

Table S1. Genes and transcripts uniquely upregulated in cells overexpressing a constitutively active $\alpha v\beta 3$ integrin (CA $\beta 3$).

Log₂ fold change (FC) values were reported in DGE analysis using EdgeR, and genes and transcripts that demonstrated a Log₂ \geq 1.5 FC were identified using R statistical computing and graphics software. Genes and transcripts are listed alphabetically.

Ensembl ID	Gene Symbol	Log ₂ FC	Description
ENSG00000183044	ABAT	2.256388898	4-aminobutyrate aminotransferase
ENSG00000085563	ABCB1	3.532534991	ATP binding cassette subfamily B member 1
ENSG00000099204	ABLIM1	1.511933891	actin binding LIM protein 1
ENSG00000277200	AC005696.4	2.216741844	novel transcript
ENSG00000270953	AC007938.3	2.168835492	novel transcript, antisense to COPG2
ENSG00000260686	AC008669.1	1.574254158	novel transcript, overlapping SNX2
ENSG00000259420	AC046168.2	1.600563775	novel transcript
ENSG00000254337	AC083967.1	3.60611584	novel transcript
ENSG00000253882	AC099548.2	1.616126703	family with sequence similarity 115, member C (FAM115C) pseudogene
ENSG00000280064	AC130304.1	2.223498783	novel transcript
ENSG00000280029	AC244517.11	1.63522868	novel transcript, antisense to multiple protocadherins
ENSG00000122971	ACADS	2.286363476	acyl-CoA dehydrogenase short chain
ENSG00000213088	ACKR1	1.542919767	atypical chemokine receptor 1 (Duffy blood group)
ENSG00000150471	ADGRL3	1.592946906	adhesion G protein-coupled receptor L3
ENSG00000184160	ADRA2C	1.734597922	adrenoceptor alpha 2C
ENSG00000135439	AGAP2	1.774980569	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2
ENSG00000244306	AL589743.1	3.742391421	double homeobox A pseudogene 10
ENSG00000052850	ALX4	2.036922117	ALX homeobox 4
ENSG00000126016	AMOT	1.866977772	angiomotin
ENSG00000154188	ANGPT1	1.755336832	angiopoietin 1
ENSG00000151150	ANK3	4.2131673	ankyrin 3
ENSG00000131620	ANO1	5.375954302	anoctamin 1
ENSG00000151572	ANO4	3.875120707	anoctamin 4
ENSG00000130208	APOC1	2.54756142	apolipoprotein C1
ENSG00000128805	ARHGAP22	2.242518773	Rho GTPase activating protein 22
ENSG00000139971	ARMH4	2.174504872	armadillo-like helical domain containing 4
ENSG00000140450	ARRDC4	2.441535194	arrestin domain containing 4
ENSG00000167654	ATCAY	2.738693336	ATCAY, caytaxin
ENSG00000267281	ATF7	1.502525946	activating transcription factor 7
ENSG00000125378	BMP4	1.69373196	bone morphogenetic protein 4

