0.6 - 0.4
wt, no DNAdam · krasΔ, no DNAdam, 0/0 · krasΔ, DNAdam, 0/0 · krasΔ, DNAdam, chek1i/0 · krasΔ, DNAdam, chek1i/0 · krasΔ, DNAdam, chek1i/mk2i ·	[d_D 0.81 1.0 1.0 1.0	0.81 1.0 1.0 1.0 1.0	B,u_C[0.81 1.0 1.0 1.0	0.23 0.25 0.1 0.11 0.12	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.23 0.25 0.1 0.11 0.12	- 0.82 - 1.0 - 1.0 - 1.0 - 1.0	1.0 1.0 1.0 1.0	0.82 1.0 1.0 1.0 1.0	0.24 0.26 0.1 0.11 0.09	0.0 0.02 0.02 0.02	0.0 0.02 0.02 0.02	0.0 0.02 0.02 0.02 0.03	0.24 0.26 0.11 0.12 0.13	- 0.8 - 1.0 - 1.0 - 1.0 - 1.0	0.8 1.0 1.0 1.0 1.0	0.8 1.0 1.0 1.0 1.0	0.26 0.25 0.1 0.12 0.11	0.0 0.02 0.03 0.03	0.0 0.02 0.03 0.03	0.0 0.03 0.03 0.03	0.26 0.25 0.11 0.13 0.12	- 0.6 - 0.4 - 0.2
wt, no DNAdam · krasΔ, no DNAdam, 0/0 · krasΔ, DNAdam, 0/0 · krasΔ, DNAdam, chek1i/0 · krasΔ, DNAdam, chek1i/mk2i · krasΔ, DNAdam, chek1i/mk2i ·	[d_D 0.81 1.0 1.0 1.0	0.81 1.0 1.0 1.0 1.0	B,u_C[0.81 1.0 1.0 1.0	0.23 0.25 0.1 0.11	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.23 0.25 0.1 0.11 0.12	- 0.82 - 1.0 - 1.0 - 1.0 - 1.0	1.0 1.0 1.0 1.0	0.82 1.0 1.0 1.0 1.0	0.24 0.26 0.1 0.11 0.09	0.0 0.02 0.02 0.02	0.0 0.02 0.02 0.02	0.0 0.02 0.02 0.02 0.03	0.24 0.26 0.11 0.12 0.13	- 0.8 - 1.0 - 1.0 - 1.0 - 1.0	0.8 1.0 1.0 1.0 1.0	0.8 1.0 1.0 1.0 1.0	0.26 0.25 0.1 0.12 0.11	0.0 0.02 0.03 0.03	0.0 0.02 0.03 0.03	0.0 0.03 0.03 0.03	0.26 0.25 0.11 0.13 0.12	- 0.6 - 0.4