

**Table W1.** Peptides Identified By MALDI-TOF.

Peptide	Band (kDa)		Position
	47	53	
1	TYQGSYGFR	TYQGSYGFR	102–110
2	KPLDGEYFTLQIR	KPLDGEYFTLQIR	321–333
3	KKPLDGEYFTLQIR	KKPLDGEYFTLQIR	320–333
4	TCPVQLWVDSTPPPGTR	TCPVQLWVDSTPPPGTR	140–156
5		ERFEMFR	336–342
6		QSQHMTEVVR	165–174
7		VEYLDDRNTFR	203–213
8		CSDSDGLAPPQHLIR	182–196

**Table W2.** Genes Induced following Adp53<sup>wt</sup> Infection.

Probe Set(s)*	Gene Symbol <sup>†</sup>	Induced
218559_s_at	<i>MAFB</i>	5.8 <sup>‡</sup>
205249_at	<i>EGR2</i>	4.7
224646_x_at, 224997_x_at	<i>H19</i>	4.5
1554340_a_at	<i>C1orf187</i>	4.0 <sup>§</sup>
210609_s_at	<i>TP53I3</i>	3.9
211421_s_at	<i>RET</i>	3.8
225912_at	<i>TP53INP1</i>	3.8
205569_at	<i>LAMP3</i>	3.7
232165_at, 232164_s_at, 208156_x_at	<i>EPPK1</i>	3.5
212942_s_at	<i>KIAA1199</i>	3.1
210090_at	<i>ARC</i>	3.0
201235_s_at, 201236_s_at	<i>BTG2</i>	2.9
219583_s_at	<i>PATA7</i>	2.8
226913_s_at	<i>SOX8</i>	2.8
204859_s_at, 211554_s_at	<i>APAF1</i>	2.8
215785_s_at, 220999_s_at	<i>CYFIP2</i>	2.8
231115_at	<i>GTPBP2</i>	2.6
212070_at	<i>GPR56</i>	2.6
214890_s_at	<i>DKFZP564J102</i>	2.6
213268_at, 1555370_a_at	<i>CAMTA1</i>	2.5
242517_at	<i>GPR54</i>	2.5
232289_at	<i>FLJ14167</i>	2.5
204780_s_at, 215719_x_at, 216252_x_at, 204781_s_at	<i>TNFRSF6</i>	2.4
202181_at	<i>KIAA0247</i>	2.4
212907_at, 228181_at	<i>SLC30A1</i>	2.4
222546_s_at, 218180_s_at	<i>EPS8L2</i>	2.4
227306_at	<i>FLJ21245</i>	2.4
202284_s_at	<i>CDKN1A</i>	2.4
205286_at, 205287_s_at	<i>TFAP2C</i>	2.3
206153_at	<i>CYP4F11</i>	2.3
205493_s_at, 205492_s_at	<i>DPYSL4</i>	2.3
206832_s_at	<i>SEMA3F</i>	2.3
1557701_s_at	<i>POLH</i>	2.2
201578_at	<i>PODXL</i>	2.2
213469_at	<i>PGAP1</i>	2.2
206277_at	<i>P2RY2</i>	2.2
231928_at	<i>HES2</i>	2.2
204855_at	<i>SERPINB5</i>	2.2
203865_s_at	<i>ADARB1</i>	2.2
203045_at	<i>NINJ1</i>	2.1
235205_at	<i>LOC346887</i>	2.1
224724_at	<i>SULF2</i>	2.1
221577_x_at	<i>GDF15</i>	2.1
210367_s_at	<i>PTGES</i>	2.1
238542_at, 221291_at	<i>ULBP2</i>	2.0
228315_at	N/A	2.0
218346_s_at	<i>SESN1</i>	2.0
204379_s_at, 204380_s_at	<i>FGFR3</i>	2.0
230356_at	Transcribed locus	2.0
203722_at	<i>ALDH4A1</i>	2.0
202307_s_at	<i>TAP1</i>	1.9
219099_at	<i>C12orf5</i>	1.9
224793_s_at	<i>TGFBR1</i>	1.9
219936_s_at	<i>GPR87</i>	1.9
212496_s_at, 212492_s_at	<i>JMJD2B</i>	1.9

