

Supplementary Table 3. Genes responding to radiation only in normal fibroblasts

Gene ontology group	Sequence Name	Accession #	Fold Change	Sequence Description
<i>Response to DNA damage</i>				
	MLH1	NM_000249	+1.20	Homo sapiens mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli) (MLH1), mRNA
	SESN1	NM_014454	+1.54	Homo sapiens sestrin 1 (SESN1), mRNA
<i>Programmed cell death</i>				
	TNFRSF10B	NM_003842	+1.28	Homo sapiens tumor necrosis factor receptor superfamily, member 10b (TNFRSF10B), transcript variant 1, mRNA
	NFKBIA	NM_020529	+1.23	Homo sapiens nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha (NFKBIA), mRNA
	TNFRSF12A	NM_016639	-1.20	Homo sapiens tumor necrosis factor receptor superfamily, member 12A (TNFRSF12A), mRNA
	NRG2	NM_013984	-8.04	Homo sapiens neuregulin 2 (NRG2), transcript variant 5, mRNA
<i>Regulation of cell cycle</i>				
	CCND1	NM_053056	+1.16	Homo sapiens cyclin D1 (PRAD1: parathyroid adenomatosis 1) (CCND1), mRNA
	HDAC5	NM_139205	+1.19	Homo sapiens histone deacetylase 5 (HDAC5), transcript variant 2, mRNA
	NM_014059	NM_014059	+1.15	Homo sapiens response gene to complement 32 (RGC32), mRNA
	KNTC1	NM_014708	-1.48	Homo sapiens kinetochore associated 1 (KNTC1), mRNA
	MYC	NM_002467	-1.23	Homo sapiens v-myc myelocytomatosis viral oncogene homolog (avian) (MYC), mRNA
	SEPT6	NM_145802	-1.60	Homo sapiens septin 6 (SEPT6), transcript variant V, mRNA
<i>Regulation of cell proliferation and growth</i>				
	TOB1	NM_005749	+1.32	Homo sapiens transducer of ERBB2, 1 (TOB1), mRNA
	NM_015934	NM_015934	+1.20	Homo sapiens nucleolar protein NOP5/NOP58 (NOP5/NOP58), mRNA
	AF280547	AF280547	-6.59	Homo sapiens neuropilin-1 soluble isoform 11 (NRP1) mRNA, complete cds, alternatively spliced
	Z97068	Z97068	-1.57	Homo sapiens mRNA for alternative spliced Cyr61 protein, partial
<i>Defense response</i>				
	IL12A	NM_000882	-2.59	Homo sapiens interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1) (IL12A)
	PFC	NM_002621	-2.56	Homo sapiens properdin P factor, complement (PFC), mRNA
<i>Intracellular signaling cascade</i>				
	BDKRB1	NM_000710	+1.26	Homo sapiens bradykinin receptor B1 (BDKRB1), mRNA
	JAK3	NM_000215	+1.23	Unknown
	BC022483	BC022483	-5.98	Homo sapiens PTPL1-associated RhoGAP 1, mRNA (cDNA clone IMAGE:4795792), complete cds
	ARAF1	NM_001654	-2.30	Homo sapiens v-raf murine sarcoma 3611 viral oncogene homolog 1 (ARAF1), mRNA
	SDCBP2	NM_080489	-5.84	Homo sapiens syndecan binding protein (syntenin) 2 (SDCBP2), transcript variant 1, mRNA
<i>Cell surface receptor linked signal transduction</i>				
	ADAM10	NM_001110	+1.25	Homo sapiens a disintegrin and metalloproteinase domain 10 (ADAM10), mRNA
	MPZL1	NM_003953	+1.22	Homo sapiens myelin protein zero-like 1 (MPZL1), transcript variant 1, mRNA
	WNT10A	NM_025216	-1.81	Homo sapiens wingless-type MMTV integration site family, member 10A (WNT10A), mRNA

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	NPY5R	NM_006174	-2.59	Homo sapiens neuropeptide Y receptor Y5 (NPY5R), mRNA
	BC030115	BC030115	-2.59	Homo sapiens, clone IMAGE:4801326, mRNA
	CXCL1	NM_001511	-1.49	Homo sapiens chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha) (CXCL1), mRNA
<i>Protein metabolism</i>				
