

FIG. 1A

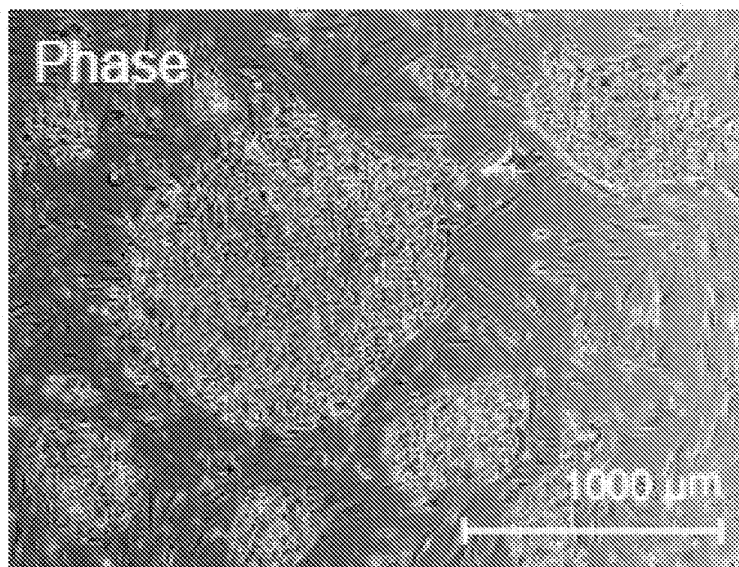


FIG. 1B

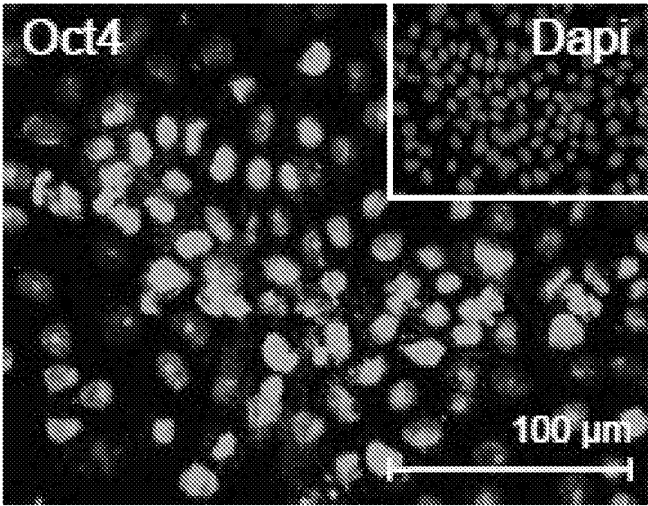


FIG. 1C

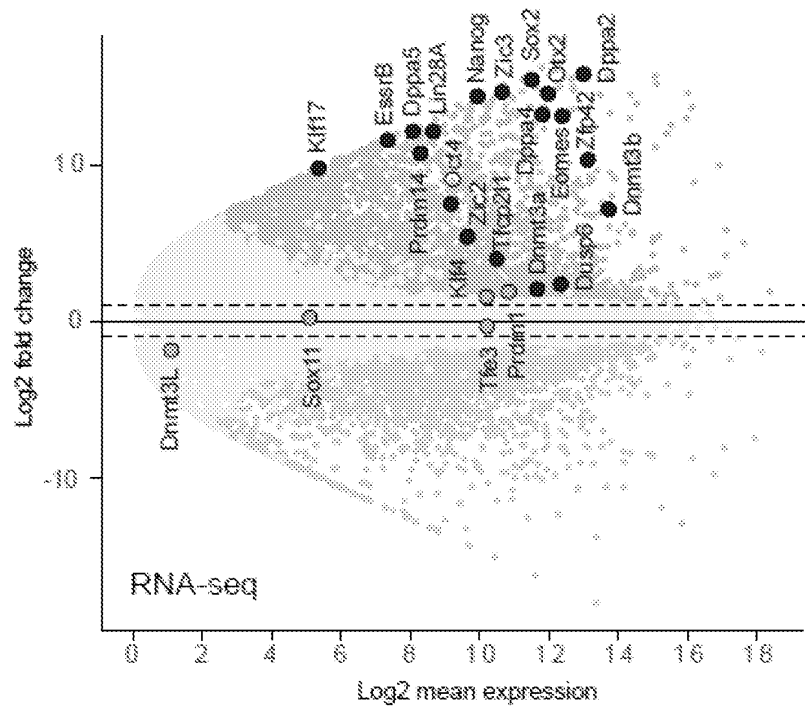


FIG. 1D

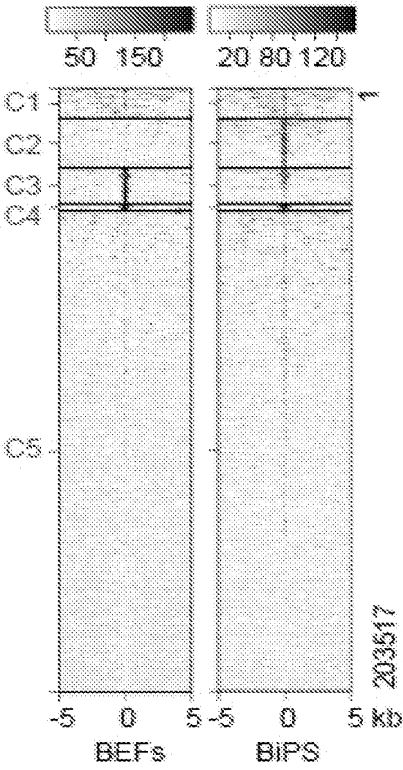


FIG. 1E

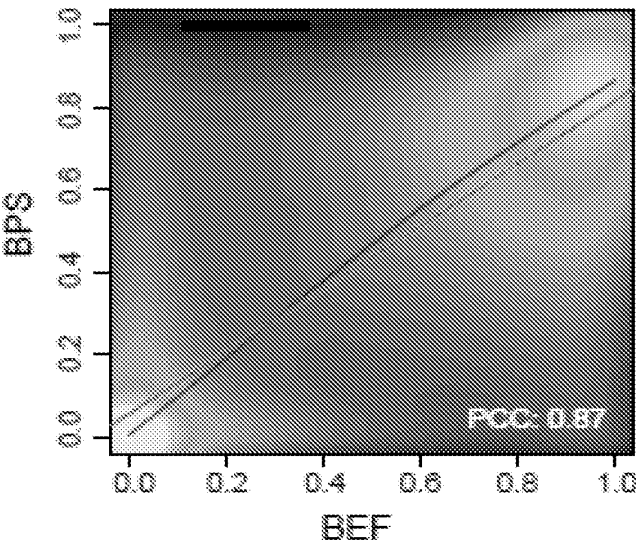


FIG. 1F

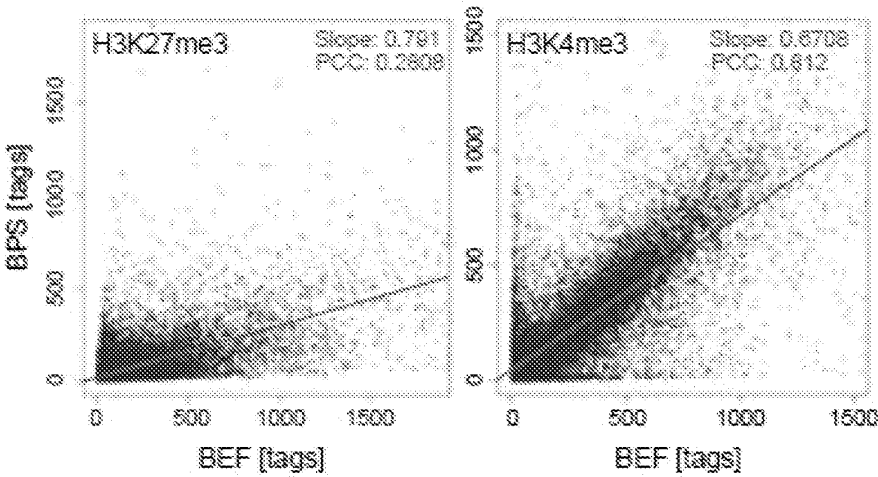


FIG. 1G

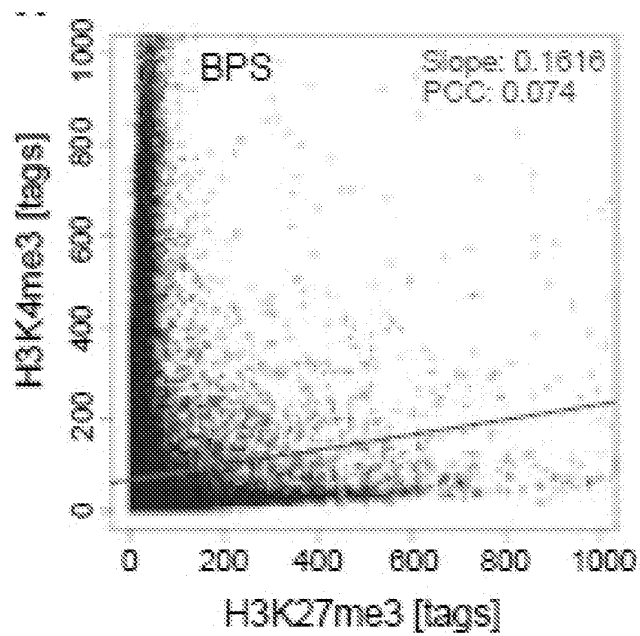
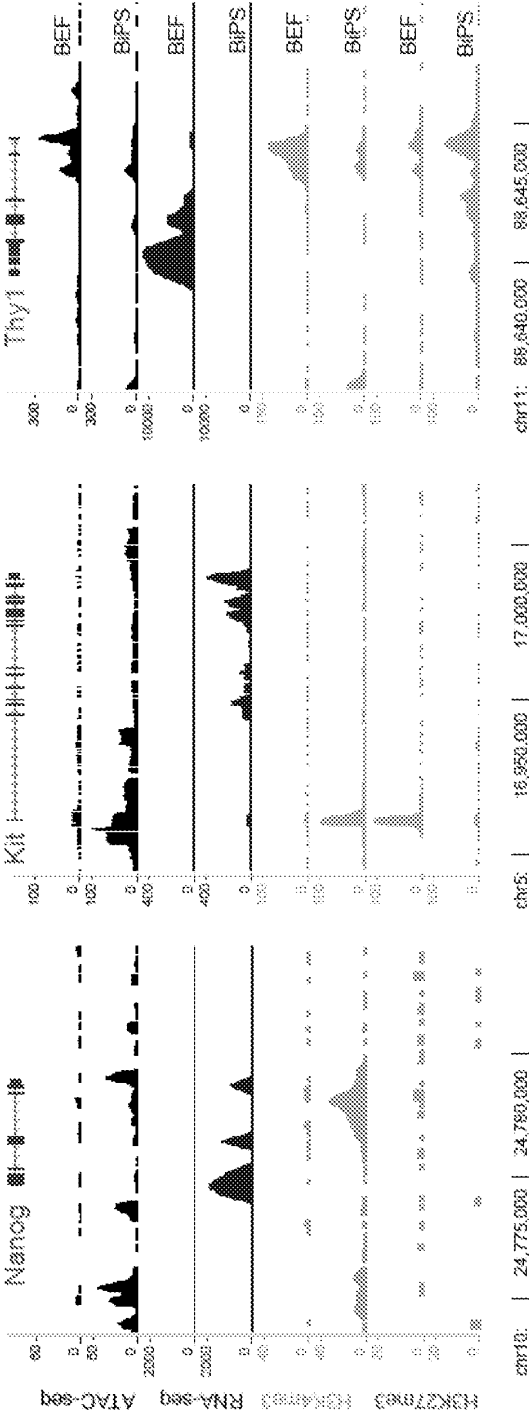


FIG. 1H

FIG. 11



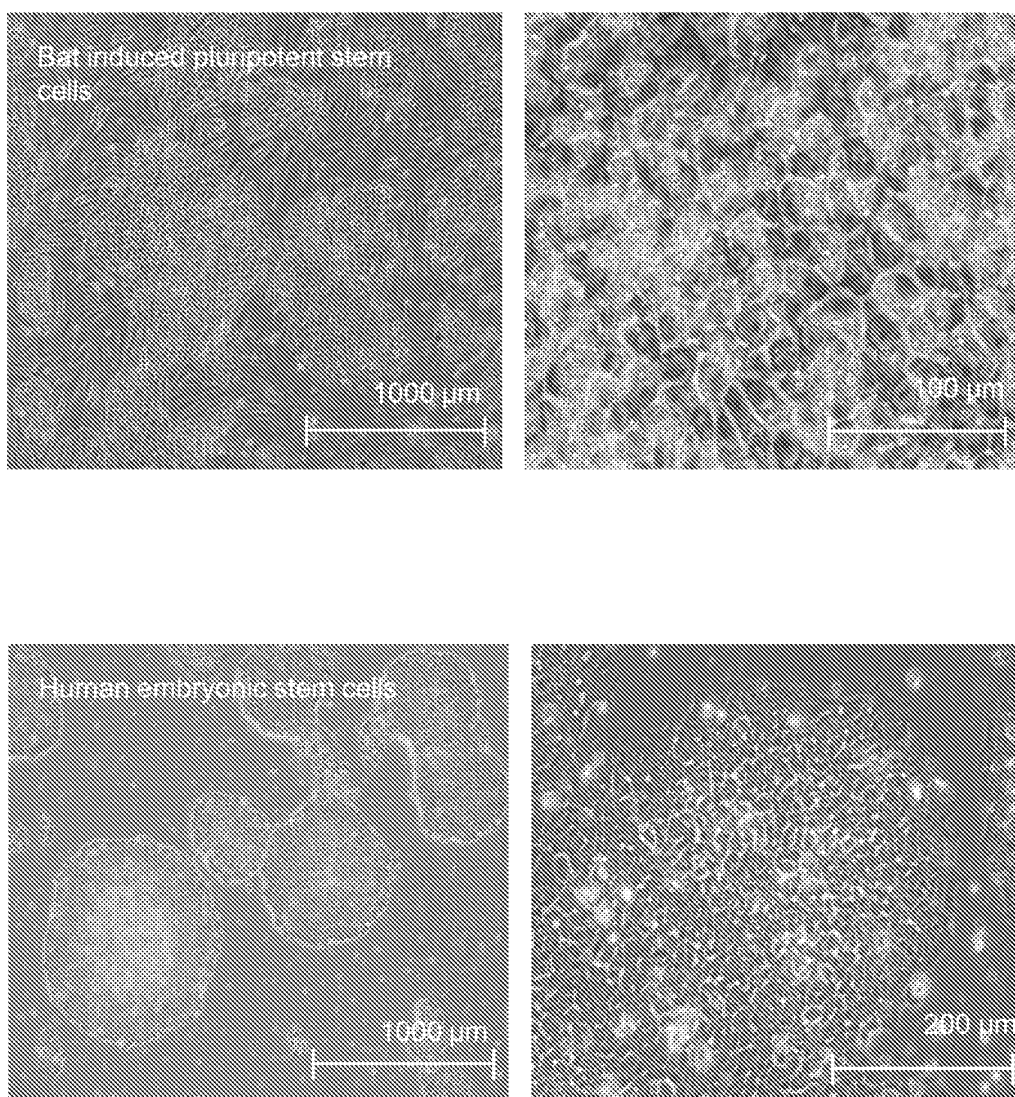


FIG. 2A

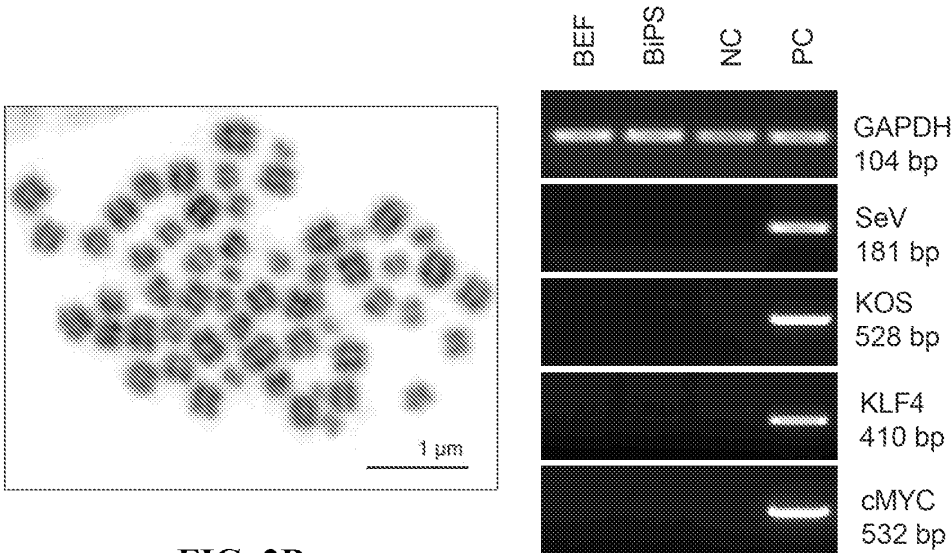


FIG. 2B

FIG. 2C

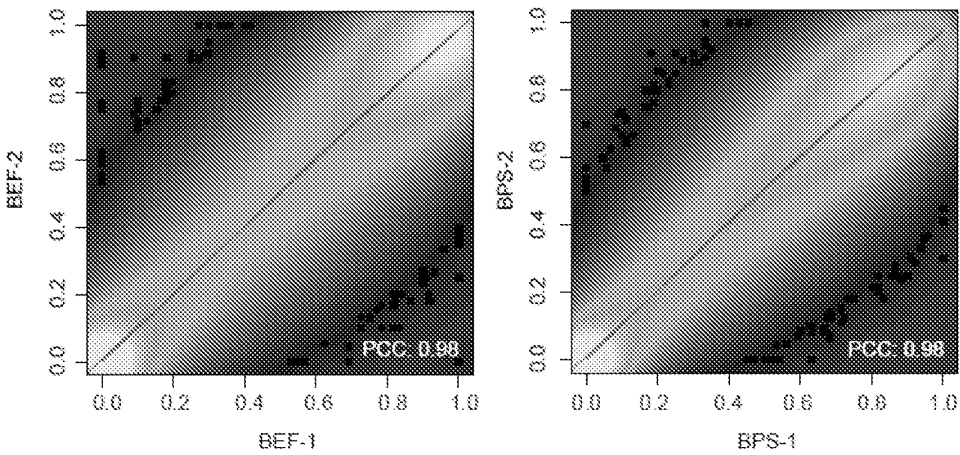


FIG. 2D

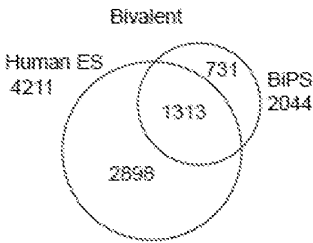


FIG. 2E

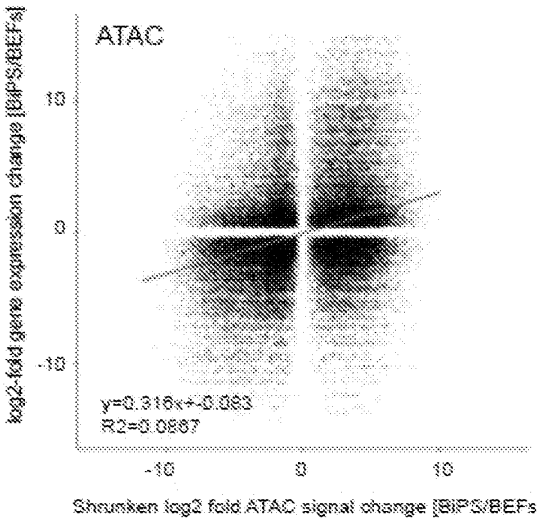


FIG. 2F

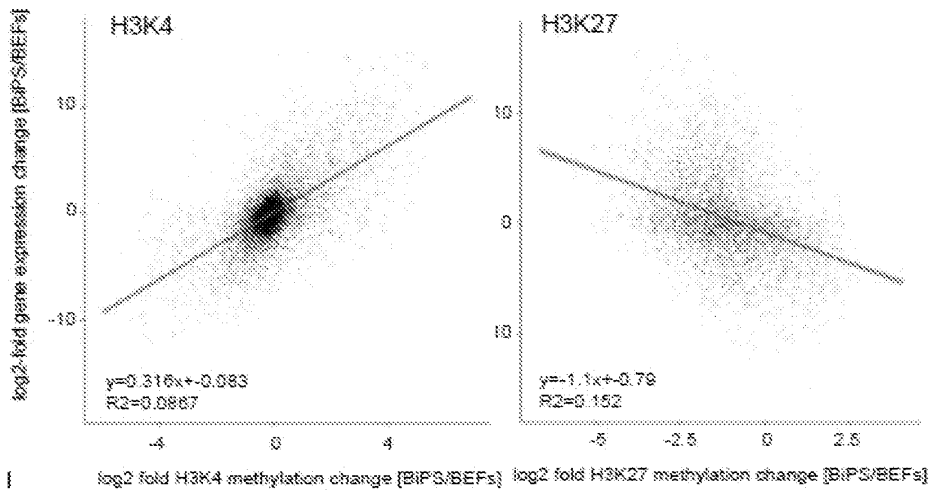


FIG. 2G

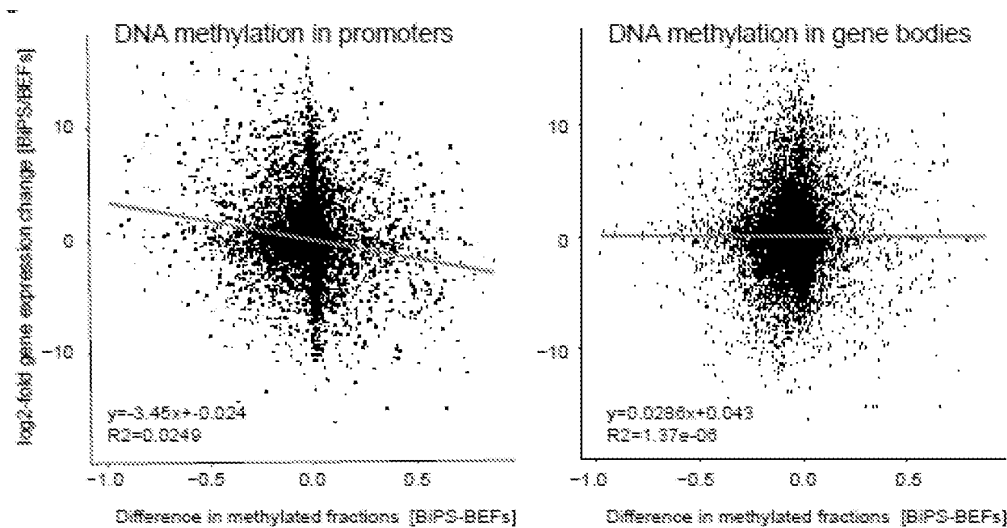
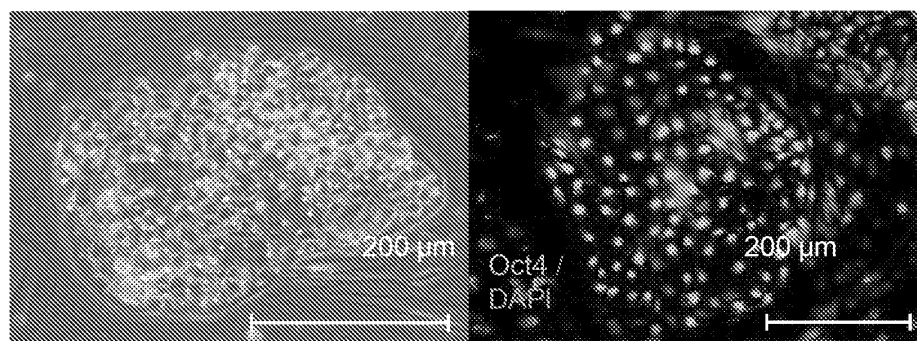
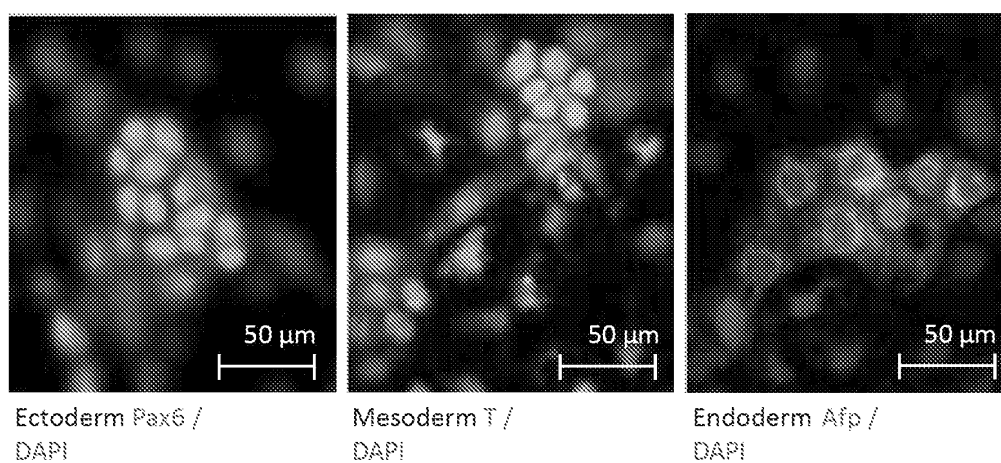


