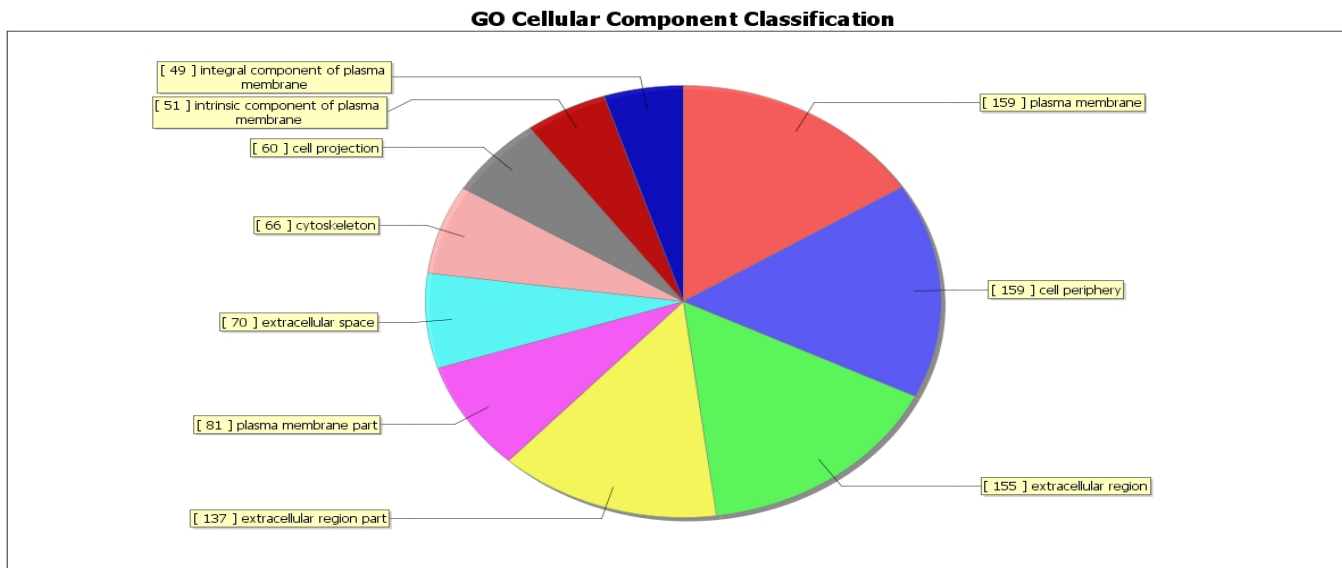
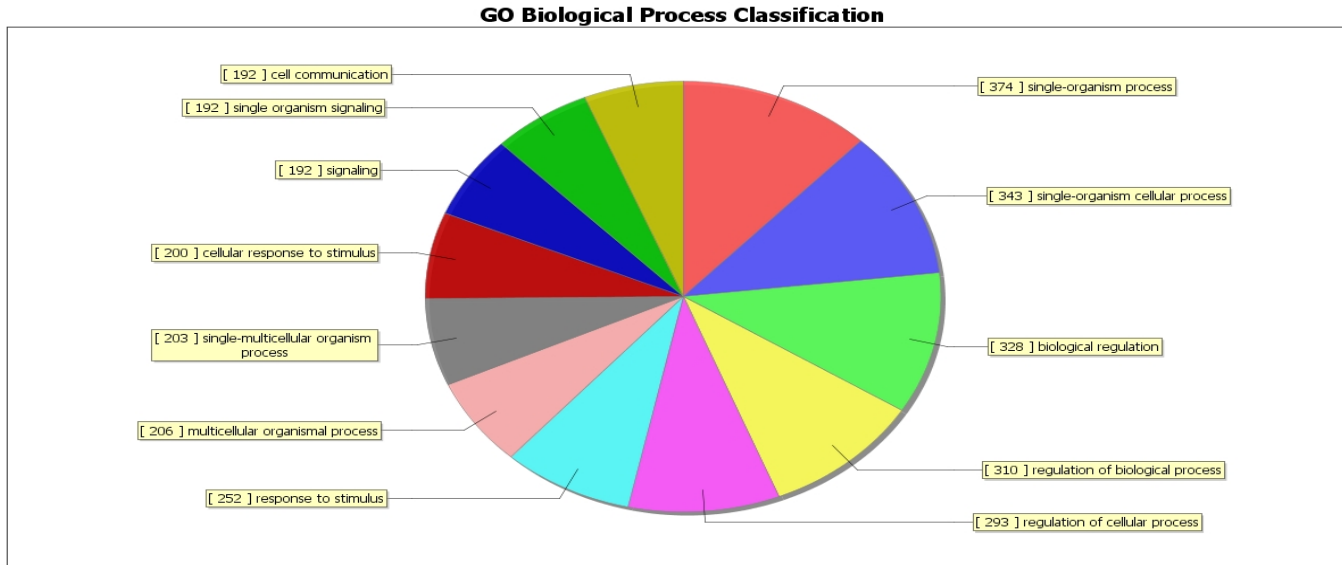


Gene-expression reversal of lncRNAs and associated mRNAs expression in active vs latent HIV infection

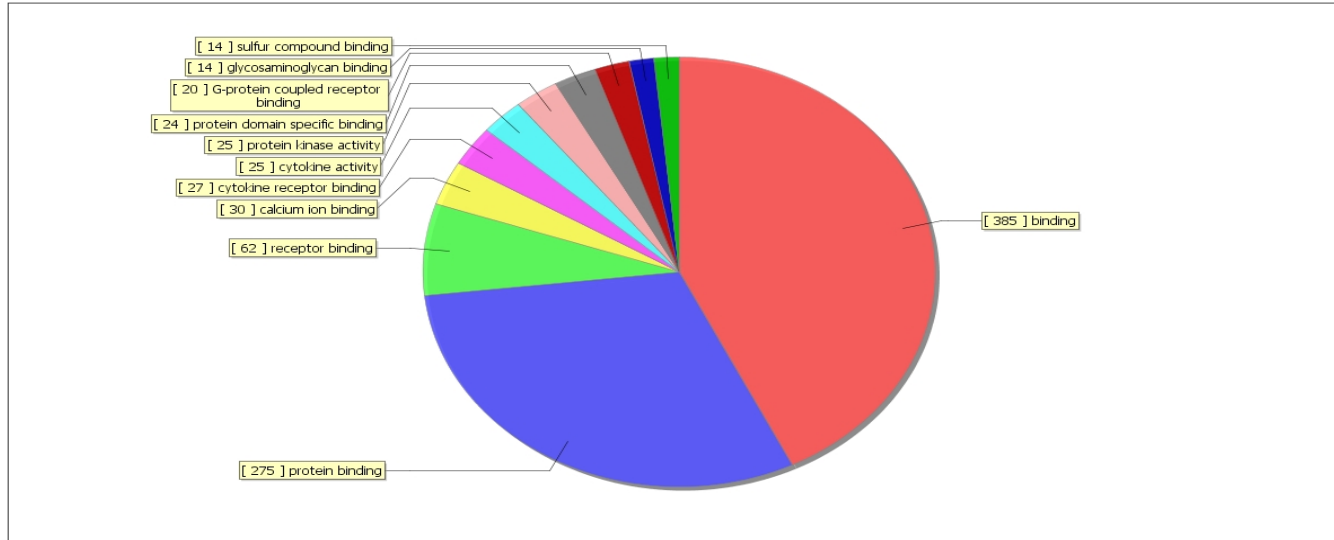
Madhavan Nair, Vidya Sagar and Sudheesh Pilakka-Kanthikeel

Supplementary Figure 1:

A) Most highly enriched GO terms for the up-regulated mRNAs: Uninfected control vs Active Infection

