

Supplementary Table S1. Gene expression profile datasets used in this study.

Organisms	Mesh term	Strain type or Subspecies ^a	Infection model			GSE No.	Platform
			in vitro/ in vivo	cell or tissue			
				resource	types		
Dengue Virus	B04.820.250.350.270 B04.909.777.310.350.270	—	in vivo	Homo sapiens	PBMC	GSE18090	GPL570
		—	in vitro	Homo sapiens	Primary human umbilical vein endothelial cells	GSE34628	GPL570
		dengue 2 virus, New Guinea C	in vitro	Homo sapiens	HUVEC	GSE9378	GPL96
					monocytes B cells		
Dhori Virus	B04.820.545.850 B04.909.777.545.850	—	in vitro	Homo sapiens	Bronchial epithelial cell line 2B4	GSE17400	GPL570
Enterovirus 71	B04.820.565.284.180 B04.909.777.618.284.180	—	in vitro	Homo sapiens	Human rhabdomyosarcoma cell line	GSE15323	GPL570
Hepatitis A Virus	B04.450.420.410 B04.820.565.400.410 B04.909.777.618.400.410	—	in vivo	Pan troglodytes	Liver cells	GSE27850	GPL570
Hepatitis B Virus	B04.280.375.650.425	—	in vivo	Homo sapiens	Liver cells	GSE14668	GPL570
	B04.450.390.650.425	—	in vivo	Homo sapiens	Liver cells	GSE38941	GPL570
	B04.909.204.340.650.425						
Hepatitis C Virus	B04.450.410	Genotype 1	in vivo	Homo sapiens	Human hepatocytes from human hepatocyte chimeric mouse liver	GSE37715	GPL570
	B04.820.250.475	Genotype 1	in vivo	Homo sapiens	PBMC	GSE40184	GPL96
	B04.909.777.310.475		in vivo	Homo sapiens	Liver cells	GSE7741	GPL570
	—	—	in vivo	Homo sapiens	Liver cells	GSE7741	GPL570
Herpesvirus 1, Cercopithecine	B04.280.382.100.750.350 B04.909.204.382.100.750.350	Strain E2490	in vitro	Homo sapiens	Human foreskin fibroblast cells	GSE4521	GPL96
Human Herpesvirus 1	B04.280.382.100.750.390 B04.909.204.382.100.750.390	Strain MacIntyre	in vitro	Homo sapiens	Human foreskin fibroblast cells	GSE4521	GPL96
Human Herpesvirus 4	B04.280.382.400.500.450	—	in vivo	Homo sapiens	Nasopharynx	GSE12452	GPL570

	B04.909.204.210.400.500.400	—	in vitro	Homo sapiens	SNT-8	GSE13906	GPL570
	B04.909.204.382.400.500.400				SNT-13		
	B04.909.204.382.400.500.400				SNT-15		
	B04.909.574.204.500.500.400				Gamma-delta T cells		
					lymphocytes		
		—	in vitro	Homo sapiens	Burkitt lymphoma	GSE42867	GPL570
		—	in vitro	Homo sapiens	A549 cells	GSE5450	GPL96
Human Herpesvirus 5	B04.280.382.150.150	Towne strain (ATCC#VR977)	in vitro	Homo sapiens	Human neural stem cell	GSE19345	GPL570
	B04.909.204.382.150.150						
Human Herpesvirus 8		—	in vitro	Homo sapiens	Primary human dermal endothelial cells	GSE1377	GPL96
	B04.280.382.400.700.330	—	in vitro	Homo sapiens	Lymphatic endothelial cells	GSE16354	GPL570
	B04.909.204.210.400.700.330	—	in vitro	Homo sapiens	blood vessel endothelial cells	GSE22522	GPL570
	B04.909.204.382.400.700.330	—	in vitro	Homo sapiens	Lymphatic endothelial cells	GSE22522	GPL570
	B04.909.574.204.500.700.330	—	in vitro	Homo sapiens	EAHY	GSE33984	GPL570
		—	in vitro	Homo sapiens	Pulmonary microvascular endothelial cells	GSE6489	GPL570
Human Immunodeficiency Virus		—	in vivo	Homo sapiens	Subcutaneous abdominal adipose tissue	GSE19811	GPL96
		HIV-1	in vitro	Homo sapiens	Jurkat cells	GSE2504	GPL96
		—	in vivo	Homo sapiens	Jejunal tissue collected by upper endoscopy	GSE28177	GPL570
	B04.820.650.589.650.350	—	in vivo	Homo sapiens	CD11c+ Myeloid Dendritic Cells	GSE42058	GPL570
	B04.909.777.731.589.650.350	—	in vivo	Homo sapiens	CD11c+ Myeloid Dendritic Cells	GSE42058	GPL570
		HIV-1	in vitro	Homo sapiens	CRL-2615	GSE42291	GPL570
		—	in vivo	Homo sapiens	CD4+ T cells	GSE6740	GPL96
		HIV-1	in vivo	Homo sapiens	CD8+ T cells	GSE6740	GPL96
Human Papillomavirus	B04.280.535 ^b	—	in vitro	Homo sapiens	SCC4	GSE24089	GPL570
	B04.909.204.210.655 ^b				SCC74A		
	B04.909.574.204.655 ^b				SCC47		