FIG. 2H

**FIG. 2I****FIG. 2J**

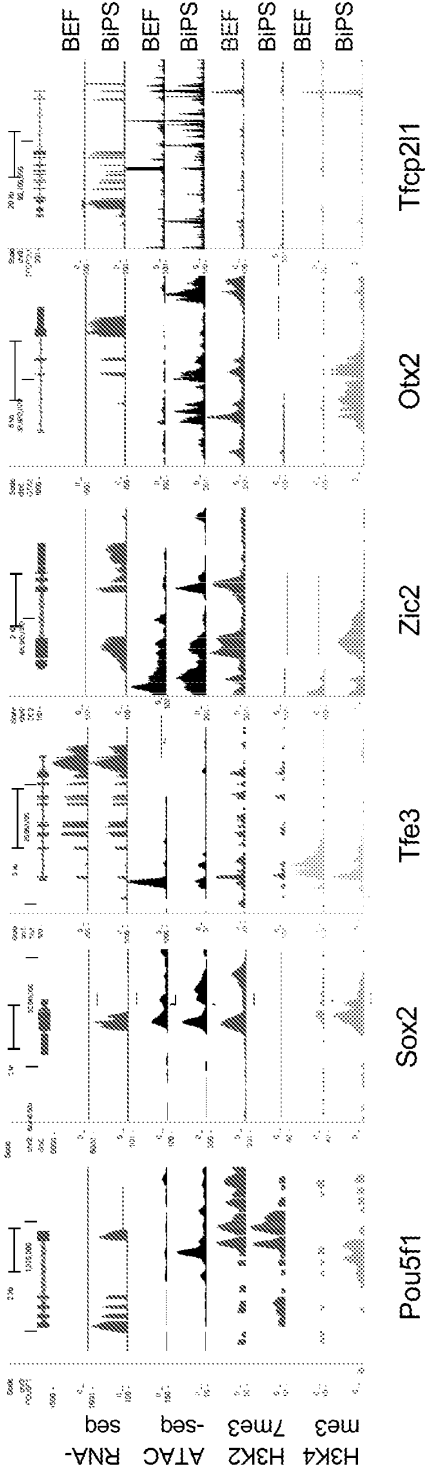


FIG. 2K

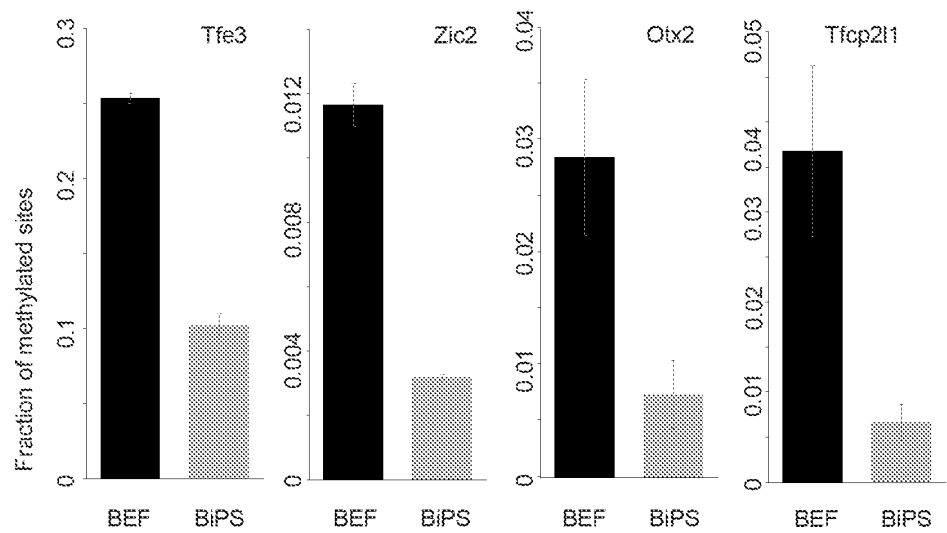


FIG. 2L

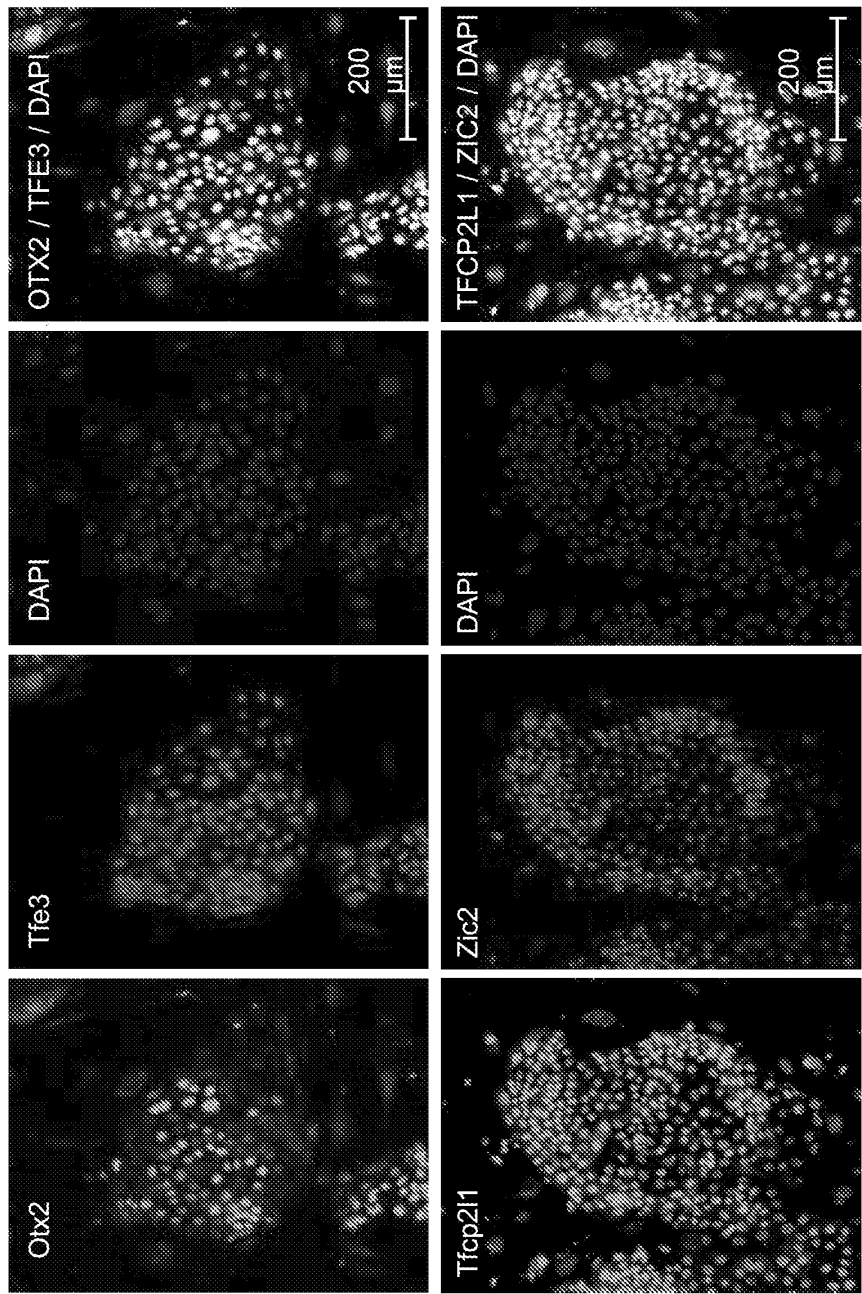


FIG. 2M

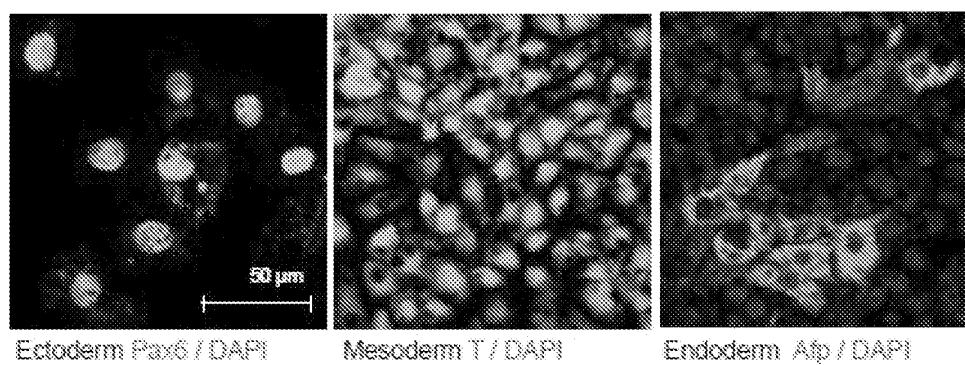


FIG. 3A

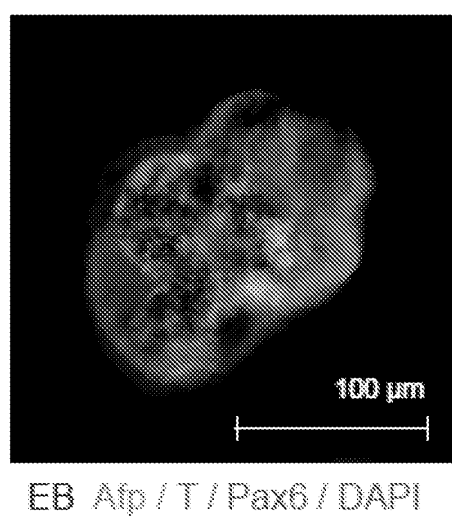


FIG. 3B

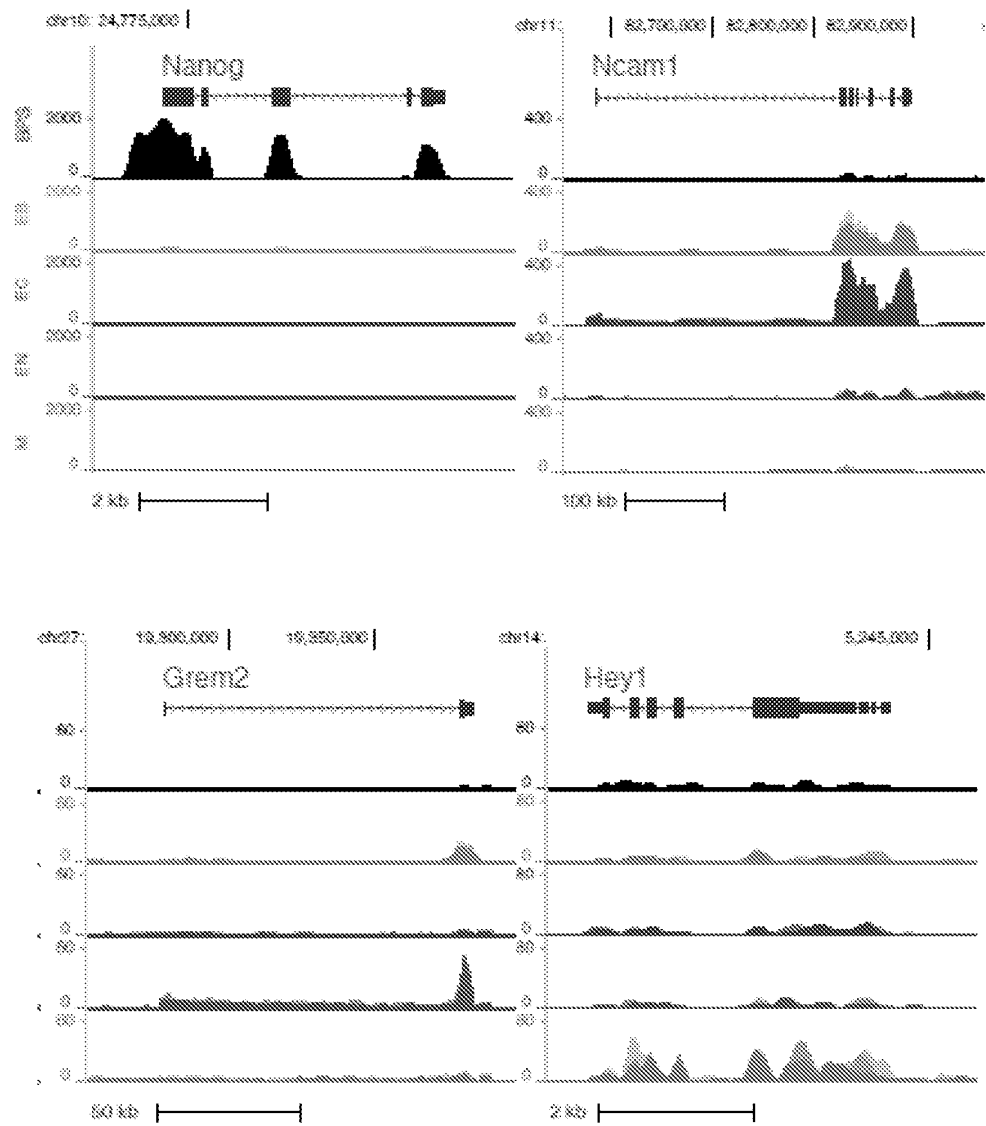


FIG. 3C

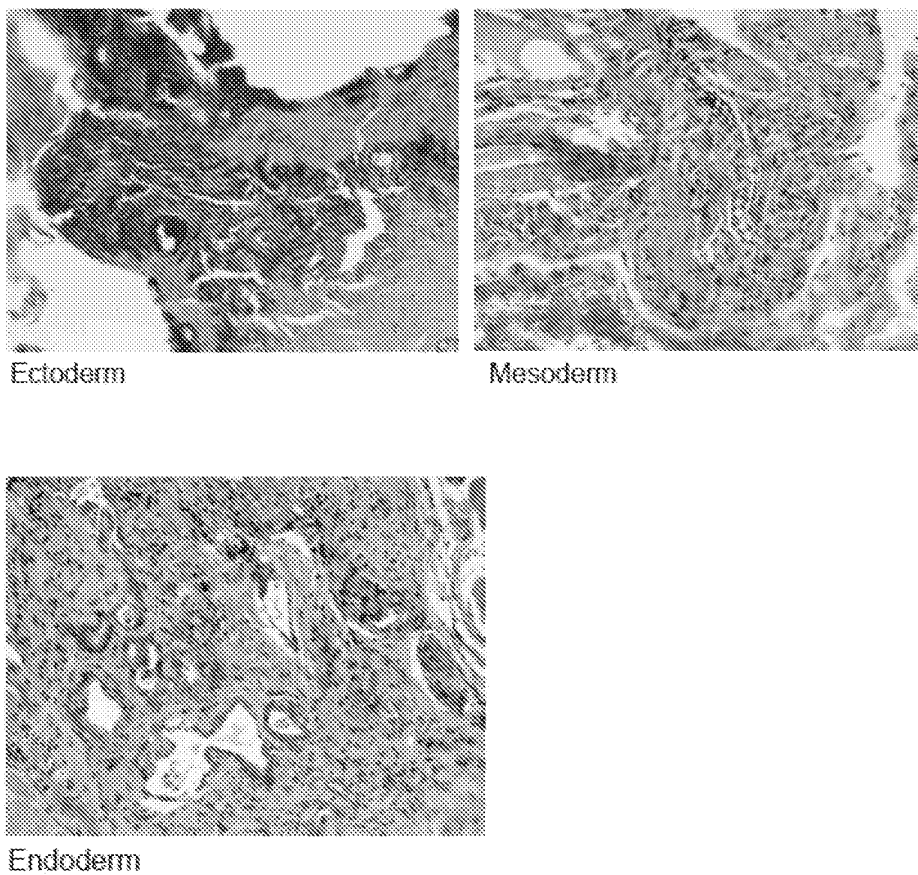


FIG. 3D

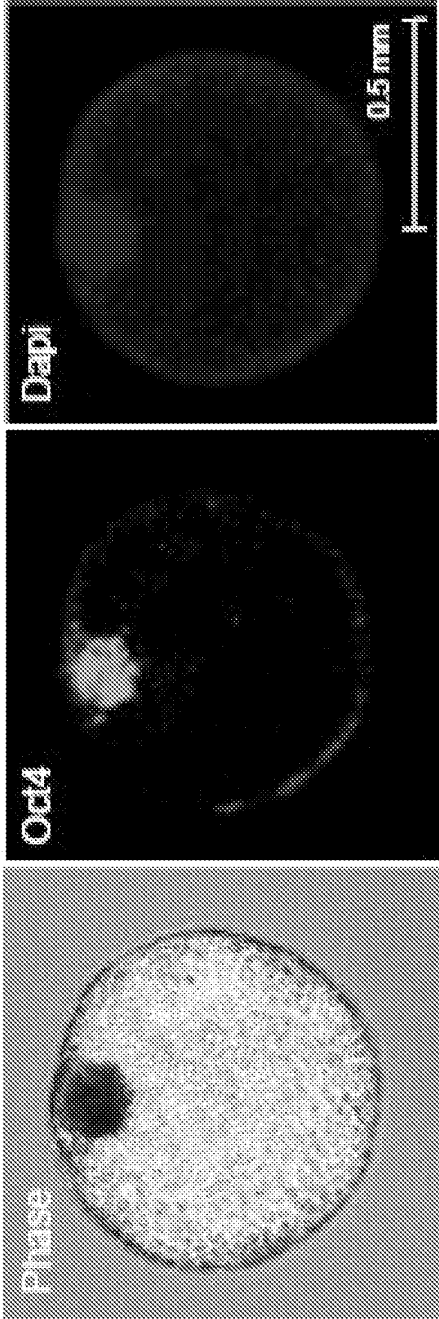


FIG. 3E

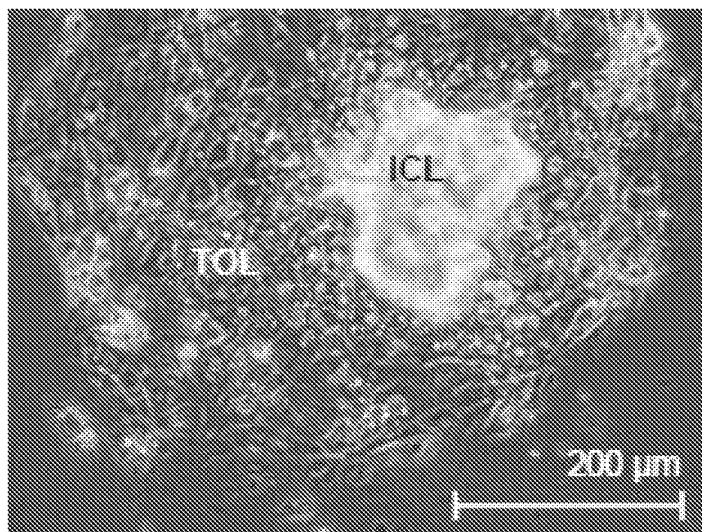


FIG. 3F

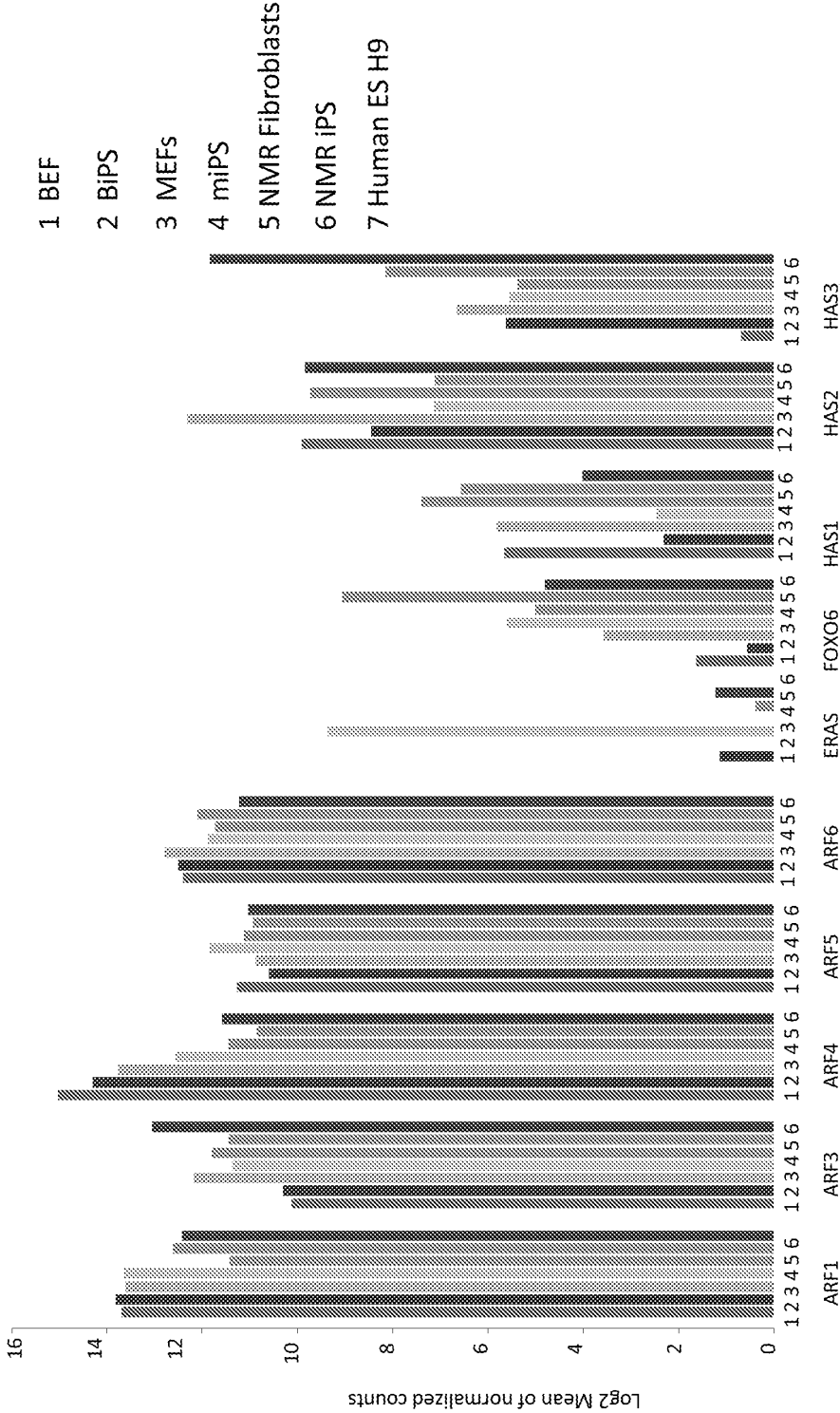


FIG. 3G

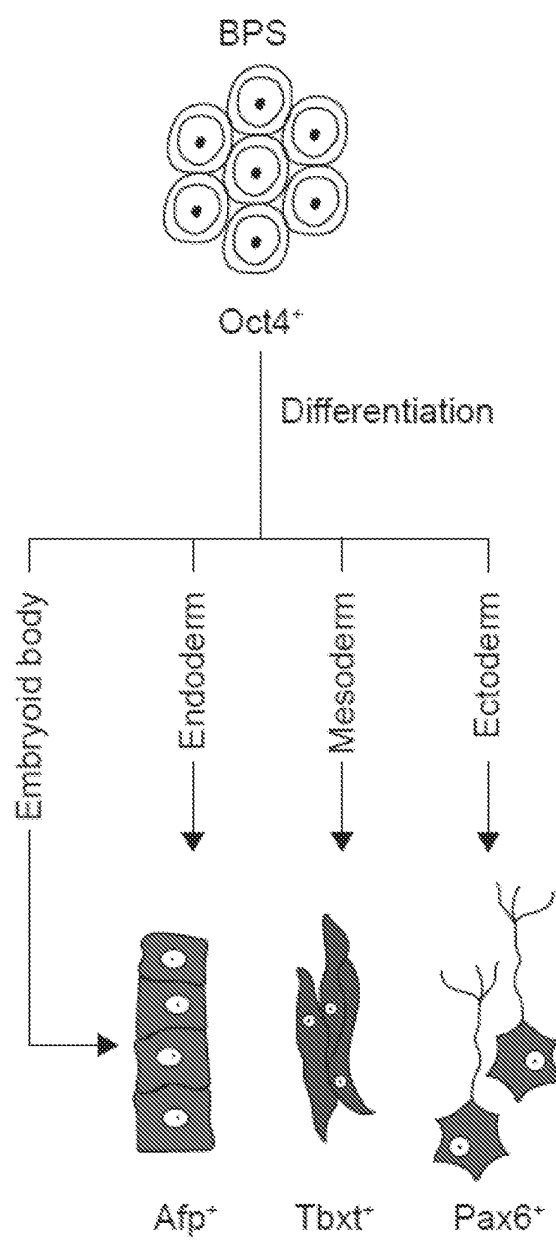


FIG. 4A

