

## vhfRNAi: A web-platform for analysis of host factors involved in viral infections discovered by genome wide RNAi screen

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### Supplementary Tables

**Table S1:** Statistics of unique and duplicate host factors in each virus

**Table S2:** Table denoting genes common among different viruses

**Table S3:** Statistics of GWAS analysis

**Table S1.** Statistics of unique and duplicate host factors in each virus

S. No.	Virus	Unique-Entries	Duplicate-Entries
1.	Adeno-associated virus (AAV)	926	533
2.	Avian influenza virus (AIV)	0	11
3.	Borna disease virus (BDV)	14	20
4.	Dengue virus 2 (DEN-2)	27	13
5.	Hepatitis C virus (HCV)	236	213
6.	Human immunodeficiency virus 1 (HIV)	1388	857
7.	Human parainfluenza virus 3 (HPIV-3)	0	27
8.	Human herpesvirus 1 (HSV-1)	34	38
9.	Influenza A virus (IAV)	700	513
10.	Lymphocytic choriomeningitis virus (LCMV)	0	54
11.	Marburgvirus (MARV)	0	11
12.	Poliovirus (PV)	3340	1035
13.	Rotavirus (RV)	347	175
14.	Sendai virus (SeV)	32	27
15.	Sindbis virus (SIV)	70	41
16.	Vaccinia virus (VACV)	482	296
17.	Vesicular stomatitis virus (VSV)	9	78
18.	West Nile virus (WNV)	313	137

**Table S1.** Statistics of unique host factors for each virus having overlapping and unique factors in different viruses

S. No.	Virus	Overall-Entries	Non-overlap – Entries (Unique)	Overlapping -Entries
1.	Adeno-associated virus (AAV)	1459	926	533
2.	Avian influenza virus (AIV)	11	0	11
3.	Borna disease virus (BDV)	34	14	20
4.	Dengue virus 2 (DEN-2)	40	27	13
5.	Hepatitis C virus (HCV)	449	236	213
6.	Human immunodeficiency virus 1 (HIV-1)	2245	1388	857
7.	Human parainfluenza virus 3 (HPIV-3)	27	0	27
8.	Human herpesvirus 1 (HSV-1)	72	34	38

9.	Influenza A virus (IAV)	1213	700	513
10.	Lymphocytic choriomeningitis virus (LCMV)	54	0	54
11.	Marburgvirus (MARV)	11	0	11
12.	Poliovirus (PV)	4375	3340	1035
13.	Rotavirus (RV)	522	347	175
14.	Sendai virus (SeV)	59	32	27
15.	Sindbis virus (SIV)	111	70	41
16.	Vaccinia virus (VACV)	778	482	296
17.	Vesicular stomatitis virus (VSV)	87	9	78
18.	West Nile virus (WNV)	450	313	137

