

**Supplementary Table 4. Genes responding to radiation only in radiation sensitive fibroblasts**

Gene ontology group	Sequence Name	Accession #	Fold Change	Sequence Description
<i>Programmed cell death</i>				
	PDCD5	NM_004708	+1.24	Homo sapiens programmed cell death 5 (PDCD5), mRNA
	TRIM35	NM_015066	+1.32	Homo sapiens tripartite motif-containing 35 (TRIM35), transcript variant 1, mRNA
	NFKBIE	NM_004556	+1.37	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor (NFKBIE)
<i>Regulation of cell cycle</i>				
	L47232	L47232	+1.74	Homo sapiens cyclin-dependent kinase (CIP1/WAF1) mRNA, with a mutation (Ser 31 to Arg)
	FGF2	NM_002006	+1.25	Homo sapiens fibroblast growth factor 2 (basic) (FGF2), mRNA
	APC2	NM_005883	+1.34	Homo sapiens adenomatosis polyposis coli 2 (APC2), mRNA
	SNF1LK	NM_173354	+1.29	Homo sapiens SNF1-like kinase (SNF1LK), mRNA
	BC016658	BC016658	+1.78	Homo sapiens E2F transcription factor 7, mRNA (cDNA clone IMAGE:3923850), partial cds
	FGF7	NM_002009	-1.22	Homo sapiens fibroblast growth factor 7 (keratinocyte growth factor) (FGF7), mRNA
	IFITM1	NM_003641	-1.17	Homo sapiens interferon induced transmembrane protein 1 (9-27) (IFITM1), mRNA
<i>Regulation of cell proliferation and growth</i>				
	PARD6G	NM_032510	+1.31	Homo sapiens par-6 partitioning defective 6 homolog gamma (C. elegans) (PARD6G), mRNA
	WISP2	NM_003881	-1.13	Homo sapiens WNT1 inducible signaling pathway protein 2 (WISP2), mRNA
<i>Defense response</i>				
	L24123	L24123	+1.22	Homo sapiens NRF1 protein (NRF1) mRNA
	COPEB	NM_001300	-1.21	Homo sapiens core promoter element binding protein (COPEB), mRNA
<i>Intracellular signaling cascade</i>				
	RAP2B	NM_002886	+1.50	Homo sapiens RAP2B, member of RAS oncogene family (RAP2B), mRNA
	RRAD	NM_004165	+2.10	Homo sapiens Ras-related associated with diabetes (RRAD), mRNA
	BC011645	BC011645	+2.07	Homo sapiens Ras-related associated with diabetes, mRNA, complete cds
	GALR3	NM_003614	+1.29	Homo sapiens galanin receptor 3 (GALR3), mRNA
	STMN1	NM_005563	+1.10	Homo sapiens stathmin 1/oncoprotein 18 (STMN1), transcript variant 3, mRNA
	PDAP1	NM_014891	-1.23	Homo sapiens PDGFA associated protein 1 (PDAP1), mRNA
<i>Cell surface receptor linked signal transduction</i>				
	GPR150	NM_199243	+1.34	Homo sapiens G protein-coupled receptor 150 (GPR150), mRNA
	GPR14	NM_018949	+1.29	Homo sapiens G protein-coupled receptor 14 (GPR14), mRNA
	WNT6	NM_006522	+1.38	Homo sapiens wingless-type MMTV integration site family, member 6 (WNT6), mRNA
	GPR54	NM_032551	+1.33	Homo sapiens G protein-coupled receptor 54 (GPR54), mRNA [NM_032551]

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AL359934	AL359934	-1.53	Homo sapiens mRNA full length insert cDNA clone EUROIMAGE 364773
<i>Protein metabolism</i>			