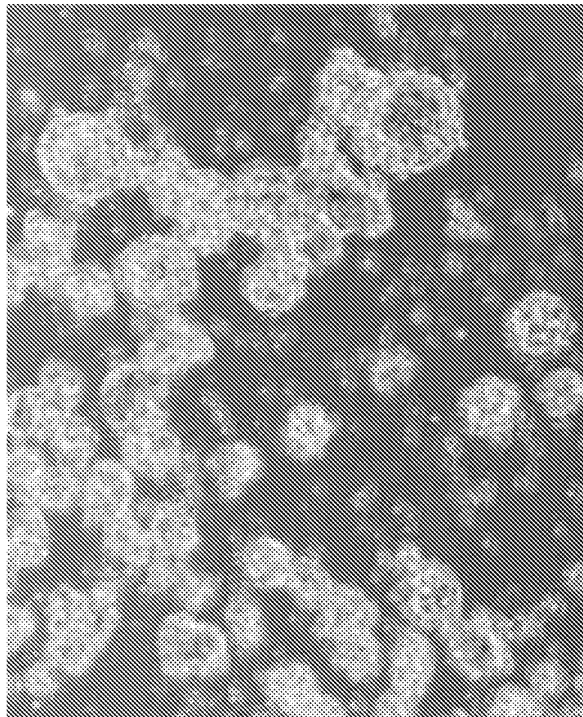


FIG. 4B

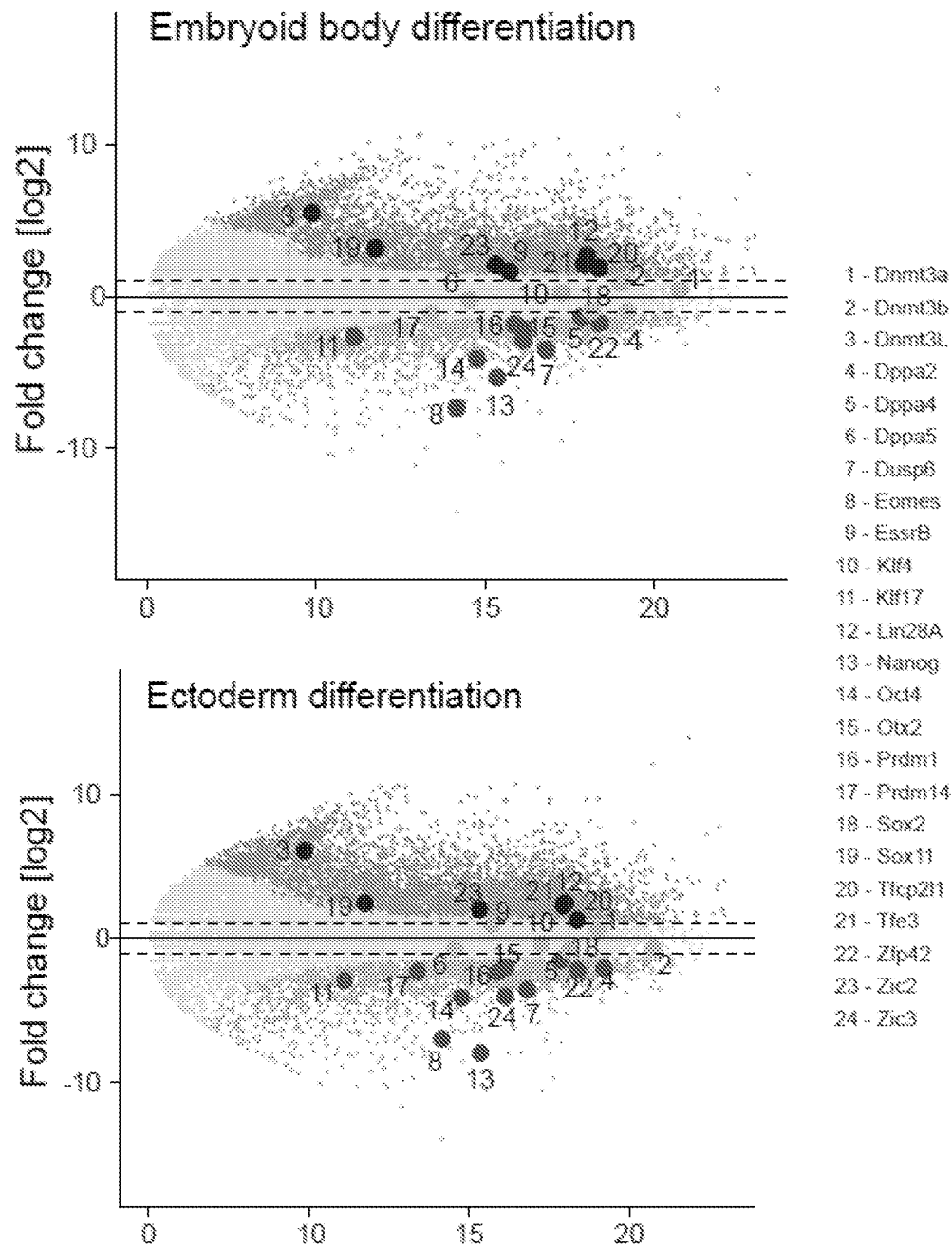


FIG. 4C

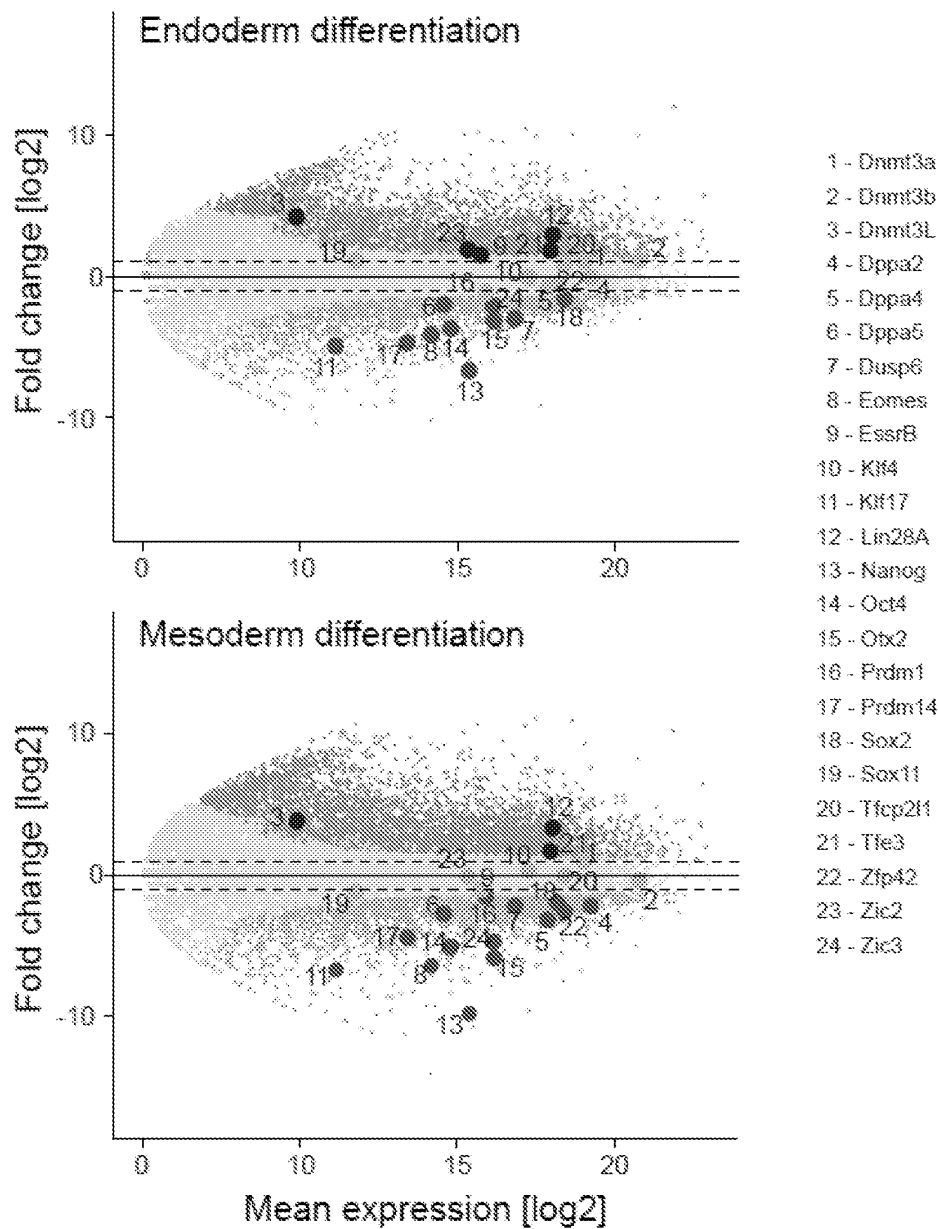


FIG. 4C Continued

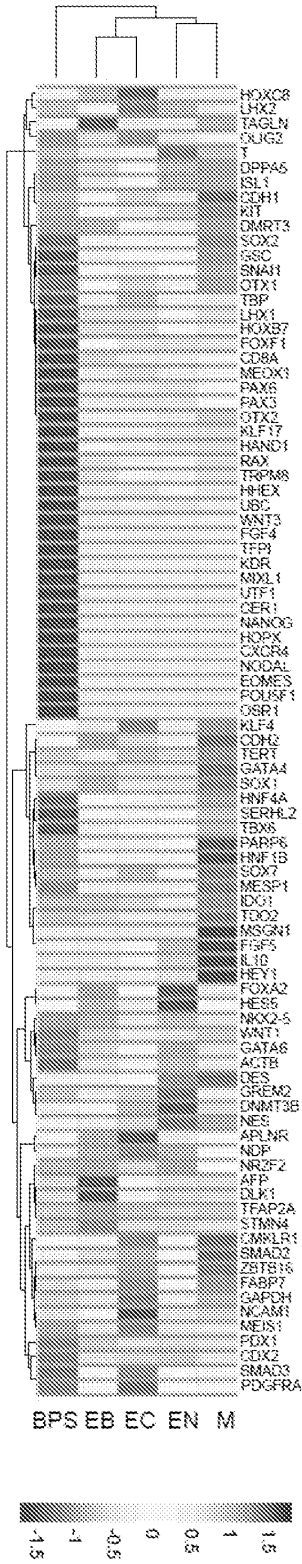


FIG. 4D

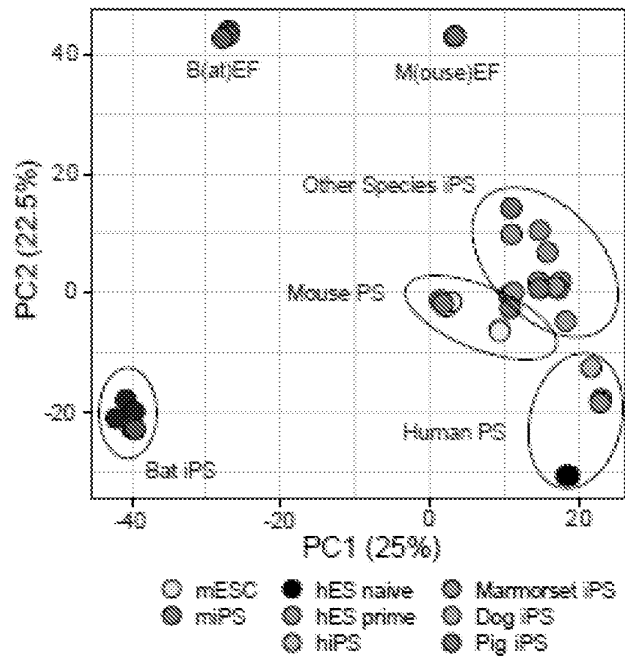


FIG. 5A

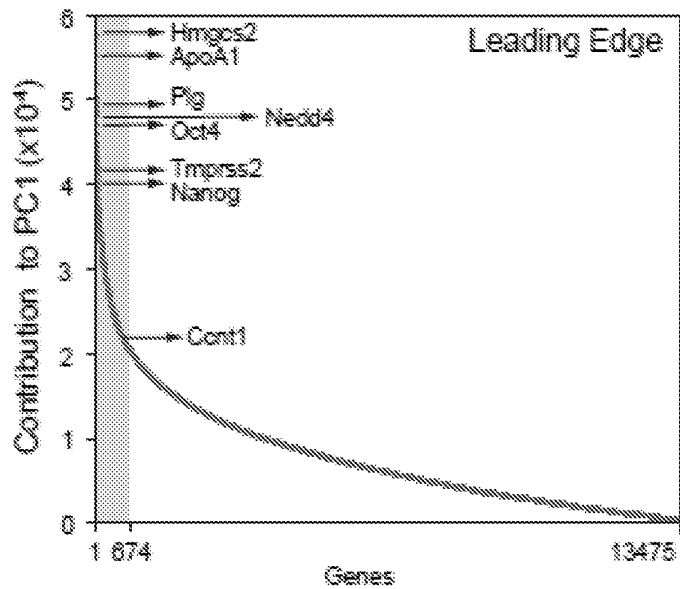


FIG. 5B

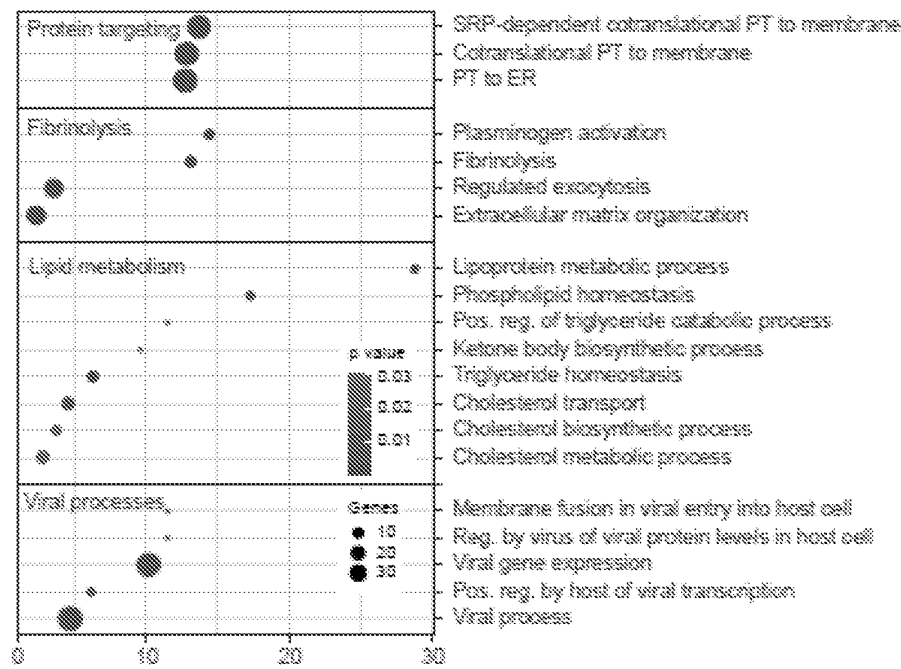


FIG. 5C

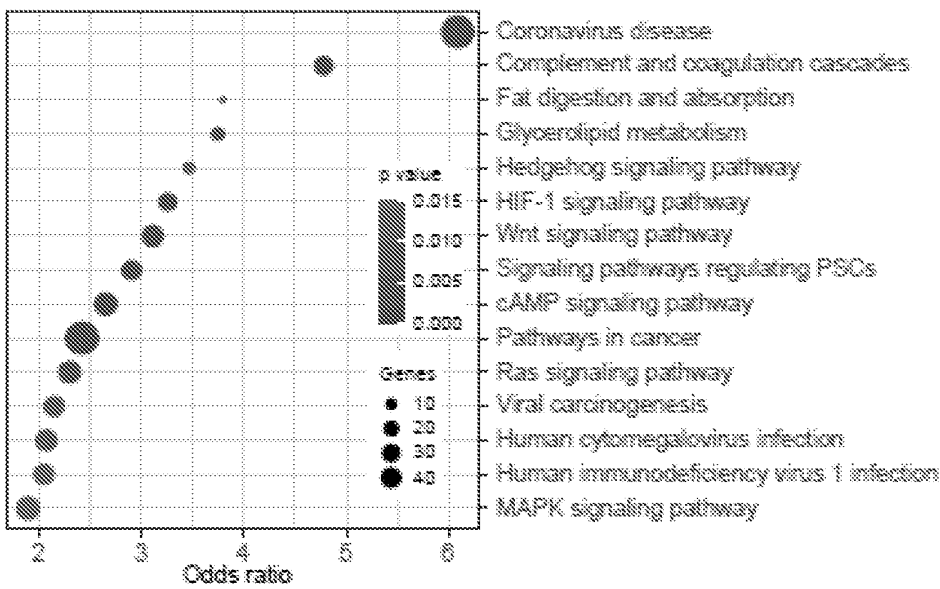


FIG. 5D

FIG. 6A

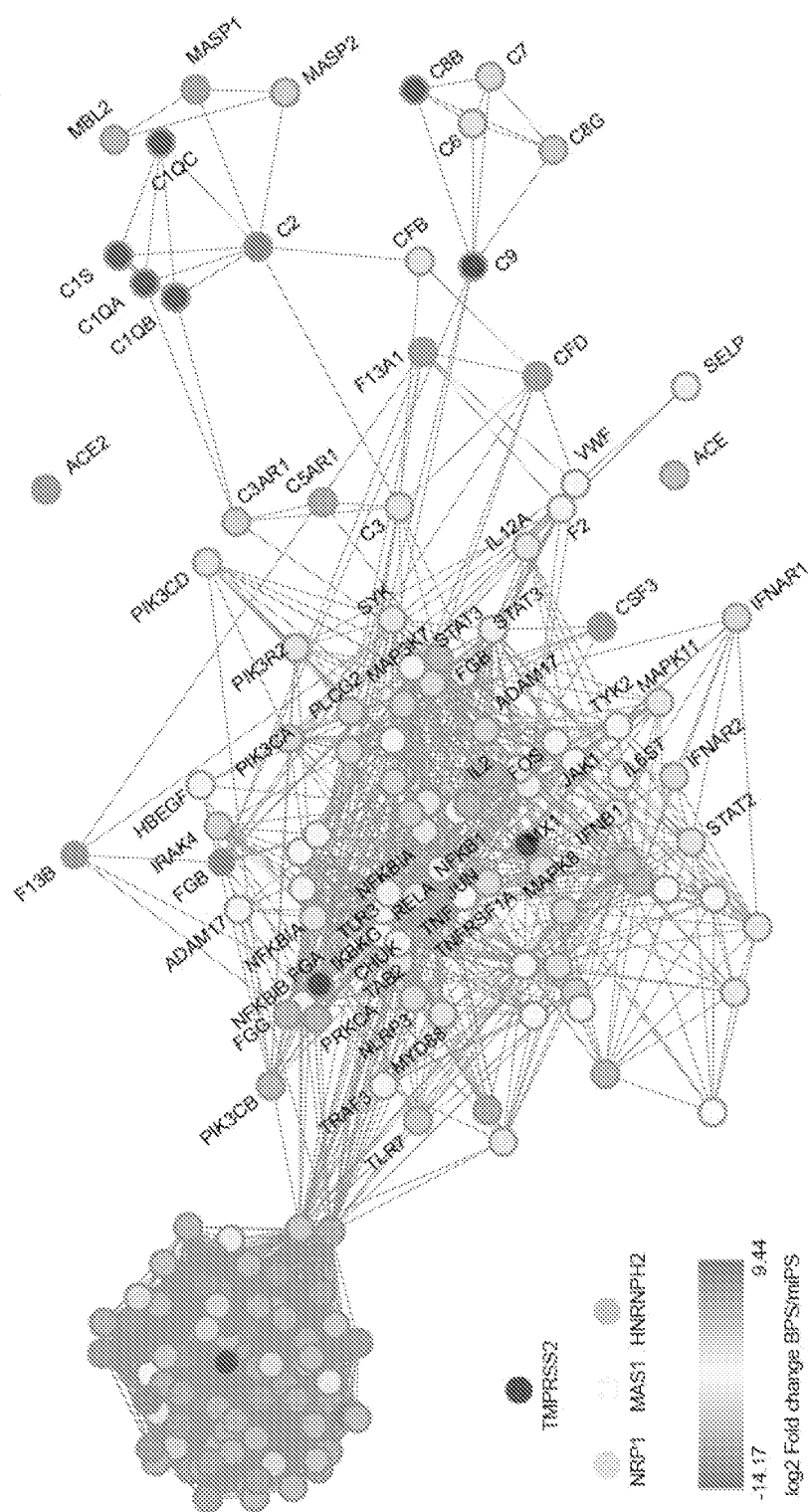
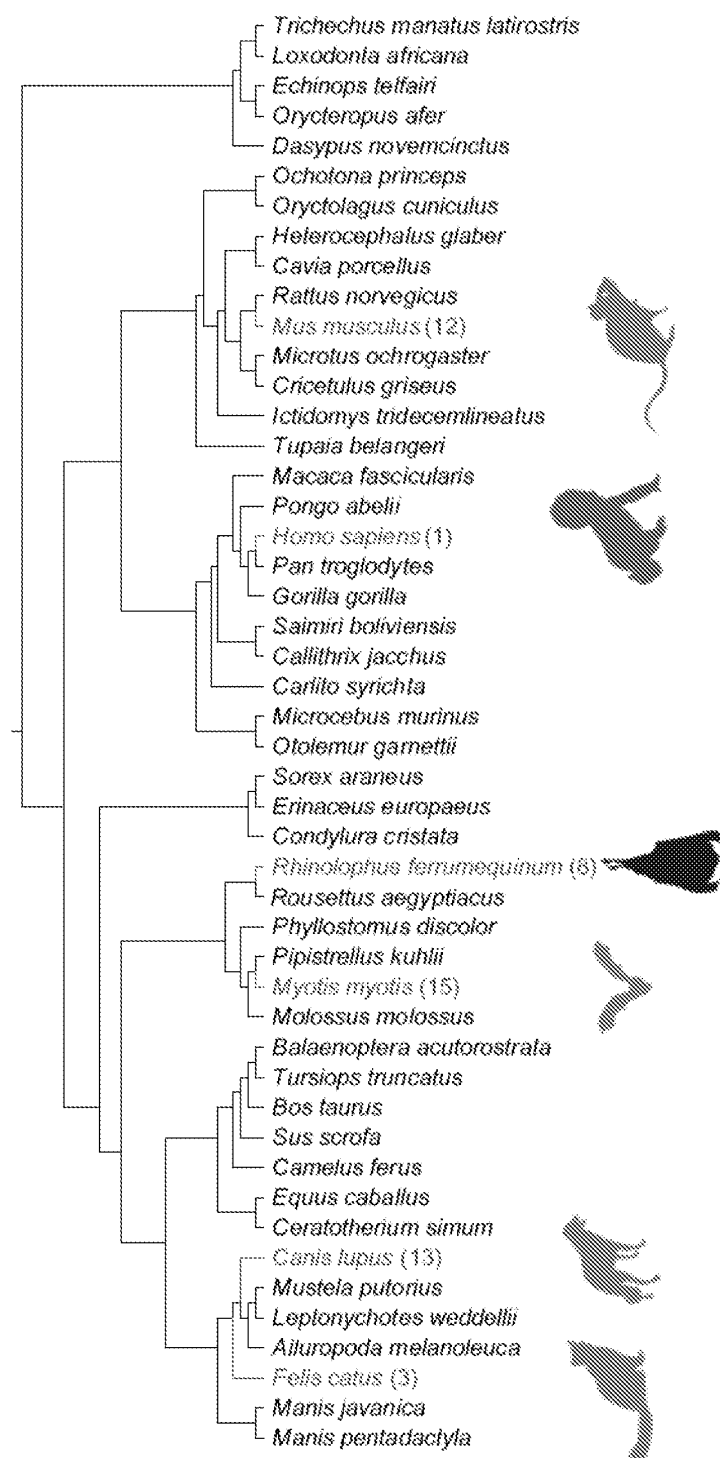


FIG. 6B



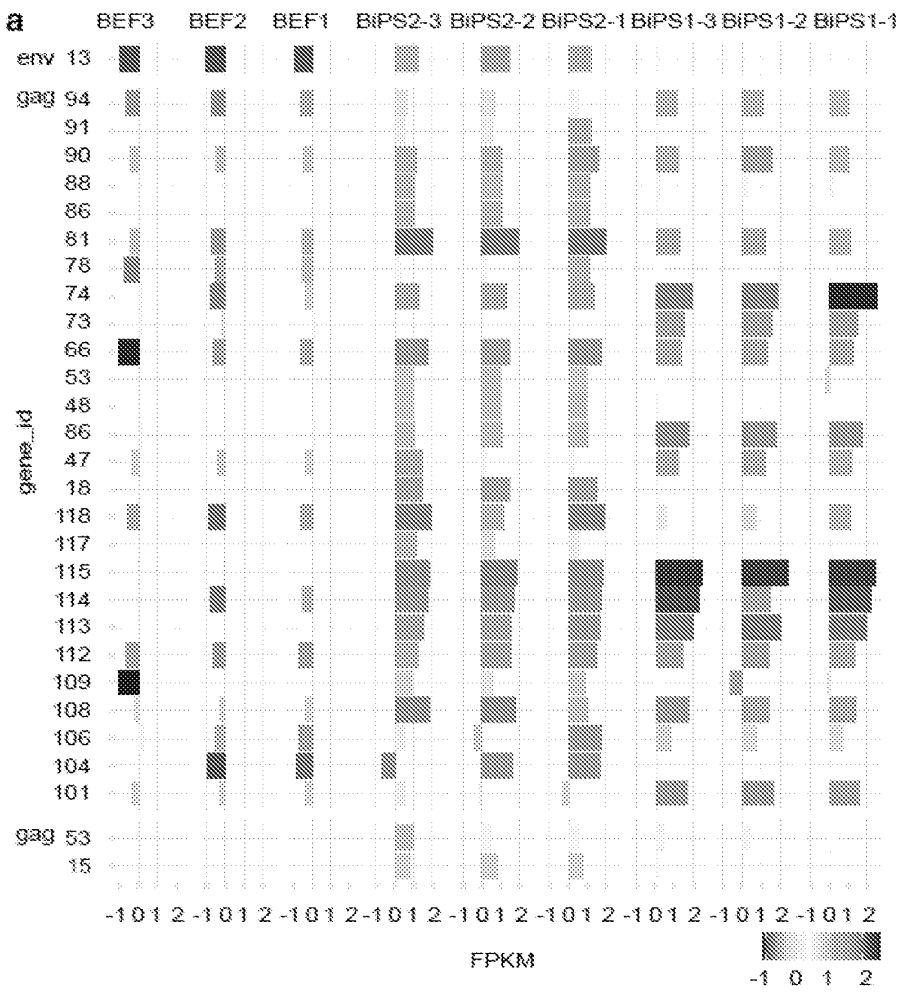
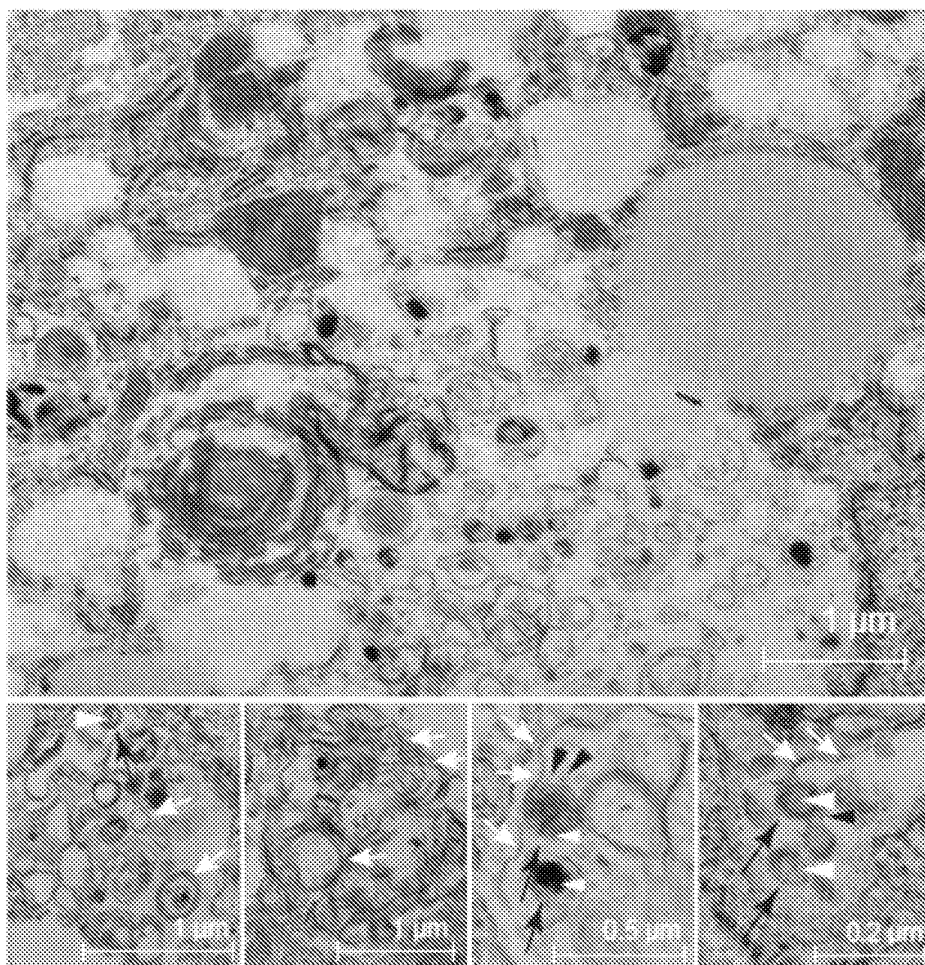