	LAMC1	NM_002293	+1.12	Homo sapiens laminin, gamma 1 (formerly LAMB2) (LAMC1), mRNA
	TRIM32	NM_012210	+1.19	Homo sapiens tripartite motif-containing 32 (TRIM32), mRNA
	AB046821	AB046821	+1.19	Homo sapiens mRNA for KIAA1601 protein, partial cds
	PMPCA	NM_015160	+1.18	Homo sapiens peptidase (mitochondrial processing) alpha (PMPCA), mRNA
	PTPN1	NM_002827	+1.35	Homo sapiens protein tyrosine phosphatase, non-receptor type 1 (PTPN1), mRNA
	AL080111	AL080111	-1.22	Homo sapiens mRNA; cDNA DKFZp586G2222 (from clone DKFZp586G2222)
	UBE2L6	NM_004223	-1.23	Homo sapiens ubiquitin-conjugating enzyme E2L 6 (UBE2L6), transcript variant 1, mRNA
	C14orf20	NM_174944	-2.75	Homo sapiens chromosome 14 open reading frame 20 (C14orf20), mRNA
	DMPK	NM_004409	-1.22	Unknown
	MAST1	NM_014975	-1.69	Homo sapiens syntrophin associated serine/threonine kinase (SAST), mRNA [NM_014975]
	MMP14	NM_004995	-1.42	Homo sapiens matrix metalloproteinase 14 (membrane-inserted) (MMP14), mRNA
<i>Nucleotide, nucleic acid metabolism</i>				
	HELIC1	NM_006828	+1.21	Homo sapiens helicase, ATP binding 1 (HELIC1), mRNA
	AMPD3	NM_000480	+1.17	Homo sapiens adenosine monophosphate deaminase (isoform E) (AMPD3), mRNA
	NM_018161	NM_018161	+1.29	Homo sapiens NAD synthetase 1 (NADSYN1), mRNA
	RNH	NM_002939	+1.13	Homo sapiens ribonuclease/angiogenin inhibitor (RNH), transcript variant 1, mRNA
	DNAJC14	NM_032364	-1.43	Homo sapiens DnaJ (Hsp40) homolog, subfamily C, member 14 (DNAJC14), mRNA
	NT5C1B	NM_033253	-5.47	Homo sapiens 5'-nucleotidase, cytosolic IB (NT5C1B), mRNA
	ATOH1	NM_005172	-7.87	Homo sapiens atonal homolog 1 (Drosophila) (ATOH1), mRNA
	MAGOH	NM_002370	-1.20	Homo sapiens mago-nashi homolog, proliferation-associated (Drosophila) (MAGOH), mRNA
	ZNF358	NM_018083	-1.68	Homo sapiens zinc finger protein 358 (ZNF358), mRNA
	ZNF288	NM_015642	-1.22	Homo sapiens zinc finger protein 288 (ZNF288), mRNA
	STAT5B	NM_012448	-2.47	Homo sapiens signal transducer and activator of transcription 5B (STAT5B), mRNA
	AK091308	AK091308	-3.59	Homo sapiens cDNA FLJ33989 fis, clone DFNES2006944
<i>Regulation of transcription</i>				
	HES1	NM_005524	+1.45	Homo sapiens hairy and enhancer of split 1, (Drosophila) (HES1), mRNA
	ID1	NM_002165	+1.24	Homo sapiens inhibitor of DNA binding 1, dominant negative helix-loop-helix protein, transcript variant 1, mRNA
	NR4A1	NM_002135	+1.34	Homo sapiens nuclear receptor subfamily 4, group A, member 1 (NR4A1), transcript variant 1, mRNA
	PHF2	NM_005392	+1.16	Homo sapiens PHD finger protein 2 (PHF2), transcript variant 1, mRNA
	C20orf100	NM_032883	+1.18	Homo sapiens chromosome 20 open reading frame 100 (C20orf100), mRNA
	ZNF436	NM_030634	+1.28	Homo sapiens zinc finger protein 436 (ZNF436), mRNA
<i>Generation of precursor metabolites and energy</i>				
	D87742	D87742	-1.77	Human mRNA for KIAA0268 gene, partial cds

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<i>Cell communication</i>				
	AK025245	AK025245	+1.34	Homo sapiens cDNA: FLJ21592 fis, clone COL07036
	AK097197	AK097197	+1.29	Homo sapiens cDNA FLJ39878 fis, clone SPLEN2016045, moderately similar to Homo sapiens mRNA for Hrs
	PRKAB2	NM_005399	+1.19	Homo sapiens protein kinase, AMP-activated, beta 2 non-catalytic subunit (PRKAB2), mRNA
