

## Supplementary Materials

**Table 1.** qPCR verification of p73 binding sites in ME180 cells

Threshold	Target ID	binding score	p73 Avg	p73 B1	p73 B2	p73 B3	verified?	
p-val $\leq$ 10 <sup>-3</sup>	STR 15380/81	29.99	6.23	4.59	6.77	7.33	Y	
	STR 15382/83	31.93	2.81	5.30	-0.10	3.24	Y	
	STR 15384/85	32.02	2.10	6.43	-0.14	0.00	N	
	STR 15388/89	32.57	17.59	19.64	3.64	29.50	Y	
	STR 15390/91	33.00	13.04	10.86	9.80	18.46	Y	
	STR 15398/99	35.34	7.73	1.94	4.87	16.38	Y	
	STR 15400/01	35.66	16.33	16.36	11.22	21.42	Y	
	STR 15402/03	37.13	15.55	21.68	13.57	11.39	Y	
	STR 15404/05	37.62	5.52	4.79	1.57	10.21	Y	
	p-val $\leq$ 10 <sup>-4</sup>	STR 15410/11	40.82	15.56	19.21	12.23	15.25	Y
		STR 15416/17	42.57	1.36	-0.01	1.07	3.02	N
		STR 15418/19	43.44	7.07	8.65	5.98	6.58	Y
		STR 15632/33	46.45	42.47	77.45	26.07	23.90	Y
STR 15422/23		44.47	15.05	13.66	11.82	19.67	Y	
p-val $\leq$ 10 <sup>-5</sup>		STR 15428/29	52.41	6.42	6.30	2.36	10.61	Y
	STR 15432/33	57.75	17.07	13.66	6.72	30.84	Y	
	STR 15434/35	61.59	2.70	1.09	3.17	3.83	Y	
	STR 15440/41	72.01	9.65	3.21	6.77	18.97	Y	
	STR 15444/45	88.63	10.95	3.47	9.99	19.38	Y	

<sup>a</sup> binding enrichment scores are indicated for each biological replicate (B1,B2, B3) as well as the average (avg) fold enrichment of all three replicates

<sup>b</sup> see Methods for details on binding enrichment score

<sup>c</sup> a target is verified (Y = Yes; N=No) if avg fold enrichment is >2.5 fold AND 2 independent replicates each show >2.5 fold