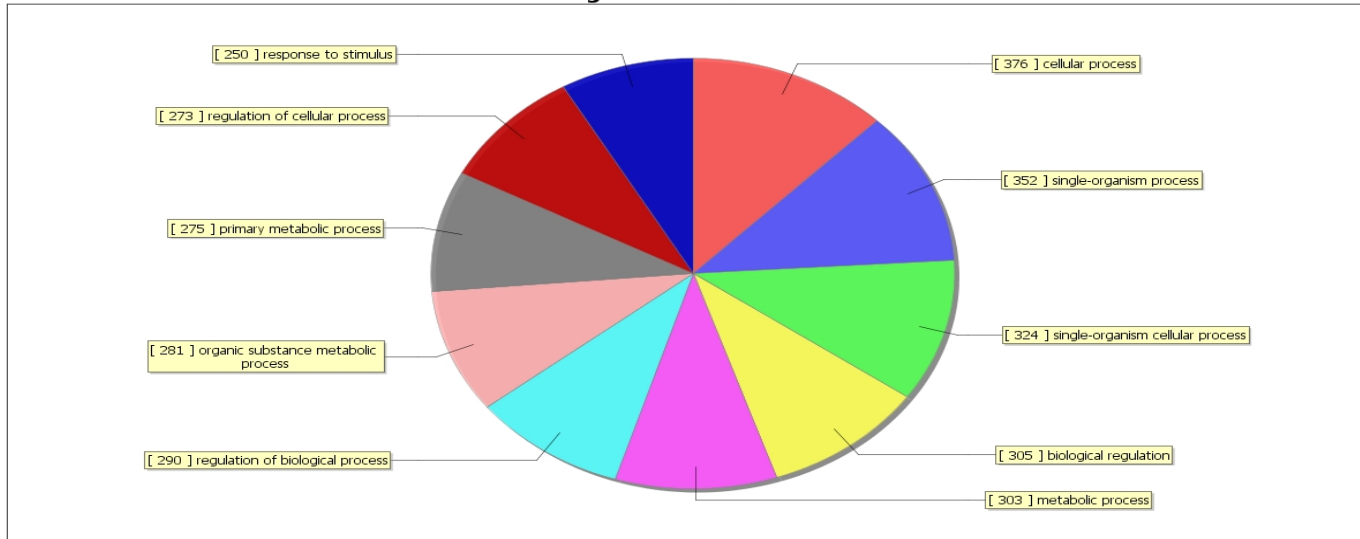


GO Molecular Function Classification

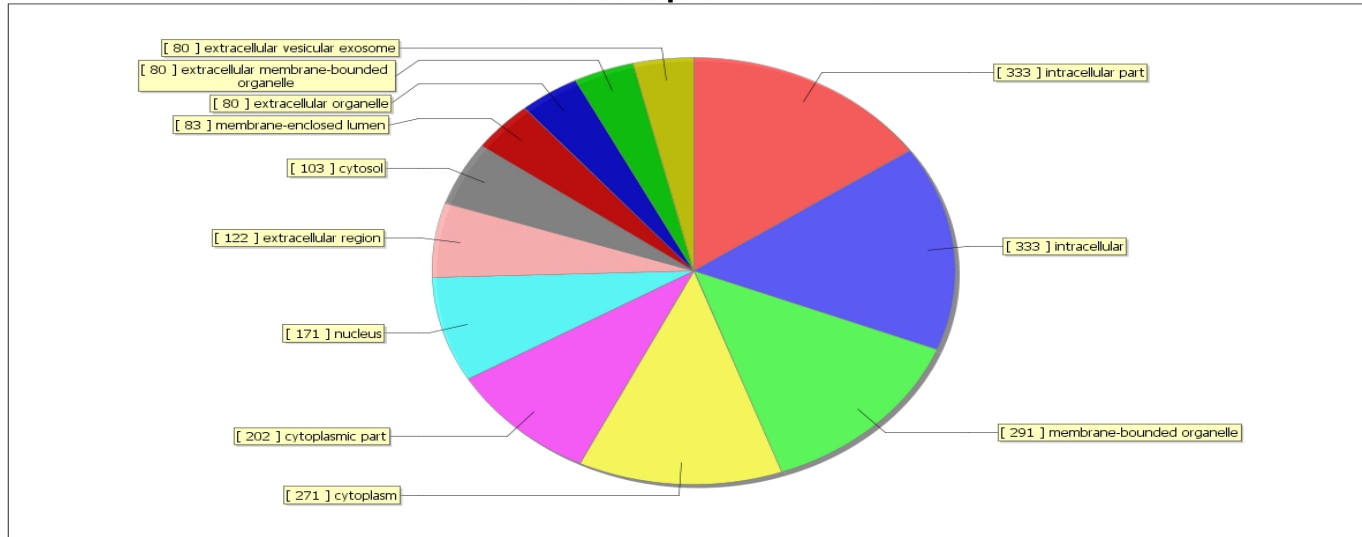


B) Most highly enriched GO terms for the down-regulated mRNAs: Uninfected control vs Active Infection