MLL3	NM_170606	+1.28	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia 3 (MLL3), mRNA
NM_014445	NM_014445	+1.19	Homo sapiens stress-associated endoplasmic reticulum protein 1 (SERP1), mRNA
HIST1H4C	NM_003542	+1.22	Homo sapiens histone 1, H4c (HIST1H4C), mRNA
BC063316	BC063316	+1.33	Homo sapiens F-box only protein 13, mRNA, with apparent retained intron
UBQLN1	NM_013438	+1.14	Homo sapiens ubiquilin 1 (UBQLN1), transcript variant 1, mRNA
NM_152470	NM_152470	+1.40	Homo sapiens chromosome 18 open reading frame 23 (C18orf23), mRNA
RNF10	NM_014868	-1.13	Homo sapiens ring finger protein 10 (RNF10), mRNA
AF070529	AF070529	-1.16	Homo sapiens clone 24525 mRNA sequence
<i>Nucleotide, nucleic acid metabolism</i>			
ZNF206	NM_032805	+1.37	Homo sapiens zinc finger protein 206 (ZNF206), mRNA
KLF16	NM_031918	+1.33	Homo sapiens Kruppel-like factor 16 (KLF16), mRNA
RAVER1	NM_133452	+1.38	Homo sapiens RAVER1 (RAVER1), mRNA [NM_133452]
SOX17	NM_022454	+1.34	Homo sapiens SRY (sex determining region Y)-box 17 (SOX17), mRNA
RRM2B	NM_015713	+1.29	Homo sapiens ribonucleotide reductase M2 B (TP53 inducible) (RRM2B), mRNA
NM_006831	NM_006831	+1.22	Homo sapiens ATP/GTP-binding protein (HEAB), mRNA
NPAS3	NM_022123	+1.35	Homo sapiens neuronal PAS domain protein 3 (NPAS3), mRNA
IRX4	NM_016358	+1.29	Homo sapiens iroquois homeobox protein 4 (IRX4), mRNA
HOXA3	NM_153631	+1.36	Homo sapiens homeo box A3 (HOXA3), transcript variant 2, mRNA
FOXE1	X94553	+1.34	H.sapiens HFKH4 mRNA for fork head like protein. [X94553]
SCRT2	NM_033129	+1.35	Homo sapiens scratch homolog 2, zinc finger protein (Drosophila) (SCRT2), mRNA
FOXB1	NM_012182	+1.32	Homo sapiens forkhead box B1 (FOXB1), mRNA
NFYB	NM_006166	+1.15	Homo sapiens nuclear transcription factor Y, beta (NFYB), mRNA
ZNF205	NM_003456	+1.30	Homo sapiens zinc finger protein 205 (ZNF205), mRNA
ZFPM1	NM_153813	+1.32	Homo sapiens zinc finger protein, multitype 1 (ZFPM1), mRNA
CASKIN1	NM_020764	+1.25	Homo sapiens CASK interacting protein 1 (CASKIN1), mRNA
DUX4	NM_033178	+1.38	Homo sapiens double homeobox, 4 (DUX4), mRNA
AY260738	AY260738	-1.16	Homo sapiens truncated zinc finger protein 36 mRNA, complete cds
REPIN1	NM_014374	-1.24	Homo sapiens replication initiator 1 (REPIN1), mRNA
BC023667	BC023667	-1.79	Homo sapiens iroquois homeobox protein 3, mRNA, complete cds
<i>Cell-cell adhesion</i>			
CDH24	NM_144985	+1.33	Homo sapiens cadherin-like 24 (CDH24), mRNA
<i>Generation of precursor metabolites and energy</i>			
D16373	D16373	-1.65	Homo sapiens alpha-KG-E2 mRNA for mitochondrial dihydrolipoamide succinyltransferase
P4HB	NM_000918	-1.12	Homo sapiens procollagen-proline, 2-oxoglutarate 4-dioxygenase, beta polypeptide, mRNA

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<i>Cell communication</i>				
