

Differentially expressed gene in chronic SIV infection		Up/down	Brass 2008	König 2008	Zhou 2008	Yeung 2009	Function
Gene symbol	full name						
AP1G2	Adaptor related protein complex 1, gamma 2 subunit	●		●			Vesicular transport
BACE2	Beta-secretase 2	●			●		Cleavage of amyloid precursor protein
BLK	B-lymphoid tyrosine kinase	●●		●			B-cell development, growth arrest and apoptosis, insulin signaling
CA2	Carbonic anhydrase II	●			●		Catalyzes reversible hydration of carbon dioxide
CD4	T cell surface glycoprotein CD4	●●	●		●		HIV attachment, immune signaling
C11ORF9	Chromosome 11 open reading frame 9, myelin gene regulatory factor	●●		●			Transcription regulator
IL1A	Interleukin-1 alpha	●			●		Immune response, inflammation
JARID1B	Jumonji, AT rich interactive domain 1 B (RBP-like), PLU-1	●				●	Transcription, H3K4 histon demethylase
KHDRBS1	Sam68, Src-associated substrate in mitosis of 68 kDa	●		●			HIV RNA export and translation
LAPTM5	Lysosomal protein transmembrane 5	●	●				Lysosomal protein
MANBA	Beta-mannosidase	●		●			Metabolism, glycosylation, glycosyl hydrosylase
NCOA3	Nuclear receptor coactivator 3	●				●	Transcriptional co-regulator
NCOR2	Nuclear receptor corepressor 2	●	●				Transcriptional co-regulator
NDUFA10	NADH dehydrogenase (Ubiquinone) 1 Alpha Subcomplex, 10	●			●		Electron transfer in mitochondria
PTPRN2	Protein tyrosine phosphatase receptor pi	●●		●			Cellular signaling, cell growth and differentiation
ST3GAL5	Sialyltransferase 9 (SIAT9)	●	●				HIV attachment, GM3 Synthetase
TNFRSF1B	Tumor necrosis factor receptor superfamily, member 1 B	●●				●	Apoptosis
XPO1	Exportin 1 (CRM1 Homolog, yeast)	●			●		RNA export
Differentially expressed gene in acute SIV infection							
ARHGEF12	Rho guanine nucleotide exchange factor 12	●	●				Cell signaling, G protein coupled receptor-dependent, Rho GTPase-dependent
OR2W1	Olfactory receptor 2W1	●●				●	Cell signaling, G protein coupled receptor-dependent
RNF170	Ring finger protein 170	●	●				E3 ubiquitin-protein ligase