

SI Guide

PDF containing Supplementary Tables 1,2,3

Supplementary Information Table 1

List of Primer Sequences used for quantitative RT-PCR. Gene (or locus) name as described in the manuscript with associated forward and reverse primer.

Supplementary Information Table 2

List of antibodies used for Flow Cytometry, Histology, Western Blot and ChIP. Target of the antibody is listed, followed by clone name, commercial vendor, catalogue number and the most recently used lot of this antibody.

Supplementary Information Table 3

Gene list of GSEA genesets

Genesets from Figure 2a,b and Extended Data Figure 4c are displayed in detail. All contained genes are shown with expression values of individual samples as a heatmap with normalized values per row. Enrichment scale is displayed on the right side of every heatmap with outliers marked in bright yellow.

Supplementary Information Table 1 Primer (Gronke et al.)

<i>Gene</i>		<i>Sequence</i>
Atm	Forward	AGCTTGTGAAGGGCCGTGATGA
	Reverse	AACACCGCTTCGCTGAGAAAGG
Atm Cold	Forward	TAAGCTGGCACTGAACTCCC
	Reverse	CACGTTCTGAAGTCCTGGTTC
Atm End	Forward	CCATCAGCCACAGGACTTTC
	Reverse	TCCTCCTTTACTCTCGTGGC
Atm Mid	Forward	ACCAGCTTCCAATACTGTTCC
	Reverse	AAGTGCCTCTGTTAGTCATCC
Atm Start	Forward	TCAGGTATTGCAGGCCTAGG
	Reverse	AGCCTGACCATAGAACCCAC
Atmin	Forward	ATGCACCTCGTCAAGAGCC
	Reverse	ACATCCTTTGATTGGACAACAGT
Atr	Forward	AGTTGGCCAGTGCTACTCCAGA
	Reverse	GGTCGGCTGAGCGTCAGTTTTCTT
Bbc3	Forward	TTCTCCGGAGTGTTTCATGC
	Reverse	TACAGCGGAGGGGCATCAG
Cdkn1a	Forward	ATTCAGAGCCACAGGCACCAT
	Reverse	TCTCCGTGACGAAGTCAAAGTT
cMyc	Forward	CCTAGTGCTGCATGAGGAGA
	Reverse	TCTTCCTCATCTTCTTGCTCTTC
Cxcl2	Forward	ACCAACCACCAGGCTAGA
	Reverse	GCGTCACACTCAAGCTCT
GAPDH	Forward	TGCACCACCAACTGCTTAGC
	Reverse	GGCATGGACTGTGGTCATGAG
HPRT	Forward	TCAGTCAACGGGGGACATAAA
	Reverse	GGGGCTGTACTGCTTAACCAG
Ifng	Forward	ATCTGGAGGAACTGGCAAAA
	Reverse	TTCAAGACTTCAAAGAGTCTGAGGTA
Il17a		Mm00439618_m1
		Taqman Thermo Fisher
Il10r2	Forward	ACCTGCTTTCCCAAACGAA
	Reverse	TGAGAGAAGTCGCACTGAGTC
Il1a	Forward	TTGGTTAATGACCTGCAACA
	Reverse	GAGCGCTCACGAACAGTTG
Il1b	Forward	TGTAATGAAAGACGGCACACC
	Reverse	TCTTCTTTGGGTATTGCTTGG
Il20r2	Forward	ACCCCTTTAACCGAAATGCAA
	Reverse	CCTCCAGTAGACCACAAGGAA
Il22bp	Forward	ACAACAGCATCTACTTTGTGCAG
	Reverse	CCCCAGCAGTCAACTTTAT
Il23a	Forward	ATGCTGGATTGCAGAGCAGTA
	Reverse	ACGGGGCACATTATTTTAGTCT
Il6	Forward	TCG GAG GCT TAA TTA CAC ATG TT
	Reverse	GCATCATCGTTGTTTCATACAATC
Mre11	Forward	CTTGTACGACTGCGAGTGGA
	Reverse	TTCACCCATCCCTCTTTCTG