FIG. 7A

**FIG. 7E**

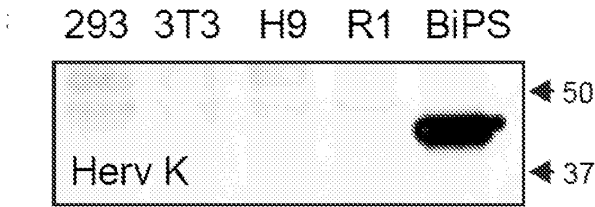


FIG. 7F

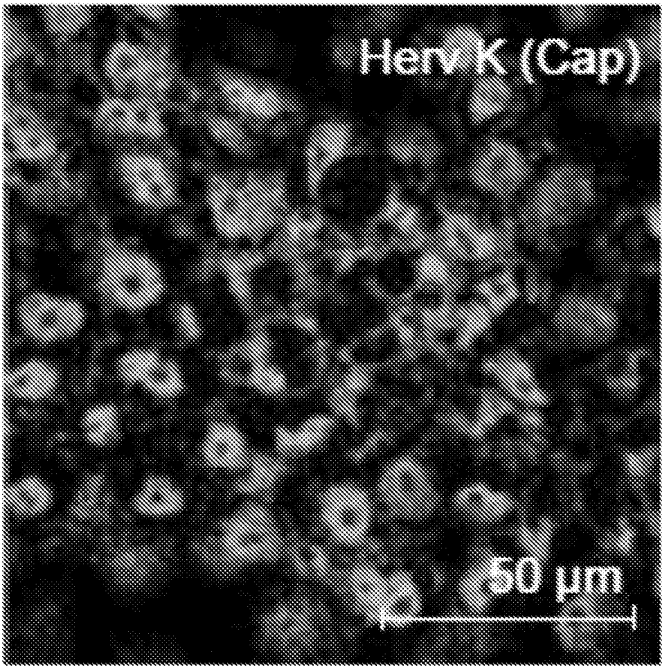


FIG. 7G

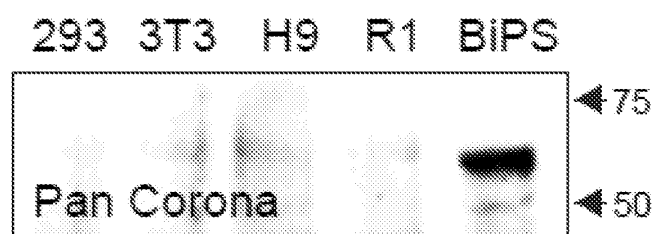


FIG. 7H

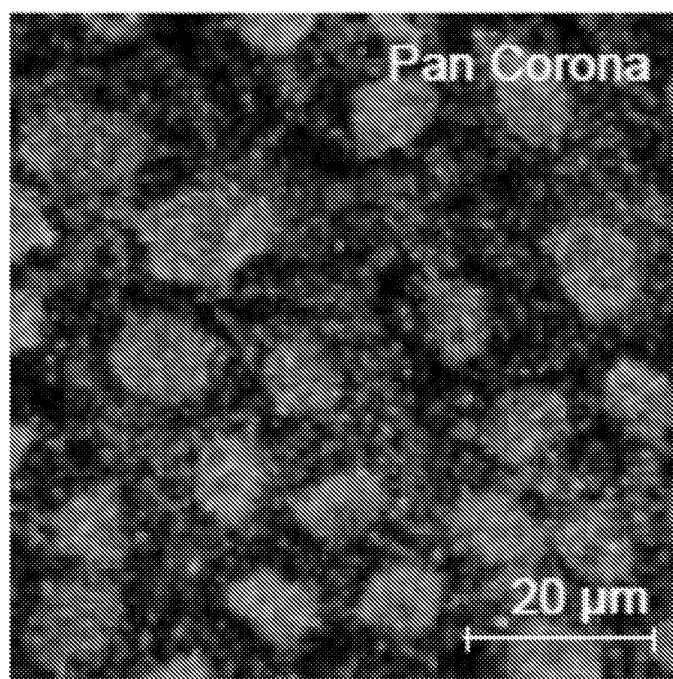


FIG. 7I

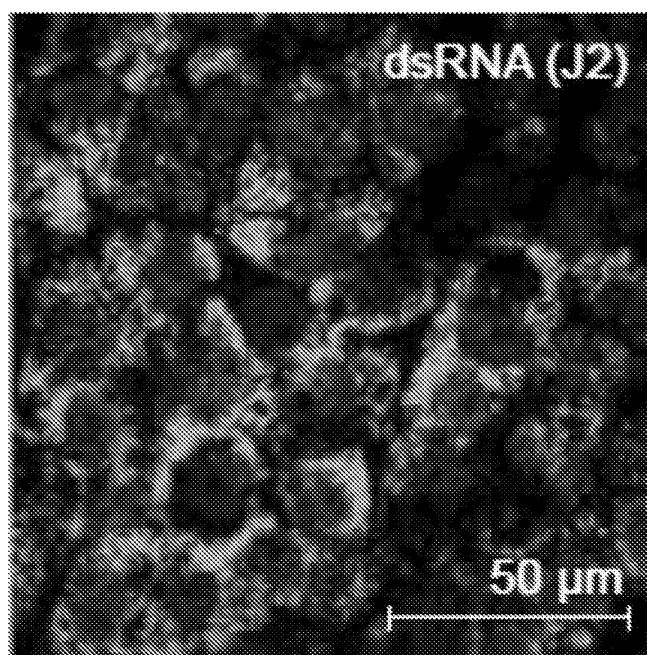


FIG. 7J

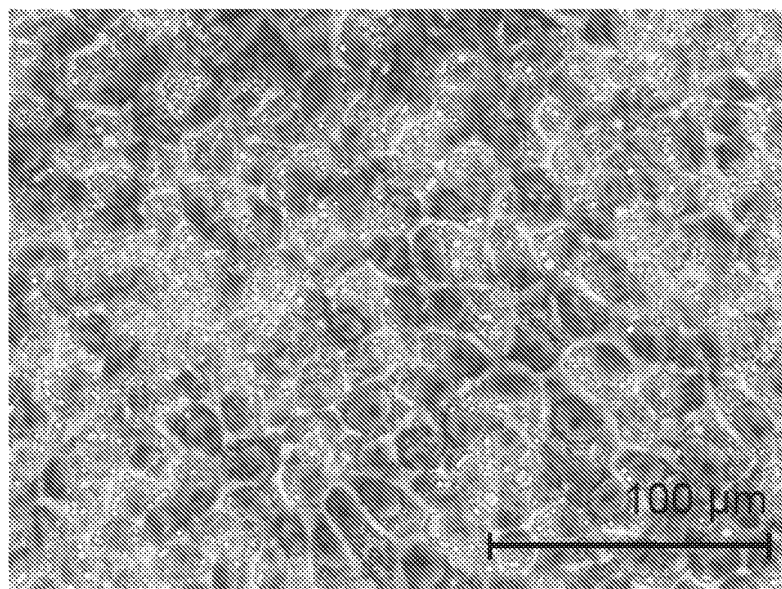


FIG. 8A

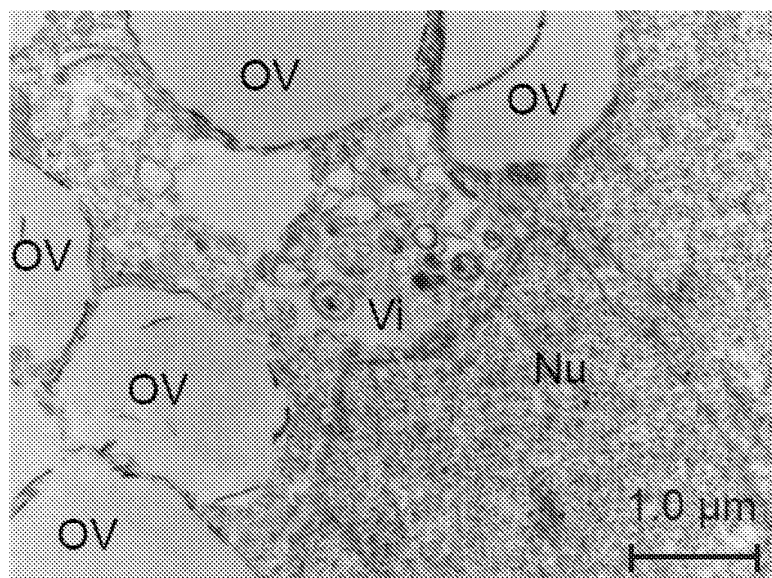


FIG. 8B

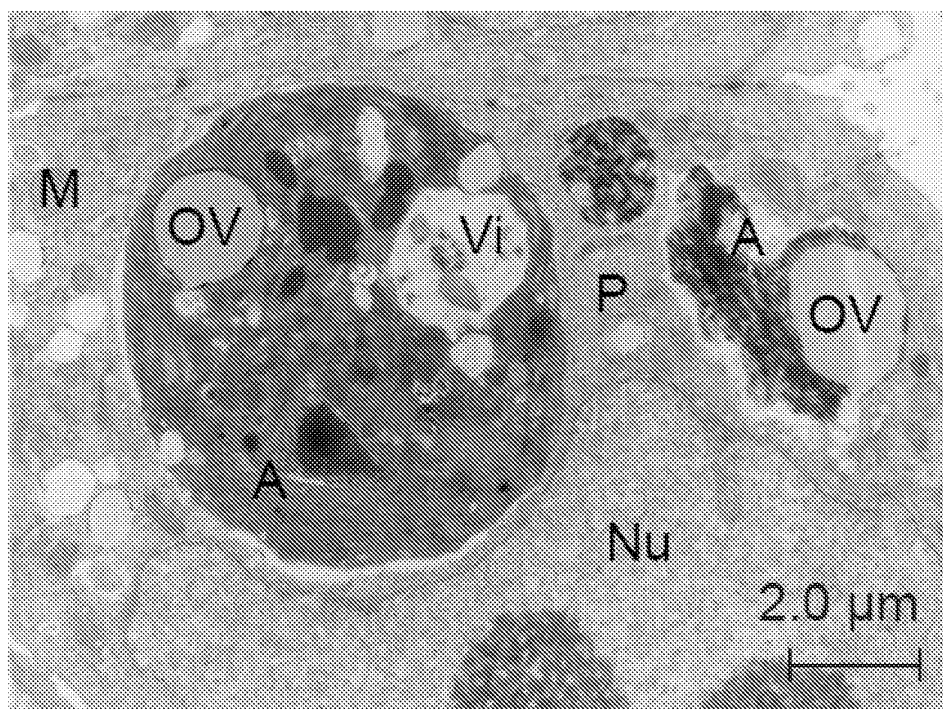


FIG. 8C

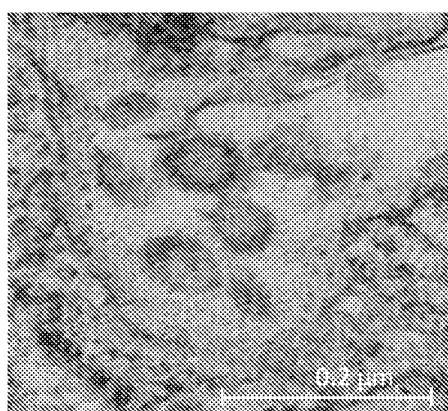


FIG. 8D

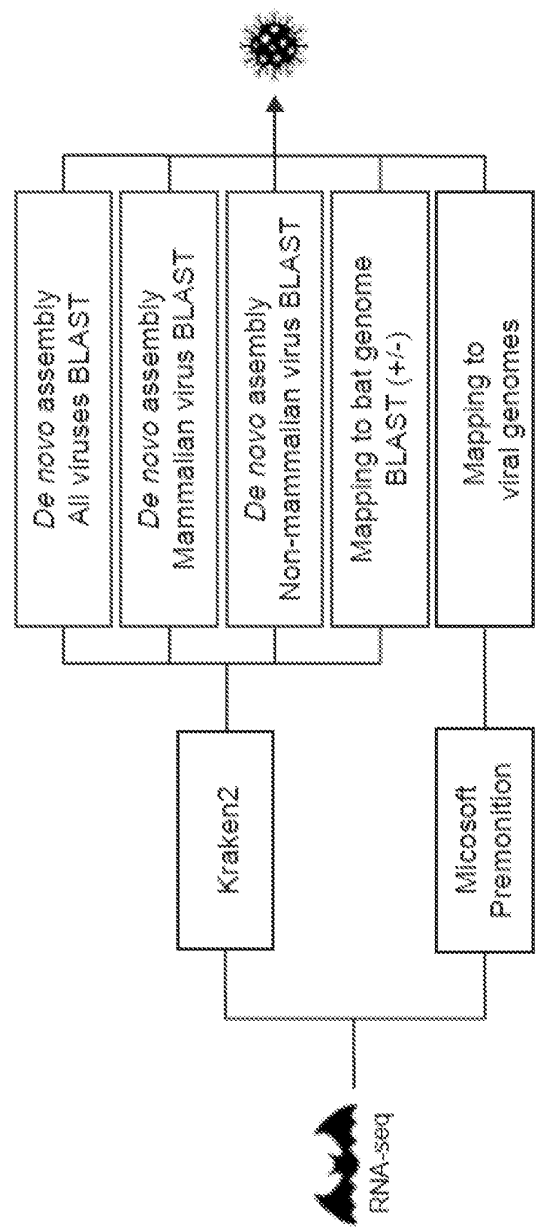


FIG. 9A

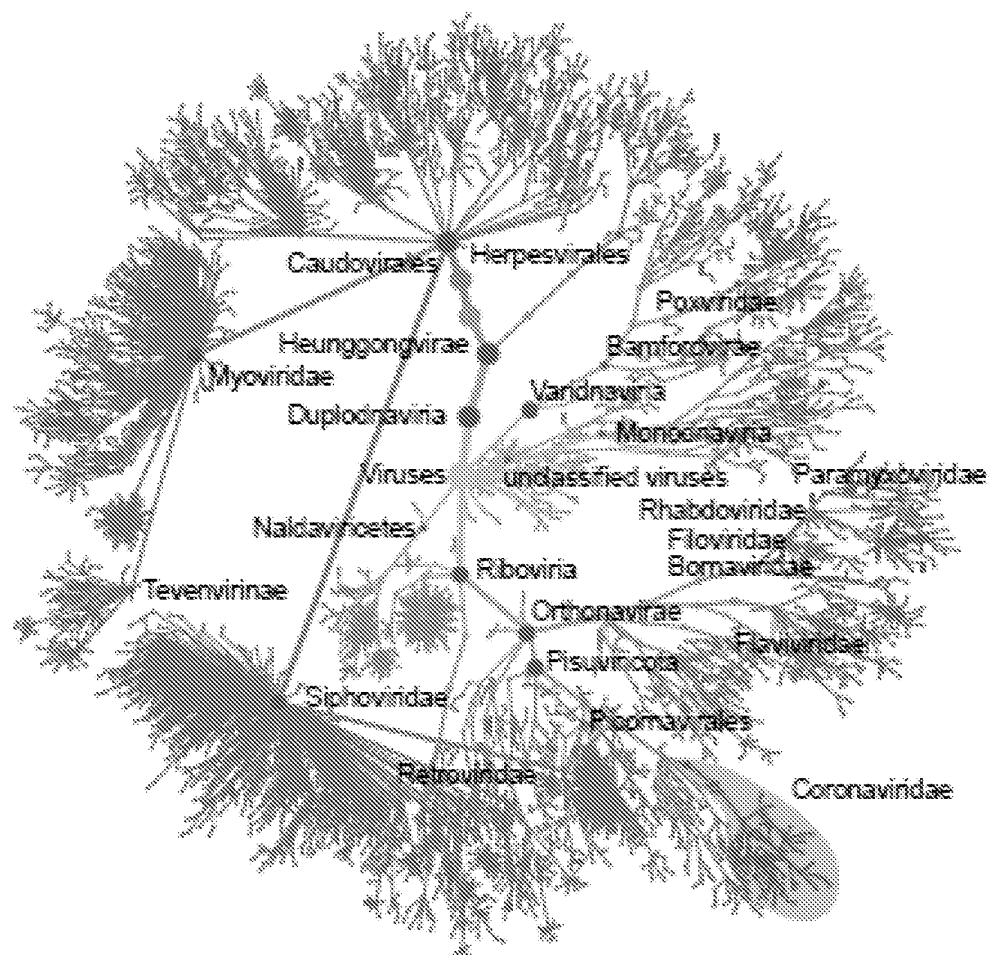


FIG. 9B

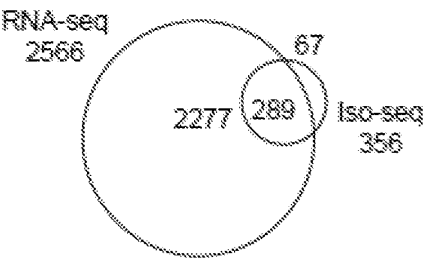


FIG. 9B

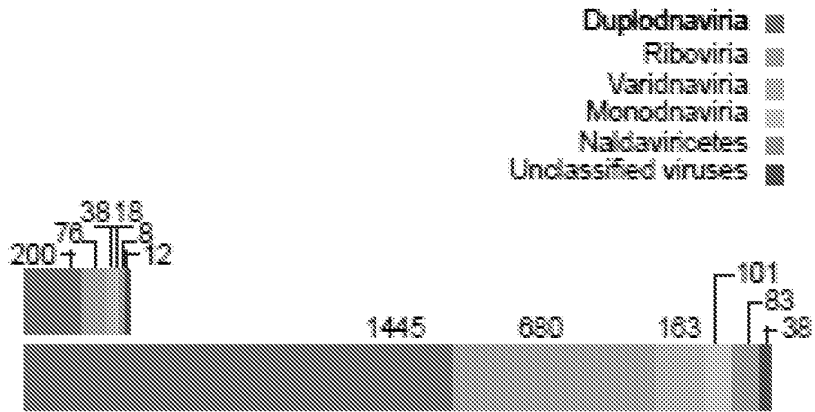


FIG. 9C

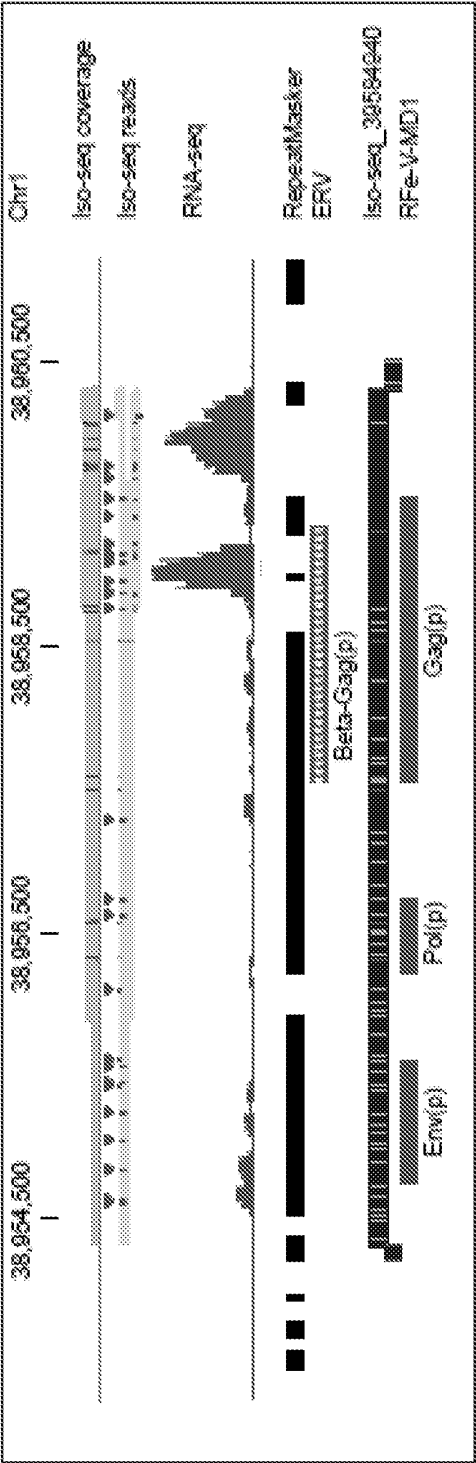


FIG. 9D

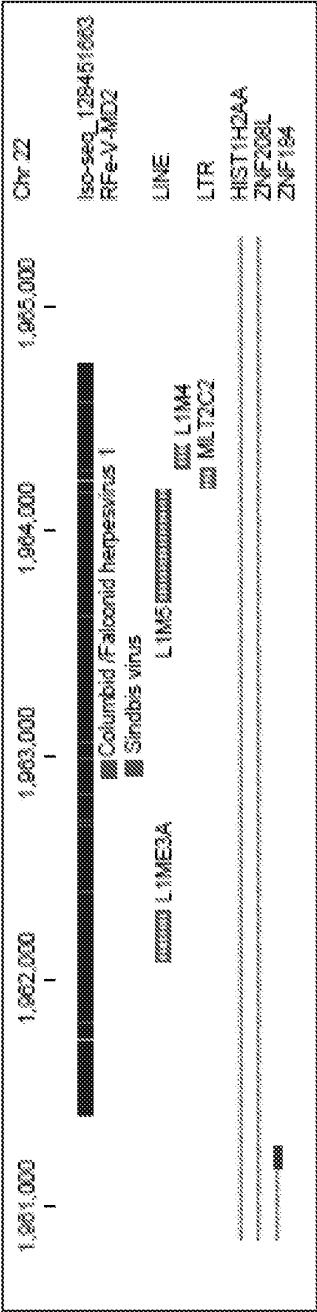


FIG. 9E

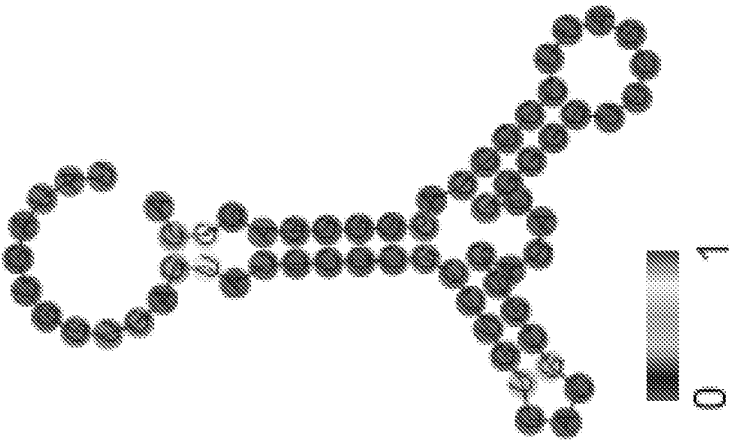


FIG. 9F

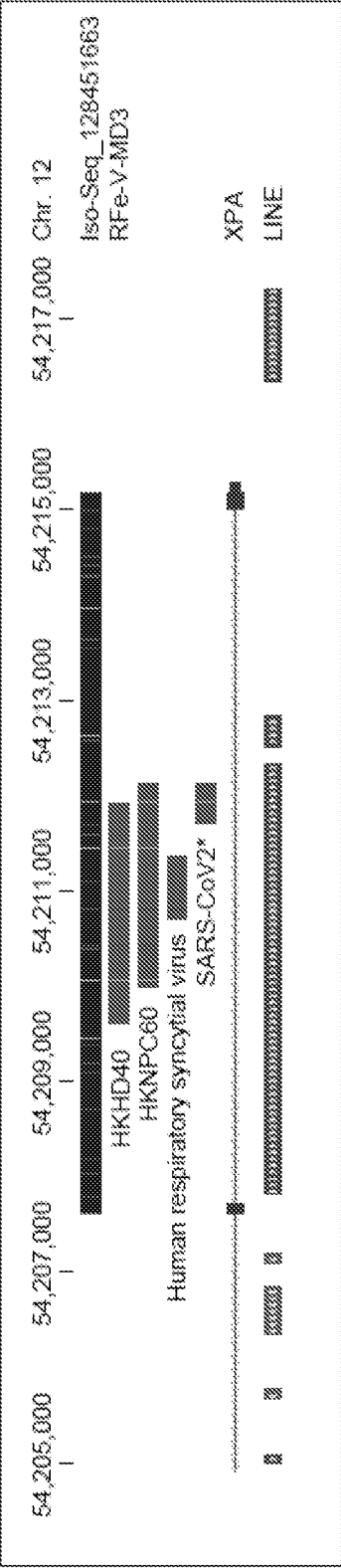


FIG. 9G

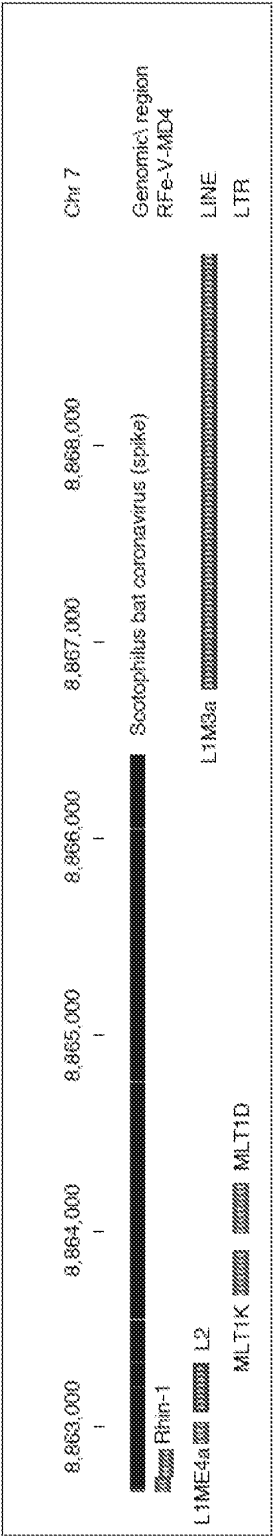


FIG. 9H

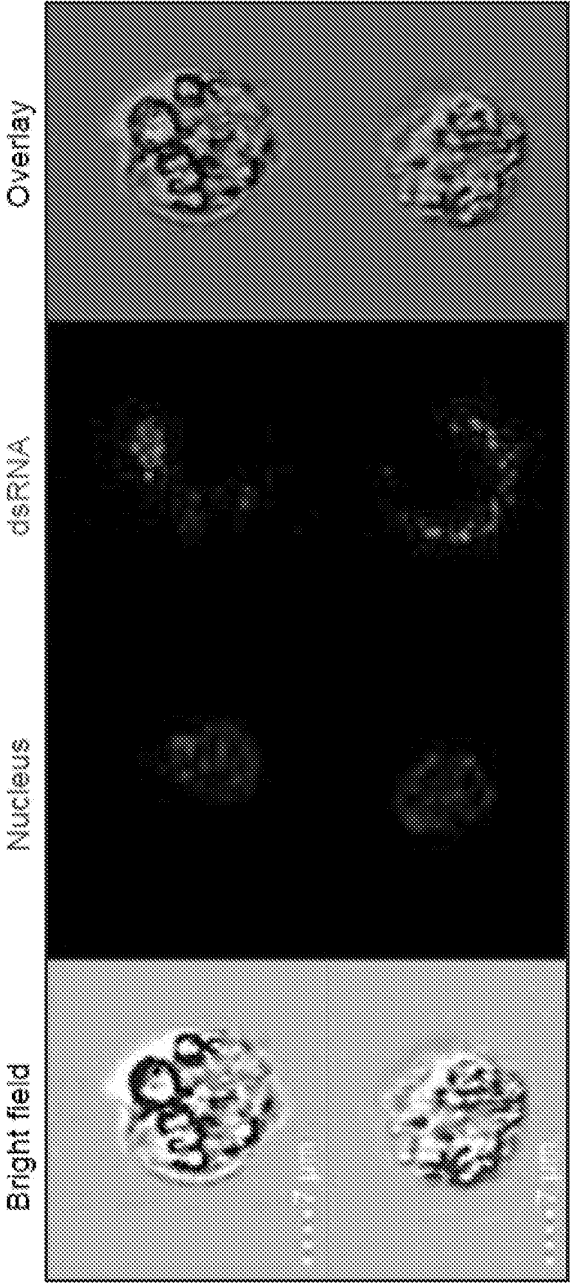


FIG. 9I

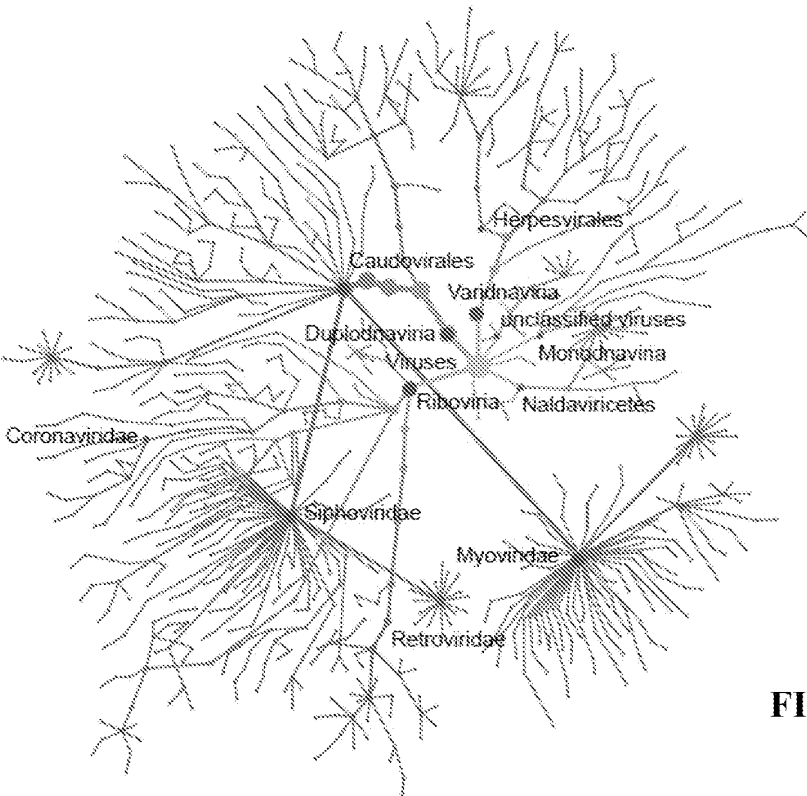


FIG. 10A

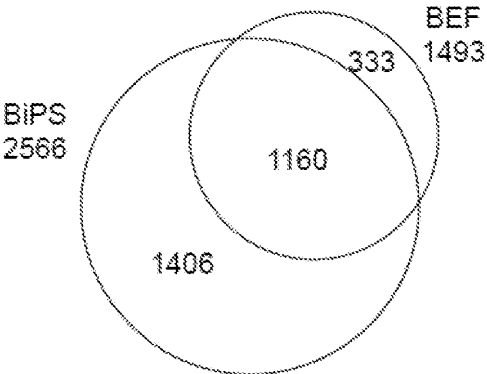


FIG. 10B

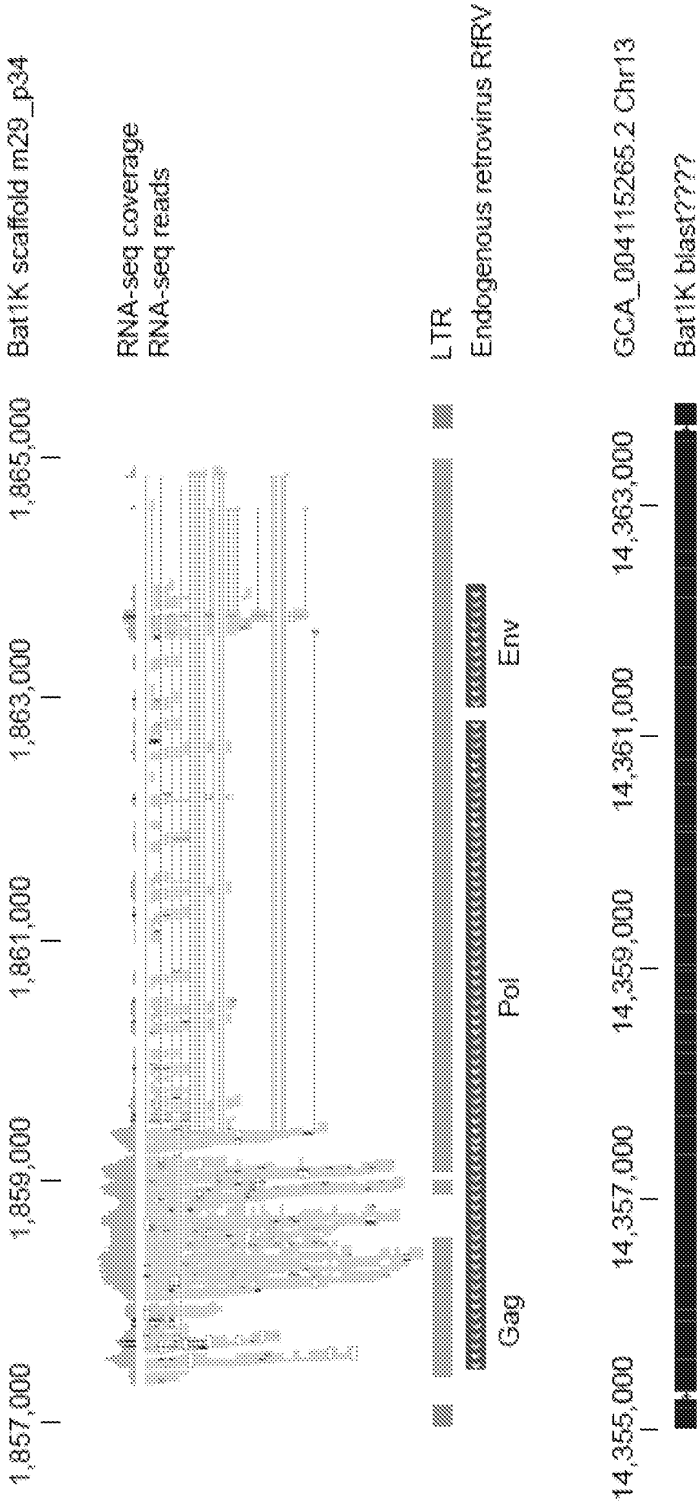


FIG. 10C

Hypothetical protein CoVHLJ_80 - Columbid alphaherpesvirus 1
Hypothetical protein FaHV1S18_80 - Falconid herpesvirus 1

Score	Expect	Method	Identities	Positives	Gaps	Frame
40.4 bits(93)	0.025	Compositional matrix adjust.	19/24(79%)	20/24(83%)	0/24(0%)	-2
Query	356	PRRGIEPRSPA*QAGILTILTRM	285			
		PRRG EPRSP Q GILTILTR+				
Sbjct	8	PRRGFEPRSPVROTGILTILTRI	31			

Sindbis virus defective interfering particle di-2

Score	Expect	Identities	Gaps	Strand
109 bits(120)	2e-19	63/65(97%)	0/65(0%)	Plus/Plus
Query	1514	TATAGTGGTGAGTATCCCCGCTGTACGCGGGAGACCGGGGTTTCGATTCCCCGACGGGG	1573	
Sbjct	3	TATAGTGGTGAGTATCCCCGCTGTACGCGGGAGACCGGGGTTTCGATTCCCCGACGGGG	62	
Query	1574	AGGCA	1578	
Sbjct	63	AGCCA	67	

FIG. 11A

RNA-dependent DNA polymerase
Lymphocystis disease virus - isolate China

Score	Expect	Method	Identities	Positives	Gaps	Frame
68.9 bits(167)	9e-09	Compositional matrix adjust.	49/171(29%)	93/171(54%)	9/171(5%)	-1
Query	5267	MTSQVNFTKHSKFLKRREGSQTHLQQQH*PDTKTRDNT*KKKKKC--PTSLMNNIDAKILNK				5091
		+T+ N++ KKL +T Q Q P K N + P SL+N D KIL K				
Sbjct	173	LTTVYNVSPKEKKL-----PETLNQAQLIPILKPKGNPLELSSYRPVSLLN--CDYKILAK				236
Query	5090	VLANQIQQYIKKFIHHD*VGFIPGMQGWFNICKSINVINYINKMKDNHMIISIDAEKAF				4911
		+LA+++++ F I D S++ + +N I + + ++ Y ++ + +L++ DAEEKAF				
Sbjct	227	ILASRLKXPLHVFISPDQGTGYVKNRRVYNTHPLLEIV--VSSEAFESSECLILT--DAEEKAF				284
Query	4910	DKIQHLFMIEFTLSLGLGIEGKYLNIKAI*DEPTAMIILSSEELKAPFLRSC				4758
		D ++ ++ +TL + G+ ++ +K I DEF+A + + F L++G				
Sbjct	285	DPLKRSYLPETLKRFPCLGENPIAWVKLIYDEPESACVWTGDRQSIFFLKNG				335

Putative parital RNA-dependent DNA polymerase
Erythocytic necrosis virus

Score	Expect	Method	Identities	Positives	Gaps	Frame
46.2 bits(108)	0.010	Compositional matrix adjust.	30/103(29%)	58/103(56%)	4/103(3%)	-1
Query	5115	PTSLMNNIDAKILNKVLANQIQQYIKKFIHHD*VGFIPGMQGWFNICKSINVINYINKME				4956
		P SL+N D++++ K++A + D +GPI N+ + +VIN++N+ E				
Sbjct	26	PISLLN--FDSEMITKLIARGRSI--TLAYPDQMGFIKNWYSPDNVRRLPDVINHLNEE				82
Query	4955	DKNHMIISIDAEKAFDKIQHLFMIEFTLSKLGIEGKYLNIKAI				4827
		+++S+DAEEKAF++++ F+ L K + ++ +EAI				
Sbjct	83	TP-PILLSLDAEKAFNRVENVFLFSEVLQXFMVANFIKNVEAI				124

FIG. 11B

Severe acute respiratory syndrome coronavirus 2 Genome assembly, chromosome 1 (OU077605.1)

Score	Expect	Identities	Gaps	Strand
243 bits(269)	2e-59	427/617(69%)	45/617(7%)	Plus/Minus
Query 3063	AGGTTTCATCCATGTC---ACAAATGACAAGATTTTGT---TTTTATAGCTGAGTAATAT	3116		
Sbjct 30592	AGCTTCATTCATGTCCTTACAAAGGACATGAACTCATCATTTTTTATGGCTGCATAGTAT	30533		
Query 3117	TCCATGGAATACATATACACATCTCTTTTGTATTCCTCTCTCAGTCA-----ACTTT	3171		
Sbjct 30532	TCCATGCTCTATATGTCACATTTTCTTAATCCA---CTCTATCATTCCTGCACATTTTC	30476		
Query 3172	GGTIACTTCCATATCTTGGCTGTTCTAAATAATGCTGCAGTGAACATAGCCGTGTGTATA	3231		
Sbjct 30475	GGTTGGTTCCAAGTCTTTGCTATTGTGAATAATGCCACAATAAACATAAGTGTGCTGTG	30416		
Query 3232	TCTTT-TCGAATTAGTATTTTGGATTTTTTTCAGATAAATACCCAGAAGTGAATTGCTG	3290		
Sbjct 30415	TCTTTATAGCAGCATGATTATAGTCTTTG---GGTATATACCCAGTAATGGGATGGCTG	30358		
Query 3291	GGTCATATGGTAATTCTATTTTTAATTTTTTGGGGACCTCCATCTGTTTTCCGTAGTG	3350		
Sbjct 30357	GGTCAAAATGGTATTTCTAGTCTCTAGATCCCAGAGGANTGCCACACTGACTTCCACATG	30298		
Query 3351	GCTGCCACCAATTACAA-----AGGTGCT---TTTCTCTACATCCTT	3389		
Sbjct 30297	CTTCAACTACTTTTACACTCCCAACCAACAGTCTAAAACTCTTCTCTATTCTCCACATCCTC	30238		
Query 3389	GCCAACTCTGTTGTTTTATTCATTATTCATGATGGCCATTCTGACACGCTGACATGAT	3448		
Sbjct 30237	TCCAGCACCTGTTGTTTCTGACTTTTAAATGATTGCCATTCTAACTGGTCTGAGATGGT	30178		
Query 3449	AGCTCATGTGTGGTTTAAATTGCAATGCTCCCTGATGATTAGTGACATTGAGTATTTTCA	3508		
Sbjct 30177	ATCICATGTGTGGTTTGAATTGCAATTCCTCTGATGGCCAGCGATGGTGACATTTTCA	30118		
Query 3509	TATGTCATTTGGC---CATCTCTGCTCTCTCTGGAGAAATGCTCTGTTTCAGGTCTCTGCCC	3566		
Sbjct 30117	TGCGTTTTTTGCTGCAATAAATGCTCTCTCTTTGAGAACTGCTCTGTTTCATCTCTCTGCCC	30058		
Query 3567	ATTTTTTAAATCAGATTGTTTCGTTTTGT-CTCTTAAGTTGATGAGTTCTTATATATT	3625		
Sbjct 30057	ACTTTTT-CATCCGCTTCTTCTTTTTTCTTCTAAATTTGTTTCACTTCTTCTAGATT	29999		
Query 3626	TTGCATATTAAACCTT	3642		
Sbjct 29998	CTGGATATT--ACCTT	29984		

FIG. 11C

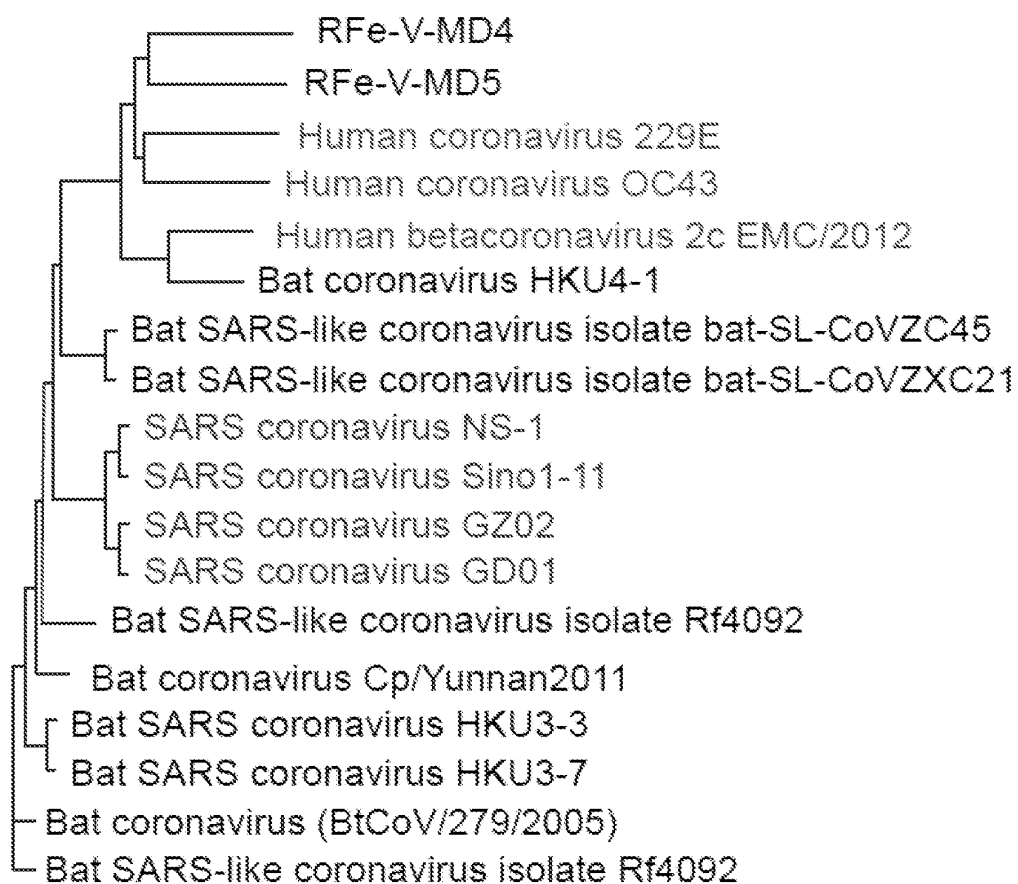
**FIG. 11D**

TABLE A

TVH ID	Virus matched by Kraken2			RNA-seq	Iso-seq
				Number of fragments	Fragments
	Name	Taxonomic ID	Taxonomic rank	CS 0	CS 0
TVH1000	Murine respirovirus	11191	S	3006623	18032
TVH1001	Choristoneura fumiferana granulovirus	56947	S	151185	0
TVH1002	Kirsten murine sarcoma virus	11808	S	92557	206
TVH1003	Proteus phage VB_PmiS-Isfahan	1969841	S1	51812	22
TVH1004	Shamonda orthobunyavirus	159150	S	50350	3
TVH1005	Rukutama virus	1531287	S1	45732	0
TVH1006	Spleen focus-forming virus	11819	S	33446	219
TVH1007	Oxbow virus	660954	S1	24355	0
TVH1008	Murine type C retrovirus	44561	S2	21946	87
TVH1009	Moloney murine leukemia virus	11801	S1	17197	1
TVH1010	Harvey murine sarcoma virus	11807	S	12512	2
TVH1011	PreXMRV-1	1038068	S2	11699	15
TVH1012	Molluscum contagiosum virus subtype 1	10280	S1	10894	11
TVH1013	Mus musculus mobilized endogenous polytropic provirus	590745	S	8958	18
TVH1014	Megavirus chilenis	1094892	S	8929	16
TVH1015	Simbu orthobunyavirus	35306	S	8660	10
TVH1016	Bovine gammaherpesvirus 4	10385	S	4358	741
TVH1017	Orgyia pseudotsugata multiple nucleopolyhedrovirus	262177	S	4333	0
TVH1018	Erwinia phage vB_EamM_Yoloswag	1958956	S1	3952	5
TVH1019	Cabbage cytorhabdovirus 1	2051550	S1	3699	0
TVH1020	Bovine viral diarrhea virus 1	11099	S1	3637	342
TVH1021	Micromonas sp. RCC1109 virus Mpv1	880161	S	3359	68
TVH1022	Acinetobacter phage AbKT21phill	2500826	S1	3352	0
TVH1023	Abelson murine leukemia virus	11788	S	2985	82
TVH1024	Feline sarcoma virus (STRAIN HARDY-ZUCKERMAN 4)	11777	S1	2924	1137
TVH1025	Lettuce yellow mottle virus	471285	S1	2723	0
TVH1026	Pandoravirus neocaledonia	2107708	S	2193	30
TVH1027	Aureococcus anophagefferens virus	1474867	S	2122	1
TVH1028	Deltapapillomavirus 1	10565	S	1801	0
TVH1029	Human betaherpesvirus 6A	32603	S	1768	1
TVH1030	Arthrobacter phage vB_ArS-ArV2	1414742	S	1744	0
TVH1031	Prochlorococcus phage P-SSM4	268747	S1	1656	0
TVH1032	Human papillomavirus 132	909331	S1	1505	0
TVH1033	Friend murine leukemia virus	11795	S1	1416	0
TVH1034	Common bottlenose dolphin gammaherpesvirus 1 strain Sarasota	2022783	S	1403	1
TVH1035	Tunisvirus fontaine2	1421067	S1	1387	0
TVH1036	Avian myelocytomatosis virus	11867	S	1325	76
TVH1037	Moloney murine sarcoma virus	11809	S	1218	99
TVH1038	Shigella phage vB_SflS-ISF001	2048005	S1	1142	1
TVH1039	IAS virus	1450749	S	1089	1
TVH1040	Cyprinid herpesvirus 2	317878	S	1069	0
TVH1041	Kanyawara virus	2014931	S1	1060	0
TVH1042	Propionibacterium phage G4	1897537	S1	1050	0
TVH1043	Streptomyces phage Jay2Jay	1556290	S1	1040	0
TVH1044	Acinetobacter phage IMEAB3	1458669	S1	1039	0
TVH1045	Avian sarcoma virus CT10	11878	S	1022	185
TVH1046	Pandoravirus macleodensis	2107707	S	994	2
TVH1047	Cronobacter phage CR5	1195085	S	990	0
TVH1048	Bwamba orthobunyavirus	35310	S	982	1
TVH1049	Pandoravirus quercus	2107709	S	952	3
TVH1050	crAssphage cr118_1	2772063	S	940	1
TVH1051	Yokapox virus	1076255	S	899	4
TVH1052	Wigeon coronavirus HKU20	1159908	S	887	0
TVH1053	Snyder-Theilen feline sarcoma virus	11780	S	866	47
TVH1054	Anomala cuprea entomopoxvirus	62099	S	843	3
TVH1055	Squirrelpox virus	240426	S	788	4
TVH1056	Anopheles minimus irodo virus	1465751	S	776	0
TVH1057	Prochlorococcus phage P-HM1	445700	S	770	0
TVH1058	Dickeya phage vB_DsoM_JA11	2382310	S1	755	0
TVH1059	Cronobacter phage CR9	1162290	S1	745	0
TVH1060	Klebsiella phage KP-Rio/2015	1904925	S1	739	0
TVH1061	Pandoravirus salinus	1349410	S	732	6
TVH1062	Cronobacter phage ENT47670	984186	S	688	0
TVH1063	Pseudomonas phage AF	1235689	S	672	0
TVH1064	Streptomyces phage LukeCage	2283304	S1	665	3
TVH1065	Woolly monkey sarcoma virus	11970	S	664	12
TVH1066	Pandoravirus inopinatum	1605721	S	663	6
TVH1067	Caulobacter phage CcrBL10	2283269	S1	655	1

