

Supplementary Table 2. mRNAs strongly increased in KSHV-infected EAHY cells compared to control EAHY cells

Gene name	Probe name	Accession number	Fold increase
<i>Cell motility and adhesion</i>			
CD44 molecule (Indian blood group)	210916_s_at	AF098641	1.580767632
CD58 molecule	216942_s_at	D28586	1.875047684
chemokine (C-C motif) ligand 2 (CCL2)	216598_s_at	S69738	2.395838737
activated leukocyte cell adhesion molecule (ALCAM)	1569362_at	BC041127	1.677948475
protocadherin 9 (PCDH9)	219737_s_at	AI524125	1.557688713
secreted phosphoprotein 1 (SPP1)	209875_s_at	M83248	1.786622047
RAP1A, member of Ras oncology family	1555340	AB051846	5.824960709
CALMODULIN 1; CALM1	213710_s_at	AL523275	2.893037319
RAB28, member RAS oncogene family	207495_at	NM_004249	2.133603573
B-cell CLL/lymphoma 6	215990_s_at	S67779	1.712933302
ARP2 actin-related protein 2 homolog (yeast) (ACTR2)	1558015_s_at	BU175810	1.59079504
Shwachman-Bodian-Diamond syndrome (SBDS)	1554089_s_at	BC010183	1.733651161
brain-derived neurotrophic factor	1567576_at	AJ011601	1.907011986
interleukin 8	211506_s_at	AF043337	2.617774487
phosphatase and actin regulator 2	242277_at	AW880875	2.693649292
<i>Blood vessel morphogenesis and response to extracellular stimulus</i>			
jagged 1 (Alagille syndrome)	209098_s_at	U61276	1.543495178
lysyl oxidase (LOX)	204298_s_at	NM_002317	1.729251385
SEMA3C/semaphorin E	240815_at	R62588	1.508541107
fumarate hydratase	203032_s_at	AI363836	2.250221729
tissue factor pathway inhibitor 2 (TFPI2)	209278_s_at	L27624	2.37107563
dimethylarginine dimethylaminohydrolase 1	229456_s_at	AI885718	1.973454475
angiopoietin-like 4	221009_s_at	NM_016109	1.644925594
interleukin 1, alpha	210118_s_at	M15329	1.892724514
secreted phosphoprotein 1	209875_s_at	M83248	1.786622047
serpin peptidase inhibitor, clade D (heparin cofactor), member 1	205576_at	NM_000185	2.220750332
tissue factor pathway inhibitor 2	209278_s_at	L27624	2.37107563
SERPIND1 (heparin cofactor)	205576_at	NM_000185	2.220750332
latexin	218729_at	NM_020169	1.979252815
DEAH (Asp-Glu-Ala-His) box polypeptide 9	212105_s_at	BF313832	1.737301826
<i>Vesicle-mediated transport/ endocytosis</i>			
KDEL endoplasmic reticulum protein retention receptor 3	207265_s_at	NM_016657	1.540021896
RAB1A, member RAS oncogene family	207791_s_at	NM_004161	1.899801254
RAB5A, member RAS oncogene family	206113_s_at	NM_004162	1.793576241
SAR1 homolog B (S. cerevisiae)	1554482_a_at	BC002847	1.724488735
Yip1 domain family, member 5	221423_s_at	NM_030799	2.017230988
adaptor-related protein complex 1, sigma 1 subunit	205196_s_at	NM_001283	1.818533421
adaptor-related protein complex 1, sigma 3 subunit	1555731_a_at	AF393369	2.075985909
general transcription factor IIH, polypeptide 2, 44kDa	223758_s_at	BC005345	1.670550346
phosphatidylinositol binding clathrin assembly protein	215236_s_at	AV721177	1.77149868
syntaphilin; RAD21-like 1 (S. pombe)	215917_at	AL049037	2.375664949
transmembrane emp24 domain trafficking protein 2	204426_at	NM_006815	1.901469231
UEV and lactate/malate dehydrogenase domains	1554397_s_at	BC011011	1.583363056
nucleoporin 43kDa	238474_at	BF978064	1.625408173
tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polyI	200641_s_at	U28964	1.556890488
transferrin receptor (p90, CD71)	237215_s_at	N76327	1.654712677
RAB5A, member RAS oncogene family	206113_s_at	NM_004162	1.793576241
RAB1A, member RAS oncogene family	207791_s_at	NM_004161	1.899801254
SAR1 homolog B (S. cerevisiae)	1554482_a_at	BC002847	1.724488735
Yip1 domain family, member 5	221423_s_at	NM_030799	2.017230988
regulating synaptic membrane exocytosis 1	231986_at	AL035633	1.615116596
adaptor-related protein complex 1, sigma 3 subunit	1555733_s_at	AI733120	1.509372711

KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3	207265_s_at	NM_004089	1.540021896
---	-------------	-----------	-------------

Cell cycle and apoptosis

cyclin-dependent kinase 6	224848_at	AA922068	1.744069576
MAD2 mitotic arrest deficient-like 1 (yeast)	1554768_a_at	AF394735	2.229515076
Shwachman-Bodian-Diamond syndrome pseudogene; Shwachman-Bodian-Diamond syndrome	1554089_s_at	BC010183	1.733651161
cell division cycle 25 homolog C (S. pombe)	217010_s_at	AF277724	1.616303921
Protein activator of interferon-induced protein kinase (PRKRA)	209535_s_at	AF127481	3.031997681
Fas (TNF receptor superfamily, member 6)	216252_x_at	Z70519	2.986958027
brain-derived neurotrophic factor	1567576_at	AJ011601	1.907011986
intraflagellar transport 57 homolog (Chlamydomonas) IFT57	222519_s_at	AW243004	1.927865982
prion protein (PRNP)	215707_s_at	AV725328	2.791326046
tryptophan 2,3-dioxygenase (TDO2)	205943_at	NM_005651	1.797998428
killer cell lectin-like receptor subfamily C, member 1	206785_s_at	NM_002260	1.299107552
kynureninase (L-kynurenine hydrolase) (KYNU)	210663_s_at	BC000879	2.254005909
heat shock 70kDa protein 4	211016_x_at	BC002526	2.700293064
ring finger protein 146	221430_s_at	NM_030963	1.631977081
non-ocogenic Rho GTPase-specific GTP exchange factor (proto-LBC)	209535_s_at	AF127481	3.031997681
DnaJ (Hsp40) homolog, subfamily B, member 6	208811_s_at	AF080569	1.682436943
S-phase kinase-associated protein 2 (p45)	210567_s_at	R62588	1.51051569
cAMP responsive element binding protein 1	214513_s_at	M34356	1.607315063
platelet-activating factor acetylhydrolase 2, 40kDa	205232_s_at	U89386	1.765367985
protein kinase C, epsilon	206248_at	NM_005400	1.851600409
sphingomyelin phosphodiesterase 1, acid lysosomal	216230_x_at	T87628	1.535413742

Metabolic process and response to vitamin

glutaminase	203158_s_at		1.501783371
tryptophan 2,3-dioxygenase	205943_at	NM_005651	1.797998428
nicotinamide nucleotide adenylyltransferase 2	1552712_a_at	NM_170706	1.592157364
kynureninase	204385_at	NM_003937	1.741473675
kynureninase	210663_s_at	BC000879	2.254005909
secreted phosphoprotein 1	209875_s_at	M83248	1.786622047

