

**Supplementary Table 1** Core protein hits for p53 isoforms associated with various chaperons *in-vivo*. Shown are the remaining core protein hits from Figure 5D and the enrichment for the respective p53 isoform. Displayed in bold are the only four hits all p53 isoform have in common (not shown in Figure 5D). Displayed are chaperons and other proteins associated with binding un-/misfolded proteins. Significant hits were determined by setting the parameters: log2 enrichment greater than or equal to 0.5 and p-value less than 0.05.

Genes name	Enriched for				
	$\Delta 40p53\alpha$	TAp53 $\beta$	TAp53 $\gamma$	$\Delta 133p53\alpha$	$\Delta 133p53\beta$
AHSA1	x			x	
CHAF1B	x	x		x	
CHORDC1	x	x	x	x	
CSNK2A1;CSNK2A3	x	x		x	x
DFFA	x	x	x	x	
DNAJA1	x			x	
DNAJA3		x		x	
DNAJB1	x		x	x	x
FKBP4	x	x	x	x	
HSPA1A;HSPA1B	x		x	x	x
HSPA4	x	x	x	x	
NPM1	x			x	x
NUDCD3	x		x	x	x
PDCD5	x	x		x	x
PPID	x		x	x	
PPIH	x	x		x	x
RUVBL2	x	x			x
<b>CHAF1A</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
<b>NUDCD2</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
<b>AIP</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>
<b>TP53</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>x</b>