TVH1068	Gordonia phage Yikes	2656545	S1	648	0
TVH1069	White spot syndrome virus	342409	S	619	2
TVH1070	Okra enation leaf curl virus	908125	S	607	0
TVH1071	Fowl aviadenovirus E	190065	S	599	0
TVH1072	Rhynchosia golden mosaic Yucatan virus	457286	S	593	0
TVH1073	Salmonella phage 35	1654888	S1	592	0
TVH1074	Escherichia phage damhaus	2696389	S1	556	0
TVH1075	Actinoplanes phage phiAsp2	279303	S	536	0
TVH1076	Mycobacterium phage Reindeer	2762283	S	515	0
TVH1077	Streptomyces virus TG1	374422	S	511	0
TVH1078	Cyprinid herpesvirus 3	180230	S	495	0
TVH1079	Cafeteria roenbergensis virus BY-PW1	693272	S1	493	1
TVH1080	Human papillomavirus type 131	909330	S1	475	0
TVH1081	Escherichia phage vB_EcoM_G4507	2502306	S1	463	0
TVH1082	Human gammaherpesvirus 8	37296	S	438	0
TVH1083	Pseudomonas phage PhiPA3	998086	S	432	1
TVH1084	Cronobacter phage vB_CsaM_1eE	1873954	S1	432	0
TVH1085	Ostreococcus lucimarinus virus OIV5	754064	S	423	1
TVH1086	Spheniscid alphaherpesvirus 1	2560777	S	421	0
TVH1087	Bacillus virus Blastoid	1406782	S	417	0
TVH1088	Cotesia congregata bracovirus	39640	S	406	5
TVH1089	Escherichia virus RB43	115991	S	401	3
TVH1090	Equine encephalosis virus	201490	S	398	0
TVH1091	Lausannevirus	999883	S	393	0
TVH1092	Pseudocowpox virus	129726	S	378	0
TVH1093	Betacoronavirus HKU24	1590370	S1	333	1
TVH1094	Cricket paralysis virus	12136	S	331	0
TVH1095	Aeromonas phage phiA8-29	1978922	S1	330	0
TVH1096	Halovirus HHTV-2	1273751	S	327	0
TVH1097	Orpheovirus iHUMI-LCC2	2023057	S	322	4
TVH1098	Lymphocystis disease virus 1	36363	S	319	1
TVH1099	Apis mellifera filamentous virus	1100043	S	315	1
TVH1100	Abalone herpesvirus Victoria/AUS/2009	1241371	S1	307	0
TVH1101	Wenzhou bivalvia virus 1	1923553	S	290	0
TVH1102	Lactococcus phage bIL309	151537	S	290	0
TVH1103	Escherichia phage vB_EcoM_KAW1E185	2508180	S1	290	0
TVH1104	Erwinia phage vB_EamM-Bue1	2099338	S1	288	0
TVH1105	Pseudomonas phage YH30	1636189	S	288	0
TVH1106	Bacillus phage Eldridge	1776293	S1	281	0
TVH1107	Yellowstone lake phycodnavirus 2	1586714	S	281	0
TVH1108	Pseudomonas phage vB_PaeS_PAC1_Ab18	1548905	S1	280	0
TVH1109	Beihai blue swimmer crab virus 1	1922368	S	272	0
TVH1110	Synechococcus phage Bellamy	2023996	S1	270	94
TVH1111	Gordonia phage Jace	2182360	S1	267	0
TVH1112	Orf virus	10258	S	265	0
TVH1113	Bacillus phage B4	1141133	S1	262	0
TVH1114	Faecalibacterium phage FP_Lagaffe	2070183	S1	258	0
TVH1115	Anoxybacillus phage A403	2099336	S1	255	0
TVH1116	Synechococcus phage ACG-2014g	1493512	S	255	0
TVH1117	Synechococcus phage S-ShM2	445683	S1	251	117
TVH1118	Deerpox virus W-848-B3	305674	S1	251	1
TVH1119	Salmonella phage NR01	1647411	S1	246	0
TVH1120	Pantoea phage LIMEzero	943335	S1	236	0
TVH1121	Mycobacterium phage DyoEdafos	2599860	S	232	6
TVH1122	Escherichia phage VECB	2776821	S	232	0
TVH1123	Mollivirus sibericum	1678078	S	229	222
TVH1124	Eyach virus	62352	S1	228	0
TVH1125	Vibrio virus 2019VC1	2761539	S	228	0
TVH1126	Synechococcus phage S-CBS2	753084	S	225	1
TVH1127	Culex flavi-like virus 1	2304477	S	224	0
TVH1128	Bacillus phage Zuko	1805956	S	224	0
TVH1129	Hubei endorna-like virus 1	1922893	S	222	0
TVH1130	Fly associated circular virus 7	2293287	S	220	6
TVH1131	Erwinia phage vB_EamM_Alexandra	2201424	S1	214	1
TVH1132	Spodoptera frugiperda granulovirus	307454	S	212	0
TVH1133	Cowpox virus	10243	S	212	0
TVH1134	Scierotinia sclerotiorum botybirnavirus 1	1654339	S	207	0
TVH1135	Human respirovirus 1	12730	S	205	0
TVH1136	Paramecium bursaria Chlorella virus NY2A	46021	S	198	2
TVH1137	Fujinami sarcoma virus	11885	S	197	15
TVH1138	Lactococcus phage 56301	2029666	S1	195	0
TVH1139	Ralstonia phage RP12	1923889	S1	193	0

TVH1140	Pacmanvirus A23	1932881	S	192	0
TVH1141	Sphingomonas phage PAU	1150991	S	191	1
TVH1142	Bacillus virus G	1084719	S	190	4
TVH1143	Synechococcus virus S-PRM1	2100130	S	187	1
TVH1144	Simian immunodeficiency virus	11723	S	186	0
TVH1145	Pandoravirus dulcis	1349409	S	185	4
TVH1146	Vibrio phage VEN	2059879	S1	185	0
TVH1147	NY_014 poxvirus	2025360	S	183	2
TVH1148	Arthrobacter phage Galaxy	1772326	S1	180	6
TVH1149	Vibrio phage pVp-1	1150989	S1	179	1
TVH1150	Gordonia phage GMA1	1647470	S	178	0
TVH1151	Yersinia phage phiR2-01	1206557	S1	175	0
TVH1152	Melon severe mosaic tospovirus	485724	S	174	0
TVH1153	Streptomyces phage Braelyn	2593356	S	173	0
TVH1154	Y73 sarcoma virus	11884	S	172	121
TVH1155	Trichoderma atroviride mycovirus	1934322	S	172	0
TVH1156	Mycobacterium phage Ximenita	2708633	S	172	0
TVH1157	Vibrio phage Vp670	1932890	S1	172	0
TVH1158	Parapoxvirus red deer/HL953	1579460	S1	171	0
TVH1159	Leuconostoc phage LN04	1262516	S1	170	2
TVH1160	Deformed wing virus	198112	S	168	0
TVH1161	crAssophage cr115_1	2772089	S	162	0
TVH1162	Macrophomina phaseolina chrysovirus 1	1708483	S1	161	0
TVH1163	Streptomyces phage WRiGhtOn	2053723	S1	161	0
TVH1164	Streptomyces phage EGole	2517973	S	158	2
TVH1165	Paenibacillus phage Wanderer	2249779	S1	157	0
TVH1166	BeAn 58058 virus	67082	S	157	0
TVH1167	Gordonia phage Skog	2704033	S	155	0
TVH1168	Bacillus virus SPbeta	66797	S	153	1
TVH1169	Equid gammaherpesvirus 2	12657	S	153	0
TVH1170	Synechococcus phage S-T4	2268578	S1	145	0
TVH1171	Bovine respirovirus 3	11215	S	143	0
TVH1172	Aeromonas virus Aeh1	227470	S	142	1
TVH1173	Acanthamoeba polyphaga mimivirus	212035	S	142	1
TVH1174	Acanthamoeba polyphaga moumouvirus	1269028	S1	141	4
TVH1175	Bacteroides phage DAC15	2710495	S	139	1
TVH1176	Klebsiella phage Marfa	2587809	S1	138	145
TVH1177	Synechococcus phage S-CAM1	754037	S1	136	0
TVH1178	Ostreococcus lucimarinus virus 1	880162	S	135	0
TVH1179	Hainan hebius popei torovirus	2116385	S	133	0
TVH1180	Erwinia phage vB_EamP_Frozen	1852641	S1	131	1
TVH1181	Choristoneura fumiferana DEF multiple nucleopolyhedrovirus	74660	S	129	0
TVH1182	Klebsiella phage NJS2	2301688	S1	126	0
TVH1183	Wuhan Mosquito Virus 8	1608133	S1	124	0
TVH1184	crAssophage cr127_1	2772077	S	124	0
TVH1185	Streptomyces phage Blueeyedbeauty	2250336	S1	120	0
TVH1186	Pseudomonas phage PaMx74	1175663	S1	118	1
TVH1187	Macaca nemestrina herpesvirus 7	1846169	S1	118	0
TVH1188	Marinomonas phage P12026	1176423	S	117	0
TVH1189	Baboon cytomegalovirus OCOM4-37	153301	S1	115	63
TVH1190	Pseudomonas phage PspYZU05	1983556	S	115	0
TVH1191	Synechococcus phage S-MbCM100	1340812	S1	112	3
TVH1192	Bacillus phage vB_BceM_Bc431v3	1195072	S1	112	1
TVH1193	Ostreococcus lucimarinus virus 2	1663208	S	110	1
TVH1194	Cedratvirus A11	1903266	S	110	1
TVH1195	Sewage-associated circular DNA virus-11	1519387	S	110	0
TVH1196	Gibbon ape leukemia virus	11840	S	109	0
TVH1197	Escherichia phage vB_EcoM-4HA13	2601675	S	108	0
TVH1198	Sewage-associated circular DNA virus-10	1519386	S	105	0
TVH1199	Wenling crustacean virus 1	1923478	S	104	0
TVH1200	Agrobacterium phage Atu_ph02	2024261	S1	104	0
TVH1201	Cynomolgus cytomegalovirus	1919083	S	104	0
TVH1202	Yersinia phage fHe-Yen9-04	2052742	S1	103	2
TVH1203	Gordonia phage Demosthenes	1838067	S1	102	0
TVH1204	Mycoplasma phage P1	35238	S	102	0
TVH1205	Brevibacillus phage Sundance	1691958	S	99	0
TVH1206	Dugbe orthonaivirus	1980521	S	96	0
TVH1207	Pepper vein yellows virus 2	2560636	S	96	0
TVH1208	Human papillomavirus 4	10617	S1	96	0
TVH1209	Synechococcus phage ACG-2014f	1493511	S1	95	1
TVH1210	crAssophage cr111_1	2772071	S	95	3
TVH1211	Anjozorobe virus	1424613	S1	95	0

TVH1212	Aeromonas phage phiA55	879630	S	94	2
TVH1213	Mycobacterium phage MyraDee	2024303	S	94	0
TVH1214	Rhodothermus phage RM378	148943	S	94	0
TVH1215	Noumeavirus	1955558	S	92	0
TVH1216	Achromobacter phage Motura	2591403	S1	91	4
TVH1217	Yaba-like disease virus	132475	S1	91	1
TVH1218	Tokyo virus A1	1826170	S	90	21
TVH1219	Escherichia phage FV3	1131317	S1	89	0
TVH1220	Photobacterium phage PDCC-1	2664246	S1	88	0
TVH1221	Lactobacillus phage LpeD	2041210	S1	88	0
TVH1222	Streptococcus phage 20617	1392231	S	84	0
TVH1223	Lactococcus phage 3R16S	1874589	S1	84	0
TVH1224	Suid alphaherpesvirus 1	10345	S	84	0
TVH1225	Humulus japonicus latent virus	269213	S	83	1
TVH1226	Wenzhou Crab Virus 1	1608091	S1	83	0
TVH1227	Yersinia phage PY54	172667	S	82	0
TVH1228	Weissella phage phiY561	1161906	S	82	0
TVH1229	Common midwife toad virus	540070	S	82	0
TVH1230	Agrobacterium phage Atu_ph07	2024264	S1	81	2
TVH1231	Synechococcus phage S-SSM7	445686	S	81	0
TVH1232	Gambusia mosquito virus	1746059	S	80	1
TVH1233	Brevibacillus phage Jenst	1691954	S1	80	0
TVH1234	Pseudomonas phage phCDa	2268587	S1	80	0
TVH1235	Salmonella phage SW9	2592223	S1	79	0
TVH1236	Bacillus phage Deep Blue	1792245	S1	79	0
TVH1237	Turkeypox virus	336486	S	79	0
TVH1238	Kaumoebavirus	1859492	S	79	0
TVH1239	Vibrio phage eugene 12A10	573172	S	78	7
TVH1240	Sea otter poxvirus	1416741	S1	78	0
TVH1241	Klebsiella phage KOK1	1970798	S1	77	0
TVH1242	Swine enteric coronavirus	1766554	S1	76	0
TVH1243	Gordonia phage Yvonnetastic	1821566	S1	76	0
TVH1244	Vibrio phage VP4B	1262540	S1	76	0
TVH1245	Campylobacter virus CPT10	722418	S	76	0
TVH1246	Ostreococcus tauri virus 2	696472	S	76	0
TVH1247	Escherichia virus phiX174	10847	S	76	0
TVH1248	Halovirus VNH-1	1500510	S	74	26
TVH1249	Acinetobacter phage VB_ApiP_XC38	2655002	S	74	0
TVH1250	Pseudomonas phage vB_Pae-SS2019XI	2660688	S	73	1
TVH1251	Xylella phage Paz	1415145	S	73	0
TVH1252	Phascolarctid gammaherpesvirus 1	2249313	S	72	0
TVH1253	Grapevine Anatolian ringspot virus	223769	S	71	0
TVH1254	Gordonia phage Ranch	2599848	S1	71	0
TVH1255	Ralstonia phage phiRSL1	1980924	S1	71	0
TVH1256	Halovirus HGTV-1	1273749	S	71	0
TVH1257	Pectinobacterium phage vB_PcaM_CBB	2772511	S1	70	1
TVH1258	Mycobacterium phage Collard	2301704	S	70	0
TVH1259	Aeromonas phage 60AhydR15PP	2163979	S	69	0
TVH1260	Klebsiella virus 0507KN21	2169687	S	69	0
TVH1261	Erwinia phage vB_EamM_ChrisDB	1883371	S	68	6
TVH1262	Arthrobacter phage Mufasa8	2656526	S1	68	2
TVH1263	Ranid herpesvirus 1	85655	S	67	1
TVH1264	Shewanella phage SppYZU05	1970795	S1	66	0
TVH1265	Persimmon latent virus	1211481	S	65	0
TVH1266	Monkeypox virus Zaire-96-I-16	619591	S1	65	0
TVH1267	Microbacterium phage Goodman	2484206	S1	64	1
TVH1268	Ralstonia phage RSM3	520962	S1	64	225
TVH1269	Micromonas pusilla virus 12T	755272	S	64	0
TVH1270	Gryllus bimaculatus nudivirus	432587	S	63	0
TVH1271	Leuconostoc phage Ln-9	1536605	S1	63	0
TVH1272	crAssphage cr85_1	2772074	S	62	0
TVH1273	Lymantria xyliina nucleopolyhedrovirus	166921	S	61	0
TVH1274	Salinibacter virus M8CRM1	2560721	S	60	0
TVH1275	Leucania separata nucleopolyhedrovirus	1307956	S	59	2
TVH1276	Farallon virus	248053	S1	59	0
TVH1277	Clostridium phage phi24R	1128071	S1	59	0
TVH1278	Amsacta moorei entomopoxvirus	28321	S	59	0
TVH1279	Elephant endotheliotropic herpesvirus 5	768738	S	58	1
TVH1280	Buzura suppressaria nucleopolyhedrovirus	74320	S	58	0
TVH1281	Arthrobacter phage Kitkat	1796996	S1	58	0
TVH1282	Cyanophage S-RIM32	1278479	S	58	0
TVH1283	Escherichia phage JES2013	1327956	S1	57	0

TVH1284	Klebsiella phage KP8	2099850	S1	57	0
TVH1285	Tomato marchitez virus	470166	S	56	0
TVH1286	Erwinia phage vB_EamM_RisingSun	2026080	S1	56	0
TVH1287	Ralstonia phage RSJ5	1538364	S1	56	0
TVH1288	Bacillus phage SiOphi	1285382	S1	56	0
TVH1289	Equid alphaherpesvirus 1	10326	S	55	1
TVH1290	Mythimna separata entomopoxvirus 'L'	1293572	S1	55	1
TVH1291	Pseudomonas phage SM1	1772332	S1	55	0
TVH1292	Rousettus bat coronavirus HKU9	694006	S	54	1
TVH1293	Influenza C virus (C/Ann Arbor/1/50)	11553	S1	54	0
TVH1294	Adelphocoris suturalis virus	1930920	S	54	0
TVH1295	Klebsiella phage K64-1	1439894	S1	54	0
TVH1296	Synechococcus phage S-CBP2	756277	S1	54	0
TVH1297	Synechococcus virus Syn5	438482	S	53	1
TVH1298	Fruit bat alphaherpesvirus 1	1343901	S	53	2
TVH1299	Elderberry carlavirus D	1569055	S1	52	0
TVH1300	Escherichia phage ECD7	1981499	S1	52	0
TVH1301	Bacillus phage BCP8-2	1129192	S1	52	0
TVH1302	Enterococcus phage IME-EFm1	1445858	S	51	0
TVH1303	Synechococcus phage S-WAM2	1815522	S1	51	0
TVH1304	Yersinia phage fHe-Yen9-01	1965363	S	51	0
TVH1305	Acanthocystis turfacea chlorella virus 1	322019	S	51	0
TVH1306	Bacillus phage BPS13	1136731	S1	50	0
TVH1307	Melbournevirus	1560514	S	50	0
TVH1308	Pipistrellus bat coronavirus HKU5	694008	S	49	1
TVH1309	uncultured phage_MedDCM-OCT-S28-C10	2741077	S1	49	0
TVH1310	Flammulina velutipes browning virus	568090	S	48	2
TVH1311	Mycobacterium phage Bipper	1805457	S	48	1
TVH1312	Acinetobacter phage Ac42	762660	S	47	0
TVH1313	Synechococcus phage S-CRM01	1026955	S	47	0
TVH1314	Klebsiella phage vB_KpnP_P184	2806547	S	47	0
TVH1315	Ostreid herpesvirus 1	261939	S	47	0
TVH1316	Tadarida brasiliensis circovirus 1	1732201	S1	47	0
TVH1317	Arthrobacter phage Maja	2499009	S1	46	1
TVH1318	Carnation mottle virus	11986	S	46	0
TVH1319	Simian foamy virus	11642	S	46	0
TVH1320	Meleagrid alphaherpesvirus 1	37108	S	46	0
TVH1321	Microviridae Fen4707_41	1655654	S	45	1
TVH1322	Burkholderia virus Bcepmigi	1195073	S	45	0
TVH1323	Agrotis segetum granulovirus	10464	S	44	1
TVH1324	Synechococcus phage S-CAM3	1883366	S1	44	0
TVH1325	Campoletis sonorensis ichnovirus	10484	S	44	0
TVH1326	Canarypox virus	44088	S	43	1
TVH1327	Sclerotinia sclerotiorum ourmia-like virus 1	1708389	S1	43	0
TVH1328	Enterobacter phage CC31	709484	S1	43	0
TVH1329	Escherichia phage TL-2011b	1124654	S	43	0
TVH1330	human papillomavirus 166	1315259	S1	43	0
TVH1331	Tomato spotted wilt orthotospovirus	1933298	S	42	0
TVH1332	Bulbul coronavirus HKU11-934	572288	S1	42	0
TVH1333	Ralstonia phage phiRSP	2201420	S	42	0
TVH1334	Pseudomonas phage Zuri	2604899	S1	42	0
TVH1335	Macropodid alphaherpesvirus 1	137443	S	42	0
TVH1336	Singapore grouper iridovirus	262968	S	42	0
TVH1337	Torque teno mini virus ALH8	1535291	S1	42	0
TVH1338	Mycobacterium phage Patience	1074308	S1	41	7
TVH1339	Catopsilla pomona nucleopolyhedrovirus	1850906	S	41	34
TVH1340	Patois virus	35318	S1	41	0
TVH1341	Chrysanthemum virus R	2116736	S	41	0
TVH1342	Mume virus A	2137858	S	41	0
TVH1343	Lactococcus phage BK5-T	31754	S1	41	0
TVH1344	Synechococcus phage S-RSM4	555387	S	41	0
TVH1345	Bacillus phage BSP38	2283013	S1	41	0
TVH1346	Staphylococcus phage vB_SscM-1	1868844	S1	41	0
TVH1347	Datura leaf distortion virus	1227357	S	41	0
TVH1348	Lactobacillus phage LfeInf	1567484	S1	40	0
TVH1349	Cavidi betaherpesvirus 2	33706	S	40	0
TVH1350	Brazilian marseillevirus	1813599	S	40	0
TVH1351	Western grey kangaroopox virus	1566307	S1	40	0
TVH1352	Etapapillomavirus 1	197771	S	40	0
TVH1353	Bamaga virus	1805494	S	39	0
TVH1354	Koala retrovirus	394239	S	39	0
TVH1355	Serratia phage MyoSmar	2596673	S1	39	0

TVH1356	Suid betaherpesvirus 2	1608255	S	39	0
TVH1357	Feldmannia species virus	39420	S	39	0
TVH1358	Camelpox virus	28873	S	39	0
TVH1359	Clostridium phage c-st	12336	S	38	2
TVH1360	Salmonella phage S124	2231351	S1	38	3
TVH1361	Arthrobacter phage CaptnMurica	1772294	S1	38	0
TVH1362	Citrobacter phage CVT22	1622234	S1	38	0
TVH1363	Cricetid gammaherpesvirus 2	1605972	S	38	0
TVH1364	Human betaherpesvirus 5	10359	S	38	0
TVH1365	Bovine papular stomatitis virus	129727	S	38	0
TVH1366	Kampung Karu virus	2045186	S	37	6
TVH1367	Bacillus phage vB_BanS-Tsamsa	1308863	S	37	2
TVH1368	African swine fever virus	10497	S	37	1
TVH1369	Barley stripe mosaic virus	12327	S	37	0
TVH1370	Tamarillo leaf malformation virus	945960	S	37	0
TVH1371	Agrotis ipsilon multiple nucleopolyhedrovirus	208013	S	37	0
TVH1372	Acinetobacter phage vB_AbaP_Acibel007	1481187	S1	37	0
TVH1373	Pantoea phage LIMElight	881915	S1	37	0
TVH1374	Lactobacillus virus Lb338-1	632112	S	36	1
TVH1375	Cnaphalocrocis medinalis granulovirus	1750712	S	36	0
TVH1376	Rhodococcus phage Weasels2	1897437	S1	36	0
TVH1377	Geobacillus phage TP-84	1965361	S1	36	0
TVH1378	Vibrio phage 11895-B1	754075	S	36	0
TVH1379	Proteus phage Myduc	2650874	S1	35	1
TVH1380	Turkey aviadenovirus 4	1408257	S1	35	2
TVH1381	Cucumber mottle virus	388038	S	35	0
TVH1382	Broome virus	667093	S	35	0
TVH1383	Escherichia phage 4MG	1391428	S1	35	0
TVH1384	Synechococcus phage S-CAM9	1883369	S1	35	0
TVH1385	Phaeocystis globosa virus	251749	S	35	0
TVH1386	Synechococcus phage ACG-2014d	1493509	S	34	1
TVH1387	Wuhan Louse Fly Virus 7	1608121	S1	34	0
TVH1388	Kibale virus	1406344	S1	34	0
TVH1389	Enterobacteria phage vB_EcoM_JME281	2163887	S	34	0
TVH1390	Vibrio phage 2 TSL-2019	2508172	S1	34	0
TVH1391	Achromobacter phage 83-24	1589747	S1	33	1
TVH1392	Escherichia virus RB16	329381	S	33	0
TVH1393	Ralstonia phage RSP15	1785960	S	33	0
TVH1394	SARS coronavirus Tor2	227984	S1	32	0
TVH1395	Jaagsiekte sheep retrovirus	11746	S	32	0
TVH1396	Rhizobium phage RHEph10	1220717	S	32	0
TVH1397	Microbacterium phage Pikmin	2099444	S1	32	0
TVH1398	Dickeya phage vB_DsoM_AD1	2283029	S1	32	0
TVH1399	Synechococcus phage ACG-2014i	1493513	S	31	0
TVH1400	Prochlorococcus phage P-HM2	445696	S	31	0
TVH1401	Bacillus phage AR9	1815509	S	30	3
TVH1402	Night heron coronavirus HKU19	1159904	S	30	0
TVH1403	Salmonella phage SPN3UB	1147140	S	30	0
TVH1404	Mycobacterium phage Gardann	1873696	S	30	0
TVH1405	Cronobacter phage vB_CsaM_GAP32	1141136	S1	30	0
TVH1406	Ateline gammaherpesvirus 3	85618	S	30	0
TVH1407	Hyposidra talaca NPV	1070315	S	29	0
TVH1408	Escherichia phage vB_EcoS-12210i	2576500	S1	29	0
TVH1409	Changping Tick Virus 2	1608044	S1	28	0
TVH1410	Fusarium redolens polynovirus 1	2546034	S	28	0
TVH1411	Mycobacterium phage Dori	1089121	S	28	0
TVH1412	crAssphage cr3_1	2772065	S	28	0
TVH1413	Enterobacter phage Ec_L1	2070180	S1	28	0
TVH1414	Bacillus phage Bcp1	584892	S1	28	0
TVH1415	Testudinid alphaherpesvirus 3	2560801	S	28	0
TVH1416	Cotia virus SPAn232	930275	S1	28	0
TVH1417	Chrysochromulina ericina virus	455364	S	27	13
TVH1418	Punice virus	693015	S1	27	0
TVH1419	Apocheima cinerarium nucleopolyhedrovirus	307461	S	27	0
TVH1420	Lactococcus phage AM4	1965472	S1	27	0
TVH1421	Gordonia phage Chelms	2588132	S1	27	0
TVH1422	Aeromonas virus 65	260149	S	26	2
TVH1423	Mycobacterium virus Ardmore	685506	S	26	2
TVH1424	Heterosigma akashiwo virus 01	97195	S	26	19
TVH1425	Agave tequilana leaf virus	387423	S	26	0
TVH1426	Perina nuda virus	170621	S	26	0
TVH1427	Thysanoplusia orichalcea nucleopolyhedrovirus	101850	S	26	0

