

Cellular retinoic acid binding protein 2 inhibits tumor growth by two distinct mechanisms

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Supplemental Information

Table S1: List of 135 genes identified by Venn analysis to be regulated by both CRABP2 and HuR.

transcript cluster ID	name/gene ID	description	fold change shHuR/shLuc	fold change shCRABP2/shLuc
16957951	POLQ	polymerase (DNA directed), theta	-2.42	-1.41
16702571	MCM10	minichromosome maintenance complex component 10	-2.41	-1.32
16852445	C18orf54	chromosome 18 open reading frame 54	-2.32	-1.23
16714998	DNA2	DNA replication helicase 2 homolog (yeast)	-2.26	-1.3
16826160	SHCBP1	SHC SH2-domain binding protein 1	-2.23	-1.56
16916958	PCNA	proliferating cell nuclear antigen	-2.19	-1.23
16937505	FANCD2	Fanconi anemia, complementation group D2	-2.14	-1.29
16842673	SPAG5, SGK494	sperm associated antigen 5, uncharacterized serine/threonine-protein kinase Sgk494	-2.12	-1.34
16953279	CDC25A	cell division cycle 25 homolog A (S. pombe)	-2.06	-1.61
17079293	CCNE2	cyclin E2	-2.06	-1.31
16927052	CDC45	cell division cycle 45 homolog (S. cerevisiae)	-2.04	-1.29
16677556	TGFB2	transforming growth factor, beta 2	-2.03	-1.59
16784215	GPR137C	G protein-coupled receptor 137C	-2.03	-1.23
16687352	LRP8	low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	-2.02	-1.5
17107211	SLC9A6	solute carrier family 9, subfamily A (NHE6, cation proton antiporter 6), member 6	-2	-1.3
17084904	MELK	maternal embryonic leucine zipper kinase	-1.99	-1.24
16829369	FANCA	Fanconi anemia, complementation group A	-1.98	-1.24
17123142			-1.96	-1.23
16773840	BRCA2	breast cancer 2, early onset	-1.95	-1.37
16804559	FANCI	Fanconi anemia, complementation group I	-1.95	-1.27
16868838	SPC24	SPC24, NDC80 kinetochore complex component, homolog (S. cerevisiae)	-1.92	-1.53
16662648	CDCA8	cell division cycle associated 8	-1.91	-1.32
16849148	RNF157	ring finger protein 157	-1.91	-1.32
16958403	HEG1	HEG homolog 1 (zebrafish)	-1.9	-1.58
16914315	UBE2C	ubiquitin-conjugating enzyme E2C	-1.88	-1.3
16819952	CBFB	core-binding factor, beta subunit	-1.87	-1.5
17038792	KIFC1	kinesin family member C1	-1.87	-1.26
16830173	FAM64A	family with sequence similarity 64, member A	-1.84	-1.36
17067102	CDCA2	cell division cycle associated 2	-1.84	-1.29
16860103	ZNF93	zinc finger protein 93	-1.84	-1.21
16802519	KIF23	kinesin family member 23	-1.82	-1.21
16901957	CKAP2L	cytoskeleton associated protein 2-like	-1.8	-1.26