Nbn	Forward	TTGGTTGCATGCTCTTCTTG
	Reverse	GGCTGCTTCTTGGACTCAAC
Nos2	Forward	GGGCTGTCACGGAGATCA
	Reverse	CCATGATGGTCACATTCTGC
Parp1	Forward	ATGGCCAGGACGAAGAGGCAGTAA
	Reverse	TCAGCTTCCCCAAGGGCATCTTCT
Prkdc	Forward	AAACCTGTTCCGAGCTTTTCTG
	Reverse	TCTCAATCTGAGGACGAATTGC
Rad50	Forward	CTTGGATATGCGAGGACGAT
	Reverse	CCAGAAGCTGGAAGTTACGC
Reg3g	Forward	TTCCTGTCCTCCATGATCAAAA
	Reverse	CATCCACCTCTGTTGGGTTCA
Tgfb	Forward	TGGAGCAACATGTGGAAGCTC
	Reverse	CAGCAGCCGGTTACCAAG

Supplementary Information Table 2 Antibodies (Gronke et al.)

Flow Cytometry

Target	Clone	Vendor	Cat number	Most recent Lot#
CD3e	145-2C11	eBioscience	13-0031-82	E02347-1633
CD5	53-7.3	eBioscience	13-0051-82	4319149
CD19	MB19-1	eBioscience	13-0191-85	E02440-1633
Gr-1	RB6-8C5	eBioscience	13-5931-82	4310389
F4/80	BM8	Biolegend	123106	B203671
CD64	X54-5/7.1	Biolegend	139318	B224829
CD45.2	104	eBioscience	47-0454-82	4302540
TCRb	H57-597	eBioscience	45-5961-80	E08409-1633
TCRgd	GL3	Biolegend	118123	B211410
CD4	RM4-5	eBioscience	48-0042-82	4313102
RORgt	B2D	eBioscience	17-6981-82	4291992
IL-22	1H8PWSR	eBioscience	12-7221-80	4299218
IL-17a	eBio17B7	eBioscience	11-7177-81	E08894-1632
EpCam	G8.8	eBioscience	17-5791-82	4298465
CD24	30-F1	eBioscience	12-0241-81	B180222
CD45	30-F11	eBioscience	25-0451-82	4302540
Cleaved Caspase 3	C92-605	BD Biosciences	560626	7179554
FoxP3	MF-14	Biolegend	126409	B239211
IL-10	JES5-16E3	eBiosciences	53-7101-82	4325142
Atm	2C1 (1A1)	Abcam	#ab78	GR3192658-10
anti-mouse-AI555	Polyclonal	Life Technologies	A21425	1635618

Histology

Target	Clone	Vendor	Cat number	Most recent Lot#
DAPI		Sigma-Aldrich	32670-5MG-F	075M4010V
EpCam	G8.8	eBioscience	17-5791-82	4298465
cleaved Caspase-3	5A1E	CST	#9664	18
gH2AX	20E3	CST	#9718	10
Il22ra1	496514	Thermo Fisher	MA5-24205	GR272657-7
anti-rabbit-AI555	Polyclonal	Life Technologies	A31572	1806147
anti-rabbit-APC	Polyclonal	Life Technologies	A10931	1351950
anti-rat-AI647	Polyclonal	Life Technologies	A21247	1939630