	FST	NM_013409	+1.20	Homo sapiens follistatin (FST), transcript variant FST344, mRNA
	COL6A2	NM_058175	+1.19	Homo sapiens collagen, type VI, alpha 2 (COL6A2), transcript variant 2C2a', mRNA
	C20orf32	NM_020356	-2.70	Homo sapiens chromosome 20 open reading frame 32 (C20orf32), mRNA
<i>Transport</i>				
	PEX26	NM_017929	+1.18	Homo sapiens peroxisome biogenesis factor 26 (PEX26), mRNA
	TAP1	NM_000593	+1.23	Homo sapiens transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) (TAP1), mRNA
	AF130091	AF130091	+1.27	Homo sapiens clone FLB9630 PRO2603 mRNA, complete cds
	AK057878	AK057878	-1.54	Homo sapiens cDNA FLJ25149 fis, highly similar to PROACTIVATOR POLYPEPTIDE PRECURSOR
	TRPM2	NM_003307	-3.02	Homo sapiens transient receptor potential cation channel, subfamily M, member 2 (TRPM2), mRNA
	BC038963	BC038963	-1.69	Homo sapiens, Similar to intersectin 2, clone IMAGE:6055200, mRNA, partial cds
	NM_024681	NM_024681	-1.59	Homo sapiens hypothetical protein FLJ12242 (FLJ12242), mRNA
	D87074	D87074	-4.65	Homo sapiens mRNA for KIAA0237 gene, partial cds
	FXYP1	NM_005031	-2.73	Homo sapiens FXYP domain containing ion transport regulator 1 (phospholemman) (FXYP1), transcript variant
<i>Organelle organization and biogenesis</i>				
	PLEC1	NM_201382	-2.75	Homo sapiens plectin 1, intermediate filament binding protein 500kDa (PLEC1), transcript variant 8, mRNA
<i>Gametogenesis</i>				
	SPAG11	NM_058203	+4.72	Homo sapiens sperm associated antigen 11 (SPAG11), transcript variant C, mRNA
	SPAG11	NM_016512	-2.75	Homo sapiens sperm associated antigen 11 (SPAG11), transcript variant A, mRNA
	CRISP1	NM_001131	-5.15	Homo sapiens cysteine-rich secretory protein 1 (CRISP1), transcript variant 1, mRNA
<i>Not-annotated</i>				
	A_24_P927205	A_24_P927205	+1.41	Unknown
	BC008580	BC008580	+1.44	Homo sapiens, clone IMAGE:4179986, mRNA, partial cds
	THC1878189	THC1878189	+1.43	Unknown
	NM_144717	NM_144717	+1.22	Homo sapiens hypothetical protein MGC34923 (MGC34923), mRNA
	AKAP2	NM_147150	+1.52	Homo sapiens A kinase (PRKA) anchor protein 2 (AKAP2), transcript variant 2, mRNA
	AK092260	AK092260	+1.26	Homo sapiens cDNA FLJ34941 fis, clone NT2RP7007480
	NM_033201	NM_033201	+1.25	Homo sapiens hypothetical gene BC008967 (BC008967), mRNA
	A_23_P348587	A_23_P348587	+1.24	Unknown
	AF144054	AF144054	+1.37	Homo sapiens apoptosis related protein APR-4 mRNA, partial cds
	AK130360	AK130360	+1.36	Homo sapiens cDNA FLJ26850 fis, clone PRS07964
	NM_022767	NM_022767	+1.48	Homo sapiens hypothetical protein FLJ12484 (FLJ12484), mRNA
	FHL2	NM_001450	+1.19	Homo sapiens four and a half LIM domains 2 (FHL2), transcript variant 1, mRNA
	NM_173826	NM_173826	+1.22	Homo sapiens hypothetical protein DKFZp313N0621 (DKFZp313N0621), mRNA
	NM_152793	NM_152793	+1.22	Homo sapiens hypothetical protein Ells1 (Ells1), mRNA
	A_24_P544269	A_24_P544269	+1.28	Unknown
	CRIM1	NM_016441	+1.19	Homo sapiens cysteine-rich motor neuron 1 (CRIM1), mRNA

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Sequence Name	Accession #	Fold Change	Sequence Description	
THC1953237	THC1953237	+1.24	Unknown	
NM_032262	NM_032262	+1.22	Homo sapiens hypothetical protein DKFZp434N035 (DKFZp434N035), mRNA	