TVH1428	Pseudomonas phage Epa5	2719575	S	26	0
TVH1429	Mycobacterium phage Pharaoh	2530140	S	26	0
TVH1430	Dinoroseobacter phage vB_DshS-R5C	1965368	S1	26	0
TVH1431	Aeromonas virus 44RR2	115987	S	26	0
TVH1432	Prochlorococcus phage P-SSM2	268746	S1	26	0
TVH1433	Pectobacterium phage PhiM1	1211386	S1	26	0
TVH1434	Hyposoter fugitivus ichnovirus	265522	S	26	0
TVH1435	Streptomyces phage Bing	2079427	S1	25	1
TVH1436	Dhori thogotovirus	11318	S	25	0
TVH1437	Apple stem pitting virus	35350	S	25	0
TVH1438	Lactobacillus phage LF1	947980	S1	25	0
TVH1439	Streptomyces phage SV1	1204525	S	25	0
TVH1440	Escherichia phage vB_EcoM_VR25	1567028	S1	25	0
TVH1441	Escherichia phage 121Q	1555202	S1	25	0
TVH1442	Lactobacillus phage 521B	2510942	S1	25	0
TVH1443	Anguillid herpesvirus 1	150286	S	25	0
TVH1444	Fowlpox virus	10261	S	25	0
TVH1445	Klebsiella virus KpS8	2723896	S	24	1
TVH1446	Panine betaherpesvirus 2	188763	S	24	1
TVH1447	Paramecium bursaria Chlorella virus AR158	380598	S	24	1
TVH1448	Tomato infectious chlorosis virus	52135	S	24	0
TVH1449	Choristoneura fumiferana multiple nucleopolyhedrovirus	208973	S	24	0
TVH1450	Pectobacterium bacteriophage PM2	1429794	S	24	0
TVH1451	Yersinia phage phiR1-37	331278	S	24	0
TVH1452	Aeromonas phage AS-sw	2026113	S1	24	0
TVH1453	Serratia phage Moabite	2587814	S1	24	0
TVH1454	Escherichia phage EcS1	2083276	S	24	0
TVH1455	crAssphage cr8_1	2772068	S	24	0
TVH1456	Erwinia phage PEp14	1131315	S	24	0
TVH1457	Lactobacillus virus LP65	298338	S	24	0
TVH1458	Murid betaherpesvirus 8	1261657	S	24	0
TVH1459	Murmansk poxvirus	2025359	S1	24	0
TVH1460	Canine mastadenovirus A	10537	S	24	0
TVH1461	South African cassava mosaic virus	63723	S	24	0
TVH1462	Synechococcus virus S-ESS1	1964565	S	23	1
TVH1463	Cellulophaga phage phi14:2	1327990	S	23	1
TVH1464	Beihai echinoderm virus 1	1922379	S	23	0
TVH1465	Hubei picorna-like virus 69	1923152	S	23	0
TVH1466	Vibrio phage nt-1	115992	S1	23	0
TVH1467	Edwardsiella phage Edno5	2419942	S	23	0
TVH1468	Salmonella phage SPN1S	1125653	S1	23	0
TVH1469	Enterococcus phage EFV12-phi1	2315766	S1	23	0
TVH1470	Aeromonas phage Ah1	2053701	S	22	1
TVH1471	Red clover powdery mildew-associated totivirus 1	1714362	S	22	0
TVH1472	Wuhan coneheads virus 2	1923696	S	22	0
TVH1473	Helicoverpa zea nudivirus 2	1128424	S1	22	0
TVH1474	Pseudomonas phage PMBT3	2059856	S1	22	0
TVH1475	Erwinia phage PhiEaH1	1401669	S1	22	0
TVH1476	Acinetobacter phage Fri1	1647373	S1	22	0
TVH1477	Achromobacter phage vB_AxyP_19-32_Axy10	2591041	S1	22	0
TVH1478	Lizard adenovirus 2	874272	S1	22	0
TVH1479	Rhodococcus phage Finch	2094144	S	21	1
TVH1480	Hyphantria cunea nucleopolyhedrovirus	28288	S	21	11
TVH1481	Landja virus	1272947	S1	21	0
TVH1482	Middle East respiratory syndrome-related coronavirus	1335626	S	21	0
TVH1483	Liao ning virus	246280	S	21	0
TVH1484	Musca domestica salivary gland hypertrophy virus	523909	S1	21	0
TVH1485	Streptomyces phage Mildred21	2023959	S1	21	0
TVH1486	Rhodococcus phage E3	1007869	S	21	0
TVH1487	Rhinolophus gammaherpesvirus 1	2054179	S	21	0
TVH1488	Volepox virus	28874	S	21	0
TVH1489	Torque teno sus virus 1a	687386	S	21	0
TVH1490	Erwinia phage vB_EamM_Simmy50	1815988	S1	20	1
TVH1491	CrAssphage sp.	2212563	S	20	1
TVH1492	Hepacivirus M	2008772	S	20	0
TVH1493	Mycobacterium phage Typha	2517971	S	20	0
TVH1494	Pseudomonas virus Yua	462590	S	20	0
TVH1495	Gordonia phage GTE7	1100814	S1	20	0
TVH1496	crAssphage cr110_1	2772070	S	20	0
TVH1497	Elephant endotheliotropic herpesvirus 4	548914	S	20	0
TVH1498	Bovine alphaherpesvirus 5	35244	S	20	0
TVH1499	Wuhan large pig roundworm virus 1	1923741	S	19	1

TVH1500	Felis catus gammaherpesvirus 1	1452540	S1	19	1
TVH1501	Marburg marburgvirus	11269	S	19	0
TVH1502	Mink coronavirus strain WD1127	766791	S1	19	0
TVH1503	Goose astrovirus	1349999	S	19	0
TVH1504	Cypovirus 5	205899	S	19	0
TVH1505	Beihai nama-like virus 8	1922460	S	19	0
TVH1506	Lactococcus phage Tuc2009	35241	S	19	0
TVH1507	Streptomyces phage Daubenski	2653725	S	19	0
TVH1508	Streptomyces phage Rowa	2059883	S1	19	0
TVH1509	Erwinia phage Hena1	2678601	S1	19	0
TVH1510	Pseudomonas phage uligo	2048979	S1	19	0
TVH1511	Enterobacter phage Tyrion	1864623	S	19	0
TVH1512	Microbacterium phage Akoni	2565510	S1	19	0
TVH1513	Alcelaphine gammaherpesvirus 2	138184	S	19	0
TVH1514	Simian adenovirus 1	310540	S1	19	0
TVH1515	Prochlorococcus phage P-TIM68	1542477	S	18	1
TVH1516	Morganella phage vB_MmoM_MP1	1852628	S	18	2
TVH1517	Streptococcus phage Dp-1	59241	S	18	41
TVH1518	Ectropis obliqua nucleopolyhedrovirus	59376	S	18	0
TVH1519	Lononia obliqua multiple nucleopolyhedrovirus	134394	S1	18	0
TVH1520	Mycobacterium virus Bxz2	205870	S	18	0
TVH1521	Bordetella phage MW2	1916126	S1	18	0
TVH1522	Ralstonia phage Raharianne	2759715	S1	18	0
TVH1523	Pseudomonas phage vB_PaeP_Tr60_Ab31	1449437	S	18	0
TVH1524	Bacillus phage Kida	1873998	S	18	0
TVH1525	Macacine alphaherpesvirus 1	10325	S	18	0
TVH1526	Eptesipox virus	1329402	S	18	0
TVH1527	Adoxophyes honmai entomopoxvirus 'L'	1293540	S1	18	0
TVH1528	Simian adenovirus 19	38416	S	18	0
TVH1529	Gordonia phage Ghobes	1887647	S1	17	1
TVH1530	Murid betaherpesvirus 1	10366	S	17	1
TVH1531	Esparto virus	2072209	S1	17	1
TVH1532	Rhinolophus bat coronavirus HKU2	693998	S	17	0
TVH1533	Alternaria alternata chrysovirus 1	2066695	S1	17	0
TVH1534	Mythimna unipuncta nucleopolyhedrovirus	447897	S	17	0
TVH1535	Oxyplax ochracea nucleopolyhedrovirus	2083176	S	17	0
TVH1536	Enterobacteria phage JenK1	1610836	S1	17	0
TVH1537	Staphylococcus phage vB_Sep5_SEP9	1434319	S1	17	0
TVH1538	Pseudomonas phage SL2	2041345	S1	17	0
TVH1539	Pseudomonas phage phiPsa374	1458843	S1	17	0
TVH1540	Pectobacterium phage PP16	1873958	S1	17	0
TVH1541	uncultured phage_MedDCM-OCT-S39-C11	2740805	S1	17	0
TVH1542	Phage NBSa1005	2712979	S	17	0
TVH1543	Porcine adenovirus 3	35265	S1	17	0
TVH1544	Glypta fumiferanae ichnovirus	419435	S	17	0
TVH1545	Dickeya phage Luksen	2320192	S1	16	1
TVH1546	Chinese broad-headed pond turtle arterivirus	2116345	S1	16	0
TVH1547	Xingshan nematode virus 2	1923761	S	16	0
TVH1548	Mycobacterium virus Marcell	1211283	S	16	0
TVH1549	Salmonella phage vB_SnwM_CGG4-1	1815631	S	16	0
TVH1550	Salmonella phage ZCSE2	2562175	S1	16	0
TVH1551	Acidovorax phage ACP17	2010329	S1	16	0
TVH1552	Pseudomonas phage Alpheus	2163983	S1	16	0
TVH1553	Cronobacter virus Esp2949-1	1073767	S	16	0
TVH1554	Bacillus phage TsarBomba	1690456	S1	16	0
TVH1555	Staphylococcus phage phiSA_BS2	2126724	S1	16	0
TVH1556	Vibrio phage River4	2736288	S	16	0
TVH1557	Vibrio phage VspSw_1	2484249	S1	16	0
TVH1558	Penguinpox virus	648998	S	16	0
TVH1559	Simian adenovirus 49	995022	S1	16	0
TVH1560	Sulfolobus monocaudavirus SMV3	1732177	S	16	0
TVH1561	Mount Mabu Lophuromys virus 1	2116559	S1	15	0
TVH1562	Citrus leprosis virus N	1956177	S1	15	0
TVH1563	Chenuda virus	40065	S	15	0
TVH1564	Shate isopoda virus 2	1923422	S	15	0
TVH1565	Spodoptera littoralis nucleopolyhedrovirus	10456	S	15	0
TVH1566	Pseudomonas phage PAJU2	504346	S	15	0
TVH1567	Salmonella phage SSU5	1177632	S	15	0
TVH1568	Acinetobacter phage Acj9	760939	S1	15	0
TVH1569	Marinomonas phage CPP1m	1965370	S1	15	0
TVH1570	Cyprinid herpesvirus 1	317858	S	15	0
TVH1571	Short-finned eel ranavirus	638660	S	15	0

TVH1572	Vibrio phage KVP40	75320	S1	14	1
TVH1573	Bacillus phage DLc1	2777318	S	14	1
TVH1574	Ateline alphaherpesvirus 1	35243	S	14	2
TVH1575	Harrier picornavirus 1	1987722	S1	14	0
TVH1576	RD114 retrovirus	11834	S	14	0
TVH1577	Bovine retrovirus CH15	1822365	S	14	0
TVH1578	Hubei picorna-like virus 29	1923109	S	14	0
TVH1579	Wuhan heteroptera virus 2	1923702	S	14	0
TVH1580	Gordonia phage Patio	2041515	S	14	0
TVH1581	Erwinia phage pEp_SNUABM_08	2593268	S	14	0
TVH1582	Mycobacterium phage GageAP	2126813	S	14	0
TVH1583	Mycobacterium phage Jorgensen	2759390	S	14	0
TVH1584	Mycobacterium phage Rando14	2301556	S	14	0
TVH1585	Salmonella phage f18SE	1611545	S1	14	0
TVH1586	Gordonia phage Sour	2182349	S1	14	0
TVH1587	Citrobacter phage Margaery	1701810	S1	14	0
TVH1588	Synechococcus phage S-SSM5	445685	S	14	0
TVH1589	Pseudomonas phage OBP	1124849	S	14	0
TVH1590	Burkholderia virus Bcep22	242527	S	14	0
TVH1591	Escherichia phage Pollock	1540097	S1	14	0
TVH1592	Lymphocryptovirus Macaca/pfe-lcl-E3	1716044	S1	14	0
TVH1593	Ectocarpus siliculosus virus 1	37665	S	14	0
TVH1594	Bat mastadenovirus G	2015376	S	14	0
TVH1595	Acidianus filamentous virus 7	346883	S	14	0
TVH1596	Cyanophage P-TIM40	1589733	S1	13	1
TVH1597	Armadillidium vulgare iridescent virus	72201	S1	13	11
TVH1598	Fowl avian adenovirus C	190063	S	13	1
TVH1599	Lambdina fiscellaria nucleopolyhedrovirus	1642929	S	13	2
TVH1600	Tacheng Tick Virus 2	1608084	S1	13	0
TVH1601	Nairobi sheep disease virus	194540	S1	13	0
TVH1602	Severe acute respiratory syndrome coronavirus 2	2697049	S1	13	0
TVH1603	Spodoptera litura nucleopolyhedrovirus	46242	S	13	0
TVH1604	Tsukamurella phage TPA4	1647476	S	13	0
TVH1605	Lactobacillus phage phiJB	1399941	S	13	0
TVH1606	Streptococcus virus 9874	1814960	S	13	0
TVH1607	Caulobacter phage CcrPW	2283271	S1	13	0
TVH1608	Mycobacterium phage Pollywog	2502448	S	13	0
TVH1609	Escherichia phage Lw1	1307804	S1	13	0
TVH1610	Caulobacter phage Cr30	1357714	S	13	0
TVH1611	Brevibacillus phage Davies	1296662	S1	13	0
TVH1612	Pseudomonas phage EL	273133	S1	13	0
TVH1613	crAssphage cr131_1	2772093	S	13	0
TVH1614	Pseudomonas phage tf	1114179	S1	13	0
TVH1615	Escherichia phage vB_EcoS_IME347	2496546	S1	13	0
TVH1616	Erwinia phage phiEaP-8	2178928	S	13	0
TVH1617	Macacine betaherpesvirus 3	47929	S	13	0
TVH1618	Elephantid betaherpesvirus 1	146015	S	13	0
TVH1619	Haloarcula hispanica icosahedral virus 2	1154689	S	13	0
TVH1620	Faeces associated gemycircularvirus 21	1843741	S2	13	0
TVH1621	Cyrtanthus elatus virus A	861561	S	12	43
TVH1622	Beihai picorna-like virus 14	1922556	S	12	1
TVH1623	Antarctic penguin virus B	2006073	S1	12	0
TVH1624	Cache Valley virus	80935	S1	12	0
TVH1625	Carrot yellow leaf virus	656190	S	12	0
TVH1626	Hubei picorna-like virus 17	1923096	S	12	0
TVH1627	Gordonia phage Lambo	2599845	S1	12	0
TVH1628	Salmonella phage vB_SenS_BFS1	2801546	S	12	0
TVH1629	Escherichia phage JSE	576789	S1	12	0
TVH1630	Synechococcus phage syn9	382359	S	12	0
TVH1631	Escherichia phage slur16	1720495	S1	12	0
TVH1632	Halobacterium phage phiH	169684	S1	12	0
TVH1633	Synechococcus phage S-CAM7	1883368	S1	12	0
TVH1634	Shigella virus Sfin-3	2608316	S	12	0
TVH1635	Salmonella virus SP126	1173741	S	12	0
TVH1636	Escherichia phage vB_EcoS_IME542	2507711	S1	12	0
TVH1637	Human betaherpesvirus 6B	32604	S	12	0
TVH1638	Haloarcula californiae icosahedral virus 1	1735722	S1	12	0
TVH1639	Mossuril virus	200404	S1	11	0
TVH1640	Great Saltee virus	1810946	S1	11	0
TVH1641	Chayote mosaic virus	71030	S	11	0
TVH1642	Euphorbia ringspot virus	291286	S	11	0
TVH1643	Wuhan spider virus 2	1923751	S	11	0

TVH1644	Choristoneura rosaceana nucleopolyhedrovirus	58094	S	11	0
TVH1645	Staphylococcus phage IME-SA4	1610872	S	11	0
TVH1646	Salmonella virus Chi	1541887	S	11	0
TVH1647	Mycobacterium phage Vincenzo	1647301	S1	11	0
TVH1648	Mycobacterium phage KiSi	2507856	S	11	0
TVH1649	Gordonia phage Lucky10	1821557	S1	11	0
TVH1650	Erwinia phage ENT90	947843	S1	11	0
TVH1651	Serratia phage BF	1962671	S1	11	0
TVH1652	Edwardsiella phage pEt-SU	2562142	S1	11	0
TVH1653	Pseudomonas phage PaBG	1335230	S1	11	0
TVH1654	Lactococcus virus KSY1	388452	S	11	0
TVH1655	Bacillus phage CampHawk	1406783	S1	11	0
TVH1656	Pectobacterium phage My1	1204539	S1	11	0
TVH1657	Pectobacterium phage PP101	1916414	S1	11	0
TVH1658	Micromonas pusilla virus SP1	373996	S	11	0
TVH1659	Nile crocodilepox virus	1285600	S	11	0
TVH1660	Choristoneura rosaceana entomopoxvirus 'L'	1293539	S1	11	0
TVH1661	Sulfolobus filamentous virus 1	2304198	S1	11	0
TVH1662	Mouse mammary tumor virus	11757	S	10	1
TVH1663	Mycobacterium phage Phrappuccino	2591223	S	10	1
TVH1664	Salmonella phage PVPSE1	889338	S1	10	1
TVH1665	Erwinia phage vB_EamM_Y3	1983553	S1	10	2
TVH1666	Streptomyces phage Sitrop	2767587	S	10	1
TVH1667	Sanxia Water Strider Virus 2	1608061	S1	10	0
TVH1668	Tobacco mosqueado virus	1792583	S	10	0
TVH1669	Mobuck virus	1408137	S	10	0
TVH1670	Beihai picorna-like virus 55	1922600	S	10	0
TVH1671	Wenzhou shrimp virus 6	1923653	S	10	0
TVH1672	Closteria anachoreta granulovirus	283675	S	10	0
TVH1673	Neodiprion abietis NPV	204507	S	10	0
TVH1674	Ralstonia phage RS138	1483485	S	10	0
TVH1675	Gordonia phage BrutonGaster	2530116	S1	10	0
TVH1676	Mycobacterium phage Marvin	1034139	S1	10	0
TVH1677	Ralstonia phage RSY1	1530085	S1	10	0
TVH1678	Acinetobacter phage vB_AbaM_ME3	1837876	S1	10	0
TVH1679	Bacteroides phage crAss001	2301731	S	10	0
TVH1680	Arthrobacter phage Adat	2027883	S1	10	0
TVH1681	Vibrio phage VAP7	2584487	S1	10	0
TVH1682	Stenotrophomonas phage Pokken	2596674	S1	10	0
TVH1683	Bacillus phage KonjoTrouble	2023950	S1	10	0
TVH1684	Felid alphaherpesvirus 1	10334	S	10	0
TVH1685	Flamingopox virus FGPKD09	2059380	S	10	0
TVH1686	Mizyes virus 1	2480179	S	10	0
TVH1687	Microplitis demolitor bracovirus	53988	S	10	0
TVH1688	Heartland virus	1216928	S1	9	9
TVH1689	Synechococcus phage S-SKS1	754042	S1	9	4
TVH1690	Erwinia phage vB_EamM_Asesino	1883370	S1	9	1
TVH1691	Porcine lymphotropic herpesvirus 1	91740	S1	9	2
TVH1692	Erimyia ello granulovirus	307444	S	9	1
TVH1693	Human respirovirus 3	11216	S	9	0
TVH1694	Aravan lyssavirus	211977	S	9	0
TVH1695	Oropouche virus	118655	S1	9	0
TVH1696	Spondweni virus	64318	S	9	0
TVH1697	Mint virus 1	300740	S	9	0
TVH1698	Potato aucuba mosaic virus	12182	S	9	0
TVH1699	Macrobrachium rosenbergii nodavirus	222557	S	9	0
TVH1700	Bean pod mottle virus	12260	S	9	0
TVH1701	Bat hepatovirus BUO2BF86Colafr2010	1987143	S1	9	0
TVH1702	Condylorrhiza vestigialis MNPV	1592576	S	9	0
TVH1703	Rhizobium phage vB_RieS_L338C	1414737	S	9	0
TVH1704	Vibrio phage SHOU24	1414739	S	9	0
TVH1705	Caulobacter phage CorSC	2283272	S1	9	0
TVH1706	Lactococcus phage 88605	2029673	S1	9	0
TVH1707	Ralstonia phage Dina	2759732	S1	9	0
TVH1708	Vibrio phage iCP1	979525	S	9	0
TVH1709	Erwinia phage vB_EamM_Kwan	1883374	S	9	0
TVH1710	Vibrio phage 1.202.O_10N.222.45.E8	1881262	S1	9	0
TVH1711	Klebsiella phage vB_Kpn_F48	2070028	S1	9	0
TVH1712	Acinetobacter phage vB_AbaM_Acibel004	1481186	S	9	0
TVH1713	Pseudoalteromonas phage J2-1	2023998	S1	9	0
TVH1714	Synechococcus phage S-CBWM1	2053653	S1	9	0
TVH1715	Tenacibaculum phage PTm1	2547425	S1	9	0

TVH1716	Dickeya phage BF25/12	1698708	S1	9	0
TVH1717	Agrobacterium phage OLIVR1	2723769	S	9	0
TVH1718	Escherichia virus phiEco32	490103	S	9	0
TVH1719	Cellulophaga phage phi4:1	1328029	S1	9	0
TVH1720	Shigella phage 75/02 Stx	1416032	S1	9	0
TVH1721	Bacillus phage Phrodo	1805953	S	9	0
TVH1722	Bacillus phage Grass	1406785	S1	9	0
TVH1723	Bacillus phage Moonbeam	1540091	S1	9	0
TVH1724	Staphylococcus virus Twort	55510	S	9	0
TVH1725	Saimiriine betaherpesvirus 4	1535247	S	9	0
TVH1726	Ostreococcus mediterraneus virus 1	1663210	S	9	0
TVH1727	Raccoonpox virus	10256	S	9	0
TVH1728	Simian adenovirus 16	1715778	S1	9	0
TVH1729	Felis catus papillomavirus 4	1398507	S1	9	0
TVH1730	Pteropus associated gemycircularvirus 3	1985397	S	9	0
TVH1731	Simian retrovirus 8	1904439	S	8	2
TVH1732	Garlic virus C	12431	S	8	6
TVH1733	Mycobacterium phage Melissaurin88	2163593	S	8	1
TVH1734	Gordonia phage Troje	2079282	S1	8	1
TVH1735	Gordonia phage Jutu	2590929	S	8	1
TVH1736	crAssphage cr126_1	2772075	S	8	1
TVH1737	Cydia pomonella granulovirus	28289	S	8	1
TVH1738	Duvenhage lyssavirus	38767	S	8	0
TVH1739	Icoaraci virus	426790	S1	8	0
TVH1740	Yichang insect virus	1608144	S1	8	0
TVH1741	Privet ringspot virus	2169960	S	8	0
TVH1742	Onyong-nyong virus	2169701	S	8	0
TVH1743	Marmot norovirus	2161807	S	8	0
TVH1744	Grapevine enamovirus 1	2560515	S	8	0
TVH1745	Pokeweed mosaic virus	1220025	S	8	0
TVH1746	Red clover powdery mildew-associated totivirus 3	1714364	S	8	0
TVH1747	Avian myeloblastosis virus	11866	S	8	0
TVH1748	Parrot hepatitis B virus	1128118	S	8	0
TVH1749	Beihai toti-like virus 4	1922734	S	8	0
TVH1750	Beihai tombus-like virus 7	1922728	S	8	0
TVH1751	Hubei Wuhan insect virus 9	1922833	S	8	0
TVH1752	Xestia c-nigrum granulovirus	51677	S	8	0
TVH1753	Choristoneura murinana nucleopolyhedrovirus	1987479	S	8	0
TVH1754	Spodoptera exempta nucleopolyhedrovirus	1242863	S	8	0
TVH1755	Spodoptera exigua multiple nucleopolyhedrovirus	10454	S	8	0
TVH1756	Streptococcus phage phiARI0131-1	1701813	S	8	0
TVH1757	Lactococcus phage LW31	1965478	S1	8	0
TVH1758	Mycobacterium phage XFactor	1698715	S	8	0
TVH1759	Mycobacterium phage Donovan	1429793	S1	8	0
TVH1760	Staphylococcus virus IPLA5	1197952	S	8	0
TVH1761	Bacillus phage PBC1	1161901	S1	8	0
TVH1762	Arthrobacter phage Eileen	2419956	S1	8	0
TVH1763	Bacillus phage BalMu-1	1567487	S	8	0
TVH1764	Xanthomonas phage FoX2	2723898	S	8	0
TVH1765	Achromobacter phage Mano	2767570	S	8	0
TVH1766	Pseudomonas phage 201phi2-1	198110	S	8	0
TVH1767	Vibrio phage Aphrodite1	2070057	S1	8	0
TVH1768	Acinetobacter phage AbTZA1	2500827	S1	8	0
TVH1769	Escherichia phage SUSP2	1718669	S1	8	0
TVH1770	Enterobacter phage Arya	1864622	S	8	0
TVH1771	Prochlorococcus phage P-SSM7	445688	S1	8	0
TVH1772	Aeromonas phage phiAS7	1141132	S1	8	0
TVH1773	crAssphage cr7_1	2772086	S	8	0
TVH1774	Escherichia phage vB_EcoS_NBD2	1852563	S1	8	0
TVH1775	Bacillus phage CP-51	1391188	S1	8	0
TVH1776	Acinetobacter phage Presley	1406780	S1	8	0
TVH1777	Alcelaphine gammaherpesvirus 1	35252	S	8	0
TVH1778	Bovine gammaherpesvirus 6	1504288	S	8	0
TVH1779	Ranid herpesvirus 2	389214	S	8	0
TVH1780	Ostreococcus tauri virus 1	642926	S	8	0
TVH1781	Bathycoccus sp. RCC1105 virus BpV1	880159	S1	8	0
TVH1782	Invertebrate iridovirus 25	1301280	S	8	0
TVH1783	Invertebrate iridescent virus 30	345585	S1	8	0
TVH1784	Equus caballus papillomavirus 5	1235429	S1	8	0
TVH1785	Equus caballus papillomavirus 1	333920	S1	8	0
TVH1786	Mason-Pfizer monkey virus	11855	S	7	9
TVH1787	Escherichia phage vB_EcoP_SU10	1519788	S1	7	1

TVH1788	Bacillus phage Spock	1406791	S1	7	1
TVH1789	Pseudomonas phage LU27	655097	S1	7	1
TVH1790	Salmon gill poxvirus	1680908	S1	7	1
TVH1791	Chrysodeikis chalcites nucleopolyhedrovirus	320432	S	7	2
TVH1792	Orgyia leucostigma nucleopolyhedrovirus	490711	S	7	1
TVH1793	Bovine ephemeral fever virus	11303	S1	7	0
TVH1794	Parrot bornavirus 7	1548719	S1	7	0
TVH1795	Influenza A virus (A/goose/Guangdong/1/1996(H5N1))	93838	S2	7	0
TVH1796	Beet pseudoyellows virus	72750	S	7	0
TVH1797	Ceratobasidium endornavirus G	1908811	S	7	0
TVH1798	Fusarium coeruleum mitovirus 1	1562380	S	7	0
TVH1799	Artogeia rapae granulovirus	362830	S	7	0
TVH1800	Adoxophyes orana nucleopolyhedrovirus	542343	S	7	0
TVH1801	Glossina pallidipes salivary gland hypertrophy virus	379529	S1	7	0
TVH1802	Lactobacillus phage Sha1	947981	S	7	0
TVH1803	Mycobacterium phage Kumao	2041344	S	7	0
TVH1804	Mycobacterium phage Centaur	2488784	S	7	0
TVH1805	Streptomyces phage Karimac	2283303	S1	7	0
TVH1806	Lactococcus phage 96401	2029674	S1	7	0
TVH1807	Gordonia phage GordTnk2	1622192	S1	7	0
TVH1808	Vibrio phage SSP002	1161928	S1	7	0
TVH1809	Mycobacterium phage TChen	2163598	S1	7	0
TVH1810	Halocynthia phage JM-2012	1173297	S	7	0
TVH1811	Escherichia phage Av-05	1527519	S1	7	0
TVH1812	Vibrio phage Valm-yong1	2660715	S1	7	0
TVH1813	Synechococcus phage Syn19	445684	S1	7	0
TVH1814	Synechococcus phage S-IOM18	754039	S1	7	0
TVH1815	Synechococcus phage S-SM1	444859	S1	7	0
TVH1816	Faecalibacterium phage FP_Taranis	2070186	S1	7	0
TVH1817	Acinetobacter phage vB_ApiP_P1	2016052	S1	7	0
TVH1818	Pseudomonas phage phiBB-PAA2	1429758	S1	7	0
TVH1819	Helicobacter phage KHP30	1208236	S1	7	0
TVH1820	Escherichia phage Sortsne	2562456	S1	7	0
TVH1821	Salmonella phage astrithr	2713276	S1	7	0
TVH1822	Bacillus virus BM15	1985178	S	7	0
TVH1823	Salmonella phage SP01	1920294	S1	7	0
TVH1824	Pseudoalteromonas phage pYD6-A	754052	S1	7	0
TVH1825	Macacine gammaherpesvirus 5	154334	S	7	0
TVH1826	Minivirus terra2	1128151	S	7	0
TVH1827	Spodoptera frugiperda ascovirus 1a	113370	S	7	0
TVH1828	Myxoma virus	10273	S	7	0
TVH1829	Simian adenovirus 18	909210	S1	7	0
TVH1830	Bovine atadenovirus D	130499	S	7	0
TVH1831	Melochia mosaic virus	1742594	S	7	0
TVH1832	Nitrosopumilus spindle-shaped virus	2508184	S	7	0
TVH1833	Pea necrotic yellow dwarf alphasatellite 3	1441798	S	7	0
TVH1834	Cordylina virus 3	1177752	S	6	1
TVH1835	Ribgrass mosaic virus	51680	S	6	1
TVH1836	Canada goose coronavirus	2569586	S	6	1
TVH1837	Mycobacterium phage PurpleHaze	1983577	S	6	1
TVH1838	Klebsiella phage SopranoGao	2026944	S1	6	67
TVH1839	Salmonella phage epsilon15	215158	S1	6	46
TVH1840	Bacillus phage Shbh1	1796992	S1	6	2
TVH1841	Emiliania huxleyi virus 86	181082	S	6	1
TVH1842	Wiseana iridescent virus	68347	S1	6	1
TVH1843	Lymphocystis disease virus Sa	1898060	S	6	1
TVH1844	Lymphocystis disease virus 4	2704413	S	6	1
TVH1845	Northern cereal mosaic cytorhabdovirus	1985704	S	6	0
TVH1846	Balsa almendravirus	1972684	S	6	0
TVH1847	Perch perhabdovirus	1256869	S	6	0
TVH1848	San Angelo virus	45767	S1	6	0
TVH1849	Malva mosaic virus	392174	S	6	0
TVH1850	Tylenycteris bat coronavirus HKU4	694007	S	6	0
TVH1851	Xinzhou toro-like virus	1923777	S1	6	0
TVH1852	Melegriovirus A	1330070	S	6	0
TVH1853	Marine RNA virus PAL128	1804153	S1	6	0
TVH1854	Solenopsis invicta virus 2	439491	S	6	0
TVH1855	Changjiang picorna-like virus 1	1922782	S	6	0
TVH1856	Wuhan house centipede virus 2	1923706	S	6	0
TVH1857	Xingshan cricket virus	1746072	S	6	0
TVH1858	Peridroma alphabaculovirus	1346829	S	6	0
TVH1859	Sucrea jujuba nucleopolyhedrovirus	1563660	S	6	0