**Table S2:** Table denoting genes common among different viruses

S. No.	Number of virus	Gene name	Total number of genes
1.	2	3HAO, 5HT3D, 5NT1B, AAPK2, ABHD1, ACBD4, ACHA6, AFG32, AGRE1, AINX, AKP8L, ALDH2, AMGO2, AN32D, ANKR6, ANM8, ANXA6, AP3S1, APC1, ARHGH, ARL16, ARM10, ARRB1, ASNA, AT133, AT2C1, AT5G1, ATS14, BACE1, BAHD1, BAMBI, BCAR1, BCCIP, BEND2, BFSP1, BOC, BORG2, BORG5, BPNT1, BRD4, BTBD6, BTBD8, C8AP2, CASP9, CASZ1, CBPQ, CC14A, CCL8, CCNH, CCNT1, CCR8, CD20, CD276, CEBPE, CETN2, CGAT1, CHIN, CHST5, CIRBP, CLD20, CLH1, CNTD2, CO3, CO4B, COL10, COPT2, CP086, CQ053, CROC4, CS048, CSTF3, CTSL2, CUL2, CX7B2, CYFP2, CYH3, CYTC, DAZ1, DC1I2, DC2L1, DDC, DDX10, DDX41, DEFM, DEST, DHSO, DJB11, DJC12, DKK2, DMRTC, DP13B, DPOG2, DPP10, DPP9, DQX1, DRD4, DRS7B, DUS15, DUS6, DYN1, DYSF, EGFL6, EMC7, EPHA3, EPHA4, ERBB4, ERMIN, ESAM, ESTD, EVI5, EVPL, EXOS9, F101B, F213A, F217A, F262, FBXW2, FCG2A, FEM1C, FGF21, FGF22, FMO4, FMR1, FOXA2, FOXN4, G6PD, GAS6, GATA3, GDPD5, GEMI7, GET4, GLI4, GNAT1, GORS2, GP183, GPC1, GPR31, GPR35, GPR52, GRB2, H2BWT, H31, HACD1, HACE1, HBG1, HCD2, HEMH, HES5, HINFP, HPIP, HS3S6, HTSF1, HYI, I20RB, I27RA, I5P1, IKKA, IL3, IPYR2, IQEC3, ISG20, ISM2, ITCH, ITSN1, JOS2, JPH1, K0556, K2022, KAISO, KAPCG, KAT5, KATL1, KCNA3, KCNH5, KDM3B, KIF24, KLF6, KLF7, KLH24, KLH36, KMT5A, KPCD, KRT81, KRT83, KRT84, LAG3, LAMA5, LAMB2, LBX1, LCE1E, LENG9, LIIMS1, LLR1, LONF3, LRP1B, LRRC4, LST1, LTV1, LYAR, LYPD4, LYVE1, M3K10, MAD3, MAGB3, MAK, MARK3, MCA3, MCAF2, MCM3, MCM6, MED15, MET, MET13, MFAP2, MFF, MGRN1, MISP, MOB3C, MORC2, MSH6, MTA2, MYH8, MYL1, MYOG, MYPT1, MZT2A, N42L2, NAAA, NAGPA, NASP, NDKM, NDRG4, NEB1, NEC2, NECD, NOD1, NOLC1, NOVA2, NP1A1, NT5C, NTM2G, NUDT3, O13C9, O51Q1, OAZ1, OFUT1, ONEC2, OPRM, OPSG2, OR2L8, OR4D1, OR4X2, OR511, OR6B1, OR6M1, OR6T1, OR8B8, OR8G5, OSTC, OTOSP, P2RY2, PADI4, PAI2, PAN2, PANK1, PANK4, PAR10, PATE1, PAX1, PCDG8, PCDH7, PCGF5, PCNA, PGS2, PHAG1, PHF12, PHF7, PHLA2, PINK1, PKHG1, PLB1, PLCD4, PLIN3, PLPP4, PLXA3, PODN, PP1R7, PPM1F, PPR17, PRD12, PRD16, PRDM4, PRG2, PRIC1, PRP19, PRY, PSMF1, PTGIS, PTGR2, PTPA, PTPRC, PUR4, PXDC1, QCR1, RABL6, RAD50, RBMX, RBX1, RD23A, REST, RET7, RFA2, RFX5, RHG09, RHG24, RHOH, RHOV, RIPP2, RIR2, RL41, RL7L, RM39, RN125, RN19A, RPA34, RPAB1, RPAB5, RPAP3, RT09, RTBDN, RTP4, S100P, S10AA, S26A6, S5A1, S7A14, SARDH, SAXO1, SC5A6, SC6A9, SCOC, SDF1, SECR, SELPL, SEM7A, SFPQ, SG1D2, SIA8D, SIDT2, SIVA, SL9A2, SLAP2, SLD5, SMC1A, SNTG2, SNX12, SNX4, SOX15, SPAG8, SPHAR, SPIDR, SPP24, SPS2, SPTCS, SRGP3, SRS10, ST18, SUCA, SUCR1, SUN2, SUPT3, SUV91, SYMPK, SYNPO, T2R16, T2R20, TAGL, TAGL3, TAP1, TAP26, TCPB, TEAD1, TENN, THAS, THOC3, TIAF1, TIM10, TIM44, TIM9, TLK2, TMOD1, TNFB, TNIP2, TOR4A, TPC12, TR13C, TRI35, TRI52, TRI69, TRI72, TRIA1, TUFT1, TYK2, U2AF2, UB2D1, UBE4A, UBP35, UBP53, UGPA, ULA1, UPK3B, UTS2B, V2R, VAMP1, VATG1, VEGFB, VPS39, VSIG1, VWCE, WASF1, WDR33, WFDC8, WIPI4, XAF1, YMEL1, Z385A, ZACN, ZG16B, ZMY10, ZN358, ZN454, ZN496, ZN519, ZN526, ZN551, ZN599, ZNF69, CATL1, COPD, NPC1, TIM, VAOD1, VAS1, VATL, A4GNT, ABHD11, B3GAT2, CARD9, CPA1, FDPS, FPGS, FURIN, HIPK4, KLK1, PRMT2,	1535

