

Cyclin F/FBXO1 interacts with HIV-1 Vif and restricts progeny virion infectivity by ubiquitination and proteasomal degradation of Vif through SCF^{Cyclin F} E3 ligase machinery

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Running Title: SCF^{Cyclin F} E3 ligase proteasomally degrades HIV-1 Vif

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Keywords: Human Immunodeficiency Virus (HIV), Host-Pathogen Interaction, E3 Ubiquitin Ligase, Cyclin F, F-box protein, Vif, APOBEC3G, Protein degradation, Ubiquitination, Virion infectivity

Supplemental Table 1: List of differentially modulated genes in the cell cycle PCR array

<i>Gene</i>	<i>NM_ID</i>	<i>Gene name</i>	<i>Cell cycle phase</i>	<i>Fold change</i>
<i>ANAPC2</i>	NM_013366	Anaphase promoting complex subunit 2	G1,G1-S,G2,G2-M	-2.0849
<i>ATM</i>	NM_000051	Ataxia telangiectasia mutated	Cell cycle checkpoint, cell cycle arrest and regulation	-2.6574
<i>BCCIP</i>	NM_016567	BRCA2 and CDKN1A interacting protein	G2,G2-M and cell cycle regulation	-2.0139
<i>BRCA1</i>	NM_007294	Breast cancer 1, early onset	Cell cycle checkpoint, cell cycle arrest and regulation	-2.2346
<i>CCNB1</i>	NM_031966	Cyclin B1	G2,G2-M and cell cycle regulation	-3.5064
<i>CCNB2</i>	NM_004701	Cyclin B2	M and cell cycle regulation	-2.5491
<i>CCNE1</i>	NM_001238	Cyclin E1	G1,G1-S and cell cycle regulation	-2.4794
<i>CCNF</i>	NM_001761	Cyclin F	M and cell cycle regulation	-5.5022
<i>CCNG2</i>	NM_004354	Cyclin G2	Cell cycle check point and cell cycle arrest	-2.4794
<i>CCNT1</i>	NM_001240	Cyclin T1	G2,G2-M and cell cycle regulation	-2.2974
<i>CDC16</i>	NM_003903	Cell division cycle 16 homolog (<i>S. cerevisiae</i>)	Cell cycle regulation	-2.1287
<i>CDC20</i>	NM_001255	Cell division cycle 20 homolog (<i>S. cerevisiae</i>)	M and cell cycle regulation	-3.5554
<i>CDC34</i>	NM_004359	Cell division cycle 34 homolog (<i>S. cerevisiae</i>)	G1,G1-S, cell cycle checkpoint and cell cycle arrest	-2.4284
<i>CDK4</i>	NM_000075	Cyclin-dependent kinase 4	G1,G1-S and cell cycle regulation	-2.2038
<i>CDK6</i>	NM_001259	Cyclin-dependent kinase 6	G1,G1-S and cell cycle regulation	-2.395
<i>CDKN1A</i>	NM_000389	Cyclin-dependent kinase inhibitor 1A (p21, Cip1)	Cell cycle checkpoint, cell cycle arrest and regulation	5.278
<i>CDKN1B</i>	NM_004064	Cyclin-dependent kinase inhibitor 1B (p27, Kip1)	G1,G1-S, cell cycle checkpoint, cell cycle arrest and regulation	-2.1287
<i>CDKN2A</i>	NM_000077	Cyclin-dependent kinase inhibitor 2A (melanoma, p16, inhibits CDK4)	Cell cycle check point and cell cycle arrest	-2.8679
<i>CDKN2B</i>	NM_004936	Cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	Cell cycle checkpoint, cell cycle arrest and regulation	-2.1735
<i>CDKN3</i>	NM_005192	Cyclin-dependent kinase inhibitor 3	G1,G1-S,G2,G2-M, cell cycle check point and cell cycle arrest	-2.1435
<i>CKS2</i>	NM_001827	CDC28 protein kinase regulatory subunit 2	G2 and G2-M	-2.0562
<i>CUL3</i>	NM_003590	Cullin 3	G1, G1-S, cell cycle check point and cell cycle arrest	-5.4264
<i>DNM2</i>	NM_004945	Dynamin 2	G2, G2-M	-3.1383
<i>GADD45A</i>	NM_001924	Growth arrest and DNA-damage-inducible, alpha	Cell cycle checkpoint, cell cycle arrest and regulation	3.2716

<i>GTSE1</i>	NM_016426	G-2 and S-phase expressed 1	G2,G2-M	-2.395
<i>HERC5</i>	NM_016323	Hect domain and RLD 5	G2,G2-M	20.6776
<i>HUS1</i>	NM_004507	HUS1 checkpoint homolog (<i>S. pombe</i>)	Cell cycle check point and cell cycle arrest	-2.4623
<i>KNTC1</i>	NM_014708	Kinetochore associated 1	Cell cycle check point, cell cycle arrest and regulation	-2.2501
<i>KPNA2</i>	NM_002266	Karyopherin alpha 2 (RAG cohort 1, importin alpha 1)	G2,G2-M	-2.8284
<i>MAD2L1</i>	NM_002358	MAD2 mitotic arrest deficient-like 1 (yeast)	Cell cycle check point and cell cycle arrest	-2.0994
<i>MCM2</i>	NM_004526	Minichromosome maintenance complex component 2	S and DNA replication	-2.3784
<i>MCM3</i>	NM_002388	Minichromosome maintenance complex component 3	S and DNA replication	-2.2658
<i>MCM4</i>	NM_005914	Minichromosome maintenance complex component 4	S and DNA replication	-2.8089
<i>MCM5</i>	NM_006739	Minichromosome maintenance complex component 5	S and DNA replication	-2.514
<i>MKI67</i>	NM_002417	Antigen identified by monoclonal antibody Ki-67	Cell cycle regulation	-3.6553
<i>MRE11A</i>	NM_005590	MRE11 meiotic recombination 11 homolog A (<i>S. cerevisiae</i>)	M	-3.7064
<i>RAD1</i>	NM_002853	RAD1 homolog (<i>S. pombe</i>)	Cell cycle check point and cell cycle arrest	-2.5315
<i>RBL1</i>	NM_002895	Retinoblastoma-like 1 (p107)	Cell cycle regulation	-2.3784
<i>SKP2</i>	NM_005983	S-phase kinase-associated protein 2 (p45)	G1,G1-S and cell cycle regulation	-2.7702
<i>TFDP1</i>	NM_007111	Transcription factor Dp-1	Cell cycle regulation	-3.1602
<i>TP53</i>	NM_000546	Tumor protein p53	Cell cycle regulation	-3.6301

Supplemental Table 1: List of cell cycle associated genes that were modulated in primary CD4⁺ T cells with HIV-1 infection. Among the 84 genes in the PCR array, the table lists 41 genes which exhibited modulation of more than 2-fold with HIV-1 infection. The complete list of genes in the array is available at http://www.sabiosciences.com/rt_pcr_product/HTML/PAHS-020Z.html. (There are few changes in the gene list as compared to PAHS-020A, which has been used in the present work).