TVH1860	Antheraea pernyi nucleopolyhedrovirus	161494	S	6	0
TVH1861	Trichoplusia ni single nucleopolyhedrovirus	332054	S	6	0
TVH1862	Gordonia phage Buggaboo	2315529	S	6	0
TVH1863	Croceibacter phage P2559V	1327037	S	6	0
TVH1864	Enterobacteria phage cdtI	414970	S	6	0
TVH1865	Pseudocalteromonas phage H103	1636200	S	6	0
TVH1866	Caulobacter virus Magneto	1211642	S	6	0
TVH1867	Mycobacterium phage Ichabod	2099633	S	6	0
TVH1868	Mycobacterium phage MrMagoo	1927020	S	6	0
TVH1869	Pseudomonas phage nickie	2048977	S1	6	0
TVH1870	Lactococcus phage 50504	2024337	S1	6	0
TVH1871	Mycobacterium phage BigNuz	1074309	S1	6	0
TVH1872	Gordonia phage OneUp	1838074	S1	6	0
TVH1873	Xylella phage Salvo	1415147	S1	6	0
TVH1874	Gordonia phage BaxterFox	1821549	S1	6	0
TVH1875	Streptomyces virus phiC31	10719	S	6	0
TVH1876	Mycobacterium phage Indulamithi	2656582	S1	6	0
TVH1877	Mycobacterium phage Tortellini	1897497	S1	6	0
TVH1878	Rhodobacter phage RcSpartan	1662331	S1	6	0
TVH1879	Erwinia phage vB_Eam-MM7	1051674	S1	6	0
TVH1880	Cyanophage P-RSM6	929832	S	6	0
TVH1881	Stenotrophomonas phage Moby	2601680	S1	6	0
TVH1882	Pseudomonas phage PaoP5	1716042	S	6	0
TVH1883	Tenacibaculum phage pT24	1880590	S1	6	0
TVH1884	Morganella phage vB_MmoP_MP2	1852627	S1	6	0
TVH1885	crAssphage cr4_1	2772084	S	6	0
TVH1886	Vibrio phage Vc1	1480731	S1	6	0
TVH1887	Bacillus phage NotTheCreek	1805952	S	6	0
TVH1888	Listeria virus A511	40523	S	6	0
TVH1889	Sulfitobacter phage phiCB2047-B	754046	S1	6	0
TVH1890	Equid gammaherpesvirus 5	10371	S	6	0
TVH1891	Papio ursinus cytomegalovirus	1667587	S1	6	0
TVH1892	Gallid alphaherpesvirus 1	10386	S	6	0
TVH1893	Psittacid alphaherpesvirus 1	50294	S	6	0
TVH1894	Yellowstone lake mimivirus	1586712	S	6	0
TVH1895	Pithovirus sibericum	1450746	S	6	0
TVH1896	Halovirus HCTV-2	1273747	S	6	0
TVH1897	Serinus canaria papillomavirus 1	2094713	S	6	0
TVH1898	Thermoproteus tenax virus 1	10479	S1	6	0
TVH1899	Desmodus rotundus endogenous retrovirus	1622024	S	5	2
TVH1900	Bat Paramyxovirus Eid_hel/GH-M74a/GHA/2009	1112631	S1	5	1
TVH1901	Synechococcus phage metaG-MbCM1	1079999	S	5	1
TVH1902	Escherichia phage vb_EcoM-VR5	1567026	S1	5	1
TVH1903	Ralstonia phage RSL2	1585840	S1	5	1
TVH1904	Mycobacterium phage Adzzy	1383059	S	5	1
TVH1905	Mycobacterium phage Alvin	1567466	S	5	1
TVH1906	Bacillus phage Nigalana	1805951	S	5	6
TVH1907	Enterococcus virus EF24C	2560419	S	5	1
TVH1908	Agrobacterium phage OLIVR5	2723773	S	5	2
TVH1909	Squirrelpox virus Berlin_2015	2029293	S	5	1
TVH1910	Operophtera brumata nucleopolyhedrovirus	1046267	S	5	1
TVH1911	Mount Mabu Lophuromys virus 2	2116560	S1	5	0
TVH1912	Midway nyavirus	644609	S	5	0
TVH1913	Kyasanur Forest disease virus	33743	S	5	0
TVH1914	Pepper ringspot virus	31750	S	5	0
TVH1915	Ofaie virus	1795442	S1	5	0
TVH1916	Dinocampus coccinellae paralysis virus	1541119	S	5	0
TVH1917	Red clover nepovirus A	2058094	S	5	0
TVH1918	Duck aalivirus 1	1482734	S1	5	0
TVH1919	Feline calicivirus	11978	S	5	0
TVH1920	Rodent astrovirus	1914442	S	5	0
TVH1921	Pseudomonas virus phiG	10879	S	5	0
TVH1922	Sweet potato badnavirus B	647294	S	5	0
TVH1923	Wenzhou yanvirus-like virus 2	1923684	S	5	0
TVH1924	Epinotia aporema granulovirus	166056	S	5	0
TVH1925	Helicoverpa armigera granulovirus	489830	S	5	0
TVH1926	Autographa californica nucleopolyhedrovirus	46015	S1	5	0
TVH1927	Cyanophage PSS2	658401	S	5	0
TVH1928	Streptococcus phage APCM01	1647391	S	5	0
TVH1929	Shewanella sp. phage 1/44	1458862	S	5	0
TVH1930	Streptomyces phage phiSASD1	747763	S	5	0
TVH1931	Escherichia phage vB_EcoS_swi2	2769808	S	5	0

TVH1932	Gordonia phage Pleakley	2283246	S	5	0
TVH1933	Caulobacter phage CcrColossus	1211640	S1	5	0
TVH1934	Streptomyces phage Endor2	2740182	S	5	0
TVH1935	Pseudomonas phage PaMx28	1175659	S1	5	0
TVH1936	Pseudomonas phage NP1	1844477	S1	5	0
TVH1937	Salmonella phage vB_SenS_AG11	1211279	S1	5	0
TVH1938	Mycobacterium phage Phayonce	1647302	S1	5	0
TVH1939	Bacillus phage Staley	1406792	S1	5	0
TVH1940	Caulobacter virus Rogue	1211643	S	5	0
TVH1941	Streptomyces phage BillNye	2079426	S1	5	0
TVH1942	Streptomyces phage Darolandstone	2315716	S1	5	0
TVH1943	Arthrobacter phage DrManhattan	2419955	S1	5	0
TVH1944	Escherichia phage vB_EcoM_112	1495285	S1	5	0
TVH1945	Proteus phage phiP4-3	2065203	S	5	0
TVH1946	Prochlorococcus phage P-SSM3	536453	S1	5	0
TVH1947	Cellulophaga phage phiSM	756280	S	5	0
TVH1948	Flavobacterium phage vB_FspM_immuto_2-6A	2801477	S	5	0
TVH1949	Dickeya phage vB_DsoM_JA29	2283031	S1	5	0
TVH1950	Escherichia phage 500465-2	2716352	S1	5	0
TVH1951	Klebsiella phage 3LV2017	1960657	S1	5	0
TVH1952	Aeromonas phage CC2	1204516	S1	5	0
TVH1953	Acinetobacter phage ZZ1	1049283	S1	5	0
TVH1954	Pseudomonas phage VCM	1729937	S1	5	0
TVH1955	Pseudoalteromonas phage H101	1654919	S1	5	0
TVH1956	Synechococcus phage S-RIP1	754041	S1	5	0
TVH1957	uncultured phage_MedDCM-OCT-S30-C28	2741076	S1	5	0
TVH1958	crAssphage cr56_1	2772081	S	5	0
TVH1959	crAssphage cr106_1	2772062	S	5	0
TVH1960	crAssphage cr50_1	2772059	S	5	0
TVH1961	Pseudomonas phage Bjorn	2079288	S1	5	0
TVH1962	Escherichia phage Skarpretter	2488654	S1	5	0
TVH1963	Escherichia phage C130_2	2234093	S1	5	0
TVH1964	Lactobacillus phage SAC12B	2510941	S1	5	0
TVH1965	Lactobacillus phage Bacchae	2079429	S1	5	0
TVH1966	Enterobacter phage EcP1	942016	S1	5	0
TVH1967	Vombatid gammaherpesvirus 1	2052651	S	5	0
TVH1968	Saimiriine alphaherpesvirus 1	10353	S	5	0
TVH1969	Ictalurid herpesvirus 2	508441	S	5	0
TVH1970	Thermus virus IN93	1714273	S	5	0
TVH1971	Human papillomavirus 136	1070409	S1	5	0
TVH1972	bat polyomavirus 2b	2758132	S1	5	0
TVH1973	Adeno-associated virus	272636	S	5	0
TVH1974	Adeno-associated virus - 7	202812	S2	5	0
TVH1975	Lycianthes yellow mosaic virus	1779714	S	5	0
TVH1976	Halorubrum pleomorphic virus 6	1156721	S1	5	0
TVH1977	HIS2 virus	128710	S1	5	0
TVH1978	Torque teno virus 28	687367	S	5	0
TVH1979	Ctenophore-associated circular genome 1	1778570	S	5	0
TVH1980	Bovine coronavirus	11128	S1	4	1
TVH1981	Wenling nido-like virus 1	1923510	S1	4	1
TVH1982	Vibrio phage VBM1	754074	S	4	1
TVH1983	Rhizobium phage vB_RieM_PPF1	1498228	S	4	1
TVH1984	Escherichia phage vB_EcoM_VR26	1567029	S1	4	1
TVH1985	Burkholderia phage KS5	910473	S1	4	2
TVH1986	Pseudomonas phage pf16	1815630	S1	4	1
TVH1987	Gordonia phage SteveFrench	2079281	S1	4	6
TVH1988	Gordonia phage Bowser	1838063	S1	4	1
TVH1989	Bacillus phage Mater	1540090	S1	4	1
TVH1990	Staphylococcus phage SA46-CL1	2591106	S	4	1
TVH1991	Actine betaherpesvirus 1	50290	S	4	2
TVH1992	Gallid alphaherpesvirus 3	35250	S	4	1
TVH1993	Invertebrate iridescent virus 3	345201	S	4	1
TVH1994	Simian adenovirus DM-2014	1560346	S1	4	1
TVH1995	Perigonia lusca single nucleopolyhedrovirus	1675865	S1	4	2
TVH1996	Cyclophragma undans nucleopolyhedrovirus	1906244	S	4	2
TVH1997	Porcine respirovirus 1	1357321	S	4	0
TVH1998	Tuhoko virus 1	798072	S1	4	0
TVH1999	Spodoptera frugiperda rhabdovirus	1481139	S1	4	0
TVH2000	Rice stripe tenuivirus	12331	S	4	0
TVH2001	Andes orthohantavirus	1980456	S	4	0
TVH2002	Argentinian mammarynavirus	2169991	S	4	0
TVH2003	Johnston Atoll quaranjavirus	688437	S	4	0

TVH2004	Dengue virus 4	11070	S1	4	0
TVH2005	Pepper virus A	1803898	S	4	0
TVH2006	Pepino mosaic virus	112229	S	4	0
TVH2007	Porcine coronavirus HKU15	1159905	S1	4	0
TVH2008	Scotophilus bat coronavirus 512	693999	S	4	0
TVH2009	Porcine torovirus	237020	S	4	0
TVH2010	Tomato ringspot virus	12280	S	4	0
TVH2011	Shuangao insect virus 8	1923469	S	4	0
TVH2012	Tomato necrotic stunt virus	1176153	S	4	0
TVH2013	Orungo virus	40058	S	4	0
TVH2014	Green River chinook virus	1382300	S1	4	0
TVH2015	Camponotus nipponicus virus	1765754	S	4	0
TVH2016	Golden shiner totivirus	1856030	S	4	0
TVH2017	Enzootic nasal tumour virus of goats	239365	S	4	0
TVH2018	Human T-lymphotropic virus 2	11909	S1	4	0
TVH2019	Simian T-lymphotropic virus 3	39101	S1	4	0
TVH2020	Human endogenous retrovirus K113	166122	S1	4	0
TVH2021	Cacao mild mosaic virus	1940252	S	4	0
TVH2022	Shayang virga-like virus 1	1923463	S	4	0
TVH2023	Shahe picorna-like virus 7	1923450	S	4	0
TVH2024	Wenling hepe-like virus 1	1923493	S	4	0
TVH2025	Mocis latipes granulovirus	2072024	S	4	0
TVH2026	Closteria anastomosis granulovirus B	1986290	S	4	0
TVH2027	Plodia interpunctella granulovirus	262175	S	4	0
TVH2028	Malacosoma neustria nucleopolyhedrovirus	38012	S	4	0
TVH2029	Cianis bilineata nucleopolyhedrovirus	1307957	S	4	0
TVH2030	Maruca vitrata nucleopolyhedrovirus	1307954	S	4	0
TVH2031	Pseudoplusia includens SNPV IE	1592335	S1	4	0
TVH2032	Helicoverpa armigera nucleopolyhedrovirus	51313	S	4	0
TVH2033	Gordonia phage Emianna	2315530	S	4	0
TVH2034	Lactobacillus prophage Lj928	139872	S	4	0
TVH2035	Loktanelia phage pCB2051-A	754044	S	4	0
TVH2036	Salmonella phage 64795_sal3	1813769	S	4	0
TVH2037	Planktothrix phage PaV-LD	994601	S	4	0
TVH2038	Streptomyces phage Wollford	2283267	S1	4	0
TVH2039	Streptomyces phage Yaboi	2301621	S1	4	0
TVH2040	Mycobacterium phage 39HC	1463809	S	4	0
TVH2041	Mycobacterium phage BirdsNest	2686231	S	4	0
TVH2042	Streptomyces phage Salutena	2767576	S	4	0
TVH2043	Arthrobacter phage Pumancara	1772311	S1	4	0
TVH2044	Alphaproteobacteria virus phiJ001	279383	S	4	0
TVH2045	Microbacterium phage Hamlet	2079583	S1	4	0
TVH2046	Propionibacterium phage PHL113M01	1235655	S1	4	0
TVH2047	Streptococcus virus ALQ132	682370	S	4	0
TVH2048	Staphylococcus phage StB27	1147044	S	4	0
TVH2049	Gordonia phage Tanis	2652415	S1	4	0
TVH2050	Gordonia phage Schmidt	2301697	S	4	0
TVH2051	Mycobacterium phage Sbash	1567475	S1	4	0
TVH2052	Mycobacterium phage Drlupo	2499037	S1	4	0
TVH2053	Pantoea phage vB_PagS_Vid5	2099652	S1	4	0
TVH2054	Arthrobacter phage Andrew	2419946	S1	4	0
TVH2055	Microbacterium phage OneinaGillian	2301604	S1	4	0
TVH2056	Cellulophaga phage phi18:1	1327982	S1	4	0
TVH2057	Bacillus phage phiS3501	1124578	S1	4	0
TVH2058	Enterococcus phage phiFL3A	673837	S1	4	0
TVH2059	Gordonia phage BritBrat	1838064	S1	4	0
TVH2060	Gordonia phage Bantam	1887641	S1	4	0
TVH2061	Pseudomonas phage vB_PaeS_PM105	1743016	S1	4	0
TVH2062	Escherichia phage F2	2696339	S1	4	0
TVH2063	Shigella phage SP18	645664	S1	4	0
TVH2064	Cronobacter phage S13	1327935	S	4	0
TVH2065	Erwinia phage Cronus	2163633	S	4	0
TVH2066	Enterobacteria phage vB_EcoM_IME341	2163891	S	4	0
TVH2067	Vibrio phage ValKK3	1610855	S1	4	0
TVH2068	Rhizobium phage RR1-A	929833	S	4	0
TVH2069	Vibrio phage qdvp001	1003177	S	4	0
TVH2070	Clostridium phage phiCT453A	1567012	S	4	0
TVH2071	Burkholderia phage Mica	2767579	S	4	0
TVH2072	Synechococcus phage S-SM2	444860	S	4	0
TVH2073	Vibrio phage ValB1MD-2	2759177	S	4	0
TVH2074	Vibrio phage USC-1	2592615	S1	4	0
TVH2075	Campylobacter virus CP21	1190451	S	4	0

TVH2076	Acinetobacter phage vB_AbaM_phiAbaA1	1605379	S	4	0
TVH2077	Clostridium phage CDKM15	1868595	S1	4	0
TVH2078	Arthrobacter phage DrYang	2686080	S1	4	0
TVH2079	Xanthomonas phage Carpasina	2163636	S1	4	0
TVH2080	Bacillus phage BCD7	1136534	S1	4	0
TVH2081	Bordetella phage vB_BbrM_PH804	2029657	S1	4	0
TVH2082	Faecalibacterium phage FP_Brigit	2070181	S1	4	0
TVH2083	Bacillus phage SP-15	1792032	S1	4	0
TVH2084	Acinetobacter phage vB_AbaP_B09_Aci08	2315601	S1	4	0
TVH2085	Klebsiella phage KN3-1	2282630	S1	4	0
TVH2086	Pectobacterium phage DU_PP_II	2041489	S1	4	0
TVH2087	Pectobacterium phage Koot	2489628	S1	4	0
TVH2088	Salmonella phage vB_SpuP_Spp16	2081603	S1	4	0
TVH2089	Pectobacterium phage Arno160	2488835	S1	4	0
TVH2090	Pelagibacter phage HTVC019P	1283079	S1	4	0
TVH2091	Ralstonia phage Anchaing	2759719	S1	4	0
TVH2092	Cellulophaga phage phi18:3	1327983	S	4	0
TVH2093	crAssphage cr116_1	2772073	S	4	0
TVH2094	Streptomyces phage Immanuel3	2053813	S1	4	0
TVH2095	Pantoea phage vB_PagS_AAS23	2499073	S1	4	0
TVH2096	Bacillus phage W.Ph.	764595	S1	4	0
TVH2097	Bacillus phage phiAGATE	1204533	S1	4	0
TVH2098	Bacillus phage SP-10	941058	S	4	0
TVH2099	Escherichia phage PhaxI	926589	S1	4	0
TVH2100	Serratia phage vB_SmaA_3M	2419930	S1	4	0
TVH2101	Escherichia phage iME11	1239384	S1	4	0
TVH2102	Vibrio phage 1.026.O_10N.222.49.C7	1881421	S1	4	0
TVH2103	Sinorhizobium phage ort11	2599764	S1	4	0
TVH2104	Saimiriine gammaherpesvirus 2	10381	S	4	0
TVH2105	Retroperitoneal fibromatosis-associated herpesvirus	111469	S1	4	0
TVH2106	Harp seal herpesvirus	1419109	S1	4	0
TVH2107	Canid alphaherpesvirus 1	170325	S	4	0
TVH2108	Paramecium bursaria Chlorella virus FR483	399781	S1	4	0
TVH2109	Only Syngen Nebraska virus 5	1917232	S	4	0
TVH2110	Golden Marseillevirus	1720526	S	4	0
TVH2111	Invertebrate iridescent virus 6	176652	S	4	0
TVH2112	Heliothis virescens ascovirus 3f	328614	S1	4	0
TVH2113	Skunkpox virus	160796	S	4	0
TVH2114	Yaba monkey tumor virus	38804	S	4	0
TVH2115	Pteropox virus	1873698	S	4	0
TVH2116	Goose adenovirus 4	1193422	S1	4	0
TVH2117	Psittacine aviadenovirus B	2169709	S	4	0
TVH2118	Penguin siadenovirus A	2005055	S	4	0
TVH2119	Human papillomavirus 201	1682340	S1	4	0
TVH2120	Human papillomavirus type 128	931209	S1	4	0
TVH2121	Procyon lotor papillomavirus 1	312349	S1	4	0
TVH2122	Erethizon dorsatum papillomavirus 2	2268125	S	4	0
TVH2123	Otomops polymovirus KY157	2035999	S1	4	0
TVH2124	Haloarcula hispanica pleomorphic virus 4	1980140	S1	4	0
TVH2125	Acidianus filamentous virus 2	300186	S	4	0
TVH2126	Sulfolobus ellipsoid virus 1	2056194	S	4	0
TVH2127	Lymphocytic choriomeningitis mammarenavirus	11623	S	3	1
TVH2128	Miniopterus schreibersii picornavirus 1	1195365	S1	3	1
TVH2129	Synechococcus phage ACG-2014c	1079998	S	3	1
TVH2130	Arthrobacter phage KBurroustX	2315608	S1	3	1
TVH2131	Geobacillus virus E3	1572712	S	3	1
TVH2132	crAssphage cr52_1	2772079	S	3	4
TVH2133	Escherichia phage vB_EcoS-DEL2	2697005	S1	3	1
TVH2134	Sinorhizobium phage phiM9	1636182	S	3	4
TVH2135	Serratia phage vB-Sru-IME250	1852640	S1	3	1
TVH2136	Murine roseolovirus	1940555	S	3	1
TVH2137	Gallid alphaherpesvirus 2	10390	S	3	1
TVH2138	Swinepox virus	10276	S	3	1
TVH2139	Choristoneura biennis entomopoxvirus	10288	S	3	1
TVH2140	Cryptophlebia leucotreta granulovirus	35254	S	3	1
TVH2141	Avian metaavulavirus 5	2560315	S	3	0
TVH2142	Niakha virus	1348439	S1	3	0
TVH2143	Bole Tick Virus 3	1608042	S1	3	0
TVH2144	Wyeomyia orthobunyavirus	273350	S	3	0
TVH2145	Potato yellow vein virus	103881	S	3	0
TVH2146	Cucurbit chlorotic yellows virus	558690	S	3	0
TVH2147	Agaricus bisporus endornavirus 1	1945738	S1	3	0

TVH2148	Helicobasidium mompa alphaendornavirus 1	675833	S	3	0
TVH2149	Munia coronavirus HKU13-3514	572289	S1	3	0
TVH2150	Ferret coronavirus	1264898	S	3	0
TVH2151	Human coronavirus NL63	277944	S	3	0
TVH2152	Shingleback nidovirus 1	1912590	S	3	0
TVH2153	Bellinger River virus	2301728	S1	3	0
TVH2154	Fathead minnow nidovirus	889873	S1	3	0
TVH2155	Botryllodes leachii nidovirus	2509395	S	3	0
TVH2156	Aplysia californica nido-like virus	2283236	S	3	0
TVH2157	Marmot sapelovirus 1	2161803	S	3	0
TVH2158	Bovine astrovirus	1435485	S	3	0
TVH2159	Bottlenose dolphin astrovirus 1	645425	S1	3	0
TVH2160	Rotavirus D chicken/05V0049/DEU/2005	884200	S1	3	0
TVH2161	Rice gall dwarf virus	10986	S	3	0
TVH2162	Piscine orthoreovirus	1157337	S	3	0
TVH2163	Pythium polare RNA virus 2	2137354	S	3	0
TVH2164	Pythium polare RNA virus 1	2137353	S	3	0
TVH2165	Fusarium asiaticum victorivirus 1	2268743	S	3	0
TVH2166	Cassava virus C	561576	S	3	0
TVH2167	Simian foamy virus Pongo pygmaeus pygmaeus	221703	S1	3	0
TVH2168	Hubei leech virus 3	1922901	S	3	0
TVH2169	Hubei leech virus 2	1922900	S	3	0
TVH2170	Beihai sea slater virus 1	1922657	S	3	0
TVH2171	Beihai picorna-like virus 72	1922619	S	3	0
TVH2172	Hubei pemutotetra-like virus 7	1923081	S	3	0
TVH2173	Alternaria longipes dsRNA virus 1	1532031	S	3	0
TVH2174	Mythimna unipuncta granulovirus B	2169746	S	3	0
TVH2175	Plutella xylostella granulovirus	98383	S	3	0
TVH2176	Cryptophlebia peltastica nucleopolyhedrovirus	2304025	S	3	0
TVH2177	Agrotis segetum nucleopolyhedrovirus A	1962501	S	3	0
TVH2178	Enterobacteria phage HK225	1147144	S	3	0
TVH2179	Prochlorococcus phage MED4-184	889955	S	3	0
TVH2180	Rhodovulum phage vB_RhkS_P1	1873452	S	3	0
TVH2181	Lactobacillus phage phiPYB5	438780	S	3	0
TVH2182	Gordonia phage GRU1	1109710	S	3	0
TVH2183	Listeria phage AS00	40522	S	3	0
TVH2184	Cellulophaga phage phi10.1	1327981	S	3	0
TVH2185	Lactobacillus phage JCL1032	37105	S	3	0
TVH2186	Bacillus phage SPP1	10724	S	3	0
TVH2187	Lactobacillus prophage lj965	139870	S	3	0
TVH2188	Caulobacter phage CcrBL9	2283270	S1	3	0
TVH2189	Mycobacterium phage Zetzy	2499071	S	3	0
TVH2190	Mycobacterium phage Pistachio	2126722	S	3	0
TVH2191	Salmonella phage Season12	2500556	S	3	0
TVH2192	Mycobacterium phage Amgine	2015817	S	3	0
TVH2193	Mycobacterium virus Larva	1056831	S	3	0
TVH2194	Streptomyces phage phiCAM	1239386	S1	3	0
TVH2195	Gordonia phage Gmla1	1622190	S	3	0
TVH2196	Salmonella phage LSPA1	1540823	S1	3	0
TVH2197	Escherichia phage K1ind1	698488	S1	3	0
TVH2198	Escherichia phage K1G	698486	S1	3	0
TVH2199	Staphylococcus virus CNPH82	398839	S	3	0
TVH2200	Propionibacterium phage PHL009M11	1500798	S1	3	0
TVH2201	Bacillus phage Stahl	1610832	S1	3	0
TVH2202	Mycobacterium phage Dylan	1340831	S	3	0
TVH2203	Gordonia phage Avazak	2656529	S1	3	0
TVH2204	Gordonia phage Duffington	2507858	S1	3	0
TVH2205	Gordonia phage TZGordon	2744004	S	3	0
TVH2206	Mycobacterium virus Che9c	205872	S	3	0
TVH2207	Escherichia phage YD-2008.s	1567004	S1	3	0
TVH2208	Mycobacterium phage Konstantine	563121	S1	3	0
TVH2209	Erwinia phage vB_EhrS_59	2283025	S1	3	0
TVH2210	Enterococcus phage vB_EfaS_AL2	2175688	S1	3	0
TVH2211	Burkholderia phage vB_BceS_AH2	1133022	S1	3	0
TVH2212	Stx2-converting phage Stx2a_WGPS2	1226260	S1	3	0
TVH2213	Gordonia phage Daredevil	2283286	S1	3	0
TVH2214	Colwellia phage 9A	765765	S1	3	0
TVH2215	Paracoccus phage Shpa	1647282	S1	3	0
TVH2216	Streptomyces phage Comrade	2301714	S1	3	0
TVH2217	Faecalibacterium phage FP_oengus	2070188	S1	3	0
TVH2218	Gordonia phage Woes	1838084	S1	3	0
TVH2219	Microbacterium phage vB_MoxS-ISF9	1458670	S1	3	0

TVH2220	Pseudomonas phage PMBT14	2059855	S1	3	0
TVH2221	Rhodococcus phage Whack	2591132	S1	3	0
TVH2222	Lactococcus phage GE1	1698369	S1	3	0
TVH2223	Arthrobacter phage Sonali	2510495	S1	3	0
TVH2224	Microbacterium phage Min1	446529	S1	3	0
TVH2225	Lactococcus phage PlgW-1	1983536	S1	3	0
TVH2226	Escherichia phage vB_EcoM_G50	2502303	S1	3	0
TVH2227	Thermus phage TMA	699370	S	3	0
TVH2228	Vibrio phage henriette 12B8	573174	S	3	0
TVH2229	Pseudomonas phage Lu11	1161927	S	3	0
TVH2230	Gordonia phage Stormageddon	2656541	S	3	0
TVH2231	Prochlorococcus phage MED4-213	889956	S1	3	0
TVH2232	Cronobacter phage vB_CsaM_GAP31	1141135	S1	3	0
TVH2233	Pseudomonas phage PA7	347330	S1	3	0
TVH2234	Burkholderia phage ST79	1282994	S1	3	0
TVH2235	Escherichia phage PBECO4	1273738	S1	3	0
TVH2236	Campylobacter virus CP220	722417	S	3	0
TVH2237	Erwinia phage Ea35-70	1429768	S1	3	0
TVH2238	Clostridium phage phiMMP02	1204534	S1	3	0
TVH2239	Ralstonia phage RSF1	1689679	S1	3	0
TVH2240	Cyanophage S-RIM50	687803	S1	3	0
TVH2241	Escherichia phage vB_EcoM_WFH	2508192	S1	3	0
TVH2242	Aeromonas phage 4L372XY	2588520	S1	3	0
TVH2243	Halomonas virus HAP1	499235	S	3	0
TVH2244	Burkholderia virus Bcep1	244310	S	3	0
TVH2245	Salmonella phage SPN3US	1090134	S1	3	0
TVH2246	Arthrobacter phage Brent	1701798	S1	3	0
TVH2247	Pseudomonas phage Noxifer	2006684	S1	3	0
TVH2248	Edwardsiella phage MSW-3	1264700	S1	3	0
TVH2249	Escherichia phage vB_EcoM_Goslar	2502409	S1	3	0
TVH2250	Prochlorococcus phage Syn33	444878	S1	3	0
TVH2251	Kluyvera phage Kvp1	47049	S1	3	0
TVH2252	Escherichia phage K30	1041524	S1	3	0
TVH2253	Klebsiella phage vB_KpnP_KpV763	1882400	S1	3	0
TVH2254	Pseudomonas phage Pf-10	1562076	S1	3	0
TVH2255	Yersinia phage vB_YenP_ISAO8	1675027	S1	3	0
TVH2256	Aquamicrobium phage P14	1927013	S1	3	0
TVH2257	Podovirus Lau218	1465639	S	3	0
TVH2258	Synechococcus phage S-CBP42	461711	S1	3	0
TVH2259	crAssphage cr128_1	2772076	S	3	0
TVH2260	Vibrio phage douglas 12A4	573171	S	3	0
TVH2261	Escherichia phage KBNP1711	1436889	S1	3	0
TVH2262	Pseudomonas phage PaP4	1273709	S1	3	0
TVH2263	Listeria phage LP-048	1173764	S1	3	0
TVH2264	Pectobacterium phage DU_PP_V	2041492	S1	3	0
TVH2265	Klebsiella phage vB_Kpn_ME260	1912318	S1	3	0
TVH2266	Aeromonas phage Ah5zw-1	2138299	S1	3	0
TVH2267	Escherichia phage vB_EcoM_KWBSE43-6	2508194	S1	3	0
TVH2268	Vibrio phage YC	2267403	S1	3	0
TVH2269	Sulfitobacter phage EE36phi1	490913	S1	3	0
TVH2270	Bacillus phage Harambe	1981931	S1	3	0
TVH2271	uncultured Caudovirales phage	2100421	S	3	0
TVH2272	Porcine lymphotropic herpesvirus 2	91741	S1	3	0
TVH2273	Eptesicus fuscus gammaherpesvirus	2035399	S	3	0
TVH2274	Human alphaherpesvirus 2	10310	S	3	0
TVH2275	Ranid herpesvirus 3	1987509	S	3	0
TVH2276	Ictalurid herpesvirus 1	10401	S	3	0
TVH2277	Dishui lake phycodnavirus 1	2079134	S	3	0
TVH2278	Paramecium bursaria Chlorella virus CVA-1	42683	S1	3	0
TVH2279	Paramecium bursaria Chlorella virus 1	10506	S	3	0
TVH2280	Trichoplusia ni ascovirus 2c	328615	S	3	0
TVH2281	Melanoplus sanguinipes entomopoxvirus	83191	S	3	0
TVH2282	Cynomolgus adenovirus 1	507488	S1	3	0
TVH2283	Bat adenovirus TJM	727977	S1	3	0
TVH2284	Skunk adenovirus PB1	1641642	S1	3	0
TVH2285	Pudu puda papillomavirus 1	1747360	S1	3	0
TVH2286	Merkel cell polyomavirus	493803	S1	3	0
TVH2287	Blechnum interveinal chlorosis virus	1246650	S	3	0
TVH2288	Amphibola crenata associated bacilladnavirus 2	1941436	S1	3	0
TVH2289	Halogeometricum pleomorphic virus 1	1156722	S1	3	0
TVH2290	Acidianus filamentous virus 1	235266	S	3	0
TVH2291	Rhynchosia yellow mosaic betasatellite	2010325	S	3	0