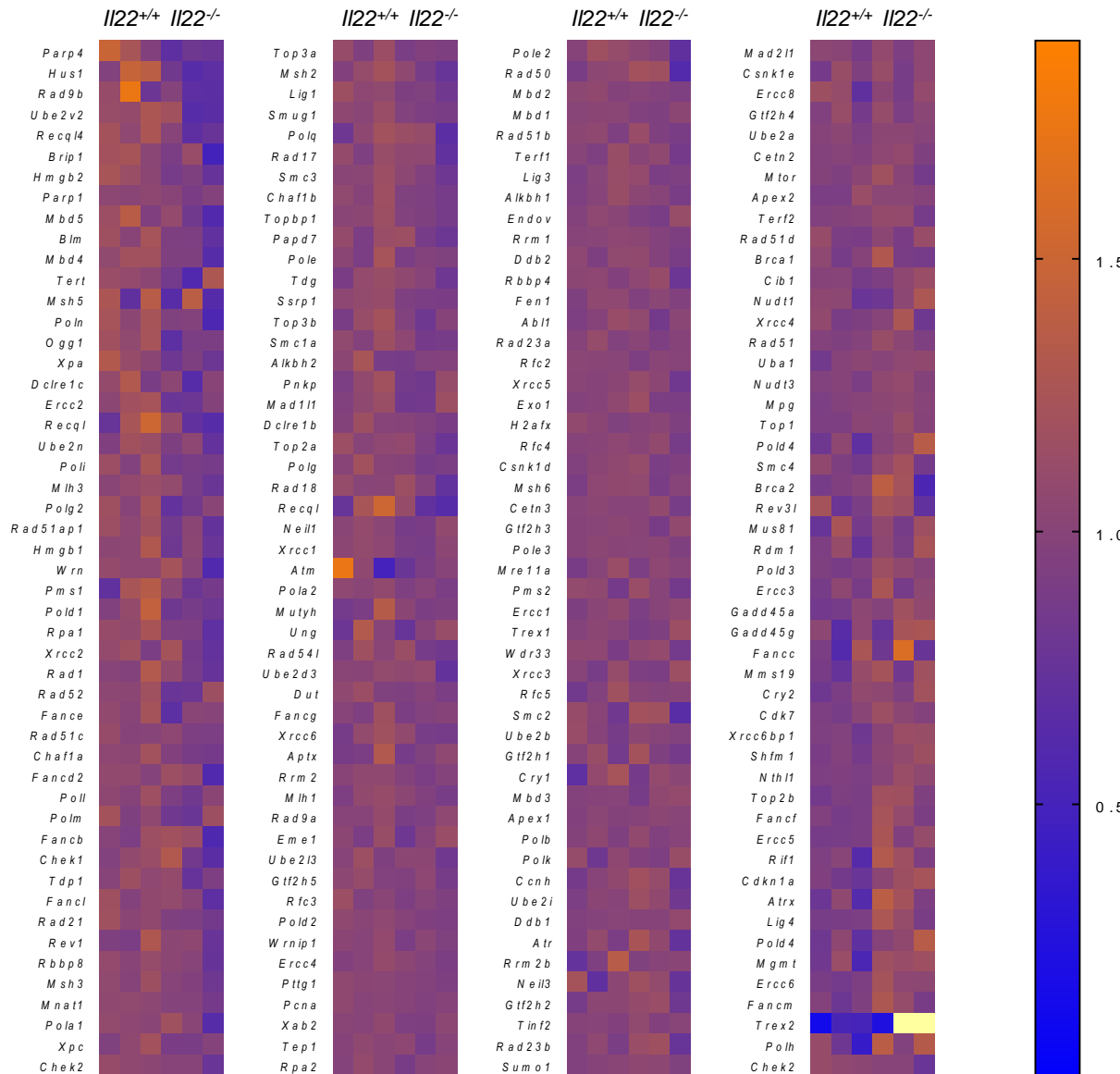
Western Blot

Target	Clone	Vendor	Cat number	Most recent Lot#
Puma	polyclonal	Abcam	ab9643	GR255116-3
p21	F5	Santa Cruz Biotechnology	sc-6246	F2612
Beta-Actin	AC-15	Sigma-Aldrich	A5441-100UL	
Atm	D2E2	CST	2873S	3
H2AX	D17A3	CST	7631P	4
p-p53	D4S1H	CST	12571S	3
p-SMC	D7S8Y	CST	58052S	1
SMC	8E6	CST	6892S	1
anti-rabbit-HRP		Jackson ImmunoResearch	111-035-144	49411
anit-mouse-HRP		Jackson ImmunoResearch	115-035-003	130129