	GRIN2D	NM_000836	+1.32	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA
	LU	NM_005581	+1.16	Homo sapiens Lutheran blood group (Auberger b antigen included) (LU), mRNA
	AB040881	AB040881	-1.26	Homo sapiens mRNA for KIAA1448 protein, partial cds
	M24790	M24790	-1.33	Homo sapiens tyrosine hydroxylase (TH) alternatively spliced isoform mRNA, 5' end
	NM_024042	NM_024042	-1.39	Homo sapiens chromosome 16 open reading frame 23 (C16orf23), mRNA
<i>Transport</i>				
	HCN2	NM_001194	+1.32	Homo sapiens hyperpolarization activated cyclic nucleotide-gated potassium channel 2, mRNA
	HCN4	NM_005477	+1.31	Homo sapiens hyperpolarization activated cyclic nucleotide-gated potassium channel 4, mRNA
	SLC39A7	NM_006979	-1.33	Homo sapiens solute carrier family 39 (zinc transporter), member 7 (SLC39A7), mRNA
	NM_006815	NM_006815	-1.20	Homo sapiens coated vesicle membrane protein (RNP24), mRNA
	FTL	NM_000146	-1.11	Homo sapiens ferritin, light polypeptide (FTL), mRNA
	COL3A1	NM_000090	-1.28	Homo sapiens collagen, type III, alpha 1 (Ehlers-Danlos syndrome type IV, autosomal dominant), mRNA
<i>Cellular biosynthesis</i>				
	BC033110	BC033110	+1.30	Homo sapiens, clone IMAGE:5443970, mRNA, partial cds
	ASNS	NM_001673	-1.44	Homo sapiens asparagine synthetase (ASNS), transcript variant 2, mRNA [NM_001673]
	NM_018129	NM_018129	-1.14	Homo sapiens pyridoxine-5'-phosphate oxidase (PNPO), mRNA
<i>Not-annotated</i>				
	ENST0000033360	ENST0000033360	+9.47	Unknown
	5	5		
	BC030005	BC030005	+7.26	Homo sapiens hypothetical protein FLJ22344, mRNA, complete cds
	AK092271	AK092271	+1.47	Homo sapiens cDNA FLJ34952 fis, clone NTONG2000531
	AF357221	AF357221	+1.45	Homo sapiens FKSG88 mRNA, complete cds
	A_32_P170368	A_32_P170368	+1.44	Unknown
	THC1835187	THC1835187	+1.44	Unknown
	A_24_P780709	A_24_P780709	+1.43	Unknown
	C12orf5	NM_020375	+1.43	Homo sapiens chromosome 12 open reading frame 5 (C12orf5), mRNA
	AK093171	AK093171	+1.42	Homo sapiens cDNA FLJ35852 fis, clone TESTI2007074
	A_32_P234913	A_32_P234913	+1.42	Unknown
	BC069026	BC069026	+1.40	Homo sapiens cDNA clone IMAGE:6267944, partial cds
	A_24_P7785	A_24_P7785	+1.39	Unknown
	A_32_P15887	A_32_P15887	+1.39	Unknown
	A_24_P533990	A_24_P533990	+1.39	Unknown
	A_32_P33294	A_32_P33294	+1.38	Unknown
	A_24_P230195	A_24_P230195	+1.37	Unknown
	A_32_P132422	A_32_P132422	+1.36	Unknown
	BMP8A	NM_181809	+1.36	Homo sapiens bone morphogenetic protein 8a (BMP8A), mRNA
	CMIP	NM_198390	+1.36	Homo sapiens c-Maf-inducing protein (CMIP), transcript variant C-mip, mRNA [NM_198390]
	NM_207476	NM_207476	+1.35	Homo sapiens hypothetical protein DKFZp547B139 (DKFZp547B139), mRNA [NM_207476]

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	NM_207401	NM_207401	+1.35	Homo sapiens FLJ45717 protein (FLJ45717), mRNA