THC1858516	THC1858516	+1.40	Unknown	
AK092875	AK092875	+1.30	Homo sapiens cDNA FLJ35556 fis, clone SPLEN2004844	
PPFIA1	NM_003626	+1.36	Homo sapiens protein tyrosine phosphatase, receptor type, f polypeptide, interacting protein (liprin), alpha 1,	
AF086329	AF086329	+1.53	Homo sapiens full length insert cDNA clone ZD54C08	
NR_001543	NR_001543	+1.28	Homo sapiens testis-specific transcript, Y-linked 14 (TTY14) on chromosome Y	
A_32_P153469	A_32_P153469	+1.32	Unknown	
THC1924664	THC1924664	+1.22	Unknown	
THC1958245	THC1958245	+1.41	Unknown	
NM_013299	NM_013299	+1.24	Homo sapiens protein predicted by clone 23627 (HSU79266), mRNA	
A_24_P911766	A_24_P911766	+1.28	Unknown	
THC1953000	THC1953000	+1.23	Unknown	
BC000772	BC000772	+1.46	Homo sapiens cDNA clone IMAGE:3506689, partial cds	
PDLIM2	NM_176871	+1.26	Homo sapiens PDZ and LIM domain 2 (mystique) (PDLIM2), transcript variant 1, mRNA	
BC007572	BC007572	+1.16	Homo sapiens, clone IMAGE:3030210, mRNA, partial cds	
SCHIP1	NM_014575	+1.18	Homo sapiens schwannomin interacting protein 1 (SCHIP1), mRNA	
AK022629	AK022629	+1.20	Homo sapiens cDNA FLJ12567 fis, clone NT2RM4000855	
BC045677	BC045677	+1.38	Homo sapiens, clone IMAGE:5299441, mRNA	
A_32_P85230	A_32_P85230	+1.37	Unknown	
THC1890924	THC1890924	+2.01	Unknown	
THC1848404	THC1848404	+2.01	Unknown	
PDGFA	NM_033023	+1.35	Homo sapiens platelet-derived growth factor alpha polypeptide (PDGFA), transcript variant 2, mRNA	
A_24_P187365	A_24_P187365	+1.32	Unknown	
WDR37	NM_014023	+1.22	Homo sapiens WD repeat domain 37 (WDR37), mRNA	
AK096736	AK096736	+1.39	Homo sapiens cDNA FLJ39417 fis, clone PLACE6016942	
THC1987886	THC1987886	+12.82	Unknown	
A_32_P52590	A_32_P52590	+1.32	Unknown	
C3orf10	NM_018462	-1.18	Homo sapiens chromosome 3 open reading frame 10 (C3orf10), mRNA	
A_24_P324214	A_24_P324214	-1.21	Unknown	
AK095791	AK095791	-1.25	Homo sapiens cDNA FLJ38472 fis, clone FEBRA2022148	
A_24_P22939	A_24_P22939	-1.86	Unknown	
A_32_P103464	A_32_P103464	-1.21	Unknown	
NM_024927	NM_024927	-1.19	Homo sapiens hypothetical protein FLJ21019 (FLJ21019), mRNA	
XM_290732	XM_290732	-1.25	Homo sapiens KIAA1917 protein (KIAA1917), mRNA	
A_24_P914088	A_24_P914088	-1.12	Unknown	
AK092490	AK092490	-1.43	Homo sapiens cDNA FLJ35171 fis, clone PLACE6013220, weakly similar to TRICHOHYALIN	
GLYAT	NM_005838	-1.92	Homo sapiens glycine-N-acyltransferase, nuclear gene encoding mitochondrial protein, transcript variant 2	
UNKL	NM_024023	-1.50	Homo sapiens unkempt-like (Drosophila) (UNKL), mRNA	
CST5	NM_001900	-1.18	Homo sapiens cystatin D (CST5), mRNA	
ENST00000333650	ENST00000333650	-1.22	Unknown	
BZRAP1	NM_004758	-1.43	Homo sapiens benzodiazapine receptor (peripheral) associated protein 1 (BZRAP1), mRNA	
A_24_P390974	A_24_P390974	-16.00	Unknown	
THC1959440	THC1959440	-2.18	Unknown	
THC1870288	THC1870288	-1.81	Unknown	
THC1859201	THC1859201	-2.57	Unknown	
BC033184	BC033184	-4.25	Homo sapiens cDNA clone MGC:45823 IMAGE:4589035, complete cds	
AI821235	AI821235	-5.17	Unknown	
NM_014181	NM_014181	-2.31	Homo sapiens HSPC159 protein (HSPC159), mRNA	
A_24_P32895	A_24_P32895	-1.28	Unknown	

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Sequence Name	Accession #	Fold Change	Sequence Description	