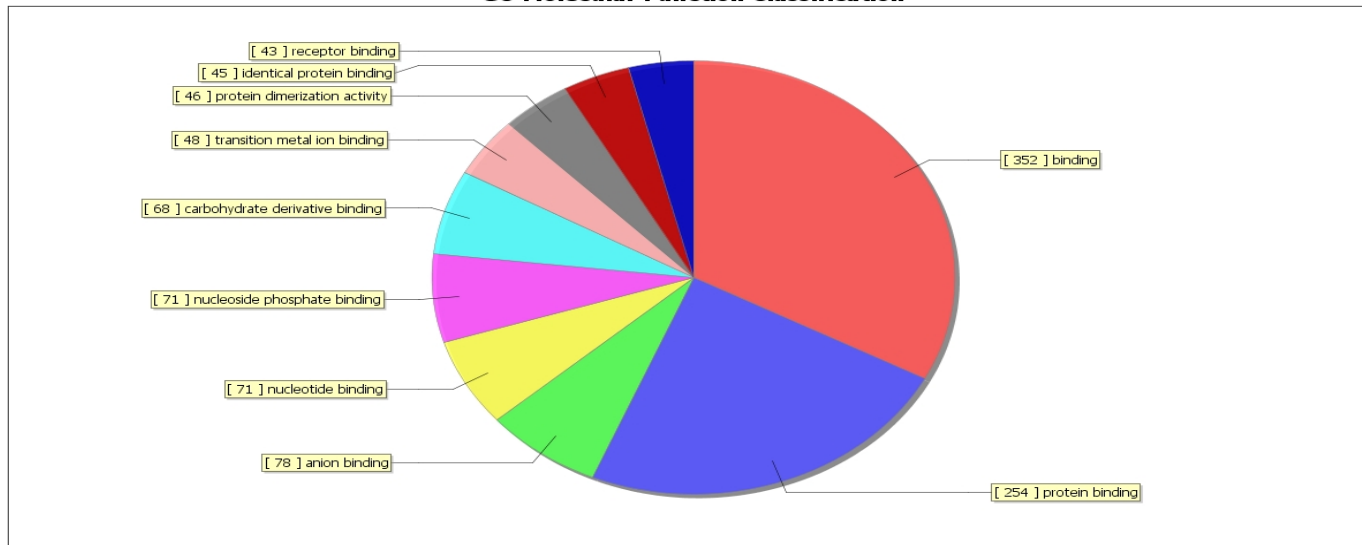
GO Biological Process Classification



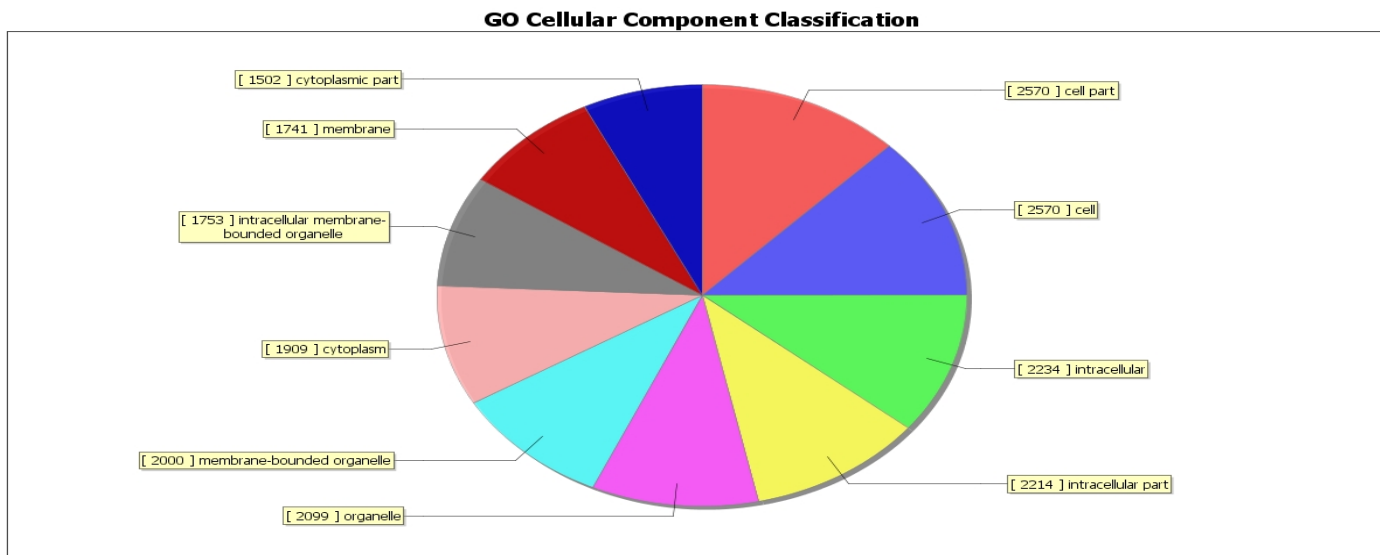
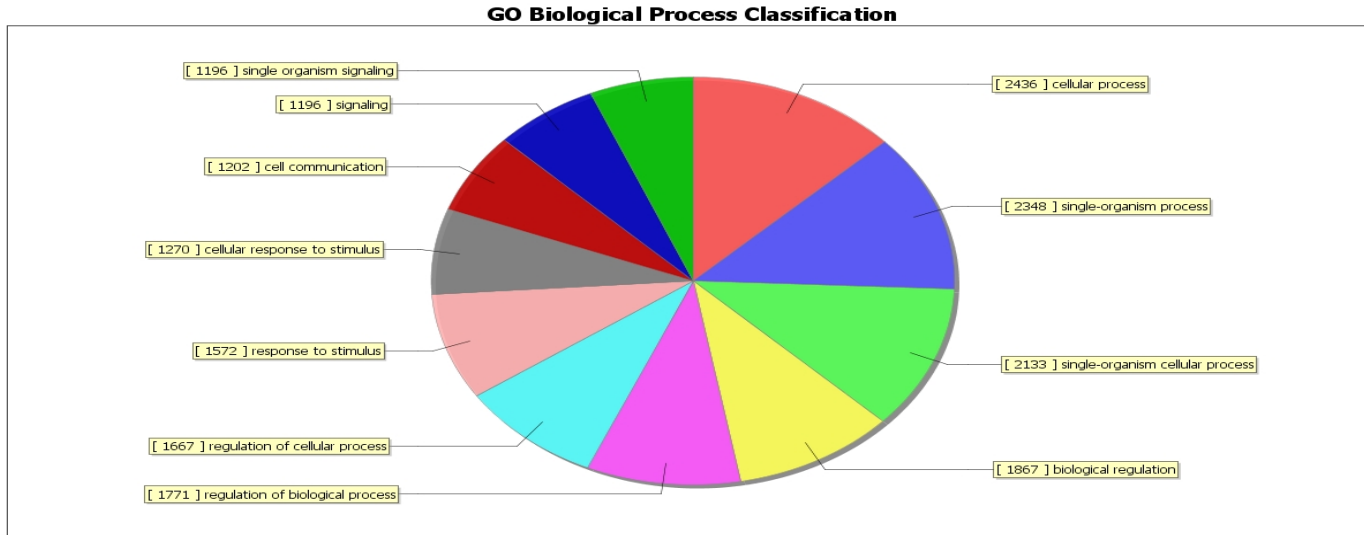
GO Cellular Component Classification



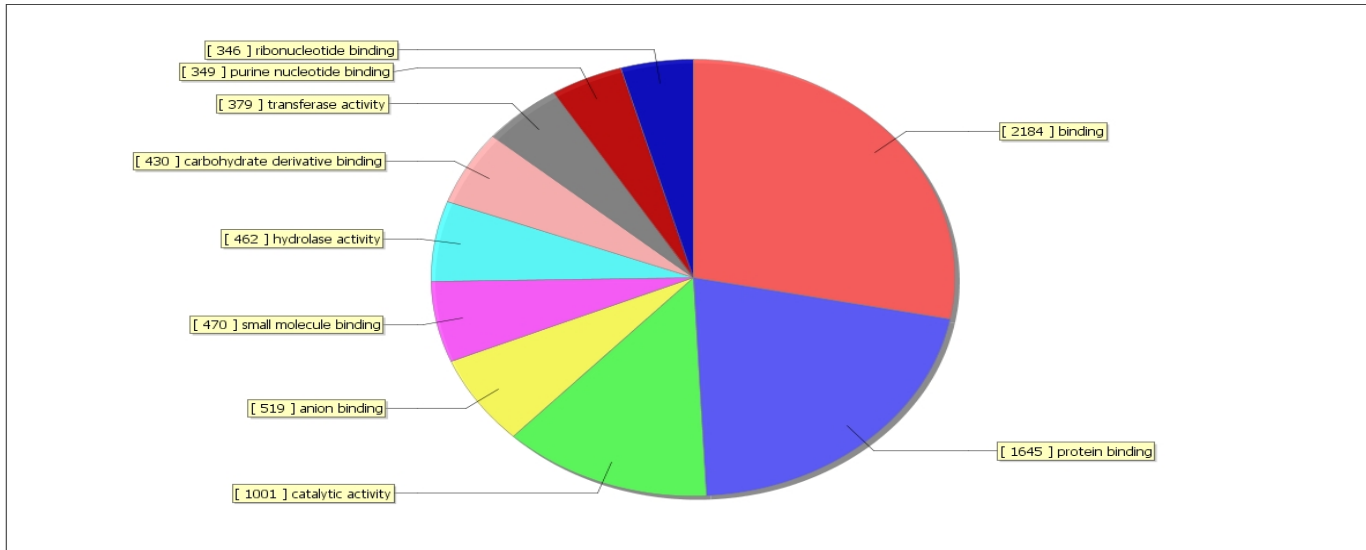
GO Molecular Function Classification



C) Most highly enriched GO terms for the up-regulated mRNAs: Uninfected control vs Latent Infection