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TRUA, TRUB1, TTC4, TTL12, TTMP, TXK, TXND5, UBE2C, UBE2D3, UBE2E1, UBE2L3, UBE2T, UBF1, UBP13, UBQL1, UBQLN4, UBR5, UCK2, UCP2, UNG, UPP1, UQCC1, UQCRC1, USE1, USP6, USP9X, UTP15, UTRO, UXT, VEZF1, VISTA, VKORL, VPS4A, WDR12, WDR4, WDR75, WNK1, WNT1, XCL1, XPOT, XRCC3, XRCC6, YBOX3, ZAP70, ZBT16, ZBT32, ZBTB2, ZCCHV, ZEB2, ZEP2, ZN165, ZN394, ZNF552, ZNT5, ZSCAN16, CBX5, GTF3C2, HOXC5, IFITM2, ITGA2, MYRIP, NR4A2, RALGPS2, TOP2A, UBE2I, VAMP8, WRB, ACAP2, ACTN2, ADAMTS1, AFF2, AGTRAP, APC, APOA1, APOA5, APOBEC3G, ARL4A, ATP1A2, ATP6AP1, ATP6V1A, BANP, BID, BST2, BTG1, CACNA1A, CACNB1, CADM1, CBLL1, CEL, CFLAR, CHMP2B, CIT, CLIC4, CLK1, CNP, COPZ2, CREB1, CREB3, CRYAA, CSE1L, CTH, CYLD, CYP2U1, DCLRE1B, DFFB, DGKD, DHCR7, DLG2, DPF2, DTX2, DTX3, EEF1A1, EGR3, EIF2S1, EIF3D, EIF4A3, EPHB2, EPRS, ETS1, F13A1, FKBP1B, FKBP8, FOS, FOXN1, FPR1, FZD5, GINS2, GMEB1, GOPC, GRK5, GRK6, GYS1, HDAC3, HLA-B, HLA-G, HOXC12, HRK, HSF4, HSPB8, HSPD1, HUNK, IFNB1, IGSF1, IL17RA, INMT, INPP4A, INTS12, IRAK3, IRF1, IRF6, ITGA3, ITPK1, KIF11, KSR2, LEPR, LSR, LZTS2, MADD, MAL2, MAN2B2, MAP2K3, MAPK13, MAPK14, MARK2, MATN3, MEF2C, MICA, MTOR, MTSS1, MYH9, NAA10, NAGK, NBN, NCK2, NFAT5, NFKBIE, NLRC4, NPY1R, NTHL1, NUPL1, NUTF2, OAS1, PAK3, PCK2, PDGFA, PEPD, PIEZO1, PIP, PLA2G2F, PLA2G5, PLK2, PLK4, PNMA1, POLA1, PPARA, PQLC1, PRKRA, PSMD14, PTAFR, PTPN11, PTPRM, PUSL1, RACGAP1, RBM14, RCVRN, RETN, RFFL, RING1, RPL13, RPL31, RPL35, RPS10, RPS16, RPS4X, RPS5, RRP1B, RXRG, RYBP, SART1, SCN8A, SELPLG, SF3B3, SFXN2, SIN3B, SLC25A28, SLC7A4, SMG1, SNRNP70, SNX6, SNX9, SOX9, SRSF5, STAC3, STAU1, STK31, SUMO4, TAB1, TAF12, TAOK3, TCF3, TCF7L2, TDRD7, TEAD3, TGFBR1, THRSP, TLDC1, TLR10, TMEM140, TNIP3, TONSL, TPST1, TRIM22, TRIM63, TRMT61A, TRPV2, TSSK6, TUBB3, UBP1, UBXN10, USF2, VAV2, WASF3, WDR34, WDR83, WTAP, XCR1, ZMIZ1, ZNF512B, ADAL, BBC3, CARD14, FAM167B, FOXF2, GABBR2, LAMC3, LYSMD1, NRL, OR7A10, P2RY10, PIWIL3, TAS2R19, ZNF446, ACTN4, ADCK1, ADCY4, AHSP, AP3S2, APOBR, AQP3, ASIC5, CALY, CAP1, CD244, CLGN, CMIP, CNN3, CNTN3, COIL, CPEB4, CPT1C, CRIPT, CSRP3, CUL5, DNAL4, DOK2, DYRK4, E2F4, EIF3M, ELF1, EMP2, ERBB3, FANCA, FCRLA, FEV, FUBP1, FUT4, GAB1, GAB3, GRHL3, GSC, HEPN1, HERC3, HNF1A, KCNE1, KCNE2, KCNH4, KCNJ8, KCNQ3, KCTD4, KRT34, LAMC2, LCK, LENEP, LMO3, LSM8, LY6E, MAST4, MED22, MEGF8, MFAP5, MPPE1, MS4A7, MTA3, MYH1, MYL10, MYO1E, NEK2, NFE2, NIPA2, NSD1, NTF4, OCLN, OR3A2, OR6N2, P2RY1, PANX3, PCDH8, PDPR, PDZD7, PIAS2, PSCA, PTPRF, RAB1A, REXO4, RNF43, SCRIN2, SFTPD, SH2B1, SHC2, SHOC2, SMAD2, SP100, SRP19, SSH3, SYT7, TAF1B, TAF6, TANC1, TBCB, TBRG1, TFEB, TRHDE, TRPM1, UBR3, UCK1, USPL1, VHL, VN1R1, WASF2, WDR6, WNT2B, XYLT1, ZNF18, ADCK5, ARPC1B, BDP1, BICC1, CALML4, CD84, CDH5, CELF5, CLCA2, CLIC1, CTDSP1, EPX, GP1BA, NACA, NRXN1, PPP1R12B, PRKAB1, RPL11, RPL14, RPL37, RPL37A, RPS3, SH3BP5L, SLC26A2, CITED2, LDB1, PRRX2, ITFG3, EXOSC9, FAM214B, RABGEF1, RASSF1, SP6, STK33, TNS4, TTC9, ADAM7, AIG1, AKT1, ANKS6, APC2, ARL2, BHE40, BT3A3, CC4L, CCR6, CDKL5, CH25H, DRD3, ECI2, EHMT2, ERI3, F234B, FGFR4, FOLR1, FOXA1, H4, HDAC1, HIC1, ICAM1, KCD15, KDM2A, LARP1, LIN37, LMNA, LYPA1, MAPK3, MDM2, MED28, MGP, MMP28, MUC2, MYC, NEK6, NEU1, NFKB1, NOM1, NPAT, NPM3, NUDT4, NXNL2, NXT2, OTOF, PKD1, PLD2, PRPH2, PSMD3, PSMG1, PTH2, PTPS, RAE1L, RER1, RIMS4, ROA1, RPAC1, SAE1, SDC4, SETBP, SF3B1, SIK2, SLIT3, SNX10, STAR8, STK39, TAF4, TIGD7, TRIM2, TRM7, VSIG4, WAC, XIAP, XKR4, ZNF16, ZYX, EXT1, VPS16, ABCC10, MAP3K11, MMP21, SENP5, LRIG3, PHF2, ADK, AP3B1, ATM, CACNG1, CDK4, CISH, CLDN1, CNOT1, CNOT3, CXCR4, ERCC1, ERCC5, ETF1, FLT4, HEATR1, IFITM3, IMP4, IP6K2, KCNK3, MAP2K7, NEK9, NOP2, PEMT, PI4KB, PRKCI, PRPF31, PSMD1, PTH1R, RAB10, RAB3D, RAN, RIPK2, SAR1A, SMURF2, SNW1, SRRM2, STK24, SUV420H1, TBK1, THAP11, TWIST1, USP11, WDR37, ADRB2, ALPK2, AP2M1, CAD, CANT1, CCDC134, CCL2, CD83, CLOCK, CSF2, DDX21, DDX55, DDX60L, DHRS3, EIF3B, EP300, FAS, FOXJ2, FSCN1, GSK3B, IKBKG, KHK, KLRB1, KPNB1, KRR1, LRRN3, MAP3K9, MED6, MED7, MED8, MICB, MID1IP1, MTFR1, NCBP2, NOS3, NUP107, NUP153, NUP93, NUP98, OASL, OGFR, PARP4, PCGF6, PPP1R12C, PPP1R14D, PRKDC, PSMA1, PSMC4, PSMC5, PSMD12, RAB1B, RBM5, RCL1, RFWD2, RUSC2, RXRA, SCN3A, SF3A1, SF3B2, SLC46A1, SMAD3, SNRPA1, SNRPD3, SOX13, SP110, STK10, STK3, STX5, SULF2, TDRD1, TGS1, TOP3B, UMPS, VDR, WDR5, ARHGAP23, DCAF13, FBL, FCF1, GBF1, HSPA9, PPP1R15B, PWP2, SLC9A3, UTP6, Sep-05, NR4A1,