**Table W2.** (continued)

Probe Set(s)*	Gene Symbol <sup>†</sup>	Induced
203946_s_at	<i>ARG2</i>	1.9
39248_at	<i>AQP3</i>	1.9
205278_at	<i>GAD1</i>	1.8
207813_s_at	<i>FDXR</i>	1.8
203570_at	<i>LOXL1</i>	1.8
235230_at	<i>PLCXD2</i>	1.8
209050_s_at, 209051_s_at	<i>RALGDS</i>	1.8
219597_s_at	<i>DUOX1</i>	1.8
213568_at	<i>OSR2</i>	1.8
218032_at	<i>SNN</i>	1.8
227964_at	<i>FKSG44</i>	1.8
209712_at, 209711_at	<i>SLC35D1</i>	1.7
225160_x_at, 229711_s_at	<i>MGC5370</i>	1.7
238335_at	<i>DNAJA5</i>	1.7
235467_s_at	<i>KCNC4</i>	1.7
215411_s_at	<i>TRAF3IP2</i>	1.7
203310_at	<i>STXBP3</i>	1.7
56256_at	<i>SIDT2</i>	1.7
228115_at	N/A	1.7
201032_at	<i>BLCAP</i>	1.7
208978_at	<i>CRIP2</i>	1.7
209693_at	<i>ASTN2</i>	1.7
227247_at	<i>PLEKHA8</i>	1.7
227295_at	<i>IKIP</i>	1.7
209790_s_at	<i>CASP6</i>	1.7
213716_s_at	<i>SECTM1</i>	1.7
210138_at	<i>RGS20</i>	1.7
205483_s_at	<i>G1P2</i>	1.7
31846_at, 209885_at	<i>RHOD</i>	1.6
201412_at	<i>LRP10</i>	1.6
227522_at	<i>LOC134147</i>	1.6
219322_s_at, 236381_s_at	<i>WDR8</i>	1.6
201963_at	<i>ACSL1</i>	1.6
235434_at	N/A	1.6
223754_at	<i>MGC13057</i>	1.6
1556194_a_at	N/A	1.6
241348_at, 219239_s_at	<i>ZNF654</i>	1.6
212510_at	<i>GPD1L</i>	1.6
336_at	<i>TBXA2R</i>	1.6
202627_s_at, 202628_s_at	<i>SERPINE1</i>	1.5
55081_at, 221779_at	<i>MICAL-L1</i>	1.5
212992_at	<i>C14orf78</i>	1.5
221215_s_at, 234730_s_at	<i>RIPK4</i>	1.5
233550_s_at, 223748_at	<i>SLC4A11</i>	1.5
219358_s_at	<i>CENTA2</i>	1.5
1555609_a_at	<i>WIG1</i>	1.5
227728_at, 231370_at, 203966_s_at	<i>PPM1A</i>	1.5
209295_at, 210405_x_at, 209294_x_at	<i>TNFRSF10B</i>	1.5
204061_at	<i>PRKX</i>	1.5
232946_s_at	<i>NADSYN1</i>	1.5
212800_at, 1552618_at, 212799_at	<i>STX6</i>	1.5
227420_at	<i>MGC17791</i>	1.5
1560228_at	<i>SNAI3</i>	1.5
202023_at	<i>EFNA1</i>	1.4
201834_at, 201835_s_at	<i>PRKAB1</i>	1.4
229616_s_at	<i>LOC196996</i>	1.4
203068_at	<i>KLHL21</i>	1.4
212812_at	N/A	1.4
227221_at	N/A	1.4
225864_at	<i>NSE2</i>	1.4
202587_s_at	<i>AK1</i>	1.4
226022_at	<i>SASH1</i>	1.4
212558_at	<i>SPRY1</i>	1.4
201302_at, 201301_s_at	<i>ANXA4</i>	1.4
208258_s_at, 209729_at, 31874_at	<i>GAS2L1</i>	1.4
218007_s_at, 238935_at, 222487_s_at	<i>RPS27L</i>	1.4
211833_s_at	<i>BAX</i>	1.4
231269_at	<i>ASCC3</i>	1.4
220161_s_at	<i>EPB41L4B</i>	1.4
222451_s_at	<i>ZDHHC9</i>	1.4
226604_at, 226600_at	<i>SMILE</i>	1.4
242705_x_at	<i>LRPAP1</i>	1.4
201117_s_at	<i>CPE</i>	1.4