Chromatin organization and remodeling

H2B histone family, member S	208579_x_at	NM_017445	2.548411369
histone cluster 1, H2bd	222067_x_at	AL353759	3.049294949
histone cluster 1, H2bh	208546_x_at	NM_003524	2.375710964
histone cluster 1, H2bk	209806_at	BC000893	2.060342789
histone cluster 2	214290_s_at	AI313324	2.732040882
TOB1	228834_at	BF240286	2.684646606
RNA polymerase II associated protein 3	1557984_s_at	BI464019	2.144767046
histone cluster 1, H2bi	208523_x_at	NM_003525	2.978664875
histone cluster 1, H2bf	208490_x_at	NM_003522	2.218726635
histone cluster 1, H2be	208527_x_at	NM_003523	1.63138628
histone cluster 1, H2bc	236193_at	M59917	1.536130905

Others

ethanolamine kinase 1	231576_at	AA829940	5.162767887
transmembrane protein 171	1553559_at	NM_173490	3.072429657
aldo-keto reductase family 1, member B10 (aldose reductase)	206561_s_at	NM_020299	2.893490314
calmodulin 1 (phosphorylase kinase, delta)	213710_s_at	AL523275	2.893037319
zinc finger, MYM-type 6	219924_s_at	NM_007167	2.890113831
phosphatidylinositol-5-phosphate 4-kinase, type II, alpha	229713_at	AW665227	2.822396755
chromosome 6 open reading frame 62	213872_at	BE465032	2.755631924
	214290_s_at	AI313324	2.732040882
	216532_x_at	AL138831	2.71282196
BDNF antisense RNA 1 (non-protein coding)	1567361_at	AJ011597	2.707798958
nuclear mitotic apparatus protein 1	235539_at	AW964431	2.007542372
	242277_at	AW880875	2.693649292

transducer of ERBB2, 1	228834_at	BF240286	2.684646606
chromosome 20 open reading frame 30	220477_s_at	NM_014145	2.586615562
serine palmitoyltransferase, long chain base subunit 1	202278_s_at	NM_006415	2.525467873
hypothetical LOC79015	1556117_at	AK090842	2.468057632
regulator of G-protein signaling 5	1555725_a_at	AF493929	2.463273525
UDP-glucose glycoprotein glucosyltransferase 2	1555561_a_at	BC032302	2.440597296
short coiled-coil protein	223341_s_at	AF330205	2.393260002
forkhead box D1	206307_s_at	NM_004472	2.364584923
succinate dehydrogenase complex, subunit C, integral membrane protein, 15kDa	216591_s_at	AF080579	2.232882977
	230921_s_at	BE467612	2.225675106
interferon-induced protein with tetratricopeptide repeats 1	203153_at	NM_001548	2.206090927
	220494_s_at	NM_018678	2.199841022
ankyrin repeat domain 10	227260_at	AV724266	2.199075699
	214693_x_at	BE732345	2.163346291
	1557261_at	AK091254	2.162014484
MEI5 meiotic recombination protein homolog (<i>S. cerevisiae</i>)	238794_at	N23586	2.154047966
RNA polymerase II associated protein 3	1557984_s_at	BI464019	2.144767046
pleckstrin homology domain containing, family A (phosphoinositide binding specific) mc	227658_s_at	BE550332	2.137813091
