Table 1S. Genes in scAAV2 HTM infected cells altered more than 2-fold

Symbol	Gene name	Entrez ID	FC
GDF15	Growth differentiation factor 15	9518	5.4
GPRC5A	G protein-coupled receptorC5A	9052	3.2
AMIGO2	Adhesion molecule with Ig-like domain 2	347902	3.0
CDKN1A	Cyclin-dependent kinase inhibitor 1A	1026	2.8
H2BFS	H2B histone family, member S	54145	2.4
HIST1H2BK	Histone cluster 1, H2bk	85236	2.4
PTX3	Pentraxin-related gene 3	5806	2.4
HIST1H2AC	Histone cluster 1, H2ac	8334	2.4
CLCA2	Chloride channel, calcium activated 2	9635	2.3
FAS	Fas	355	2.1
SERPING1	Serpin peptidase inhibitor G1	710	-2.0
HGF	Hepatocyte growth factor	3082	-2.0
GAS1	Growth arrest-specific 1	2619	-2.0
IDH2	Isocitrate dehydrogenase 2	3418	-2.0
PTMA	Prothymosin, alpha	5757	-2.0
CHN1	Chimerin 1(chimaerin) 1 (CHN1), transcript variant	1123	-2.0
PLTP	Phospholipid transfer protein	5360	-2.0
EMX2	Empty spiracles homeobox 2	2018	-2.0
RNF138	Ring finger protein 138	51444	-2.1
MGC16619	Septin 6	23157	-2.1
PTMA	Prothymosin, alpha	5757	-2.1
ZWINT	ZW10 interactor	11130	-2.1
ASMTL	Acetylserotonin O-methyltransferase-like	8623	-2.1
CKAP2	Cytoskeleton associated protein 2	26586	-2.1
ATG12	ATG12 autophagy related 12 hom. (S. cerevisiae)	9140	-2.1
TFAP2B	Tanscription factor AP-2 beta	7021	-2.1
SOX11	SRY (sex determining region Y)-box 11	6664	-2.1
KCTD12	Potassium channel tetram domain 12	115207	-2.1
PDE3A	Phosphodiesterase 3A	5139	-2.1
KIF20A	Kinesin family member 20A	10112	-2.1
MXRA5	Matrix-remodelling associated 5	25878	-2.1
TPX2	TPX2	22974	-2.1
PTTG1	Pituitary tumor-transforming 1	9232	-2.1
MAN1A1	Mannosidase, alpha1A1	4121	-2.1
KLF10	Kruppel-like factor 10	7071	-2.1
IL1R1	Interleukin 1 receptor I	3554	-2.1
CD9	CD9 molecule	928	-2.2
C1orf41	Chromosome 1 open reading frame 41	51668	-2.2
PIR	Pirin	8544	-2.2
C1R	Complement component 1r	715	-2.2