Table W2. (continued)

Probe Set(s)*	Gene Symbol <sup>†</sup>	Induced
242463_x_at	ZNF600	1.4
203695_s_at	DFNA5	1.4
205386_s_at	MDM2	1.4
203132_at	RB1	1.3
204060_s_at	PRKX, PRKY	1.3
210962_s_at	AKAP9	1.3
219938_s_at	PSTPIP2	1.3
223342_at	RRM2B	1.3
227134_at	SYTL1	1.3
205109_s_at	ARHGEF4	1.3
224690_at	C20orf108	1.3
213271_s_at	KIAA1117	1.3
221840_at	PTPRE	1.3
226782_at	SLC25A30	1.3
225049_at	BLOC1S2	1.3
224862_at	GNAQ	1.3
202071_at	SDC4	1.3
224901_at	SCD4	1.3
225734_at	FBXO22	1.3
226805_at	C20orf142	1.3
211675_s_at	MDFIC	1.3
220520_s_at	FLJ20130	1.3
204547_at	RAB40B	1.3
202409_at	LOC492304	1.3
203224_at, 203225_s_at	RFK	1.2
218168_s_at	CABC1	1.2
238480_at	C18orf17	1.2
227204_at	PARD6G	1.2
211272_s_at	DGKA	1.2
226302_at	ATP8B1	1.2
204160_s_at	ENPP4	1.2
224733_at	CKLFSF3	1.2
212099_at	RHOB	1.2
201565_s_at	ID2	1.2
228937_at	FLJ38725	1.2
221012_s_at, 223132_s_at	TRIM8	1.2
215646_s_at, 221731_x_at, 211571_s_at	CSPG2	1.2
218527_at	APTX	1.2
226483_at	FLJ32370	1.2
203115_at	FECH	1.2
202351_at	ITGAV	1.2
209075_s_at	NIFUN	1.2
222874_s_at	CLN8	1.2
222820_at	TNRC6C	1.2
225848_at	FLJ31413	1.2
209513_s_at	HSDL2	1.2
221640_s_at	LRDD	1.2
213038_at, 36564_at	IBRDC3	1.2
224618_at	N/A	1.2
244467_at	LOC440829	1.2
226580_at	BRMS1L	1.2
224461_s_at	AMID	1.2
212968_at	RFNG	1.2
202546_at	N/A	1.2
202392_s_at	PISD	1.2
209260_at	SFN	1.2
218373_at	FTS	1.2
218251_at	MID1IP1	1.2
202672_s_at	ATF3	1.2
217297_s_at	MYO9B	1.2
217889_s_at	CYBRD1	1.2
225223_at, 225219_at	SMAD5	1.1
212637_s_at, 212638_s_at	WWP1	1.1
218415_at	VPS33B	1.1
227776_at	N/A	1.1
221732_at	CANT1	1.1
226214_at	MIR16	1.1
225473_at	FLJ44670	1.1

Table W2. (continued)