FCF1 small subunit (SSU) processome component homolog (<i>S. cerevisiae</i>)	219927_at	NM_015962	2.135500431
	242134_at	AI733194	2.107983112
TMEM9 domain family, member B	222507_s_at	AI188389	2.10695219
tetraspanin 1	209114_at	AF133425	2.08163023
paraspeckle component 1	222611_s_at	AA969958	2.076714516
adaptor-related protein complex 1, sigma 3 subunit	1555731_a_at	AF393369	2.075985909
insulin-like growth factor 2 mRNA binding protein 3	216493_s_at	AL023775	2.073171139
	242312_x_at	AV736963	2.071211815
proline rich 16	1554867_a_at	BC038838	2.070923328
spectrin repeat containing, nuclear envelope 1	232027_at	AL049548	2.069283009
coiled-coil domain containing 21	219611_s_at	NM_022778	2.067591667
hexokinase domain containing 1	227614_at	W81116	2.055069447
2'-5'-oligoadenylate synthetase-like	210797_s_at	AF063612	2.016457081
dihydropyrimidine dehydrogenase	1554534_at	BC008379	2.014626026
	230333_at	BE326919	2.014001608
nuclear mitotic apparatus protein 1	235539_at	AW964431	2.007542372
early lymphoid activation protein	217050_at	L22650	1.999000072
FK506 binding protein 15, 133kDa	76897_s_at	AA628140	1.985276222
latexin	218729_at	NM_020169	1.979252815
bromodomain containing 8	210352_at	AL136823	1.976614475
ring finger protein 144B	239704_at	BE274992	1.949401855
solute carrier family 25, member 37	218978_s_at	NM_018586	1.946676254
chromosome 13 open reading frame 38	1570153_at	BC013944	1.939256668
keratin 15	204734_at	NM_002275	1.930306911
intraflagellar transport 57 homolog (<i>Chlamydomonas</i>)	222519_s_at	AW243004	1.927865982
Lyr7 homolog (mouse)	239960_x_at	AW303539	1.917886734
keratin associated protein 2-4-like	1555673_at	BC012486	1.916957855
chromosome 7 open reading frame 64	232661_s_at	AF161422	1.914846182
	1567576_at	AJ011601	1.907011986
sigma non-opioid intracellular receptor 1	214484_s_at	AF226604	1.906096935
chromosome 3 open reading frame 23	241666_at	BG493222	1.903503895
	238919_at	R49295	1.902494431
transmembrane emp24 domain trafficking protein 2	204426_at	NM_006815	1.901469231
chromodomain helicase DNA binding protein 9	235388_at	BG538482	1.88559103
RNA binding motif protein 34	214943_s_at	D38491	1.883133411
CD58 molecule	216942_s_at	D28586	1.875047684
RAD21-like 1 (<i>S. pombe</i>)	234662_at	AL031665	1.872525215
	229190_at	BF672306	1.869894266
chromosome 18 open reading frame 54	241733_at	AA019836	1.862171888
integrator complex subunit 4	1569253_at	BC018672	1.847636938
mediator complex subunit 23	242706_s_at	AW959449	1.844743252
	222227_at	AK000847	1.843782425
chromosome 4 open reading frame 33	1552370_at	NM_173487	1.843258142
	229733_s_at	N54506	1.84042263