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Symbol	Gene name	Entrez ID	FC
CETN3	Centrin 3	1070	-2.2
PTGER2	Prostaglandin E receptor 2	5732	-2.2
USP1	Ubiquitin specific peptidase 1	7398	-2.2
CD200	CD200 molecule	4345	-2.2
BTG1	B-cell translocation gene 1	694	-2.2
NID1	Nidogen 1	4811	-2.2
CDKN3	cyclin-dependent kinase inhibitor 3	1033	-2.2
ISG20	Interferon stimulated exonuclease 20	3669	-2.2
COL8A2	Collagen VIII, alpha 2	1296	-2.2
CDC2L6	Cell division cycle 2-like 6	23097	-2.2
GMNN	geminin, DNA replication inhibitor	51053	-2.3
AEBP1	AE binding protein 1	165	-2.3
C1orf80	Chromosome 1 open reading frame 80	64853	-2.3
AKR1C1	Aldo-keto reductase family 1, C1	1645	-2.3
NFYB	Nuclear transcription factor Y, beta	4801	-2.3
RNASE4	Ribonuclease 4	6038	-2.3
HSPA2	Heat shock 70	3306	-2.3
MFAP4	Microfibrillar-associated protein 4	4239	-2.3
LSM14A	SCD6 homolog A	26065	-2.3
RABGAP1	RAB GTPase activating protein 1	23637	-2.3
EMILIN1	Elastin microfibril interfacer 1	11117	-2.3
VEZF1	Vascular endothelial zinc finger 1	7716	-2.3
CKS1B	CDC28 protein kinase regulatory 1B	1163	-2.3
PCOLCE	Procollagen C-endopeptidase enhancer	5118	-2.3
SFRP1	Secreted frizzled-related protein 1	6422	-2.3
KIAA1199	KIAA1199	57214	-2.4
EFEMP1	EGF-containing fibulin-like ECM 1	2202	-2.4
SMC3	Structural maintenance chromosomes 3	9126	-2.4
S100A4	S100 calcium binding protein A4	6275	-2.4
AKR1C2	Aldo-keto reductase family 1, C2	1646	-2.4
PDGFRA	Platelet-derived growth factor receptor	5156	-2.4
SMC4	Structural maintenance chromosomes 4	10051	-2.4
TBL1XR1	Transducin (beta)-like 1X-linked recep1	79718	-2.4
HMMR	Hyaluronan-mediated motility receptor	3161	-2.4
HLTF	Helicase-like transcription factor	6596	-2.4
MYLK	Myosin, light chain kinase	4638	-2.4
SORBS1	Sorbin and SH3 domain containing 1	10580	-2.5
C10orf10	Chromosome 10 open reading frame 10	11067	-2.5
SOCS2	Suppressor of cytokine signaling 2	8835	-2.5
DBC1	Deleted in bladder cancer 1	1620	-2.5
CSRP2	Cysteine and glycine-rich protein 2	1466	-2.5

Table 1S. Genes in scAAV2 HTM infected cells altered more than 2-fold (cont')

Symbol	Gene name	Entrez ID	FC
SCG2	Secretogranin II	7857	-2.5
RACGAP1	Rac GTPase activating protein 1	29127	-2.5
RBPMS	RNA binding protein multiple splicing	11030	-2.5
CXCL6	Chemokine (C-X-C motif) ligand 6	6372	-2.6
MGP	Matrix Gla protein	4256	-2.6
PBK	PDZ binding kinase	55872	-2.6
TBL1X	Transducin (beta)-like 1X-linked	6907	-2.6
GLCE	Glucuronic acid epimerase	26035	-2.6
FRMD4B	FERM domain containing 4B	23150	-2.6
CDC20	Cell division cycle 20	991	-2.6
MME	Membrane metallo-endopeptidase	4311	-2.7
PTN	pleiotrophin (heparin binding growth factor 8)	5764	-2.7
SERPINF1 (PEDF)	Serpin peptidase inhibitor F 1	5176	-2.7
ASPM	Asp (abnormal spindle) homolog	259266	-2.8
FBLN1	Fibulin 1	2192	-2.8
ATP1B1	ATPase, Na+/K+ transporting beta 1	481	-2.8
KIAA0101	KIAA0101	9768	-2.9
PSIP1	PC4 and SFRS1 interacting protein 1	11168	-2.9
DLG7	Discs, large homolog 7	9787	-2.9
CCNB1	Cyclin B1	891	-3.0
AKR1C3	ldo-keto reductase 1C3	8644	-3.3
OGN	Osteoglycin	4969	-3.3
CKS2	CDC28 protein kinase regulatory 2	1164	-4.0
RRM2	ribonucleotide reductase M2 polypeptide	6241	-4.1
CDC2	Cell division cycle 2	983	-4.1
CXCL12	Chemokine (C-X-C motif) ligand 12	6387	-4.2
NUSAP1	Nucleolar and spindle associated protein 1	51203	-4.7
HMGB2	High-mobility group box 2	3148	-4.9
TOP2A	Topoisomerase (DNA) II alpha	7153	-5.4
PRC1	Protein regulator of cytokinesis 1	9055	-5.4
ASPN	Asporin	54829	-5.7