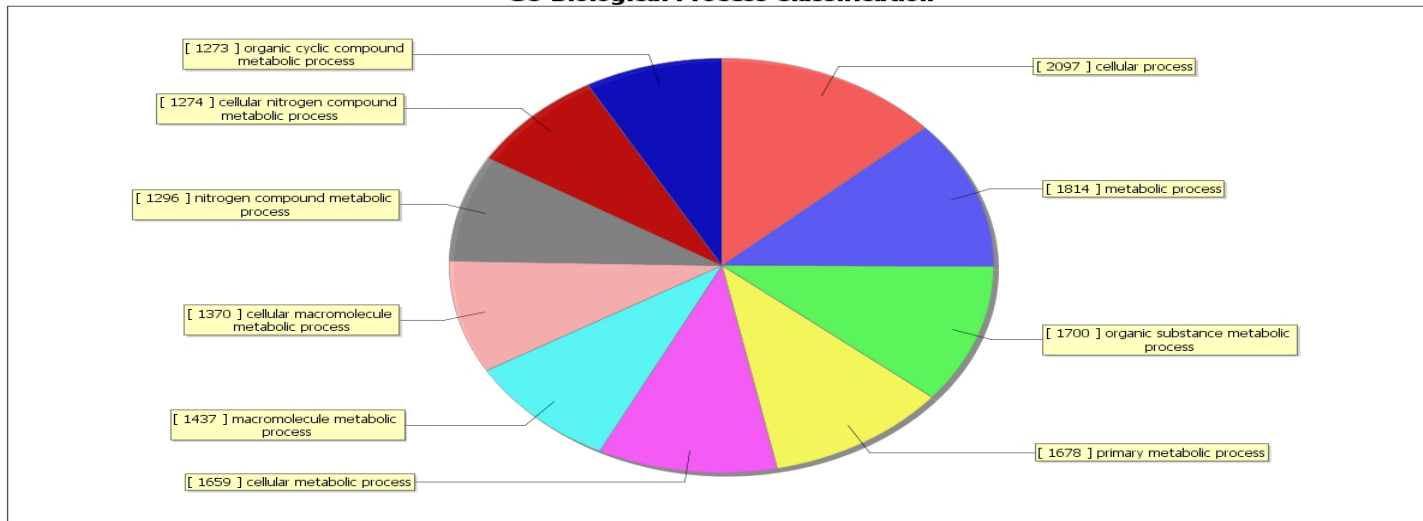


GO Molecular Function Classification

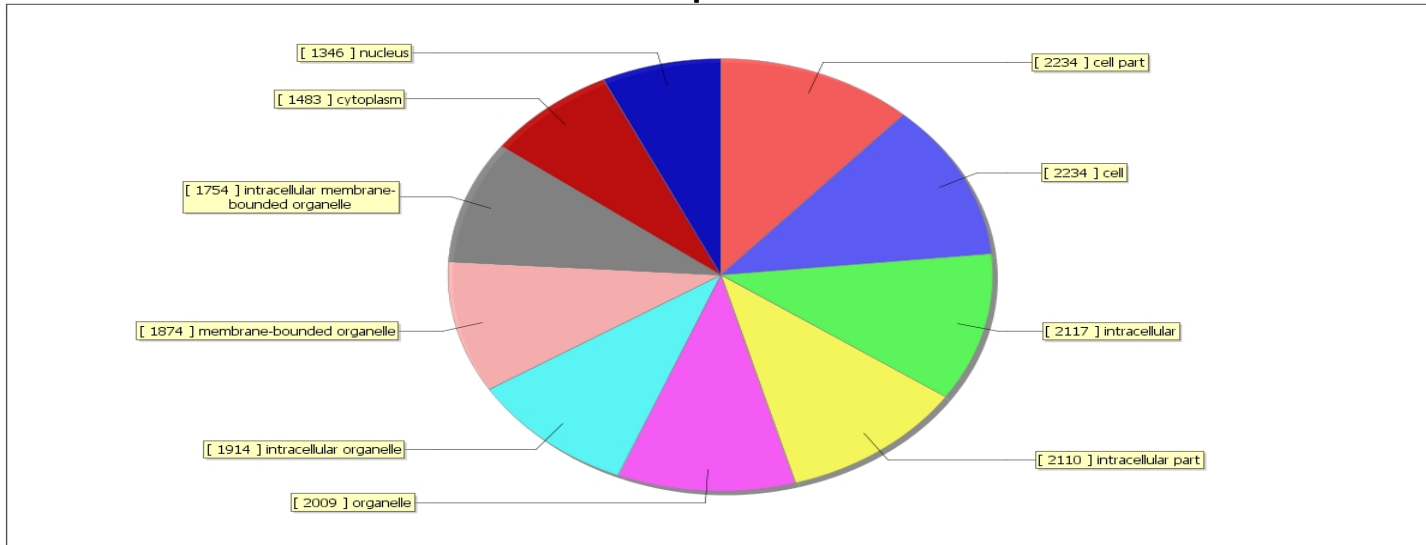


D) Most highly enriched GO terms for the Down-regulated mRNAs: Uninfected control vs Latent_Infection

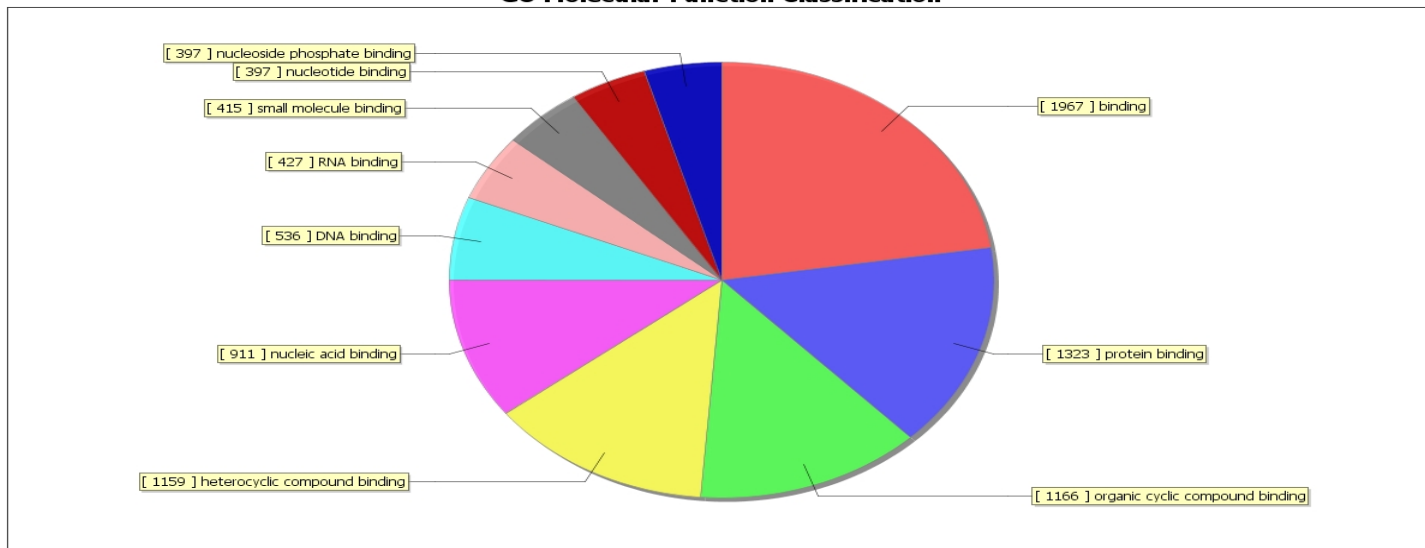
GO Biological Process Classification



GO Cellular Component Classification

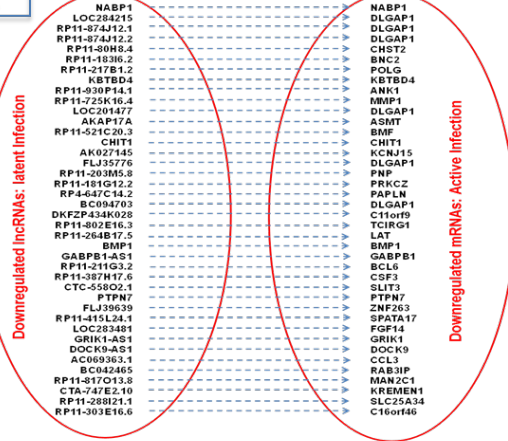


GO Molecular Function Classification

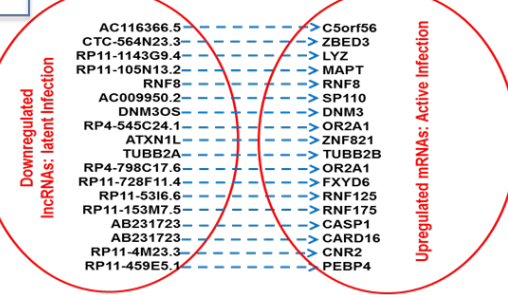


Supplementary Information: Figure 7.

A1



A2



A3-1

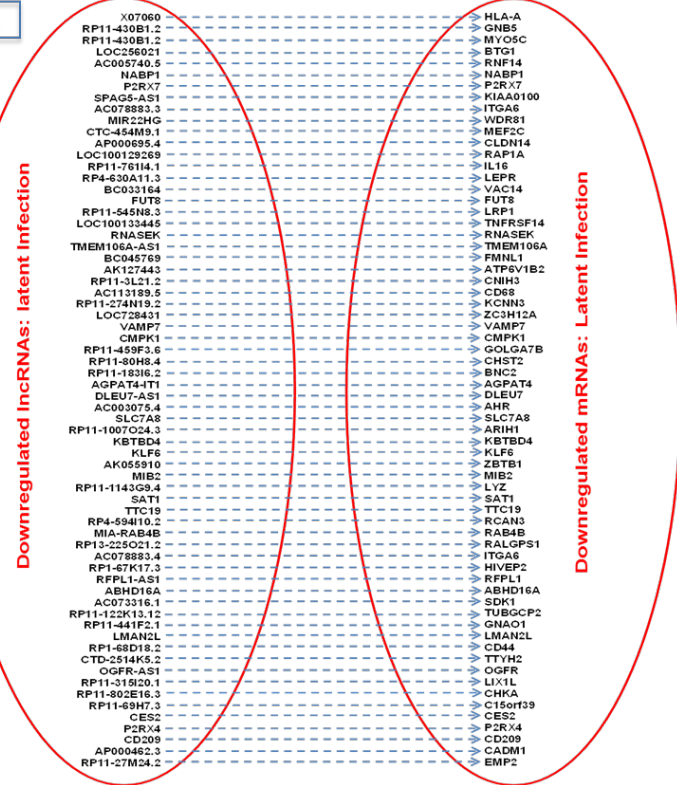


Figure 7 (contd.).