flotillin 1	208748_s_at	AA507012	1.840091705
ER degradation enhancer, mannosidase alpha-like 1	230659_at	AW139300	1.820500374
3'-phosphoadenosine 5'-phosphosulfate synthase 2	203059_s_at	NM_004670	1.819494724
adaptor-related protein complex 1, sigma 1 subunit	205196_s_at	NM_001283	1.818533421
solute carrier family 39 (zinc transporter), member 8	219869_s_at	NM_022154	1.813996792
ankyrin repeat domain 55	240456_at	AA459699	1.811067104
cAMP-regulated phosphoprotein, 19kDa	214553_s_at	NM_006628	1.810531616
crystallin, zeta (quinone reductase)-like 1	1554767_s_at	BC013155	1.803549767
apolipoprotein O-like	213289_at	BE221922	1.801337242
chromosome 14 open reading frame 34	1555786_s_at	BC008034	1.776535511
metal-regulatory transcription factor 1	205322_s_at	AW182367	1.775620937
stress-associated endoplasmic reticulum protein 1	235475_at	AI580135	1.775469065
	216822_x_at	AL359763	1.774469376
phosphatidylinositol binding clathrin assembly protein	215236_s_at	AV721177	1.77149868
interferon-induced protein with tetratricopeptide repeats 2	226757_at	AA131041	1.769524097
epithelial cell adhesion molecule	201839_s_at	NM_002354	1.765191555
ring finger protein 7	224394_at	AF312226	1.761957645
	234153_at	AK024662	1.754292488
chromosome 3 open reading frame 34	1553158_at	AY099509	1.748605013
cyclin-dependent kinase 6	224848_at	AA922068	1.744069576
potassium inwardly-rectifying channel, subfamily J, member 2	231513_at	BF111326	1.741294861
O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypep-	229787_s_at	AI742039	1.738970757
cyclin I	227299_at	AA020986	1.735003471
SH3-domain GRB2-like (endophilin) interacting protein 1	223672_at	AL136561	1.733400822
lysyl oxidase	204298_s_at	NM_002317	1.729251385
EF-hand calcium binding domain 4A	227429_at	AI683694	1.727543354
mitochondrial poly(A) polymerase	229676_at	AA400998	1.709447384
asparagine-linked glycosylation 13 homolog (<i>S. cerevisiae</i>)	219015_s_at	NM_018466	1.703677177
mitogen-activated protein kinase 1 interacting protein 1-like	212497_at	AI554879	1.70242691
	231274_s_at	R92925	1.698338985
abhydrolase domain containing 6	221679_s_at	AF225418	1.695328712
SPANX family, member C	220217_x_at	NM_022661	1.688354969
ADP-ribosylation factor-like 6	223735_at	AL136815	1.684102535
activated leukocyte cell adhesion molecule	1569362_at	BC041127	1.677948475
synovial sarcoma translocation, chromosome 18	216684_s_at	AF257501	1.675770521
secernin 3	1555595_at	BC007344	1.674146175
	230279_at	AA031934	1.674084663
phosphatidylinositol-4-phosphate 5-kinase, type I, alpha	207391_s_at	NM_003557	1.671560287
general transcription factor IIH, polypeptide 2, 44kDa	223758_s_at	BC005345	1.670550346
zinc finger protein 883	230876_at	AI827906	1.670517206
inositol 1,4,5-triphosphate receptor, type 1	211323_s_at	L38019	1.667888641
La ribonucleoprotein domain family, member 4B	228196_s_at	BE974210	1.664564133
	243495_s_at	AL036450	1.663213253
ataxin 7-like 1	214343_s_at	AI017382	1.662703991
phosphodiesterase 8A	1552931_a_at	NM_002605	1.656537533
UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 1:	218885_s_at	NM_024642	1.655964613
transformer 2 beta homolog (<i>Drosophila</i>)	210180_s_at	U87836	1.642090321
chromosome 1 open reading frame 97	224443_at	BC005997	1.641530991
Rap guanine nucleotide exchange factor (GEF) 2	215992_s_at	AL117397	1.638635397
biliverdin reductase A	203771_s_at	AA740186	1.636269093
sprouty-related, EVH1 domain containing 2	212458_at	H97931	1.635700703
chromosome 15 open reading frame 41	232506_s_at	AK026504	1.635686874
suppressor of Ty 16 homolog (<i>S. cerevisiae</i>)	233827_s_at	AK024072	1.634758472
dehydrogenase/reductase (SDR family) member 9	223952_x_at	AF240698	1.633921623
zinc finger, FYVE domain containing 21	219929_s_at	NM_024071	1.626483917
translocase of inner mitochondrial membrane 17 homolog A (yeast)	201821_s_at	BC004439	1.626123428
essential meiotic endonuclease 1 homolog 2 (<i>S. pombe</i>)	1569868_s_at	BC041011	1.620802879
dehydrogenase/reductase (SDR family) member 9	224009_x_at	AF240697	1.617016792
leucine, glutamate and lysine rich 1	1564653_s_at	AK094480	1.615522385
hypothetical LOC149773	1559433_at	AK091704	1.613790989
zinc finger, CCHC domain containing 9	225538_at	BE539792	1.611884594
CDV3 homolog (mouse)	228746_s_at	AV646549	1.610747337