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17067332	ESCO2	establishment of cohesion 1 homolog 2 (<i>S. cerevisiae</i>)	-1.79	-1.24
16725735	FEN1	flap structure-specific endonuclease 1	-1.77	-1.43
16766403	TMEM194A	transmembrane protein 194A	-1.76	-1.32
16877019	RRM2	ribonucleotide reductase M2	-1.76	-1.26
16719515	MKI67	antigen identified by monoclonal antibody Ki-67	-1.76	-1.21
16760048	FOXM1	forkhead box M1	-1.75	-1.4
16784299	CDKN3	cyclin-dependent kinase inhibitor 3	-1.75	-1.22
16714747	RTKN2	rhotekin 2	-1.74	-1.38
16912192	GINS1	GINS complex subunit 1 (Psf1 homolog)	-1.73	-1.22
16988703	LMNB1	lamin B1	-1.72	-1.27
16673557	C1orf112	chromosome 1 open reading frame 112	-1.72	-1.24
16913681	FAM83D	family with sequence similarity 83, member D	-1.71	-1.31
16931384	GTSE1	G-2 and S-phase expressed 1	-1.69	-1.31
16818600	ORC6	origin recognition complex, subunit 6	-1.69	-1.23
17103413	SUV39H1	suppressor of variegation 3-9 homolog 1 (<i>Drosophila</i>)	-1.66	-1.28
16935195	CBX6	chromobox homolog 6	-1.65	-1.45
16803562	CHRNA5	cholinergic receptor, nicotinic, alpha 5 (neuronal)	-1.64	-1.37
16707551	CEP55	centrosomal protein 55kDa	-1.64	-1.23
16729557	C11orf82	chromosome 11 open reading frame 82	-1.63	-1.22
16801557	CCNB2	cyclin B2	-1.59	-1.25
16920548	AURKA	aurora kinase A	-1.59	-1.21
16663155	CTPS1	CTP synthase 1	-1.57	-1.34
16701077	FH	fumarate hydratase	-1.57	-1.27
16777502	CENPJ	centromere protein J	-1.55	-1.23
16744125	KDEL2	KDEL (Lys-Asp-Glu-Leu) containing 2	-1.5	-1.39
17113079	MORC4	MORC family CW-type zinc finger 4	-1.5	-1.25
16844927			-1.49	-1.27
16755692	GAS2L3	growth arrest-specific 2 like 3	-1.49	-1.22
17087861	TMEM38B	transmembrane protein 38B	-1.47	-1.62
16836492	PRR11	proline rich 11	-1.44	-1.43
17023551	EPB41L2	erythrocyte membrane protein band 4.1-like 2	-1.44	-1.23
16924878	TIAM1	T-cell lymphoma invasion and metastasis 1	-1.44	-1.21
17114334	MIR503	microRNA 503	-1.42	-1.66
17119058			-1.41	-1.64
16687418	TMEM48	transmembrane protein 48	-1.41	-1.59

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16708802	TAF5	TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 100kDa	-1.4	-1.49
16819430	CPNE2	copine II	-1.4	-1.36
16877762	CENPO	centromere protein O	-1.4	-1.23
17107045	HPRT1	hypoxanthine phosphoribosyltransferase 1	-1.38	-1.27
17115428	IRAK1	interleukin-1 receptor-associated kinase 1	-1.38	-1.22
16668079	GPSM2	G-protein signaling modulator 2	-1.37	-1.23
16660199	MRTO4	mRNA turnover 4 homolog (S. cerevisiae)	-1.36	-1.33
16866702	MEX3D	mex-3 homolog D (C. elegans)	-1.35	-1.58
16886677	GPD2	glycerol-3-phosphate dehydrogenase 2 (mitochondrial)	-1.33	-1.8
16763060	SYT10	synaptotagmin X	-1.32	-1.21
17115505	FLNA	filamin A, alpha	-1.3	-1.41
16922639	DSCR6	Down syndrome critical region gene 6	-1.29	-1.53
17056992	GLI3	GLI family zinc finger 3	-1.29	-1.22
16956714	DCBLD2	discoïdin, CUB and LCCL domain containing 2	-1.28	-1.55
16894402	ODC1	ornithine decarboxylase 1	-1.28	-1.25
16657473	OR4F29, OR4F16, OR4F3, OR4F21	olfactory receptor, family 4, subfamily F, member 29, olfactory receptor, family 4, subfamily F, member 16, olfactory receptor, family 4, subfamily F, member 3, olfactory receptor, family 4, subfamily F, member 21	-1.27	-1.29
16679938	OR4F29, OR4F16, OR4F3, OR4F21	olfactory receptor, family 4, subfamily F, member 29, olfactory receptor, family 4, subfamily F, member 16, olfactory receptor, family 4, subfamily F, member 3, olfactory receptor, family 4, subfamily F, member 21	-1.27	-1.29
16993681	OR4F29, OR4F16, OR4F3, OR4F21	olfactory receptor, family 4, subfamily F, member 29, olfactory receptor, family 4, subfamily F, member 16, olfactory receptor, family 4, subfamily F, member 3, olfactory receptor, family 4, subfamily F, member 21	-1.27	-1.29
16817509	NFATC2IP	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	-1.26	-1.23
16854486	DSC2	desmocollin 2	-1.25	-1.31
16787902	SERPINA3	serpin peptidase inhibitor, clade A (alpha-1 antitrypsin), member 3	-1.23	-1.64