Probe Set(s)*	Gene Symbol <sup>†</sup>	Induced
209286_at	CDC42EP3	1.1
210026_s_at	CARD10	1.1
209584_x_at	APOBEC3C	1.1
218627_at	FLJ11259	1.1
204493_at	BID	1.1
216080_s_at	FADS3	1.1
228347_at	SIX1	1.1
44040_at	FBXO41	1.1
235119_at	TAF3	1.1
209558_s_at	HIP1R	1.1
223195_s_at, 223196_s_at	SESN2	1.1
212124_at	RAI17	1.1
203216_s_at, 203215_s_at, 210480_s_at	MYO6	1.1
210260_s_at, 208296_x_at	TNFAIP8	1.1
220007_at	FLJ13984	1.1
230563_at	RASGEF1A	1.1
202794_at	INPP1	1.1
200704_at	LITAF	1.1
225334_at	C10orf32	1.1
34206_at	CENTD2	1.1
223474_at	C14orf4	1.1
228098_s_at	MYLIP	1.1
227013_at	LATS2	1.1
221843_s_at	KIAA1609	1.1
214434_at	HSPA12A	1.1
228220_at	FCHO2	1.1
36711_at	MAFF	1.1
213587_s_at	C7orf32	1.1
225604_s_at	C9orf19	1.1
203409_at	DDB2, LHX3	1.1
218066_at	SLC12A7	1.1
218764_at	PRKCH	1.1
203499_at	EPHA2	1.1
235252_at	KSR	1.1
201473_at	JUNB	1.1
214435_x_at, 224880_at	RALA	1.0
205442_at	N/A	1.0
222687_s_at	PHCA	1.0
224617_at	N/A	1.0
203537_at	PRPSAP2	1.0
203728_at	BAK1	1.0
212983_at	HRAS	1.0
225319_s_at	FLJ14775	1.0
203367_at	DUSP14	1.0
229746_x_at, 231819_at	CEBPZ	1.0
225347_at	ARL10B	1.0
218288_s_at	MDS025	1.0
223385_at	CYP2S1	1.0
202755_s_at	GPC1	1.0
212966_at	HIC2	1.0
216041_x_at	GRN	1.0
235688_s_at	TRAF4	1.0
35160_at	LDB1	1.0
201494_at	PRCP	1.0
227357_at	TAB3	1.0
207076_s_at	ASS	1.0
202286_s_at	TACSTD2	1.0
209184_s_at	IRS2	1.0

\*Probe sets used to identify features on the Affymetrix microarrays. Multiple probe sets are listed if individual genes were represented more than once on the array.

<sup>†</sup>Official gene symbols were determined using the Entrez Gene database (<http://www.ncbi.nlm.nih.gov/sites/entrez>).

<sup>‡</sup>Log<sub>2</sub> (fold increase in expression) resulting from infection with adenoviruses expressing the indicated variant of p53.

<sup>§</sup>The values highlighted in yellow were increased in response to one or more variants of p53 and details are provided in Table W3.