	ENST00000322959	ENST00000322959	+1.34	Unknown
	XM_371077	XM_371077	+1.34	Homo sapiens similar to PP905 (LOC388413), mRNA [XM_371077]
	A_24_P42107	A_24_P42107	+1.33	Unknown
	A_24_P780393	A_24_P780393	+1.33	Unknown
	BC037281	BC037281	+1.33	Homo sapiens USP6 N-terminal like, mRNA (cDNA clone IMAGE:4838780), complete cds
	A_32_P86180	A_32_P86180	+1.32	Unknown
	A_32_P61074	A_32_P61074	+1.32	Unknown
	KIAA1856	XM_379774	+1.32	Homo sapiens KIAA1856 protein (KIAA1856), mRNA [XM_379774]
	XM_376925	XM_376925	+1.32	Homo sapiens similar to DNL zinc finger (3D41) (LOC401560), mRNA [XM_376925]
	BC028232	BC028232	+1.32	Homo sapiens, clone IMAGE:5221276, mRNA, partial cds
	ENST00000333066	ENST00000333066	+1.32	Unknown
	AK023798	AK023798	+1.31	Homo sapiens cDNA FLJ13736 fis, clone PLACE3000156
	NM_024676	NM_024676	+1.31	Homo sapiens hypothetical protein FLJ22938 (FLJ22938), mRNA
	LRRN4	NM_002319	+1.31	Homo sapiens leucine rich repeat neuronal 4 (LRRN4), mRNA
	KIAA1545	AF490258	+1.31	Homo sapiens XTP9 (XTP9) mRNA, complete cds. [AF490258]
	AK057884	AK057884	+1.31	Homo sapiens cDNA FLJ25155 fis, clone CBR07976
	ENST00000334692	ENST00000334692	+1.31	double homeobox, 2. [Source:RefSeq;Acc:NM_012147]
	THC1915463	THC1915463	+1.31	Unknown
	A_32_P85711	A_32_P85711	+1.31	Unknown
	A_32_P112100	A_32_P112100	+1.31	Unknown
	NM_025153	NM_025153	+1.30	Homo sapiens hypothetical protein FLJ21477 (FLJ21477), mRNA
	AK056484	AK056484	+1.29	Homo sapiens cDNA FLJ31922 fis, clone NT2RP7005219
	BM913108	BM913108	+1.29	Unknown
	A_24_P153002	A_24_P153002	+1.29	Unknown
	THC1889249	THC1889249	+1.28	Unknown
	A_24_P752279	A_24_P752279	+1.28	Unknown
	KLK3	NM_145864	+1.28	Homo sapiens kallikrein 3, (prostate specific antigen) (KLK3), transcript variant 2, mRNA
	THC1960030	THC1960030	+1.28	Unknown
	A_24_P878992	A_24_P878992	+1.27	Unknown
	ACBD4	NM_024722	+1.27	Homo sapiens acyl-Coenzyme A binding domain containing 4 (ACBD4), mRNA
	AK024229	AK024229	+1.27	Homo sapiens cDNA FLJ14167 fis, clone NT2RP2001214
	A_32_P41996	A_32_P41996	+1.26	Unknown
	A_32_P71864	A_32_P71864	+1.26	Unknown
	THC2004713	THC2004713	+1.26	Unknown
	NM_174909	NM_174909	+1.26	Homo sapiens hypothetical protein MGC23909 (MGC23909), mRNA
	C20orf98	NM_024958	+1.25	Homo sapiens chromosome 20 open reading frame 98 (C20orf98), mRNA
	NM_173617	NM_173617	+1.25	Homo sapiens hypothetical protein FLJ36701 (FLJ36701), mRNA
	A_32_P105865	A_32_P105865	+1.25	Unknown
	ID3	NM_002167	+1.23	Homo sapiens inhibitor of DNA binding 3, dominant negative helix-loop-helix protein (ID3), mRNA
	NM_178352	NM_178352	+1.23	Homo sapiens late envelope protein 4 (LEP4), mRNA
	NM_031945	NM_031945	+1.22	Homo sapiens oculospantin (OCSP), mRNA
