

DARPin-induced reactivation of p53 in HPV-positive cells

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SUPPORTING INFORMATION

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Supplementary Table 1. Thermodynamic data of p53–DARPin C10 binding

DARPin	Target	T [°C]	K_d [nM]	95% CI [nM]	ΔH [kcal mol ⁻¹]	95% CI [kcal mol ⁻¹]	ΔS [cal mol ⁻¹ K ⁻¹]
C10	p53 DBD	25	243	234 to 263	19.3	-19.4 to -19.2	-34.5
	p53 DBD	15	180	120 to 270	-5.5	-6.1 to -5.0	12.0
	p63 DBD	15	-	-	-	-	-
	p73 DBD	15	-	-	-	-	-
C10-H82R	p53 DBD	25	71	70 to 72	-20.3	-20.5 to -20.1	-35.4

Supplementary Table 2. Differentially regulated genes identified by RNA Sequencing of HeLa cells expressing DARPin C10 compared to HeLa cells expressing control DARPin. (attached as separate .xls file)

Supplementary Table 3. Primers used for the qPCR experiments.

Assay	Catalog #	Supplier	
TaqMan™ Gene Expression Assay: HTRP1	Hs00608195_m1	Applied Biosystems, Thermo Fisher Scientific Inc., USA	
TaqMan™ Gene Expression Assay: PUMA	Hs00248075_m1	Applied Biosystems, Thermo Fisher Scientific Inc., USA	
TaqMan™ Gene Expression Assay: NOXA	Hs00560402_m1	Applied Biosystems, Thermo Fisher Scientific Inc., USA	
TaqMan™ Gene Expression Assay: p21	Hs00355782_m1	Applied Biosystems, Thermo Fisher Scientific Inc., USA	
TaqMan™ Gene Expression Assay: MDM2	Hs00540450_s1	Applied Biosystems, Thermo Fisher Scientific Inc., USA	
TaqMan™ Gene Expression Assay: SFN	Hs00968567_s1	Applied Biosystems, Thermo Fisher Scientific Inc., USA	

Supplementary Table 4. siRNAs used in the experiments

target	sequence	catalog number	source		
siRNA_HP18-E6	CUAACUAACACUGGGUUAUUU	n.a.	https://doi.org/10.1038/sj.onc.1206894		
siRNA_HP16-E6	commercial siRNA, sequence unknown	sc-156008	santa cruz biotechnology		
control siRNA (ON-TARGETplus Non-targeting Pool)		D-001810-10-20	Dharmacon		