**Table W3.** Genes Induced in Response to Infection with Ad-p53<sup>QS1</sup> and/or Ad-p53<sup>QS2</sup>.

Gene Symbol	Variant of p53			
	WT	QS1	QS2	QS1/QS2
<b>QS1 and QS2</b>				
<i>C1orf187*</i>	15.5 <sup>†</sup>	4.6	9.2	0.6 <sup>‡</sup>
<i>TP53I3<sup>§</sup></i>	14.4	4.0	2.5	1.1
<i>RET</i>	13.9	8.6	8.3	4.9
<i>TP53INP1</i>	13.9	2.6	2.9	1.3
<i>EPPK1</i>	11.4	4.1	4.8	1.6
<i>BTG2</i>	7.5	5.1	4.1	1.9
<i>GPR56</i>	6.1	3.1	2.7	1.1
<i>FAS</i>	5.3	3.4	3.2	1.9
<i>KIAA0247</i>	5.3	2.5	2.3	1.1
<i>EPS8L2</i>	5.1	3.1	2.9	1.4
<i>PODXL</i>	4.6	2.6	2.5	1.2
<i>PGAP1</i>	4.6	2.5	2.5	1.3
<i>SERPINB5</i>	4.4	2.5	2.0	1.1
<i>NINJ1</i>	4.3	2.3	2.5	1.3
<i>TAP1</i>	3.7	2.3	2.5	1.3
<i>C12orf5</i>	3.6	2.3	2.0	1.5
<i>DNAJA5</i>	3.2	3.1	3.0	2.4
<i>PTPRE</i>	2.4	2.1	2.4	1.2
<b>QS1 not QS2</b>				
<i>CAMTA1</i>	5.8	2.6	2.7	2.3
<i>FLJ1245</i>	5.1	3.0	2.2	1.1
<i>CDKN1A</i>	5.1	2.1	1.7	0.6
<i>ULBP2</i>	4.1	2.0	1.6	1.3
Transcribed locus	3.9	2.1	2.5	1.3
<i>TGFBR1</i>	3.6	2.0	1.8	1.5
<i>KCNC4</i>	3.2	2.7	0.9	3.5
<i>LRP10</i>	3.0	2.0	1.8	1.1
<i>BAX</i>	2.5	2.3	1.8	1.1
<i>ASCC3</i>	2.5	2.1	1.5	1.5
<b>QS2 not QS1</b>				
<i>LAMP3</i>	13.0	2.3	3.5	1.2
<i>SLC30A1</i>	5.2	2.5	2.3	1.2
<i>CYP4F11</i>	4.9	3.6	3.5	2.5
<i>LOC346887</i>	4.3	2.0	2.1	1.1
<i>SLC25A30</i>	2.4	1.9	2.1	2.0

Genes induced by one or both variants of p53 are grouped together.

\*Official gene symbols were determined using the Entrez Gene database (<http://www.ncbi.nlm.nih.gov/sites/entrez>).

<sup>†</sup>Fold increase in expression following infection with adenoviruses expressing the indicated variant of p53. values are ordered by decreasing fold change in expression following Adp53<sup>wt</sup> infection.

<sup>‡</sup>The values highlighted in yellow were not considered to be induced because they did not meet statistical criteria described in the Materials and Methods.

<sup>§</sup>The fold induction of the gene highlighted in green in response to Adp53<sup>QS1</sup> and Adp53<sup>QS2</sup> infection was reduced more than two-fold compared to the level induced in response to Adp53<sup>wt</sup> infection.

**Table W4.** Correlation between Microarray and RT-PCR Results.

Transcript	Variant of p53							
	WT		QS1		QS2		QS1/QS2	
	M*	RT	M	RT	M	RT	M	RT
<i>TP53IP3</i>	+++ <sup>†</sup>	+++	+	+	+	+	-	-
<i>MAFB</i>	+++	+++	-	-	-	-	-	-
<i>APAF1</i>	++	++	-	+	-	+	-	-
<i>CDKN1A</i>	++	++	+	+/-	-	+/-	-	-
<i>SERPINB5</i>	++	++	+	+	+	+	-	-
<i>MDM2</i>	+	+	-	-	-	-	-	-
<i>DDB2</i>	+	+	-	-	-	-	-	-
<i>TNFRSF6</i>	++	++	++	++	++	++	-	-
<i>BTG2</i>	+	+	+	+	+	+	-	-
<i>TNFRSF10B</i>	+	+	+/-	+	+/-	+	-	-
<i>BAK1</i>	+	+	-	+	-	+	-	-
<i>CASP6</i>	+	+	-	+/-	-	+/-	-	-

\*M and RT denote microarray and RT-PCR expression data, respectively.

<sup>†</sup>The number of + symbols indicates the relative increase in transcript level, - indicates that the transcript was not increased by the variant, and +/- indicates that the transcript is marginally increased.

