

Table S2. Gene expression before and after gamma irradiation – wt p53 upregulated genes.

GeneName	ID	Gene description	Irradiation, 12 Gy						HCT116				DLD-1				RKO				SW48			
			No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes		
BBC3	NM 014417	Homo sapiens BCL2 binding component 3	1.00	0.49	0.88	1.35	0.65	0.78	1.00	0.80	2.21	5.18	1.00	0.60	0.92	1.32	0.54	1.00	1.00	0.86	1.08	2.14	1.35	3.68
C1orf57	NM 032324	Homo sapiens chromosome 1 open reading frame 57	1.00	1.25	1.35	3.48	0.93	2.02	1.00	0.98	1.94	4.80	1.00	0.91	1.02	1.40	0.91	1.66	1.00	0.97	0.92	1.49	1.42	2.99
CCNG1	NM 004060	Homo sapiens cyclin G1, transcript variant 1	1.00	1.11	1.08	1.78	0.87	1.32	1.00	1.01	1.94	4.32	1.00	1.59	0.79	0.97	1.53	2.48	1.00	0.90	0.83	1.25	0.93	1.84
CDKN1A	NM 078467	Homo sapiens cyclin-dependent kinase inhibitor 1A, transcript variant 2	1.00	0.87	1.65	8.76	0.98	3.23	1.00	1.59	11.15	80.83	1.00	1.17	1.95	4.32	1.12	4.28	1.00	1.34	3.22	13.09	3.31	32.80
CSDA	NM 003651	Homo sapiens cold shock domain protein A	1.00	1.07	1.12	1.89	0.86	1.40	1.00	1.11	2.55	3.56	1.00	1.16	0.70	1.26	1.02	1.80	1.00	0.99	0.82	1.19	1.13	1.82
DGKA	NM 201444	Homo sapiens diacylglycerol kinase, alpha 80kDa, transcript variant 1	1.00	0.96	0.89	2.12	0.85	1.24	1.00	0.93	2.95	6.33	1.00	1.13	1.24	1.83	0.89	1.88	1.00	1.02	1.01	1.45	1.97	3.78
FAS	NM 000043	Homo sapiens Fas (TNF receptor superfamily, member 6), transcript variant 1	1.00	1.57	1.58	4.38	1.39	2.99	1.00	1.60	6.93	11.61	1.00	1.27	0.81	1.39	0.50	1.97	1.00	0.98	0.67	1.79	0.62	3.06
FDXR	NM 024417	Homo sapiens ferredoxin reductase, nuclear gene encoding mitochondrial protein,	1.00	art0391	1.47	5.15	1.29	4.12	1.00	0.98	5.54	10.62	1.00	1.34	0.85	1.88	0.59	2.10	1.00	1.02	1.11	2.22	1.49	3.87
GDF15	NM 004864	Homo sapiens growth differentiation factor 15	1.00	0.24	0.35	1.16	0.27	0.81	1.00	0.76	0.86	3.94	1.00	0.71	3.11	8.12	4.59	33.97	1.00	0.89	2.34	10.46	2.26	30.30
GPR56	NM 201525	Homo sapiens G protein-coupled receptor 56, transcript variant 3	1.00	0.49	0.61	0.96	0.35	0.53	1.00	0.75	2.33	1.57	1.00	3.18	3.36	4.64	1.61	5.26	1.00	1.20	0.77	1.22	1.21	2.25
LOC401131	XR 000987	PREDICTED: Homo sapiens hypothetical LOC401131, transcript variant 1, misc	1.00	0.90	3.34	11.64	1.07	3.00	1.00	0.41	328.05	924.03	1.00	1.37	8.45	27.13	2.89	16.98	1.00	0.45	9.29	32.75	14.23	81.15
LOC730999	XM 001131389	PREDICTED: Homo sapiens hypothetical protein LOC730999	1.00	0.78	2.24	7.90	1.34	3.64	1.00	1.07	13.91	104.52	1.00	1.49	2.72	6.69	3.70	19.63	1.00	1.22	0.85	2.66	2.70	10.60
MDM2	NM 002392	Homo sapiens Mdm2, transformed 3T3 cell double minute 2, p53 binding protein	art10	art 1.01v	MDM2	2.45	0.87	1.65	1.00	1.64	7.89	20.81	1.00	1.21	1.01	2.57	0.63	2.38	1.00	1.27	1.37	3.15	1.66	7.37
PLK3	NM 004073	Homo sapiens polo-like kinase 3 (Drosophila)	1.00	0.81	0.72	2.31	0.54	1.33	1.00	1.05	2.17	9.60	1.00	1.03	0.99	1.71	0.60	1.55	1.00	0.75	1.16	2.06	0.95	3.44
PPM1D	NM 003620	Homo sapiens protein phosphatase 1D magnesium-dependent, delta isoform	1.00	0.97	1.11	3.24	0.98	1.89	1.00	0.91	2.59	3.86	1.00	1.14	0.96	1.46	0.86	1.92	1.00	0.90	1.56	2.67	1.34	3.32
RRM2B	NM 015713	Homo sapiens ribonucleotide reductase M2 B (TP53 inducible)	1.00	1.05	1.66	3.05	1.43	2.59	1.00	1.02	5.17	13.45	1.00	1.21	1.68	2.97	0.82	2.26	1.00	0.91	0.61	1.07	0.66	1.86
SPATA18	NM 145263	Homo sapiens spermatogenesis associated 18 homolog (rat)	1.00	1.30	1.57	4.04	0.49	0.94	1.00	1.29	46.18	100.47	1.00	1.37	0.96	1.35	4.29	14.79	1.00	0.98	1.44	2.79	1.42	5.16
THC2295607	THC2295607	Unknown	1.00	1.56	9.46	39.88	7.22	27.41	1.00	0.77	23.75	111.45	1.00	1.16	5.22	7.81	3.26	15.30	1.00	0.92	1.80	3.49	1.81	8.38
THC2437069	THC2437069	Unknown	1.00	1.50	6.48	29.43	5.64	20.48	1.00	1.46	6.03	21.73	1.00	1.55	2.76	7.86	0.58	3.81	1.00	1.03	3.20	6.74	2.74	19.18
TP53JNP1	NM 033285	Homo sapiens tumor protein p53 inducible nuclear protein 1	1.00	1.01	1.77	7.04	2.17	5.95	1.00	1.45	8.49	18.40	1.00	1.86	1.62	3.33	0.88	3.98	1.00	1.26	1.32	3.72	1.09	7.22
WDR63	NM_145172	Homo sapiens WD repeat domain 63	1.00	0.83	1.13	3.23	1.05	1.50	1.00	1.01	3.89	5.51	1.00	1.04	0.87	2.97	1.12	0.93	2.12	3.74	1.22	2.12	1.36	3.74