A3-2

Downregulated lncRNAs: latent Infection

AC018642.1	MKLN1
AC002480.5	STEAP1B
WDR13	WDR13
CTD-3118D11.2	ATP6V0D2
VAV3-AS1	VAV3
RP11-316M1.12	CERS2
TOM1	TOM1
RP11-532F12.5	SPINT1
SLC7A11-AS1	SLC7A11
RP11-105N13.2	MAPT
TMEM138	TMEM138
TMEM138	CYBASC3
RP11-286H14.6	TSPAN33
RP11-241G9.3	OCLN
TP73-AS1	TP73
RP11-104H15.9	TMEM102
ASIC1	ASIC1
RP11-400L8.2	ADAM17
RP11-725K16.4	MMP1
RP11-154B12.3	IQGAP1
RP11-720L2.2	COLEC12
CTD-2337A12.1	ELL2
RP4-612B15.3	SH3GLB1
AP000462.1	CADM1
SLC15A3	SLC15A3
SLC15A3	TMEM132A
TM4SF19-AS1	TM4SF19
RP11-626G11.3	ITPR1PL2
RP11-100E13.1	CNH3
TRPM2	TRPM2
RP11-109P14.9	MANEAL
TPD52L2	TPD52L2
RP11-592O2.1	SCARB1
ARSD-AS1	ARSD
AKAP17A	ASMT
SDF2	SDF2
RP5-1148A21.3	PTP4A1
RP11-274J7.2	SRGAP1
RP11-862L9.3	MBP
PLEKHB2	PLEKHB2
AC093818.1	ITGA6
ADAM9	ADAM9
RP4-620F22.2	GBP5
RP5-1073O3.7	HIPK1
RP11-521C20.3	BMF
C20orf24	C20orf24
THTPA	THTPA
THTPA	AP1G2
AX747758	APOL2
LOC100505839	SH3PX2A
CTC-563A5.2	RNF130
RP11-961A15.1	WDR81
XLOC_008152	SLC9A7
SMAD6	SMAD6
TMEM44-AS1	TMEM44
CHIT1	CHIT1
RNASEK-C17ORF49	RNASEK
FW340055	MXD1
RP1-140A9.1	GNB1
CALHM2	CALHM2
BC070247	SVIL
AK128734	JAK1
AK027145	KCNJ15
BC052241	MFSD12
STXBP5-AS1	STXBP5

Downregulated mRNAs: Latent Infection

Figure 7 (contd.).

A3-3

Downregulated lncRNAs: latent infection

RP11-580I16.2
PIGT
RP11-1334A24.6
ADPGK-AS1
BC068095
TM4SF19-TCTEX1D2
RP11-203M5.8
AK310094
RP11-181G12.2
LOC100505815
NGRN
RP4-647C14.2
CTD-2270L9.4
AC133785.1
POLR2M
POLR2M
RP5-842K24.2
RP11-473I1.10
DKFZP434K028
MAN1B1
ADPGK
BC034684
RP11-802E16.3
AP000695.6
RP11-37B2.1
AF001548.5
RP4-545C24.1
CTB-31N19.3
FCGR2C
CCNDBP1
CP
CP
PLEKHM1
RP11-96D1.7
RP13-314C10.5
YIPF1
RP11-264B17.5
FLJ44511
CTD-2243E23.1
CHMP1A
BMP1
RP11-390P2.4
GABPB1-AS1
AP001062.7
RP11-211G3.2
CTD-2288O8.1
AC046143.3
RP11-121A14.3
RP11-93B14.4
KCNC4
RP3-467K16.4
RP11-445F6.2
RP11-387H17.6
RP11-713B9.1
AK130481
AB586698
RP11-519C12.1
RP4-798C17.6
RP11-359P5.1
AC092620.2
CTC-558O2.1
SLC4A8
APLP2
RP11-85K15.2
CTD-3094K11.2

Downregulated mRNAs: Latent Infection

NPEPPS
PIGT
PDLIM7
ADPGK
C14orf182
TM4SF19
PNP
SAT1
PRKCZ
TPD52L2
NGRN
PAPLN
COG7
ARHGEF4
GCOM1
POLR2M
RAP2C
C16orf72
C11orf9
MAN1B1
ADPGK
CHI3L1
TCIRG1
CLDN14
RIPK2
MYH11
OR2A1
METTL9
FCGR2C
CCNDBP1
CP
HPS3
PLEKHM1
PLA2G15
SAT1
YIPF1
LAT
PDGFA
NRXN3
CHMP1A
BMP1
NHSL1
GABPB1
C21orf2
BCL6
PELO
TMEM44
NEK6
NTSR1
KCNC4
EFHD2
TXLNB
CSF3
CADM1
SLC33A1
WDR26
FAM214A
OR2A1
PPIC
SPOPL
SLIT3
SLC4A8
APLP2
SRP54
FURIN

Figure 7 (contd.).

A3-4

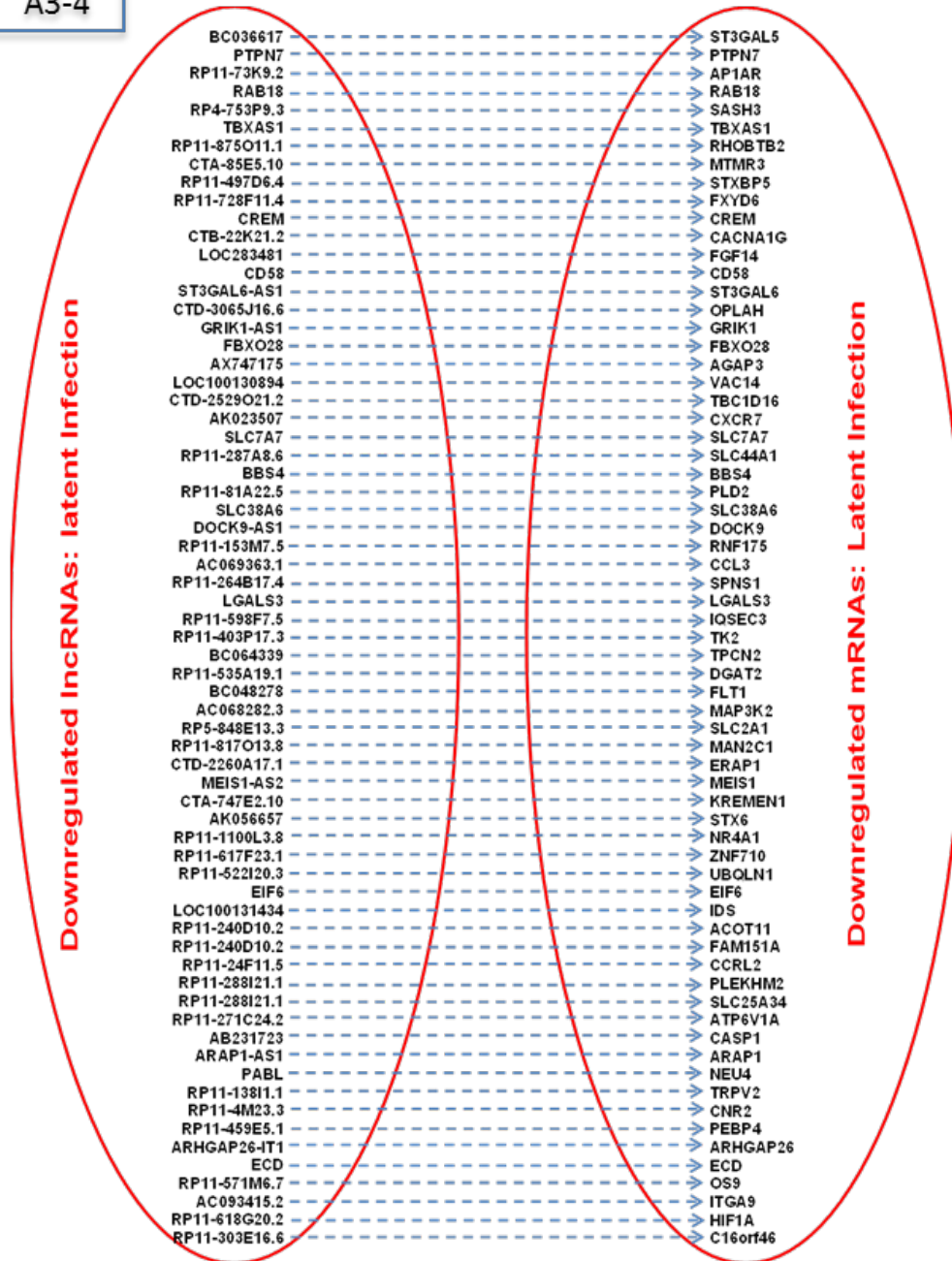


Figure 7 (contd.).