	A_24_P196175	A_24_P196175	+1.21	Unknown
	BC032663	BC032663	+1.20	Homo sapiens phorbol-12-myristate-13-acetate-induced protein 1, mRNA, complete cds
	ENST00000308739	ENST00000308739	+1.20	Unknown
	KDELC1	NM_024089	+1.20	Homo sapiens KDEL (Lys-Asp-Glu-Leu) containing 1 (KDELC1), mRNA

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	BC069216	BC069216	+1.13	Homo sapiens cDNA clone MGC:78739 IMAGE:6376829, complete cds
	C9orf19	NM_022343	+1.09	Homo sapiens chromosome 9 open reading frame 19 (C9orf19), mRNA
	AJ277841	AJ277841	-4.26	Homo sapiens mRNA for ELG protein
	NM_007268	NM_007268	-2.42	Homo sapiens Ig superfamily protein (Z39IG), mRNA
	AF001540	AF001540	-2.21	Homo sapiens clone alpha1 mRNA sequence
	A_32_P164325	A_32_P164325	-1.83	Unknown
	AK093253	AK093253	-1.71	Homo sapiens cDNA FLJ35934 fis, clone TESTI2011315
	AL136890	AL136890	-1.65	Homo sapiens mRNA; cDNA DKFZp434D177 (from clone DKFZp434D177); complete cds
	ENST00000281815	ENST00000281815	-1.63	Unknown
	ENST00000315566	ENST00000315566	-1.61	Unknown
	AL833882	AL833882	-1.59	Homo sapiens mRNA; cDNA DKFZp434O0527 (from clone DKFZp434O0527)
	BC018448	BC018448	-1.58	Homo sapiens metastasis associated in lung adenocarcinoma transcript 1, mRNA, partial cds
	AB033071	AB033071	-1.54	Homo sapiens mRNA for KIAA1245 protein, partial cds
	AK075231	AK075231	-1.53	Homo sapiens cDNA FLJ90750 fis, weakly similar to WISKOTT-ALDRICH SYNDROME PROTEIN
	BRD3	NM_007371	-1.42	Homo sapiens bromodomain containing 3 (BRD3), mRNA
	A_24_P16291	A_24_P16291	-1.42	Unknown
	A_24_P92823	A_24_P92823	-1.39	Unknown
	A_32_P18147	A_32_P18147	-1.32	Unknown
	NM_153266	NM_153266	-1.30	Homo sapiens hypothetical protein MGC33486 (MGC33486), mRNA
	C10orf10	NM_007021	-1.29	Homo sapiens chromosome 10 open reading frame 10 (C10orf10), mRNA
	A_24_P93462	A_24_P93462	-1.24	Unknown
	NM_025008	NM_025008	-1.20	Homo sapiens hypothetical protein FLJ13544 (FLJ13544), mRNA
	MFAP4	NM_002404	-1.20	Homo sapiens microfibrillar-associated protein 4 (MFAP4), mRNA
	FBLN2	NM_001998	-1.18	Homo sapiens fibulin 2 (FBLN2), mRNA
	TMSB4X	NM_021109	-1.18	Homo sapiens thymosin, beta 4, X-linked (TMSB4X), mRNA
	AK000038	AK000038	-1.17	Homo sapiens cDNA FLJ20031 fis, clone ADSU02180
	NM_033317	NM_033317	-1.17	Homo sapiens hypothetical gene ZD52F10 (ZD52F10), mRNA
	INE1	NM_003669	-1.17	Homo sapiens inactivation escape 1 (INE1), mRNA
	THC1900445	THC1900445	-1.17	Unknown
	A_23_P78975	A_23_P78975	-1.17	Unknown
	NM_032391	NM_032391	-1.16	Homo sapiens small nuclear protein PRAC (PRAC), mRNA
	NNMT	NM_006169	-1.14	Homo sapiens nicotinamide N-methyltransferase (NNMT), mRNA
	A_24_P409560	A_24_P409560	-1.12	Unknown
	XM_377558	XM_377558	-1.11	Homo sapiens similar to elongation factor 1 delta (LOC401937), mRNA