ENSG00000130303	BST2	2.323798203	bone marrow stromal cell antigen 2
ENSG00000204128	C2orf72	1.762305256	chromosome 2 open reading frame 72
ENSG00000244731	C4A	2.256993208	complement C4A (Rodgers blood group)
ENSG00000233627	C4A-AS1	2.251498766	C4A antisense RNA 1
ENSG00000229776	C4B-AS1	2.251498251	C4B antisense RNA 1
ENSG00000123838	C4BPA	2.260810571	complement component 4 binding protein alpha
ENSG00000167434	CA4	2.467907325	carbonic anhydrase 4
ENSG00000007402	CACNA2D2	3.202452433	calcium voltage-gated channel auxiliary subunit alpha2delta 2
ENSG00000204682	CASC10	1.620826016	cancer susceptibility 10
ENSG00000272168	CASC15	1.516618832	cancer susceptibility 15
ENSG00000235505	CASP17P	1.566517964	caspase 17, pseudogene
ENSG00000105383	CD33	4.325270404	CD33 molecule
ENSG00000113361	CDH6	1.974390891	cadherin 6
ENSG00000205403	CFI	2.224593111	complement factor I
ENSG0000016391	CHDH	1.670815676	choline dehydrogenase
ENSG00000080644	CHRNA3	1.51109937	cholinergic receptor nicotinic alpha 3 subunit
ENSG00000160716	CHRNA2	1.673752734	cholinergic receptor nicotinic beta 2 subunit
ENSG00000134326	CMPK2	2.077095115	cytidine/uridine monophosphate kinase 2
ENSG00000119946	CNNM1	5.254651159	cyclin and CBS domain divalent metal cation transport mediator 1
ENSG00000187955	COL14A1	3.854739343	collagen type XIV alpha 1 chain
ENSG00000160111	CPAMD8	2.052001184	C3 and PZP like, alpha-2-macroglobulin domain containing 8
ENSG00000109846	CRYAB	1.783410285	crystallin alpha B
ENSG00000146038	DCDC2	2.025620559	doublecortin domain containing 2
ENSG00000166341	DCHS1	3.649517957	dachsous cadherin-related 1
ENSG00000203797	DDO	2.438540365	D-aspartate oxidase
ENSG00000175984	DENND2C	1.950651673	DENN domain containing 2C
ENSG00000162777	DENND2D	2.633573272	DENN domain containing 2D
ENSG00000100867	DHRS2	2.49176263	dehydrogenase/reductase 2
ENSG00000211448	DIO2	3.778409274	iodothyronine deiodinase 2
ENSG00000198719	DLL1	2.280151082	delta like canonical Notch ligand 1
ENSG00000108813	DLX4	1.73845664	distal-less homeobox 4
ENSG00000161249	DMKN	2.612747069	dermokine
ENSG00000176399	DMRTA1	1.89156894	DMRT like family A1
ENSG00000108176	DNAJC12	1.764988821	DnaJ heat shock protein family (Hsp40) member C12
ENSG00000272636	DOC2B	1.887570242	double C2 domain beta
ENSG00000110042	DTX4	2.00222359	deltex E3 ubiquitin ligase 4
ENSG00000206195	DUXAP8	5.462024248	double homeobox A pseudogene 8
ENSG00000225210	DUXAP9	4.47599982	double homeobox A pseudogene 9
ENSG00000164330	EBF1	1.521780981	EBF transcription factor 1

ENSG00000088881	EBF4	1.907401158	EBF family member 4
ENSG00000115468	EFHD1	2.412420969	EF-hand domain family member D1
ENSG00000090776	EFNB1	1.592375377	ephrin B1
ENSG00000129521	EGLN3	2.471333522	egl-9 family hypoxia inducible factor 3
ENSG00000255150	EID3	1.503205019	EP300 interacting inhibitor of differentiation 3
ENSG00000183798	EMILIN3	2.115591053	elastin microfibril interfacier 3
ENSG00000149218	ENDOD1	1.796242981	endonuclease domain containing 1
ENSG00000110723	EXPH5	1.581387874	exophilin 5
ENSG00000148541	FAM13C	3.445075301	family with sequence similarity 13 member C
ENSG00000231528	FAM225A	3.366294664	family with sequence similarity 225 member A
ENSG00000197872	FAM49A	5.376146607	family with sequence similarity 49 member A
ENSG00000168672	FAM84B	1.684450653	family with sequence similarity 84 member B
ENSG00000066468	FGFR2	2.130842703	fibroblast growth factor receptor 2
ENSG00000068078	FGFR3	1.579742712	fibroblast growth factor receptor 3
ENSG00000125848	FLRT3	2.359363991	fibronectin leucine rich transmembrane protein 3
ENSG00000179772	FOXS1	1.522172203	forkhead box S1
ENSG00000150893	FREM2	1.619714094	FRAS1 related extracellular matrix protein 2
ENSG00000175697	GPR156	1.983585789	G protein-coupled receptor 156
ENSG00000152402	GUCY1A2	2.277982645	guanylate cyclase 1 soluble subunit alpha 2
ENSG00000143512	HHIPL2	1.575318095	HHIP like 2
ENSG00000124610	HIST1H1A	1.713250253	histone cluster 1 H1 family member a
ENSG00000240929	HIST2H2BB	2.949068636	histone cluster 2 H2B family member b (pseudogene)
ENSG00000214922	HLA-F-AS1	1.98588527	HLA-F antisense RNA 1
ENSG00000106031	HOXA13	1.858929908	homeobox A13
ENSG00000180806	HOXC9	3.457987431	homeobox C9
ENSG00000158104	HPD	2.114728298	4-hydroxyphenylpyruvate dioxygenase
ENSG00000168453	HR	1.609404402	HR, lysine demethylase and nuclear receptor corepressor
ENSG00000185885	IFITM1	1.5650983	interferon induced transmembrane protein 1
ENSG00000103742	IGDCC4	2.565077933	immunoglobulin superfamily DCC subclass member 4
ENSG00000148798	INA	1.928314905	internexin neuronal intermediate filament protein alpha
ENSG00000145703	IQGAP2	2.585435746	IQ motif containing GTPase activating protein 2
ENSG00000016082	ISL1	8.805295588	ISL LIM homeobox 1
ENSG00000123104	ITPR2	1.589248734	inositol 1,4,5-trisphosphate receptor type 2
ENSG00000167216	KATNAL2	2.632260749	katanin catalytic subunit A1 like 2
ENSG00000107821	KAZALD1	1.606322463	Kazal type serine peptidase inhibitor domain 1
ENSG00000176595	KBTBD11	1.714191629	kelch repeat and BTB domain containing 11