A4

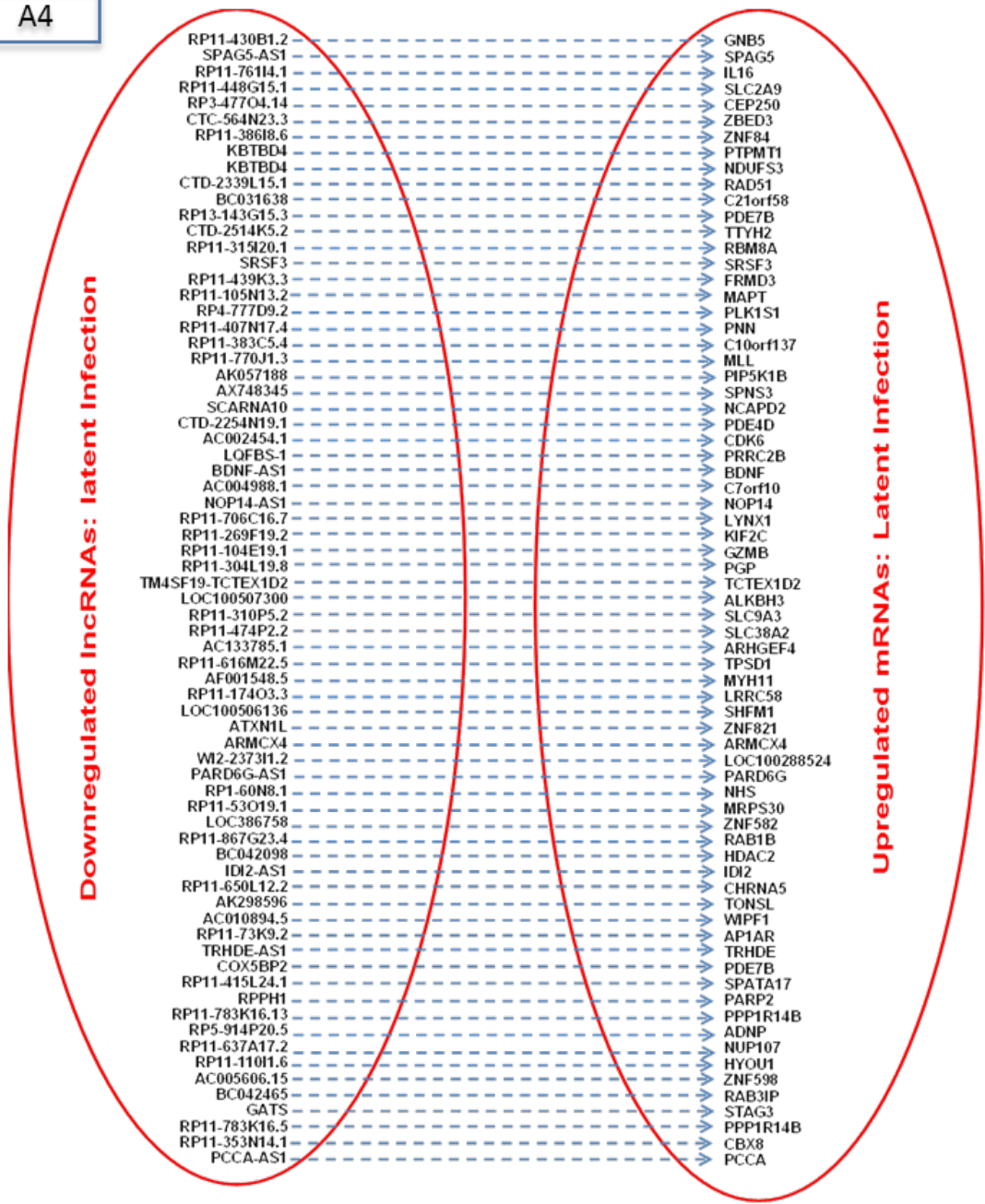
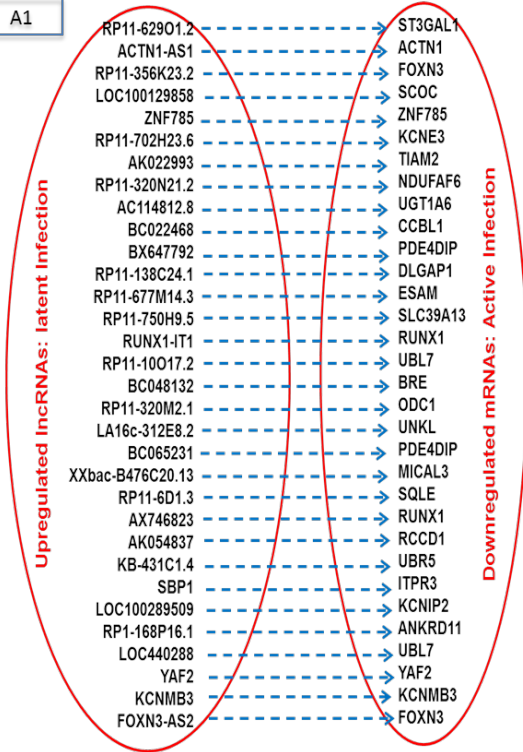


Figure 8.

A1



A2

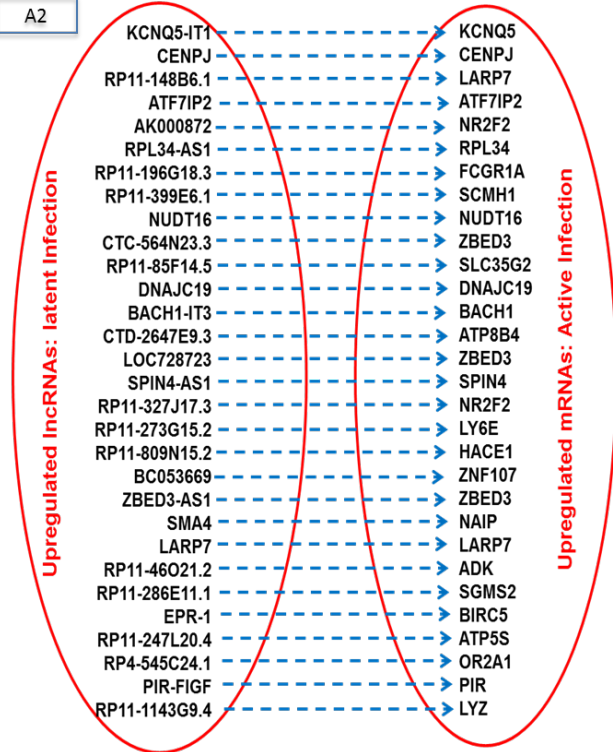


Figure 8 (contd.).

A3-1

Upregulated lncRNAs: latent infection

RP11-160H12.2	DLG2
RP11-629O1.2	ST3GAL1
RP11-85K15.2	SRP54
ACTN1-AS1	ACTN1
AC113189.5	CD68
TIPARP-AS1	TIPARP
MYLK-AS1	MYLK
BC033983	TTC18
AC020594.5	RASGRP3
AC093415.2	ITGA9
CTC-498J12.3	SLC30A5
SNHG1	SLC3A2
ZNFX1-AS1	ZNFX1
RP11-54C4.1	ATOX1
LOC100129858	SCOC
TMEM44-AS1	TMEM44
RP11-650L12.1	IREB2
CTA-445C9.14	TFIP11
LOC100506963	TCEB3
GLYCTK-AS1	GLYCTK
RP11-702H23.6	KCNE3
AK022993	TIAM2
RP11-454C18.2	SUCNR1
CTD-2353F22.1	SLC1A3
RP11-466F5.5	ALDH9A1
PGAP2	PGAP2
BACH1-IT3	BACH1
TMPO-AS1	TMPO
RP11-152N13.5	TTC18
ARHGAP31-AS1	ARHGAP31
RP11-195E11.3	MAMDC2
RP5-1092A11.2	TP73
LMLN-AS1	LMLN
RP11-30B1.1	SDK1
CTC-367J11.1	NDST1
RP11-18H7.1	GSK3B
BC022468	CCBL1
BX647792	PDE4DIP
RP11-368I7.2	C16orf7
TRAF3IP2-AS1	TRAF3IP2
IDH1-AS1	IDH1
BC061632	TMEM44
CTD-2363C16.1	EBF1
AK024134	PPM1H
AK055981	ZNF710
RP11-750H9.5	SLC39A13
PSMC3IP	MLX
RP11-332E19.2	NRXN3
RP11-243J16.7	BCL2L1
LOC100289092	ATP2A1
SPRED3	SPRED3
RP1-39G22.7	ZMPSTE24
RP11-618G20.4	HIF1A
TEN1-CDK3	TEN1
TEN1-CDK3	ACOX1
LOC100288122	C18orf1
CTD-3195I5.3	ITGAE
CDKN2B-AS1	CDKN2B
AK128593	SEC31A
C17orf69	CRHR1
AC034193.5	EMC3
LOC100506804	TMEM30A
AC079742.4	ZDHHC4
CAHM	QKI
RP11-113K21.5	RAB30

Downregulated mRNAs: Latent infection

Figure 8 (contd.).

