wt, no DNAdam		_	_	CDC*,u __				0.1)					_	1]=(0.1 0.0			[d_D - 0.8	SB_SS 0.8	_	OC*,u_ 0.04					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					0.01	0.01	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			0.01			- 1.0 - 1.0		1.0		0.0	0.0	0.0		- 0.4
krasΔ, DNAdam, chek1i/mk2i			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
8	RAF	VEK	638 C	OKI NI	ATR OSB	55B CA	SP3	tion	BRAF	NEK ,	p38 C	OKI ATM	ATR OSB	55B CAG	SP3	tion P	3RAF N	IEK ,	138 CT	DKJ W L	TR DSB	55B CAG	ip3 roliferat	tion	0.0
				_CDC*,ι			ζ.							<1]=(0			[4 [SR S		CDC*,u					1.0
wt, no DNAdam	0.81	0.81	0.81	0.2	0.0	0.0	0.0	0.2	0.82	0.82	0.82	0.19	0.0	0.0	0.0	0.19	0.79								- 0.8
kras∆, no DNAdam, 0/0 ·								0.19	1.0	1.0		0.19		0.0			1.0							0.19	- 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		0.01	0.01	0.01	- 1.0	1.0	1.0	0.01	0.02	0.02	0.02	0.01	1.0	1.0	1.0	0.01	0.03	0.03	0.03	0.01	- 0.4
krasΔ, DNAdam, chek1i/mk2i ·				0.02			0.01		1.0	1.0				0.03			1.0	·		0.01					- 0.2
₿'	RAF	NEX	638 C	DKI DKI	ATR DSB	55B CA	SP3 Prolifera	tion	BRAF	NEK,	p38 C	DKI ATM	ATR DSB	SSB CAC	SP3 Spolifera	cion P	3RAF N	IEK ,	938 C	DKJ W L	DSB-	55B CAG	sp3 roliferat	tion	0.0
				DC*,u_					[d __	_DSB_S	SSB,u_C	CDC*,u	_CDK1	L]=(0.1	., 10.0,	1)	[d_DS	B_SSE	3,u_CD)C*,u_(CDK1]	=(0.1,	10.0,	10.0)	1.0
wt, no DNAdam · krasΔ, no DNAdam, 0/0 ·				0.25				0.25	1.0	1.0		0.25		0.0						0.24					- 0.8
kras∆, DNAdam, 0/0								0.02		1.0						0.02	-			0.24					- 0.6
kras∆, DNAdam, chek1i/0 ·	1.0	1.0	1.0	0.02	0.01	0.01	0.01	0.02	1.0	1.0	1.0	0.02	0.06	0.06	0.07	0.02	1.0	1.0	1.0	0.02	0.08	0.08	0.09	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	0.01	0.05	0.05	0.05	0.02	1.0			0.01					- 0.2
krasΔ, DNAdam, chek1i/mk2i ·		<u> </u>	<u> </u>			<u> </u>	<u> </u>		1.0	1.0			<u>, </u>	0.06	<u> </u>		1.0	·	<u> </u>	O.02					0.0
8	Kr. V	NV Y	مي رم	N'ATM!	n DSB	, Cb	broliters.	ition	BKn. 1	NV.	لهي كر	ATM	n DSB	55B CAS	Prolifera	uv. P		·	. ()	ATM.	DSB.	, CA	rolifera		
wt, no DNAdam		_DSB_9	SSB,u_ 0.8	_CDC*,ı			0.1, 0		8.0	d_DSB 0.8			_	<1]=(1 ₀			[d_[- 0.8	OSB_S:		DC*,u				0.05	1.0
kras∆, no DNAdam, 0/0								0.04	- 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	0.01	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
kras∆, DNAdam, chek1i/0 ·	1.0	1.0	1.0	0.01	0.0	0.0	0.0	0.01	1.0	1.0						0.02	1.0			0.02					- 0.4
krasΔ, DNAdam, 0/mk2i · krasΔ, DNAdam, chek1i/mk2i ·				0.01		0.0		0.01	1.0	1.0				0.0			1.0			0.01					- 0.2
								ition									BRAF N	IEK ,	138 CT	DKI DKI	TR S	55B CAS	5P3 sliferat	tion	0.0
							•							·	•					,	•	8	(O.		