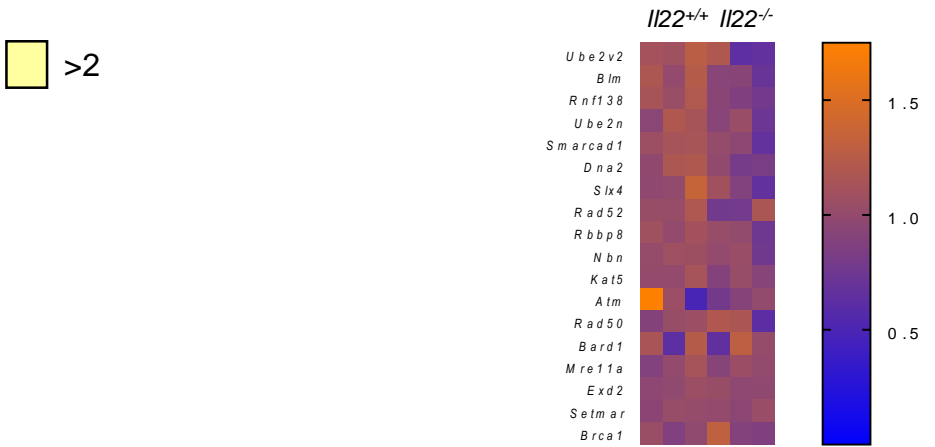
ChIP

Target	Clone	Vendor	Cat number
STAT3	C-20	Santa Cruz Biotechnology	sc-482 X

Kauffmann_DNA_Repair_Genes

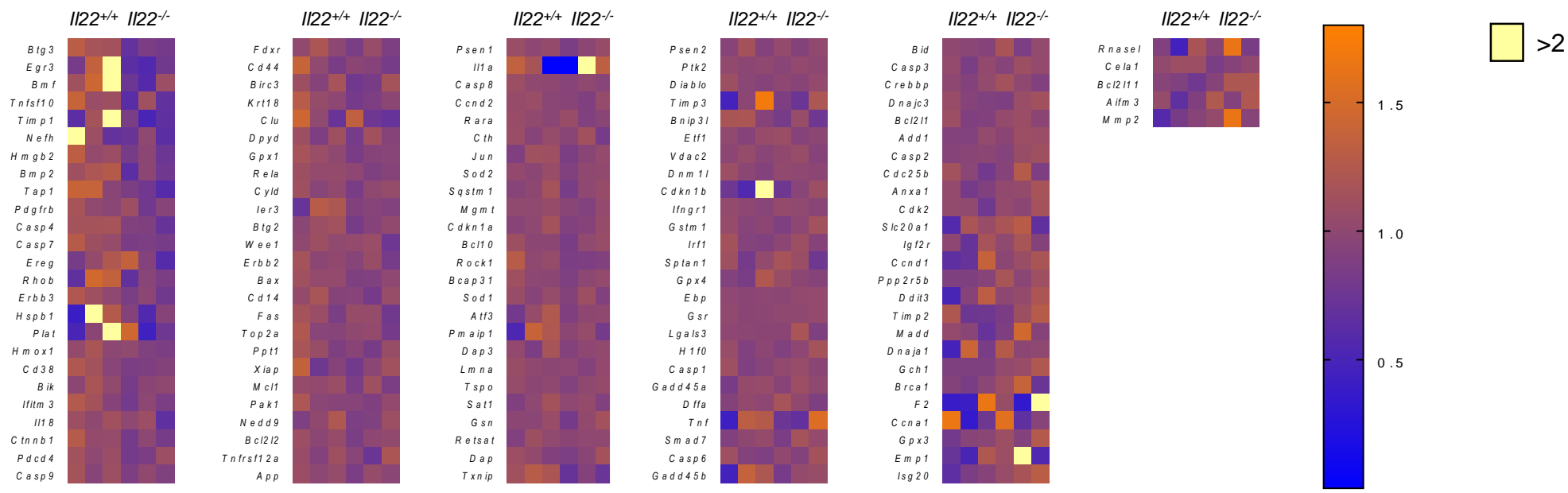


GO_DNA_Double Strand_Break_Processing



Supplementary Information Table 3: **Gene list of GSEA genesets**
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Hallmark_Apoptosis



DDR_Effector_Genes