A3-2

Upregulated IncRNAs: latent Infection

AC068831.10
 IPO9-AS1
 RP11-10017.2
 CTD-2015H6.3
 BC048132
 AC109333.10
 MF12-AS1
 AC004540.4
 ADAM15
 RP11-152N13.12
 LA16c-312E8.2
 LOC100289341
 RP11-796E2.4
 ARAP1-AS2
 RP11-817O13.6
 LOC285819
 CTD-2196E14.6
 LOC439949
 KDM4A-AS1
 ARHGAP5-AS1
 RP5-956O18.2
 BC065231
 RP1-7G5.6
 XXbac-B476C20.13
 CTD-3074O7.5
 CTD-3074O7.5
 TATDN1
 RP11-6D1.3
 NTRK3-AS1
 LOC644656
 AK054837
 SMA4
 RP11-49G10.3
 AF213884.2
 RP11-325K4.2
 RP4-714D9.2
 RP11-473I1.9
 RP1-34B21.6
 SBP1
 RP11-10K16.1
 RP11-227H4.5
 HLA-F-AS1
 C6orf3
 RP11-124N2.1
 LOC100289509
 AC018816.4
 LOC100128881
 LOC100507463
 CTA-407F11.8
 MEIS2
 RP11-181C3.2
 LOC440288
 AC012487.2
 CRYM-AS1
 RP4-545C24.1
 KCNMB3
 RP11-74E22.3
 AC079305.10
 LINC00271
 RP11-325K4.3
 LOC100132774
 RP11-727A23.7
 RP11-983P16.4
 RP11-1143G9.4
 AX748417

VPS33B
 NAV1
 UBL7
 FAM151B
 BRE
 KIF1C
 MF12
 SNX10
 ADAM15
 FAM149B1
 UNKL
 MANTB1
 BTG1
 ARAP1
 NEL1
 BTN2A1
 UBF01
 PRKCO
 KDM4A
 ARHGAP5
 GALNT2
 PDE4DIP
 GLTP
 MICAL3
 PELI3
 DPP3
 RNF139
 SQLE
 NTRK3
 ZNF143
 RCCO1
 NAIP
 BPIFA3
 NFKB1
 HERPUD1
 HIAT1
 C16orf72
 NFYA
 ITPR3
 GALNT7
 CLDND1
 HLA-F
 TRAF3IP2
 SLC41A3
 KCNIP2
 BHLHE40
 C16orf7
 TAP1
 ADRBK2
 MEIS2
 TMPO
 UBL7
 LIMS1
 CRYM
 OR2A1
 KCNMB3
 KIAA0664
 NFE2L2
 AHI1
 HERPUD1
 KDM4A
 ANKRD42
 TENC1
 LYZ
 CAMK1

Downregulated mRNAs: Latent Infection

Figure 8 (contd.).

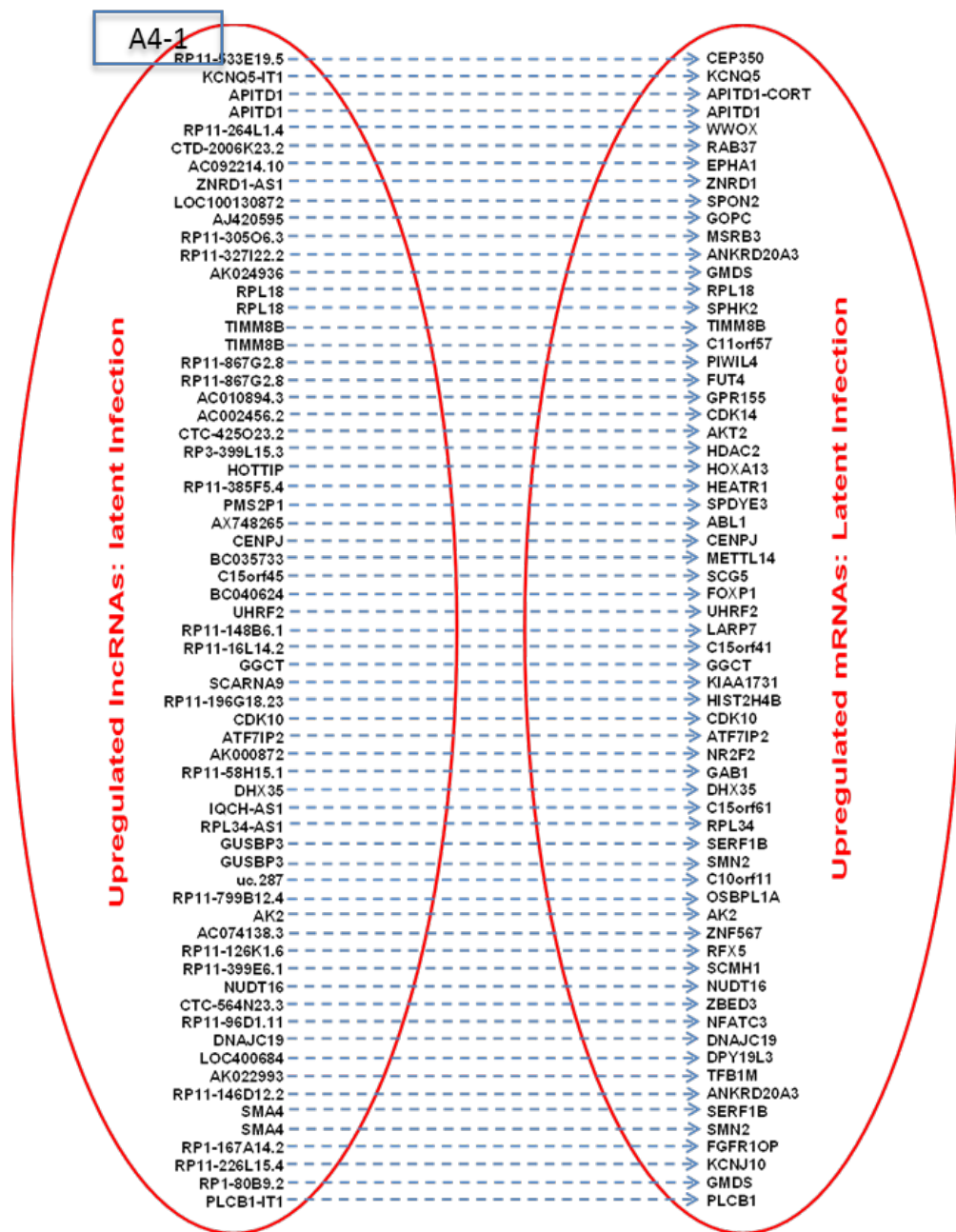


Figure 8 (contd.).

