

Table S1. List of sequencing primers

Human primers		
Exon	Direction	Sequence (5'-3')
2+3	Forward	CTGTCTCAGACACTGGCATGG
	Reverse	GGCAAGGGGGACTGTA
4	Forward	GGACTGACTTTCTGCTCTTGTCTTT
	Reverse	CAGAGATCACACATTAAGTGGGTAA
5	Forward	CTCTCTAGCTCGCTAGTGGGT
	Reverse	CGAAAAGTGTTTCTGTCATCCAAAT
6	Forward	GCCATGGCCATCTACAAGCA
	Reverse	TGGGGTTATAGGGAGGTCAAA
7	Forward	ACAGGTCTCCCCAAGG
	Reverse	AAACTGAGTGGGAGCAGTAAGGAGA
8+9	Forward	GGACAAGGGTGGTTGGGAGTAGA
	Reverse	CCCAATTGCAGGTAAACAGTCAAG
10	Forward	CAGTTTCTACTAAATGCATGTTGCT
	Reverse	ATACACTGAGGCAAGAATGTGGTTA
11	Forward	CATCTTGATTTGAATCCCGTTGT
	Reverse	CACCAGTGCAGGCCAACTTGTTTCAG
Murine primers		
Exon	Direction	Sequence (5'-3')
2	Forward	GCATCCATACAGTACACAATCTCT
	Reverse	CCAACACCATAACCATGTTTGAACA
3+4	Forward	GAATAACTCTCTGCTCTTGT
	Reverse	AGGTCACACGAAAGACAATC
5	Forward	TTCCAGTACTCTCCTCCCCTCAA
	Reverse	AGGCTGCCAGTCCTAACCCACAG
6	Forward	CATCTCCCGGCTTCTGACTTA
	Reverse	AGTCTAGGCTGGAGTCAACTG
7	Forward	GAGGTAGGGAGCGACTTCAC
	Reverse	GCTGGGGAAGAAACAGGCTAACCT
8+9	Forward	GGGCCCAGCTTTCTTACTGC
	Reverse	AGACAGAGGCAATAATGGGTACA
10	Forward	TGTCCAGTGCTTCCATCTCAC
	Reverse	TCACTACAAAGGCTGAGCTGG
11	Forward	AGCTCCCATCACTTCATCCCTC
	Reverse	CCTGGACTCAGGTGGGTACCT

Table S2. List of materials for western blot experiments

Article	Ref. no.	Company
SureLock Tandem Midi Gel Tank	STM1001	Thermo Fisher
SureLock Tandem Midi Blot Module	STM2001	Thermo Fisher
NuPAGE MOPS Running buffer	NP0001	Thermo Fisher
NuPAGE 4-12% Bis-Tris Midi gel	WG1403BOX	Thermo Fisher
Non-reducing loading sample buffer	LC2570	Thermo Fisher
NuPAGE sample reducing agent	NP0009	Thermo Fisher
iBright prestained protein ladder	LC5615	Thermo Fisher
PVDF membranes, 0.45 μ m	STM2006	Thermo Fisher
NuPAGE transfer buffer	NP0006	Thermo Fisher
Blocking buffer	37565	Thermo Fisher
Bovine Serum Albumin	A7906	Sigma Aldrich
Pico PLUS Chemiluminescent substrate	34577	Thermo Fisher
Femto Chemiluminescent substrate	34094	Thermo Fisher

Table S3. p53 variants detected in the current study

Cell line	Exon number	Genomic description (hg 38)	Genomic description (GRCm39)	cDNA description*	Protein description	IARC ID	dbSNP	Effect
NB1, NB2, SKNAS	Exon 4	g.7676154G>C	n.a	c.215C>G	p.P72R	708	rs1042522	Validated SNP. Potentially functional polymorphism with reported significance in drug response. Benign, uncertain significance.
Neuro2a	Exon 4	n.a.	g.69478314C>T	c.379 C>T	p.T74T	n.a.	n.a.	Silent variant
Neuro2a	Exon 5	n.a.	g.69479331G>C	c.665 G>C	p.V170L	n.a.	n.a.	Hydrofobic to hydrofobic missense mutation in the DNA binding region

*According to IARC nomenclature for human TP53 variants, referring to the NM_000546.6 and alignment to NM011640.3 for the mouse lines N1e and N2a

Flow cytometry – cell cycle analysis – NB2