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16756111	TDG	thymine-DNA glycosylase	-1.22	-1.49
16989262			1.4	-1.5
17085901	ANXA1	annexin A1	1.76	-1.35
17101292	STS	steroid sulfatase (microsomal), isozyme S	1.47	-1.25
16707120	STAMBPL1	STAM binding protein-like 1	1.26	-1.22
16961616	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10	3.45	1.45
16911493	SPTLC3	serine palmitoyltransferase, long chain base subunit 3	2.85	1.43
16801299	FLJ27352	uncharacterized LOC145788	1.99	1.42
16908197	IGFBP5	insulin-like growth factor binding protein 5	1.96	1.21
16917632			1.92	1.43
17064848			1.88	1.43
17120628			1.87	1.32
17005515	TRIM38	tripartite motif containing 38	1.85	1.26
17120632			1.81	1.34
16911804	SLC24A3	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	1.74	1.31
16731269	LOC283140	uncharacterized LOC283140	1.7	1.71
16711987	CDNF	cerebral dopamine neurotrophic factor	1.69	1.23
16692918	FAM63A	family with sequence similarity 63, member A	1.69	1.3
16888999	PCGEM1	prostate-specific transcript 1 (non-protein coding)	1.66	1.78
16818977			1.63	1.3
16912127			1.62	1.33
16836528	YPEL2	yippee-like 2 (Drosophila)	1.61	1.25
16992467	CREBRF	CREB3 regulatory factor	1.58	1.47
16824109	PLA2G10, LOC100652777	phospholipase A2, group X, group 10 secretory phospholipase A2-like	1.58	1.52
16756310	TCP11L2	t-complex 11 (mouse)-like 2	1.57	1.48
16872254	DYRK1B	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B	1.53	1.39
17078995			1.51	1.21
16713530	CXCL12	chemokine (C-X-C motif) ligand 12	1.48	1.29
17014963	EXOC2	exocyst complex component 2	1.48	1.4
16908037	FN1	fibronectin 1	1.47	1.44
16678651	CAPN9	calpain 9	1.46	1.29
16797340	IGHE	immunoglobulin heavy constant epsilon	1.46	1.37

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16971443	FAM160A1	family with sequence similarity 160, member A1	1.44	1.22
17016406	HIST2H4B, HIST4H4, HIST2H4A, HIST1H4L, HIST1H4E, HIST1H4B, HIST1H4H, HIST1H4C, HIST1H4J, HIST1H4K, HIST1H4F, HIST1H4D, HIST1H4A, HIST1H4I	histone cluster 2, H4b, histone cluster 4, H4, histone cluster 2, H4a, histone cluster 1, H4l, histone cluster 1, H4e, histone cluster 1, H4b, histone cluster 1, H4h, histone cluster 1, H4c, histone cluster 1, H4j, histone cluster 1, H4k, histone cluster 1, H4f, histone cluster 1, H4d, histone cluster 1, H4a, histone cluster 1, H4i	1.44	1.23
16892075	ARMC9	armadillo repeat containing 9	1.42	1.22
16748835	PIK3C2G	phosphoinositide-3-kinase, class 2, gamma polypeptide	1.41	1.31
16817692	MVP	major vault protein	1.39	1.26
17120630			1.37	1.29
16910154	PP14571	uncharacterized LOC100130449	1.37	1.33
17124832			1.36	1.23
16779283	DHRS12	dehydrogenase/reductase (SDR family) member 12	1.36	1.31
17010461	MYO6	myosin VI	1.36	1.36
17045787	RAMP3	receptor (G protein-coupled) activity modifying protein 3	1.34	1.3
16826539	AKTIP, LOC100130746	AKT interacting protein, AKT interacting protein pseudogene	1.3	1.23
16906140	PDE1A	phosphodiesterase 1A, calmodulin-dependent	1.27	1.47
16945682	ACPP	acid phosphatase, prostate	1.25	1.61
16841982	TOM1L2	target of myb1-like 2 (chicken)	1.21	1.21