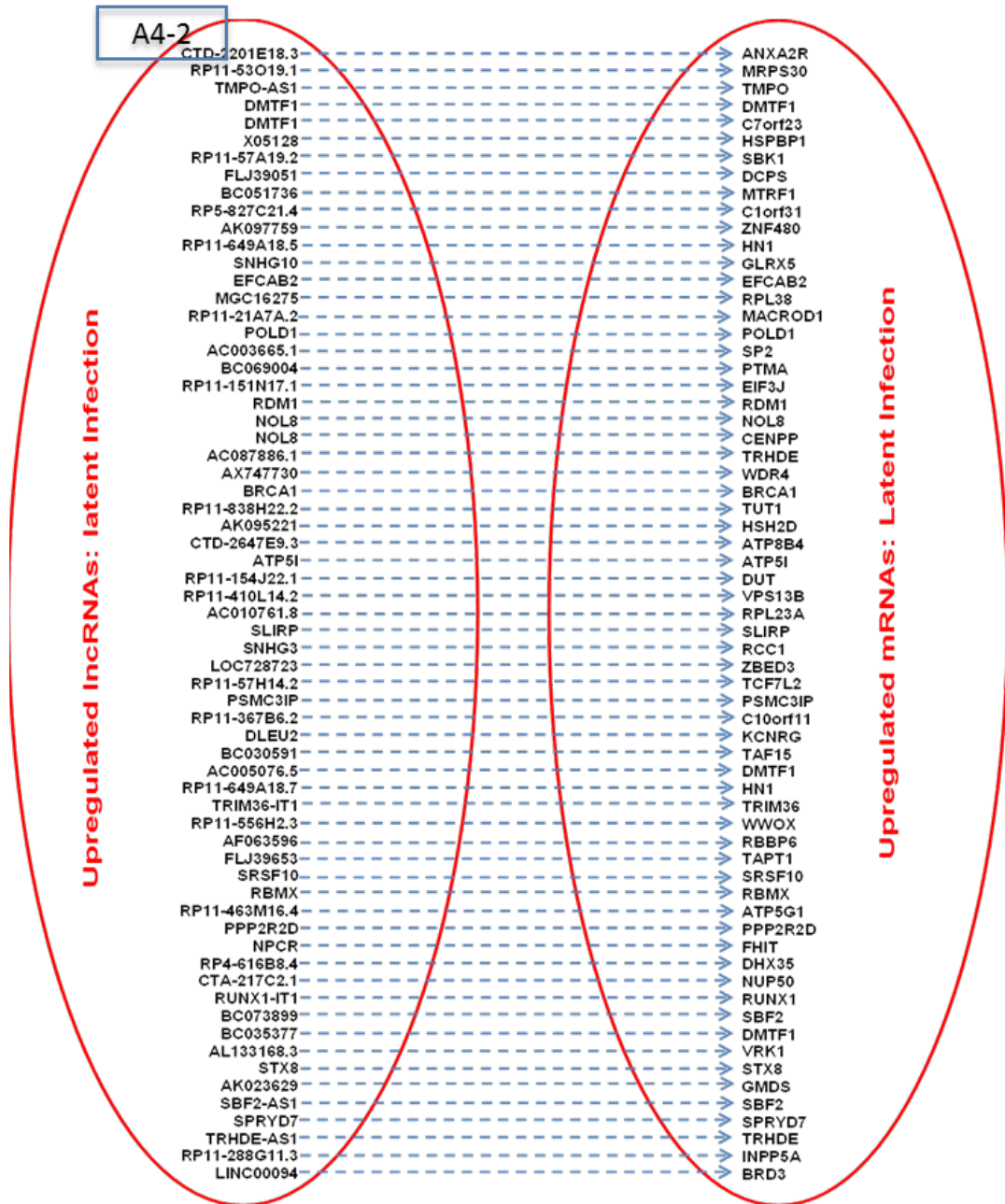


Figure 8 (contd.).

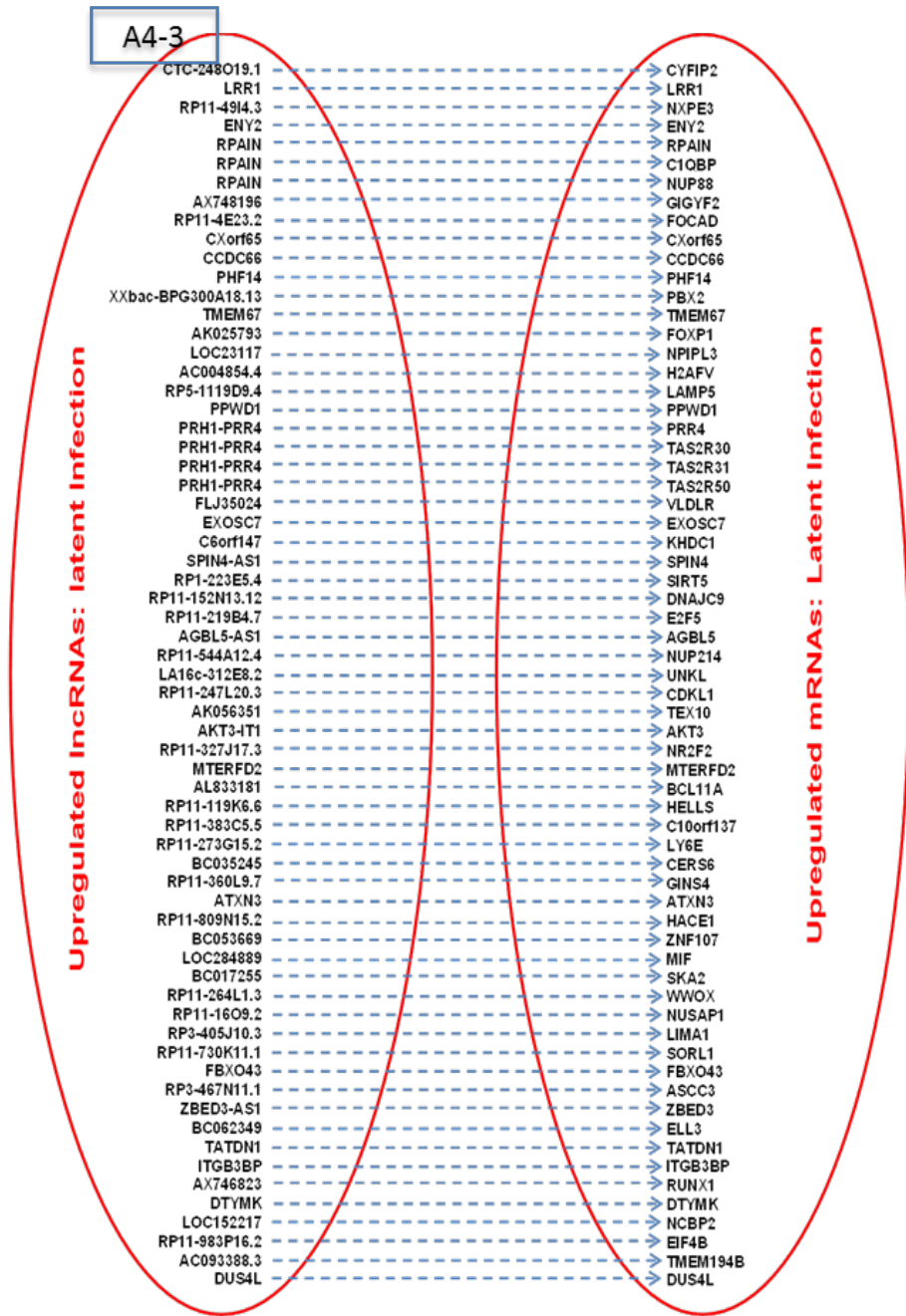


Figure 8 (contd.).

A4-4

Upregulated lncRNAs: latent Infection

AX748233	GEN1
BCL7B	BCL7B
ABCA17P	ABCA3
RP11-603J24.17	PA2G4
RP11-125B21.2	VLDLR
NT5C	NT5C
HAUS1	HAUS1
BC032915	DIAPH3
DQ577420	HSF2BP
TYW3	TYW3
NDUFA2	TMCO6
RP11-538P18.2	RSRC1
RP11-383C5.4	C10orf137
TSEN15	TSEN15
AK126380	MRPL23
ZMAT1	ZMAT1
LOC100131626	ATP5L
XAGE1C	XAGE1A
RP4-714D9.2	SASS6
RP11-151N17.2	EIF3J
ABHD11	ABHD11
RP11-927P21.1	LRRC37A3
AX721280	NT5C3
LARP7	LARP7
LARP7	C4orf21
RP11-133J15.2	NSUN6
RP11-13N13.2	SNRNP1
MND1	MND1
U80764	NSUN6
EEF1E1-MUTED	EEF1E1
EEF1E1-MUTED	BLOC1S5
MMAB	MMAB
SBP1	MNF1
HMGB1P24	ACACA
WWC2-AS2	WWC2
EPR-1	BIRC5
AK056182	MTRF1
LOC401588	ZNF674
C7orf55	C7orf55
RP11-199F11.2	TP53
AC084117.3	LDHA
XLOC_010525	IFT88
RP11-556H2.2	WWOX
RP11-895M11.3	CCDC88C
SGOL1-AS1	SGOL1
HLA-F-AS1	HLA-F
RP11-96D1.5	NFATC3
AC005971.3	CENPV
POU5F1P4	ASH1L
RP11-338K17.8	TCTN2
INGX	TAF1
RP11-247L20.4	ATP5S
AF090939	C3orf26
LOC100507250	NUP107
RP11-173B14.5	LMO7
RP11-173B14.5	UCHL3
CREBZF	CREBZF
CTD-2349P21.11	ATAD5
RP11-649A18.4	HN1
INTS7	INTS7
INTS7	DTL
RP11-181C3.2	TMPO
XLOC_001023	ENSA
AF146191.4	FRG1
SHMT2	NDUFA4L2

Upregulated mRNAs: Latent Infection

Figure 8 (contd.).

A4-5