Rho guanine nucleotide exchange factor (GEF) 26	222121_at	AU118383	1.609572887
hypothetical LOC100130938	230574_at	AW139393	1.608726501
Yes-associated protein 1	224895_at	AA557632	1.605914116
apolipoprotein O	221620_s_at	AF061264	1.603930473
laminin, gamma 2	207517_at	NM_018891	1.600670576
solute carrier family 7 (cationic amino acid transporter, y+ system), member 2	225516_at	AA876372	1.599545956
methyltransferase like 3	213653_at	AW069290	1.598343372
PHD finger protein 20	1569906_s_at	BC015538	1.595961571
origin recognition complex, subunit 5	211212_s_at	AF081459	1.595041275
	1566825_at	AK055572	1.594863415
forkhead box K2	242938_s_at	AV763408	1.593951464
ADAM metalloproteinase with thrombospondin type 1 motif, 1	222486_s_at	AF060152	1.591735363
ARP2 actin-related protein 2 homolog (yeast)	1558015_s_at	BU175810	1.590795504
	227364_at	AW084125	1.590445042
mitochondrial ribosomal protein S12	210008_s_at	AA513737	1.589569569
CD44 molecule (Indian blood group)	1557905_s_at	AL552534	1.588348389
nuclear factor I/B	230291_s_at	T90642	1.587255478
vacuole membrane protein 1	1569003_at	AL541655	1.587133408
ventricular zone expressed PH domain homolog 1 (zebrafish)	229759_s_at	AA988323	1.586807728
cAMP responsive element modulator	207630_s_at	NM_001881	1.585535526
	228799_at	AA058941	1.581040382
	1568817_at	BC020585	1.576084614
	218280_x_at	NM_003516	1.570718288
fused in sarcoma	217370_x_at	S75762	1.561799049
lactamase, beta 2	222714_s_at	BC000878	1.560983658
hypothetical LOC440862	1557372_at	AF086285	1.560931683
cofilin 2 (muscle)	233496_s_at	AV726166	1.559455872
protocadherin 9	219737_s_at	AI524125	1.557688713
transmembrane protein 120B	219154_at	NM_024714	1.556560004
essential meiotic endonuclease 1 homolog 2 (S. pombe)	1569867_at	NM_002227	1.556515694
Janus kinase 1	1552610_a_at	AA758861	1.5556283
pleckstrin homology domain containing, family A member 7	228450_at	BF982733	1.554908276
similar to FLJ16518 protein	238511_at	AI458583	1.553994894
STT3, subunit of the oligosaccharyltransferase complex, homolog B (S. cerevisiae)	231285_at	AI638611	1.553153038
STAM binding protein-like 1	227606_s_at	AI697657	1.549714088
acidic (leucine-rich) nuclear phosphoprotein 32 family, member E	229128_s_at	AW275016	1.545937061
zinc finger protein 684	232563_at	NM_021963	1.545316696
nucleosome assembly protein 1-like 2	219368_at	U61276	1.544781923
TSC22 domain family, member 3	207001_x_at	AA037483	1.539991856
RAP2B, member of RAS oncogene family	227897_at	NM_004079	1.530656338
cathepsin S	202902_s_at	AA931539	1.525058746
	239302_s_at	NM_002867	1.523269653
RAB3B, member RAS oncogene family	205925_s_at	NM_018604	1.522576332
WW domain containing adaptor with coiled-coil	219679_s_at	NM_025217	1.520307541
UL16 binding protein 2	221291_at	BE551139	1.517930984
cell cycle associated protein 1	226289_at	AF327066	1.517369747
	211825_s_at	BE222078	1.516911983
	229363_at	BC001305	1.516488552
ELOVL family member 6, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like)	210868_s_at	AF044076	1.511482954
inhibitor of growth family, member 1	210350_x_at	BC001441	1.510600567
	240815_at	NM_017813	1.508541107
ADAM metalloproteinase with thrombospondin type 1 motif, 18	230040_at	BC017833	1.507002831
inositol monophosphatase domain containing 1	218516_s_at	AF097493	1.504263878
primase, DNA, polypeptide 2 (58kDa)	1554885_a_at		1.50263834

The results are expressed as fold increase reflecting KSHV-infected EAHY minus control EAHY mRNA expression levels; pool of 3 independent culture experiments.