ENSG00000121361	KCNJ8	1.861351116	potassium voltage-gated channel subfamily J member 8
ENSG00000162687	KCNT2	1.891171698	potassium sodium-activated channel subfamily T member 2
ENSG00000171435	KSR2	2.088628339	kinase suppressor of ras 2
ENSG00000115919	KYNU	2.626773304	kynureninase
ENSG00000125869	LAMP5	8.00250157	lysosomal associated membrane protein family member 5
ENSG00000273706	LHX1	3.069492146	LIM homeobox 1
ENSG00000106689	LHX2	2.021636565	LIM homeobox 2
ENSG00000111052	LIN7A	1.812356832	lin-7 homolog A, crumbs cell polarity complex component
ENSG00000223764	LINC02593	2.198344283	long intergenic non-protein coding RNA 2593
ENSG00000165379	LRFN5	1.620322171	leucine rich repeat and fibronectin type III domain containing 5
ENSG00000150556	LYPD6B	4.182986106	LY6/PLAUR domain containing 6B
ENSG00000187601	MAGEH1	1.964737303	MAGE family member H1
ENSG00000152939	MARVELD2	2.541414652	MARVEL domain containing 2
ENSG00000106484	MEST	2.178071159	mesoderm specific transcript
ENSG00000166482	MFAP4	2.632730155	microfibril associated protein 4
ENSG00000116990	MYCL	1.880524154	MYCL proto-oncogene, bHLH transcription factor
ENSG00000141052	MYOCD	2.935712892	myocardin
ENSG00000154654	NCAM2	1.778094671	neural cell adhesion molecule 2
ENSG00000064300	NGFR	1.517925194	nerve growth factor receptor
ENSG00000084628	NKAIN1	2.702347811	sodium/potassium transporting ATPase interacting 1
ENSG00000104967	NOVA2	2.287692452	NOVA alternative splicing regulator 2
ENSG00000113389	NPR3	1.703228397	natriuretic peptide receptor 3
ENSG00000196368	NUDT11	3.42875713	nudix hydrolase 11
ENSG00000089127	OAS1	2.036647565	2'-5'-oligoadenylate synthetase 1
ENSG00000111335	OAS2	3.445520531	2'-5'-oligoadenylate synthetase 2
ENSG00000130558	OLFM1	2.543914395	olfactomedin 1
ENSG00000089041	P2RX7	2.132740668	purinergic receptor P2X 7
ENSG00000007372	PAX6	2.78355498	paired box 6
ENSG00000156453	PCDH1	2.474464969	protocadherin 1
ENSG00000189184	PCDH18	2.023322132	protocadherin 18
ENSG00000197479	PCDHB11	2.088211962	protocadherin beta 11
ENSG00000120327	PCDHB14	1.856173495	protocadherin beta 14
ENSG00000172572	PDE3A	2.813567906	phosphodiesterase 3A
ENSG00000138735	PDE5A	1.673816237	phosphodiesterase 5A
ENSG00000113231	PDE8B	1.605860331	phosphodiesterase 8B
ENSG00000135549	PKIB	1.8537746	cAMP-dependent protein kinase inhibitor beta