wt, no DNAdam				0.18					0.8	0.8	0.8	0.2		0.0			[d_ - 0.8	DSB_9	0.8	CDC*,		(1]=(1 0.0			1.0
kras∆, no DNAdam, 0/0 -	1.0	1.0	1.0	0.2	0.0	0.0	0.0	0.2	1.0	1.0	1.0	0.19	0.0	0.0	0.0	0.19	1.0	1.0	1.0	0.19	0.0	0.0	0.0	0.19	- 0.8
kras∆, DNAdam, 0/0 -								0.05	1.0					0.01			1.0			0.04					- 0.6
krasΔ, DNAdam, chek1i/0 · krasΔ, DNAdam, 0/mk2i ·								0.05	1.0	1.0				0.02			1.0			0.06					- 0.4
krasΔ, DNAdam, chek1i/mk2i		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	1.0	1.0	1.0	0.06	0.02	0.02	0.02	0.06	- 0.2
8	RAF	NEX	P ³⁸ C	DKI ATM	ATR DSB	55B CA	SP3 prolifera	tion	BRAF	NEX.	p ³⁸ C	OKI N	ATR DSB	55B CAG	SP3 Skolifera	cion P	3RAF N	IEK,	p38 C	DKJ W L	DSB-	SSB CAS	ip3 coliferat	tion	0.0
				CDC*,u			•							(1]=(1,	•		[d D	SB SS	B,u C	DC*,u_	CDK1	.]=(1,	10.0,	10.0)	1.0
wt, no DNAdam		0.8	0.8	0.25	0.0			0.25	_	0.81				0.0			0.8	0.8						0.26	- 0.8
krasΔ, no DNAdam, 0/0 · krasΔ, DNAdam, 0/0 ·			1.0	0.24			0.0		1.0	1.0		0.25		0.0			1.0	1.0		0.24		0.0			- 0.6
krasΔ, DNAdam, chek1i/0				0.07	0.01				- 1.0	1.0							1.0	1.0		0.08					- 0.4
krasΔ, DNAdam, 0/mk2i ·	1.0	1.0	1.0	0.06	0.0	0.0	0.0	0.06	1.0	1.0	1.0	0.07	0.02	0.02	0.03	0.08	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>	<u> </u>		1.0	1.0	1.0			0.02			1.0 3RAF N	1.0		0.09					0.0
8	RAF	WEL "	هې کړ	DKI ATM	DSB	220 CB	prolifera	tior,	BRAF	NE.	لى كى	DK. ALW]	DSB	SSB CAS	Prolifera	cior, b	o' - 1		, CĮ	DKI N I	DSB.	P P	roliferat	Ü	
wt, no DNAdam			_	DC*,u_				0.1)						L]=(10.				_	_					10.0)	1.0
wt, no DNAdam · krasΔ, no DNAdam, 0/0 ·				0.05		0.0		0.05	- 1.0	1.0		0.05		0.0			- 0.81			0.05					- 0.8
kras∆, DNAdam, 0/0 ·	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	1.0			0.02					- 0.6
kras∆, DNAdam, chek1i/0 ·	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	1.0			0.02				0.02	- 0.4
krasΔ, DNAdam, 0/mk2i ·								0.02	-					0.0			1.0			0.02					- 0.2
kras∆, DNAdam, chek1i/mk2i · &								0.02	BRAF	1.0		0.02		0.0 55B CAS						DKJ W D					0.0
							•							·	•					1.	V	8	ייטיי`		