NM_174928	NM_174928	-1.47	Homo sapiens hypothetical protein LOC221143 (LOC221143), mRNA	
NM_198511	NM_198511	-6.17	Homo sapiens FLJ42925 protein (FLJ42925), mRNA	
THC1966876	THC1966876	-1.66	Unknown	
A_24_P67432	A_24_P67432	-1.29	Unknown	
AK022617	AK022617	-1.54	Homo sapiens cDNA FLJ12555 fis, clone NT2RM4000764	
PLAC8	NM_016619	-2.37	Homo sapiens placenta-specific 8 (PLAC8), mRNA	
THC1915182	THC1915182	-1.21	Unknown	
AL598801	AL598801	-5.53	Unknown	
A_32_P156746	A_32_P156746	-1.23	Unknown	
NM_014731	NM_014731	-3.06	Homo sapiens ProSAPiP1 protein (ProSAPiP1), mRNA	
A_24_P77826	A_24_P77826	-7.60	Unknown	
THC1827056	THC1827056	-2.12	Unknown	
AF035020	AF035020	-3.61	Homo sapiens clone B2E9D5H myosin-reactive immunoglobulin heavy chain variable region mRNA, partial cds	
NM_032374	NM_032374	-1.18	Homo sapiens hypothetical protein MGC2562 (MGC2562), mRNA	
NM_014389	NM_014389	-1.22	Homo sapiens proline-, glutamic acid-, leucine-rich protein 1 (PELP1), mRNA	
NM_015917	NM_015917	-1.23	Homo sapiens glutathione S-transferase kappa 1 (GSTK1), mRNA	
NM_173639	NM_173639	-4.30	Homo sapiens hypothetical protein FLJ35976 (FLJ35976), mRNA	
VPS54	NM_016516	-1.27	Homo sapiens vacuolar protein sorting 54 (yeast) (VPS54), mRNA	
CDC42EP1	NM_152243	-1.36	Homo sapiens CDC42 effector protein (Rho GTPase binding) 1 (CDC42EP1), transcript variant 1, mRNA	
A_24_P853302	A_24_P853302	-1.28	Unknown	
BC037430	BC037430	-1.41	Homo sapiens cDNA clone IMAGE:5531727, partial cds	
A_24_P84048	A_24_P84048	-1.19	Unknown	
C6orf209	NM_018368	-1.17	Homo sapiens chromosome 6 open reading frame 209 (C6orf209), mRNA	
A_32_P201976	A_32_P201976	-1.54	Unknown	
REPS1	NM_031922	-1.21	Homo sapiens RALBP1 associated Eps domain containing 1 (REPS1), mRNA	
A_24_P655735	A_24_P655735	-1.66	Unknown	
BC040702	BC040702	-1.18	Homo sapiens, clone IMAGE:5736845, mRNA	
A_32_P72541	A_32_P72541	-1.20	Unknown	
THC1975881	THC1975881	-2.96	Unknown	
MRPS31	NM_005830	-1.24	Homo sapiens mitochondrial ribosomal protein S31, nuclear gene encoding mitochondrial protein, mRNA	
A_24_P247493	A_24_P247493	-1.20	Unknown	
NM_145239	NM_145239	-1.34	Homo sapiens similar to lymphocyte antigen 6 complex, locus G5B; G5b protein; open reading frame 31, mRNA	
BC024020	BC024020	-1.45	Homo sapiens likely ortholog of rat vacuole membrane protein 1, mRNA, with apparent retained intron	
BC031320	BC031320	-1.17	Homo sapiens, clone IMAGE:5278682, mRNA	
THC1915217	THC1915217	-5.41	Unknown	
ARSF	NM_004042	-3.86	Homo sapiens arylsulfatase F (ARSF), mRNA	
A_24_P349489	A_24_P349489	-1.19	Unknown	
A_24_P178415	A_24_P178415	-1.21	Unknown	
KIAA1608	NM_024820	-2.10	Unknown	
THC1922938	THC1922938	-1.19	Unknown	
A_32_P100379	A_32_P100379	-1.18	Unknown	
A_24_P401582	A_24_P401582	-1.26	Unknown	
NM_178354	NM_178354	-1.39	Homo sapiens late envelope protein 6 (LEP6), mRNA	
THC1827959	THC1827959	-1.55	Unknown	
THC1953143	THC1953143	-6.46	Unknown	
THC1958408	THC1958408	-4.25	Unknown	
A_23_P64184	A_23_P64184	-1.40	Unknown	
CDKAL1	AK128546	-2.50	Homo sapiens cDNA FLJ46705 fis, clone TRACH3015346. [AK128546]	
ENST00000246582	ENST00000246582	-4.00	Ig heavy chain V-II region COR. [Source:SWISSPROT;Acc:P01815] [ENST00000246582]	