ENSG00000268894	PLCE1-AS1	1.735792919	PLCE1 antisense RNA 1
ENSG00000109819	PPARGC1A	1.634813801	PPARG coactivator 1 alpha
ENSG00000156475	PPP2R2B	1.611738903	protein phosphatase 2 regulatory subunit Bbeta
ENSG00000164099	PRSS12	1.734692849	serine protease 12
ENSG00000184489	PTP4A3	1.691988544	protein tyrosine phosphatase type IVA, member 3
ENSG00000122035	RASL11A	1.642121215	RAS like family 11 member A
ENSG00000068615	REEP1	1.57995915	receptor accessory protein 1
ENSG00000178882	RFLNA	1.618194549	refilin A
ENSG00000182175	RGMA	2.162076007	repulsive guidance molecule BMP co-receptor a
ENSG00000135828	RNASEL	2.141930762	ribonuclease L
ENSG00000108309	RUNDC3A	1.676870543	RUN domain containing 3A
ENSG00000180739	S1PR5	1.904371805	sphingosine-1-phosphate receptor 5
ENSG00000187634	SAMD11	1.851289718	sterile alpha motif domain containing 11
ENSG00000203727	SAMD5	1.648288014	sterile alpha motif domain containing 5
ENSG00000169432	SCN9A	1.647541827	sodium voltage-gated channel alpha subunit 9
ENSG00000250722	SELENOP	3.82421175	selenoprotein P
ENSG00000153993	SEMA3D	1.502617479	semaphorin 3D
ENSG00000092421	SEMA6A	1.552206964	semaphorin 6A
ENSG00000137872	SEMA6D	4.348299959	semaphorin 6D
ENSG00000135917	SLC19A3	1.5873819	solute carrier family 19 member 3
ENSG00000198246	SLC29A3	1.985607806	solute carrier family 29 member 3
ENSG00000013293	SLC7A14	3.110401996	solute carrier family 7 member 14
ENSG00000118160	SLC8A2	2.207330186	solute carrier family 8 member A2
ENSG00000137571	SLCO5A1	2.570592907	solute carrier organic anion transporter family member 5A1
ENSG00000184347	SLIT3	1.580583262	slit guidance ligand 3
ENSG00000184564	SLITRK6	2.292534183	SLIT and NTRK like family member 6
ENSG00000137834	SMAD6	2.194589458	SMAD family member 6
ENSG00000064692	SNCAIP	2.36271367	synuclein alpha interacting protein
ENSG00000162804	SNED1	1.585079371	sushi, nidogen and EGF like domains 1
ENSG00000095637	SORBS1	2.150794711	sorbin and SH3 domain containing 1
ENSG00000134532	SOX5	3.48665113	SRY-box 5
ENSG00000152377	SPOCK1	1.929077759	SPARC (osteonectin), cwcv and kazal like domains proteoglycan 1
ENSG00000196220	SRGAP3	2.812733165	SLIT-ROBO Rho GTPase activating protein 3
ENSG00000263465	SRSF8	1.811135417	serine and arginine rich splicing factor 8
ENSG00000180616	SSTR2	2.280986901	somatostatin receptor 2
ENSG00000126561	STAT5A	3.324090059	signal transducer and activator of transcription 5A
ENSG00000137573	SULF1	1.75927283	sulfatase 1

ENSG00000161860	SYCE2	2.186703216	synaptonemal complex central element protein 2
ENSG00000067715	SYT1	2.003864654	synaptotagmin 1
ENSG00000019505	SYT13	6.697589635	synaptotagmin 13
ENSG00000092969	TGFB2	1.626821497	transforming growth factor beta 2
ENSG00000038295	TLL1	4.192038345	tolloid like 1
ENSG00000136404	TM6SF1	1.630764059	transmembrane 6 superfamily member 1
ENSG00000166448	TMEM130	1.906319573	transmembrane protein 130
ENSG00000165548	TMEM63C	2.830172274	transmembrane protein 63C
ENSG00000158164	TMSB15A	2.838873916	thymosin beta 15a
ENSG00000198846	TOX	1.719319293	thymocyte selection associated high mobility group box
ENSG00000009790	TRAF3IP3	2.134856223	TRAF3 interacting protein 3
ENSG00000067445	TRO	1.525528714	trophinin
ENSG00000110900	TSPAN11	2.630188384	tetraspanin 11
ENSG00000106537	TSPAN13	1.566201983	tetraspanin 13
ENSG00000180543	TSPYL5	4.230885119	TSPY like 5
ENSG00000265972	TXNIP	3.636536214	thioredoxin interacting protein
ENSG00000182040	USH1G	2.221624322	USH1 protein network component sans
ENSG00000247746	USP51	4.022077134	ubiquitin specific peptidase 51
ENSG00000110002	VWA5A	2.672650886	von Willebrand factor A domain containing 5A
ENSG00000075290	WNT8B	1.904178673	Wnt family member 8B
ENSG00000139800	ZIC5	1.790234979	Zic family member 5
ENSG00000197937	ZNF347	1.778591999	zinc finger protein 347
ENSG00000124613	ZNF391	1.928408869	zinc finger protein 391
ENSG00000197013	ZNF429	1.55858418	zinc finger protein 429
ENSG00000181444	ZNF467	2.758067157	zinc finger protein 467
ENSG00000168916	ZNF608	2.634700126	zinc finger protein 608
ENSG00000167528	ZNF641	2.166121039	zinc finger protein 641
ENSG00000160229	ZNF66	1.669039302	zinc finger protein 66
ENSG00000198046	ZNF667	1.685608926	zinc finger protein 667
ENSG00000183850	ZNF730	1.556097598	zinc finger protein 730