wt, no DNAdam			_	CDC*,u 0.18				0.18					_	0.0			[d_D - 0.81			DC*,u_ 0.2					1.0
kras∆, no DNAdam, 0/0 -	1.0	1.0	1.0	0.2	0.0	0.0	0.0	0.2	1.0	1.0	1.0	0.18	0.0	0.0	0.0	0.18	1.0	1.0	1.0	0.19	0.0	0.0	0.0	0.19	- 0.8
kras∆, DNAdam, chok1i/0								0.07	1.0					0.01			1.0		1.0	0.07					- 0.6
kras∆, DNAdam, chek1i/0 · kras∆, DNAdam, 0/mk2i ·				0.07	0.0			0.07	1.0	1.0				0.01			1.0					0.02		0.1	- 0.4
krasΔ, DNAdam, chek1i/mk2i					0.0				- 1.0	1.0				0.01		0.09	1.0	<u> </u>	<u> </u>	0.09					- 0.2
В	RAF	NEX	p38 cs	DKI ATM	ATR DSB	55B CA	SP3 Prolifera	ition	BRAF	NEK .	p38 CC	DKI ATM	ATR DSB	SSB CAC	SP3 Prolifera	cion P	3RAF N	IEK .	1 ³⁸ CT	DKJ W L	TR DSB	55B CAG	ip3 roliferat	tion	0.0
	[d_D			DC*,u_(ζ,			DSB_S]=(10.0			[d DS	B_SSR	u CD،	C*,u C	DK11:	=(10.0	, 10.0	, 10.0)	1.0
l	0.79	0.79	0.79						0.8	0.8		0.25		0.0			- 0.8	0.8						0.26	- 0.8
wt, no DNAdam					\cap	0.0	0.0	0.26	- 1.0	1.0	1.0	0.26	0.0	0.0	0.0	0.26	1.0	1.0	1.0	0.25	0.0	0.0	0.0	0.25	- 0.6
krasΔ, no DNAdam, 0/0 ·			1.0			0.0	0.0	0.1	- 1.0	1.0	1.0	0.09	0.02	0.02	0.02	0.1	- 1.0	1.0	1.0	0.09	0.02	0.02	0.02	0.1	
	1.0	1.0	1.0		0.0			0.1	1.0	1.0				0.02			1.0			0.00	0102	0.02	0.02	0.1	- 0.4
krasΔ, no DNAdam, 0/0 - krasΔ, DNAdam, 0/0 -	1.0	1.0	1.0	0.1	0.0	0.0	0.0					0.13	0.01		0.01	0.13	- 1.0 - 1.0 - 1.0	1.0		0.11	0.03	0.02	0.04	0.12	
krasΔ, no DNAdam, 0/0 - krasΔ, DNAdam, chek1i/0 - krasΔ, DNAdam, chek1i/0 - krasΔ, DNAdam, 0/mk2i - krasΔ, DNAdam, chek1i/mk2i -	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	0.11 0.09 0.12	0.0	0.0	0.0	0.12	1.0 - 1.0 - 1.0	1.0	1.0	0.13 0.1 0.14	0.01	0.01	0.01	0.13 0.11 0.14	1.0	1.0 1.0	1.0 1.0 1.0	0.11 0.1 0.13	0.03 0.03 0.03	0.03	0.04 0.03 0.03	0.12 0.11 0.13	- 0.2
krasΔ, no DNAdam, 0/0 - krasΔ, DNAdam, 0/0 - krasΔ, DNAdam, chek1i/0 - krasΔ, DNAdam, 0/mk2i - krasΔ, DNAdam, chek1i/mk2i -	1.0 1.0 1.0	1.0 1.0 1.0	1.0 1.0 1.0	0.1 0.11 0.09	0.0	0.0	0.0	0.12	1.0 - 1.0 - 1.0	1.0	1.0	0.13 0.1 0.14	0.01	0.01	0.01	0.13 0.11 0.14	1.0	1.0 1.0	1.0 1.0 1.0	0.11	0.03 0.03 0.03	0.03	0.04 0.03 0.03	0.12 0.11 0.13	