







Top3 *de novo* motifs identified




p53+p63 common sites

Motif	p-value	% targets	% background	similarity
	1E-6729	74.84%	0.90%	p53
	1E-382	3.04%	0.01%	unknown
	1E-256	1.95%	0.00%	GATA

p53 unique sites

Motif	p-value	% targets	% background	similarity
	1E-662	52.63%	1.38%	p53
	1E-163	6.08%	0.01%	unknown
	1E-131	5.56%	0.01%	GATA

p63 unique sites

Motif	p-value	% targets	% background	similarity
	1E-11463	65.20%	4.46%	p63
	1E-761	23.99%	9.32%	AP-1 (bZIP)
	1E-525	36.63%	21.03%	bHLH

Top motifs co-enriched with primary ‘p53+p63’, ‘p53’, and ‘p63’ motifs at the respective DNA sites.