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RAB6B, ACRC, ATCAY, ATP6AP2, ATP6V1B2, ELK1, FBXL5, G6PC3, IFI35, IL9R, PPP2R5C, PSMB3, RNF44, RPL13A, RPS14, SHC1, TDG, TRAF6, WDR18, ATP1F1, CDK15, FRS2, GRM2, CUL3, KCNK6, MSMB, PAK1, TRPC3, ATP6V1B1, CHML, PPP5C, RPS29

**Table S3.** Statistics of GWAS analysis

S. No.	Virus	Total entries	Unique genes	Number of diseases
1.	Adeno-associated virus (AAV)	42	32	36
2.	Avian influenza virus (AIV)	2	1	2
3.	Borna disease virus (BDV)	22	9	17
4.	Dengue virus 2 (DEN-2)	13	6	12
5.	Hepatitis C virus (HCV)	109	72	77
6.	Human immunodeficiency virus 1 (HIV-1)	291	183	185
7.	Human parainfluenza virus 3 (HPIV-3)	1	1	1
8.	Human herpesvirus 1 (HSV-1)	21	11	20
9.	Influenza A virus (IAV)	404	247	211
10.	Lymphocytic choriomeningitis virus (LCMV)	4	4	3
11.	Marburgvirus (MARV)	2	1	2
12.	Poliovirus (PV)	203	121	129
13.	Rotavirus (RV)	162	102	111
14.	Sendai virus (SeV)	13	3	10
15.	Sindbis virus (SIV)	32	20	25
16.	Vaccinia virus (VACV)	179	121	125
17.	Vesicular stomatitis virus (VSV)	17	9	11
18.	West Nile virus (WNV)	72	48	57