	B04.909.624 ^b	HPV-16,HPV-18	in vivo	Homo sapiens	CaSki	GSE6791	GPL570
		HPV-31,HPV-33			Cervical cancer and normal cells		
		HPV-35,HPV-58			Head and neck cancer and normal cells		
		HPV-66					
Human Rhinovirus	B04.820.565.775	—	in vivo	Homo sapiens	Nasal epithelium	GSE11348	GPL570
	B04.909.777.618.775	—	in vitro	Homo sapiens	Human primary bronchial epithelial cells	GSE13396	GPL570
Influenza A Virus	B04.820.545.405.400 B04.909.777.545.405.400	Strain PR8	in vitro	Homo sapiens	HUVEC	GSE13637	GPL570
		Strain FPV					
		Strain H5N1					
		Strain PR8	in vitro	Homo sapiens	Primary alveolar macrophages alveolar epithelial cells	GSE30723	GPL570
		Strain A/WSN/33(H1N1)	in vitro	Homo sapiens	A549 cells	GSE31469	GPL570
		Strain A/WSN/33(H1N1)	in vitro	Homo sapiens	A549 cells	GSE31470	GPL570
		Strain A/Duck/Malaysia/01(H9N2)	in vitro	Homo sapiens	A549 cells	GSE31471	GPL570
		Strain A/duck/Malaysia/F118/08/2004(H5N2)	in vitro	Homo sapiens	A549 cells	GSE31472	GPL570
		Strain A/Singapore/478/2009 (pH1N1)	in vitro	Homo sapiens	A549 cells	GSE31518	GPL570
		—	in vivo	Homo sapiens	PBMC	GSE34205	GPL570
Lymphocytic Choriomeningitis Virus	B04.820.057.070.100.550	Strain LCMV-WE	in vivo	Macaca mulatta	Liver cells	GSE12254	GPL570
	B04.909.777.080.070.100.550	Strain LCMV-ARM			PBMC		
Measles Virus	B04.820.455.600.650.500.500	—	in vivo	Homo sapiens	PBMC	GSE5808	GPL96
	B04.909.777.455.600.650.500.500	—					
Norwalk Virus	B04.820.095.550.500	—	in vitro	Homo sapiens	Huh-7	GSE15520	GPL570
	B04.909.777.162.550.500	—					
Respiratory Syncytial	B04.820.455.600.670.600.750	—	in vitro	Homo sapiens	Isolated conventional and	GSE24132	GPL570

Virus	B04.909.777.455.600.670.600.750	—	in vivo	Homo sapiens	plasmacytoid dendritic cells PBMC	GSE34205	GPL570
Severe Acute Respiratory Syndrome-Associated Coronavirus	B04.820.504.540.150.750	—	in vitro	Homo sapiens	Bronchial epithelial cell line 2B4	GSE17400	GPL570
	B04.909.777.500.540.150.750	Strain rSARS-CoV Strain rSARS-CoV-ΔE	in vivo	Chlorocebus aethiops	Vero E6 cells MA-104 cells	GSE30589	GPL570
Vaccinia Virus	B04.280.650.160.650.900 B04.909.204.783.160.650.900	Strain wild type Strain E3L mutant	in vitro	Homo sapiens	HeLa cell line	GSE11238	GPL570
Vesicular Stomatitis Virus	B04.820.455.750.900 ^c B04.909.777.455.750.900 ^c	—	in vitro	Homo sapiens	Human Astrocytes	GSE2449	GPL96
Western Equine Encephalitis Virus	B04.820.850.054.360 B04.909.777.270.440 B04.909.777.923.054.360	—	in vitro	Homo sapiens	BE(2)-C cell line	GSE16451	GPL570

Abbreviations: HUVEC, human umbilical vein endothelial cells; PBMC, peripheral blood mononuclear cells.

^a “—”, no specific declaration on strain information in the dataset descriptions.

^b The MeSH tree number refers to *Papillomaviridae* for multiple species of *Papillomaviridae* included.

^c The MeSH tree number refers to the virus’s genus due to inadequate information about its species in dataset descriptions.