TVH2292	Pyrobaculum spherical virus	270161	S1	3	0
TVH2293	Kwatta virus	1272945	S1	2	1
TVH2294	Apple rubbery wood virus 1	2164102	S1	2	1
TVH2295	Magpie-robin coronavirus HKU18	1159903	S	2	1
TVH2296	Satsuma dwarf virus	47416	S	2	1
TVH2297	Bacillus phage 0305phi8-36	458639	S	2	2
TVH2298	Pseudomonas phage vB_PsyM_KIL4	1777069	S1	2	3
TVH2299	Delftia phage PhiW-14	665032	S1	2	2
TVH2300	Serratia phage vB_SmaM_2050HW	2024252	S1	2	1
TVH2301	Burkholderia phage BcepSauron	2530033	S1	2	1
TVH2302	Caulobacter phage Seuss	1675601	S1	2	3
TVH2303	Propionibacterium phage BruceLethal	1654740	S	2	1
TVH2304	Salmonella virus FSLSP030	1173754	S	2	1
TVH2305	Streptomyces phage Hiyaa	2499072	S1	2	1
TVH2306	Lactobacillus phage Nyseid	2079432	S1	2	1
TVH2307	Gordonia phage Orchid	1838075	S1	2	1
TVH2308	Listeria phage LP-026	1173745	S1	2	1
TVH2309	Thermus virus P74-26	466052	S	2	1
TVH2310	crAssphage cr10_1	2772066	S	2	1
TVH2311	crAssphage cr112_1	2772072	S	2	1
TVH2312	Human gammaherpesvirus 4	10376	S	2	1
TVH2313	Mossman virus	241630	S1	2	0
TVH2314	Avian metaavulavirus 8	2560318	S	2	0
TVH2315	Achimota virus 1	1261100	S1	2	0
TVH2316	Wheat yellow striate virus	2152660	S1	2	0
TVH2317	Gray Lodge virus	1272942	S1	2	0
TVH2318	Lleida bat lyssavirus	1213198	S	2	0
TVH2319	Bahia Grande virus	932699	S1	2	0
TVH2320	Hubei lepidoptera virus 2	1922904	S1	2	0
TVH2321	Riverside virus 1	1803263	S	2	0
TVH2322	Wenling crustacean virus 10	1923479	S1	2	0
TVH2323	Mengla dianlovirus	2496529	S	2	0
TVH2324	Sanxia water strider virus 4	1608063	S1	2	0
TVH2325	Wuchang romanomermis nematode virus 2	2773460	S1	2	0
TVH2326	Macau virus	273352	S1	2	0
TVH2327	Tacaiuma orthobunyavirus	611707	S	2	0
TVH2328	Tai virus	1406343	S1	2	0
TVH2329	Silverwater virus	1564099	S1	2	0
TVH2330	Urucuri virus	1926502	S1	2	0
TVH2331	Alenquer virus	629726	S1	2	0
TVH2332	SFTS virus HB29	992212	S1	2	0
TVH2333	Cumuto virus	1457166	S1	2	0
TVH2334	Pidgey virus	1911436	S1	2	0
TVH2335	Wenling hagfish virus	2116438	S1	2	0
TVH2336	Watermelon bud necrosis virus	76052	S1	2	0
TVH2337	Zucchini lethal chlorosis virus	83872	S1	2	0
TVH2338	Yogue virus	1712572	S1	2	0
TVH2339	Xapuri virus	2267561	S1	2	0
TVH2340	Luna mammarenavirus	883876	S	2	0
TVH2341	Ochlerotatus caspius flavivirus	1244565	S	2	0
TVH2342	Hanko virus	1125677	S	2	0
TVH2343	Apoi virus	64280	S	2	0
TVH2344	Entebbe bat virus	64283	S	2	0
TVH2345	Nienokoue virus	1286143	S	2	0
TVH2346	Diatom colony associated ssRNA virus 1	1678179	S	2	0
TVH2347	Culiseta flavivirus	1821222	S	2	0
TVH2348	Pegivirus G	1985360	S	2	0
TVH2349	Cucumber green mottle mosaic virus	12235	S	2	0
TVH2350	Frangipani mosaic virus	99585	S	2	0
TVH2351	Broad bean necrosis virus	79918	S	2	0
TVH2352	Pineapple mealybug wilt-associated virus 3	373861	S	2	0
TVH2353	Cucumis melo alphaendornavirus	1776177	S	2	0
TVH2354	Sclerotinia sclerotiorum endornavirus 1	1353016	S1	2	0
TVH2355	Sclerotinia minor endornavirus 1	2316144	S1	2	0
TVH2356	Bebaru virus	59305	S	2	0
TVH2357	Black currant leaf chlorosis associated virus	1937789	S	2	0
TVH2358	Elderberry carlavirus B	1569053	S	2	0
TVH2359	Ligustrum virus A	1899566	S	2	0
TVH2360	Peach chlorotic mottle virus	471498	S	2	0
TVH2361	Blackberry virus E	1043184	S	2	0
TVH2362	Poinsettia mosaic virus	113553	S	2	0
TVH2363	Orthohepevirus D	1678146	S	2	0

TVH2364	Beet soil-borne mosaic virus	76343	S	2	0
TVH2365	Common moorhen coronavirus HKU21	1159902	S	2	0
TVH2366	White-eye coronavirus HKU16	1159907	S	2	0
TVH2367	Rat coronavirus Parker	502102	S2	2	0
TVH2368	Porcine epidemic diarrhea virus	28295	S	2	0
TVH2369	Wencheng Sm shrew coronavirus	1508228	S	2	0
TVH2370	Camel alphacoronavirus	1699095	S1	2	0
TVH2371	Bat coronavirus 1A	393767	S1	2	0
TVH2372	Duck coronavirus	300188	S1	2	0
TVH2373	Karang Sari virus	1332248	S1	2	0
TVH2374	Nam Dinh virus	325676	S1	2	0
TVH2375	Beihai hermit crab virus 4	1922391	S1	2	0
TVH2376	Yellow head virus	96029	S	2	0
TVH2377	Heliconius erato iflavivirus	1487185	S	2	0
TVH2378	Artichoke yellow ringspot virus	348894	S	2	0
TVH2379	Mikania micrantha mosaic virus	487492	S1	2	0
TVH2380	Lettuce necrotic leaf curl virus	1358807	S	2	0
TVH2381	pigeon mesivirus 1	1399966	S1	2	0
TVH2382	Sichuan takin enterovirus	2220002	S	2	0
TVH2383	Tulane virus	512169	S1	2	0
TVH2384	Turkey calicivirus	1172195	S1	2	0
TVH2385	Marine RNA virus SF-1	1198329	S1	2	0
TVH2386	Posavirus 1	1105380	S	2	0
TVH2387	Yam mild mosaic virus	87097	S	2	0
TVH2388	Passiflora chlorosis virus	551003	S	2	0
TVH2389	Lupinus mosaic virus	573615	S	2	0
TVH2390	Lily yellow mosaic virus	2136283	S1	2	0
TVH2391	Keunjong mosaic virus	1080799	S	2	0
TVH2392	Reed chlorotic stripe virus	1959287	S	2	0
TVH2393	Areca palm necrotic spindle-spot virus	2306623	S	2	0
TVH2394	Rhododendron virus A	878260	S	2	0
TVH2395	Festuca pratensis amalgavirus 2	2069325	S	2	0
TVH2396	Rosellinia necatrix hypovirus 1	2032989	S	2	0
TVH2397	Aquareovirus C	185782	S	2	0
TVH2398	Mycoreovirus 1	311228	S	2	0
TVH2399	Maize-associated totivirus 2	1874267	S	2	0
TVH2400	Magnaporthe oryzae virus 3	1661396	S	2	0
TVH2401	Murine osteosarcoma virus	11830	S	2	0
TVH2402	Feline leukemia virus	11768	S	2	0
TVH2403	Rous sarcoma virus	11886	S	2	0
TVH2404	Sugarcane bacilliform Guadeloupe A virus	1960252	S	2	0
TVH2405	Eupatorium vein clearing virus	515444	S	2	0
TVH2406	Hubei picorna-like virus 14	1923093	S	2	0
TVH2407	Wenzhou bivallia virus 2	1923554	S	2	0
TVH2408	Changjiang tombus-like virus 16	1922809	S	2	0
TVH2409	Sanxia picorna-like virus 1	1923366	S	2	0
TVH2410	Beihai picorna-like virus 47	1922591	S	2	0
TVH2411	Wenzhou channeled applesnail virus 2	1923558	S	2	0
TVH2412	Wuhan insect virus 11	1923715	S	2	0
TVH2413	Hubei picorna-like virus 66	1923149	S	2	0
TVH2414	Ubei picorna-like virus 3	1923781	S	2	0
TVH2415	Beihai picorna-like virus 117	1922546	S	2	0
TVH2416	Beihai barnacle virus 2	1922360	S	2	0
TVH2417	Changjiang picorna-like virus 11	1922784	S	2	0
TVH2418	Beihai picorna-like virus 106	1922534	S	2	0
TVH2419	Wuhan heteroptera virus 1	1923701	S	2	0
TVH2420	Xingshan nematode virus 1	1923760	S	2	0
TVH2421	Beihai horseshoe crab virus 1	1922392	S	2	0
TVH2422	Hubei picorna-like virus 40	1923121	S	2	0
TVH2423	Hubei arthropod virus 3	1922836	S	2	0
TVH2424	Wenzhou gastropodes virus 2	1923564	S	2	0
TVH2425	Beihai picorna-like virus 61	1922607	S	2	0
TVH2426	Beihai sobemo-like virus 17	1922688	S	2	0
TVH2427	Fusarium poae mycovirus 1	1849542	S	2	0
TVH2428	Spodoptera litura nucleopolyhedrovirus II	566270	S	2	0
TVH2429	Lymantria dispar multiple nucleopolyhedrovirus	10449	S	2	0
TVH2430	Spodoptera frugiperda multiple nucleopolyhedrovirus	10455	S	2	0
TVH2431	Hemileuca sp. nucleopolyhedrovirus	1367203	S1	2	0
TVH2432	Mamestra configurata nucleopolyhedrovirus A	207830	S	2	0
TVH2433	Neodiprion lecontei nucleopolyhedrovirus	249151	S	2	0
TVH2434	Tomelloso virus	2053981	S1	2	0
TVH2435	Penaeus monodon nudivirus	1529056	S	2	0

TVH2436	Providencia phage vB_PreS-PibeRecoleta	2761109	S	2	0
TVH2437	Salmonella phage SAP012	2742114	S	2	0
TVH2438	Erysipelothrix phage SE-1	1675317	S	2	0
TVH2439	Ruegeria phage vB_RpoS-V18	2218619	S	2	0
TVH2440	Enterobacterial phage mEp390	1147158	S	2	0
TVH2441	Mycobacterium phage MOOREtheMARYer	1647309	S	2	0
TVH2442	Tsukamurella phage TPA2	981330	S	2	0
TVH2443	Microbacterium phage BonaeVitae	2126925	S	2	0
TVH2444	Lactococcus phage bIL312	151539	S	2	0
TVH2445	Lactococcus phage TP901-1	35345	S	2	0
TVH2446	Mycobacterium phage Antsirabe	2575610	S	2	0
TVH2447	Rhodococcus phage REQ3	1109714	S	2	0
TVH2448	Clostridium phage phiCD6356	864178	S	2	0
TVH2449	Lactobacillus phage phig1e	52979	S	2	0
TVH2450	Staphylococcus phage SPbeta-like	1732063	S	2	0
TVH2451	Enterococcus phage 9183	2763102	S	2	0
TVH2452	Gordonia phage GTE5	319522	S	2	0
TVH2453	Pseudomonas phage PS-1	1573458	S	2	0
TVH2454	Bacteriophage Phobos	2662138	S	2	0
TVH2455	Bacteriophage D5S3_VP1	2664196	S	2	0
TVH2456	Gordonia phage MelBins	2656540	S	2	0
TVH2457	Streptococcus phage phiNJ2	1239381	S	2	0
TVH2458	Enterococcus phage vipetofem	2719594	S	2	0
TVH2459	Streptococcus phage PH10	644007	S	2	0
TVH2460	Paracoccus phage vB_PmaS-R3	2494563	S	2	0
TVH2461	Flavobacterium phage 11b	294631	S	2	0
TVH2462	Mycobacterium phage Weirido19	2601610	S	2	0
TVH2463	Clostridium phage PhiS63	1187894	S	2	0
TVH2464	Cronobacter phage JC01	2729575	S	2	0
TVH2465	Idiomarinaceae phage 1N2-2	1536592	S	2	0
TVH2466	Sinorhizobium phage phiLM21	1524882	S	2	0
TVH2467	Streptomyces phage Bmoc	2725629	S	2	0
TVH2468	Mycobacterium phage Gail	2743994	S	2	0
TVH2469	Mycobacterium phage Phlei	1690684	S	2	0
TVH2470	Mycobacterium phage Larenn	1560285	S	2	0
TVH2471	Mycobacterium phage Pinto	1498204	S	2	0
TVH2472	Mycobacterium phage TheloniousMonk	1701845	S	2	0
TVH2473	Mycobacterium phage Scowl	2099449	S	2	0
TVH2474	Mycobacterium phage Solon	555603	S1	2	0
TVH2475	Streptomyces phage StarPlatinum	2283265	S1	2	0
TVH2476	Mycobacterium phage Thonko	2282910	S	2	0
TVH2477	Mycobacterium phage Imvubu	2686233	S	2	0
TVH2478	Mycobacterium phage Stinger	1089137	S1	2	0
TVH2479	Mycobacterium phage Curiosium	2599859	S	2	0
TVH2480	Mycobacterium phage Mufasa	1718600	S	2	0
TVH2481	Mycobacterium virus Angelica	861044	S	2	0
TVH2482	Mycobacterium virus Pixie	1034114	S	2	0
TVH2483	Mycobacterium virus Anaya	1034152	S	2	0
TVH2484	Mycobacterium phage Silverleaf	2517969	S	2	0
TVH2485	Mycobacterium phage Krypton555	2015885	S	2	0
TVH2486	Streptomyces phage Sujidade	1327759	S1	2	0
TVH2487	Streptomyces phage Annadreamy	2250335	S1	2	0
TVH2488	Lactococcus phage phiQ1	2488571	S1	2	0
TVH2489	Mycobacterium phage Hlubikazi	2767559	S	2	0
TVH2490	Mycobacterium virus Mozy	1034112	S	2	0
TVH2491	Salinibacter virus M8CC19	2560720	S	2	0
TVH2492	Arthrobacter phage DrRobert	1772296	S1	2	0
TVH2493	Streptomyces phage TP1604	1636184	S1	2	0
TVH2494	Streptomyces phage YDN12	1636183	S1	2	0
TVH2495	Streptomyces phage phiSAJS1	1755682	S	2	0
TVH2496	Escherichia virus Lambda	10710	S	2	0
TVH2497	Pseudomonas phage PaMx25	1175654	S1	2	0
TVH2498	Lactococcus virus bIL67	36343	S	2	0
TVH2499	Lactococcus phage 37203	2024335	S1	2	0
TVH2500	Lactococcus phage P1048	2662295	S1	2	0
TVH2501	Lactobacillus phage ViSo-2018a	2267607	S1	2	0
TVH2502	Mycobacterium phage Purky	2593351	S	2	0
TVH2503	Staphylococcus virus PH15	399185	S	2	0
TVH2504	Staphylococcus virus EW	320841	S	2	0
TVH2505	Gordonia phage UmaThurman	1821563	S	2	0
TVH2506	Gordonia phage Rickmore	2507854	S1	2	0
TVH2507	Bacillus phage Wes44	2283012	S1	2	0

TVH2508	Arthrobacter phage Salgado	1772314	S1	2	0
TVH2509	Xylella phage Sano	1415148	S1	2	0
TVH2510	Streptococcus virus Sfi19	72638	S	2	0
TVH2511	Streptococcus virus DT1	90410	S	2	0
TVH2512	Gordonia phage Clown	2759393	S	2	0
TVH2513	Mycobacterium phage Taheera	1897549	S	2	0
TVH2514	Gordonia phage Getalong	2315531	S1	2	0
TVH2515	Mycobacterium phage PLOT	373411	S1	2	0
TVH2516	Mycobacterium phage Bernal13	1486424	S1	2	0
TVH2517	Mycobacterium phage Mendokseyi	2099637	S	2	0
TVH2518	Pseudomonas virus LPB1	1091556	S	2	0
TVH2519	Lactobacillus virus LLKu	297254	S	2	0
TVH2520	Providencia phage vB_PreS_PR1	1931407	S1	2	0
TVH2521	Microbacterium phage Eden	2250289	S1	2	0
TVH2522	Gordonia phage Trine	2201431	S1	2	0
TVH2523	Mycobacterium phage FF47	1305710	S1	2	0
TVH2524	Xanthomonas phage Xp15	322855	S1	2	0
TVH2525	Microbacterium phage Squash	2182357	S1	2	0
TVH2526	Mycobacterium phage Predator	543153	S1	2	0
TVH2527	Brevibacterium phage AGM1	2591411	S1	2	0
TVH2528	Bacillus phage vB_BtS_BMBtp14	1868826	S1	2	0
TVH2529	Fusobacterium phage Fnu1	2530024	S1	2	0
TVH2530	Xanthomonas virus OP1	329254	S	2	0
TVH2531	Aeribacillus phage AP45	1913112	S1	2	0
TVH2532	Gordonia phage Nyceirae	1887651	S1	2	0
TVH2533	Streptomyces phage Scap1	2041354	S1	2	0
TVH2534	Arthrobacter phage Tank	1772319	S1	2	0
TVH2535	Flavobacterium phage 2A	1792273	S1	2	0
TVH2536	Mycobacterium phage Sparky	1527493	S1	2	0
TVH2537	Escherichia phage vB_VPM_PD112	2315580	S1	2	0
TVH2538	Citrobacter phage vB_CfrM_CFP1	1871313	S	2	0
TVH2539	Escherichia phage vB_EcoM_VR20	1567027	S1	2	0
TVH2540	Cronobacter phage Pet-CM3-4	1892569	S	2	0
TVH2541	Enterobacter phage myPSH1140	2108137	S	2	0
TVH2542	Citrobacter phage Merlin	1675602	S1	2	0
TVH2543	Citrobacter phage CF1 ERZ-2017	2267236	S1	2	0
TVH2544	Escherichia phage HX01	1237364	S1	2	0
TVH2545	Escherichia phage HP3	1965367	S1	2	0
TVH2546	Klebsiella phage KP27	1129147	S1	2	0
TVH2547	Shewanella sp. phage 1/4	1458859	S	2	0
TVH2548	Synechococcus phage ACG-2014e	1493510	S	2	0
TVH2549	Vibrio phage X29	1500713	S	2	0
TVH2550	Pelagibacter phage HTVC008M	1283076	S	2	0
TVH2551	Mycobacterium phage Myrna	546805	S	2	0
TVH2552	Synechococcus phage S-SSM4	536466	S	2	0
TVH2553	Synechococcus phage S-CAM8	754038	S	2	0
TVH2554	Serratia phage PS2	1481112	S1	2	0
TVH2555	Burkholderia virus phiE202	431893	S	2	0
TVH2556	Yersinia phage vB_YpM_46	2736200	S	2	0
TVH2557	Burkholderia phage FLC5	2716322	S	2	0
TVH2558	Vibrio phage PV94	1451050	S1	2	0
TVH2559	Campylobacter phage vB_CjeM_Los1	1904491	S1	2	0
TVH2560	Erwinia phage vB_EamM_Huxley	1883373	S	2	0
TVH2561	Acinetobacter phage Acj61	760732	S1	2	0
TVH2562	Yersinia phage vB_YenM_TG1	1589265	S1	2	0
TVH2563	Erwinia phage vB_EamM_Deimos-Minion	1815986	S1	2	0
TVH2564	Erwinia phage vB_EamM_Desertfox	2060127	S1	2	0
TVH2565	Escherichia phage vB_EcoM-VpaE1	1555238	S1	2	0
TVH2566	Escherichia phage HY02	1527531	S1	2	0
TVH2567	Salmonella phage vB_SpuM_SP116	1567025	S1	2	0
TVH2568	Citrobacter phage Mordin	1701846	S1	2	0
TVH2569	Serratia phage X20	2006942	S	2	0
TVH2570	Pseudomonas phage R26	2562636	S1	2	0
TVH2571	Pseudomonas phage PA01	2498591	S1	2	0
TVH2572	Erwinia phage phiEaH2	1029988	S1	2	0
TVH2573	Edwardsiella phage PEI20	1608310	S1	2	0
TVH2574	Escherichia phage vB_EcoM_WFC	2508193	S1	2	0
TVH2575	Vibrio virus VP882	261726	S	2	0
TVH2576	Cyanophage S-RIM44	1278485	S1	2	0
TVH2577	Cyanophage S-TIM5	1137745	S1	2	0
TVH2578	Arthrobacter phage Abba	2713256	S1	2	0
TVH2579	Pectinobacterium phage PEAT2	2053078	S1	2	0

TVH2580	Leptospira phage LE4	2041383	S1	2	0
TVH2581	Iodobacter phage PhiPLPE	551895	S1	2	0
TVH2582	Pantoea phage vB_PagM_UET2	2508071	S1	2	0
TVH2583	Leptospira phage LE1	137511	S1	2	0
TVH2584	Pseudomonas phage CHA_P1	1327965	S1	2	0
TVH2585	Klebsiella phage KPV811	1913574	S1	2	0
TVH2586	Klebsiella phage KP34	674081	S1	2	0
TVH2587	Escherichia phage Ebrios	2099356	S1	2	0
TVH2588	Pseudomonas phage Phi-S1	1204538	S1	2	0
TVH2589	Pseudomonas phage sh12	1729933	S1	2	0
TVH2590	Yersinia phage vB_YenP_AP10	1735591	S1	2	0
TVH2591	Burkholderia phage Bp-AMP1	1432428	S1	2	0
TVH2592	Aeromonas phage CF7	2507411	S1	2	0
TVH2593	Prochlorococcus phage P-SSP10	885867	S1	2	0
TVH2594	Xanthomonas phage phi Xc10	2024237	S1	2	0
TVH2595	Cyanophage NATL1A-7	445693	S1	2	0
TVH2596	Ralstonia phage phiAp1	2783867	S1	2	0
TVH2597	crAssophage cr53_1	2772080	S	2	0
TVH2598	crAssophage cr114_1	2772088	S	2	0
TVH2599	crAssophage cr108_1	2772069	S	2	0
TVH2600	Bacteroides phage crAss002	2709317	S	2	0
TVH2601	Sinorhizobium phage PBC5	179237	S	2	0
TVH2602	Vibrio phage CHOED	1458716	S	2	0
TVH2603	Cronobacter phage vB_CsaP_GAP52	1141137	S	2	0
TVH2604	Burkholderia virus Bcep102	644524	S	2	0
TVH2605	Pseudomonas phage PhiCHU	1589273	S1	2	0
TVH2606	Salmonella phage UPF_BP1	1912492	S	2	0
TVH2607	Helicobacter phage 1961P	1154995	S1	2	0
TVH2608	Bacillus phage Pascal	1540092	S1	2	0
TVH2609	Microbacterium phage Araxxi	2590948	S1	2	0
TVH2610	Bordetella virus BPP1	194699	S	2	0
TVH2611	Arthrobacter phage Mende1	2484218	S1	2	0
TVH2612	Escherichia phage Henu8	2596677	S1	2	0
TVH2613	Salmonella phage 36	1654889	S1	2	0
TVH2614	Escherichia phage vB_EcoS_CEB_EC3a	1933774	S1	2	0
TVH2615	Bacillus phage AvesoBmore	1698451	S1	2	0
TVH2616	Bacillus phage phiNIT1	207656	S1	2	0
TVH2617	Bacillus phage Bobb	1527469	S1	2	0
TVH2618	Bacillus phage vB_BsuM-Goe3	1933063	S1	2	0
TVH2619	Staphylococcus virus SA11	1204543	S	2	0
TVH2620	Bacillus phage JL	1296655	S1	2	0
TVH2621	Bacillus phage Shanette	1296656	S1	2	0
TVH2622	Vibrio phage Ceto	2570300	S1	2	0
TVH2623	Klebsiella phage Sugarland	2053603	S1	2	0
TVH2624	Klebsiella phage Magnus	2589660	S1	2	0
TVH2625	Salmonella phage SKML-39	1204528	S1	2	0
TVH2626	Vibrio phage vB_VchM_Kuja	2686437	S1	2	0
TVH2627	Pseudomonas phage vB_PaeP_MAG4	1639814	S	2	0
TVH2628	Shigella phage pSb-1	1414738	S1	2	0
TVH2629	Salmonella phage FSL SP-058	1173761	S1	2	0
TVH2630	Salmonella phage FSL SP-076	1173762	S1	2	0
TVH2631	Silicibacter phage DSS3phi2	490912	S	2	0
TVH2632	Roseovarius Plymouth podovirus 1	926474	S	2	0
TVH2633	Vibrio phage vB_VspP_pVa5	1913109	S1	2	0
TVH2634	Vibrio phage phi 1	1589297	S1	2	0
TVH2635	Delftia phage RG-2014	1563661	S1	2	0
TVH2636	Erwinia phage vB_EamP-S6	1051675	S1	2	0
TVH2637	Bacillus phage MG-B1	1309583	S1	2	0
TVH2638	Myotis gammaherpesvirus 8	1780507	S	2	0
TVH2639	Callitriche gammaherpesvirus 3	106331	S	2	0
TVH2640	Cynomolgus macaque cytomegalovirus strain Ottawa	944969	S1	2	0
TVH2641	Anatid alphaherpesvirus 1	104388	S	2	0
TVH2642	Cercopithecine alphaherpesvirus 2	10317	S	2	0
TVH2643	Bufonid herpesvirus 1	2282206	S	2	0
TVH2644	Ostreococcus tauri virus OtV5	1785753	S	2	0
TVH2645	Marseillevirus marseillevirus	694581	S	2	0
TVH2646	Invertebrate iridovirus 22	1301279	S	2	0
TVH2647	Scale drop disease virus	1697349	S	2	0
TVH2648	Diadromus pulchellus ascovirus 4a	158683	S1	2	0
TVH2649	Ectromelia virus	12643	S	2	0
TVH2650	Akhmeta virus	2200830	S	2	0
TVH2651	Sheeppox virus	10266	S	2	0

TVH2652	Pigeonpox virus	10264	S	2	0
TVH2653	Fowl aviadenovirus 5	172861	S1	2	0
TVH2654	Fowl aviadenovirus D	190064	S	2	0
TVH2655	Turkey adenovirus 1	878329	S1	2	0
TVH2656	Turkey aviadenovirus 5	1408258	S1	2	0
TVH2657	Ovine mastadenovirus A	114424	S	2	0
TVH2658	California sea lion adenovirus 1	943083	S1	2	0
TVH2659	Tree shrew adenovirus 1	47680	S1	2	0
TVH2660	Vibrio phage 1.249.A_10N.261.55.B9	1881268	S1	2	0
TVH2661	Halovirus HCTV-1	1273746	S	2	0
TVH2662	Sulfolobales virus YNP1	1732179	S	2	0
TVH2663	Phytophthora parasitica virus	1608451	S	2	0
TVH2664	Equus caballus papillomavirus 4	1235428	S1	2	0
TVH2665	human papillomavirus 30	10611	S1	2	0
TVH2666	Equus caballus polyomavirus 1	1891761	S	2	0
TVH2667	Adeno-associated virus - 5	82300	S1	2	0
TVH2668	Bat bocavirus	1329649	S	2	0
TVH2669	Penaeus monodon hepadensovirus 4	1513208	S1	2	0
TVH2670	Cnidocolus mosaic leaf deformation virus	1747500	S	2	0
TVH2671	Clerodendron golden mosaic virus	390438	S	2	0
TVH2672	Penaeus monodon circovirus VN11	1419711	S	2	0
TVH2673	Zebra finch circovirus	1642515	S	2	0
TVH2674	Human cyclovirus VS5700009	1345637	S1	2	0
TVH2675	Spiroplasma virus SKV1CR23x	455649	S	2	0
TVH2676	Sulfolobus islandicus filamentous virus	176106	S	2	0
TVH2677	Acidianus rod-shaped virus 2	1732175	S1	2	0
TVH2678	Rodent Torque teno virus 4	2054611	S	2	0
TVH2679	Chili leaf curl Bhatinda betasatellite	1335766	S	2	0
TVH2680	Hedysotis yellow mosaic betasatellite	1428189	S	2	0
TVH2681	Acholeplasma virus L2	46014	S	2	0
TVH2682	Baboon endogenous virus strain M7	11764	S1	1	1
TVH2683	Munguba virus	1048854	S1	1	1
TVH2684	Equine arteritis virus	11047	S1	1	22
TVH2685	Bluegill picornavirus	1223302	S1	1	1
TVH2686	Cherry rasp leaf virus	202566	S	1	1
TVH2687	Mycobacterium phage Phabba	2027899	S	1	21
TVH2688	Synechococcus phage S-CAM22	1883365	S	1	1
TVH2689	Acinetobacter virus 133	279006	S	1	2
TVH2690	Erwinia phage vB_EamM_Caitlin	1883379	S	1	1
TVH2691	Tetrasphaera phage TJE1	981335	S1	1	1
TVH2692	Pseudocalteromonas phage Pq0	1667322	S	1	1
TVH2693	Rhodococcus phage REQ1	1109712	S	1	1
TVH2694	Streptococcus phage P9	403905	S	1	1
TVH2695	Gordonia phage Dextert	2794946	S	1	1
TVH2696	Pseudocalteromonas phage H105/1	877240	S	1	1
TVH2697	Mycobacterium phage 32HC	1445729	S1	1	6
TVH2698	Rhodobacter virus RcCronus	2005060	S	1	1
TVH2699	Salmonella phage BP12A	1543199	S1	1	2
TVH2700	Ralstonia phage RPSC1	2041351	S1	1	3
TVH2701	Cronobacter phage vB_CskP_GAP227	1264737	S1	1	1
TVH2702	Yersinia phage phiR8-01	1206556	S1	1	1
TVH2703	Pseudomonas phage KPP21	1678082	S1	1	1
TVH2704	Vibrio phage 1.097.O_10N.286.49.B3	1881383	S1	1	1
TVH2705	Myotis polyomavirus VM-2008	563775	S1	1	1
TVH2706	Euproctis pseudoconsersa nucleopolyhedrovirus	307467	S	1	1
TVH2707	Agrotis segetum nucleopolyhedrovirus B	1580580	S	1	1
TVH2708	Kallithea virus	1654582	S1	1	1
TVH2709	Beilong virus	341053	S1	1	0
TVH2710	Salmon aquaparamyxovirus	381543	S	1	0
TVH2711	Achimota virus 2	1261101	S1	1	0
TVH2712	Sosuga virus	1452514	S1	1	0
TVH2713	Tuhoko virus 2	798073	S1	1	0
TVH2714	Bat Paramyxovirus Epo_spe/AR1/DRC/2009	1112597	S1	1	0
TVH2715	Wuhan insect virus 5	1608110	S1	1	0
TVH2716	Papaya cytorhabdovirus	2364291	S	1	0
TVH2717	Morogoro maize-associated virus	2497337	S1	1	0
TVH2718	Lettuce big-vein associated varicosavirus	1985698	S	1	0
TVH2719	Joinjakaka virus	1272943	S1	1	0
TVH2720	Rabies lyssavirus	11292	S	1	0
TVH2721	Puerto Almendras virus	1479613	S1	1	0
TVH2722	Muir Springs virus	932700	S1	1	0
TVH2723	Tibrogargan virus	318844	S1	1	0

TVH2724	Culex tritaeniorhynchus rhabdovirus	936308	S1	1	0
TVH2725	New Minto virus	1272952	S1	1	0
TVH2726	Tongilchon virus 1	1758878	S1	1	0
TVH2727	Durham virus	710545	S1	1	0
TVH2728	Caligus rogercresseyi rhabdovirus	1921414	S1	1	0
TVH2729	Perinet vesiculovirus	1972569	S	1	0
TVH2730	Wuhan Louse Fly Virus 10	1608114	S1	1	0
TVH2731	Carp sprivivirus	696863	S	1	0
TVH2732	Sonchus yellow net nucleorhabdovirus	11307	S	1	0
TVH2733	Rice yellow stunt nucleorhabdovirus	59380	S	1	0
TVH2734	Hubei rhabdo-like virus 9	1923193	S1	1	0
TVH2735	Bundibugyo ebolavirus	565995	S	1	0
TVH2736	Parrot bornavirus 1	1548714	S1	1	0
TVH2737	Canary bornavirus 3	1715291	S1	1	0
TVH2738	Borna disease virus 2	1714622	S1	1	0
TVH2739	Hubei odonate virus 10	1922991	S1	1	0
TVH2740	Avian metapneumovirus	38525	S	1	0
TVH2741	Respiratory syncytial virus	12814	S	1	0
TVH2742	Xincheng Mosquito Virus	1608141	S1	1	0
TVH2743	Beihai barnacle virus 8	1922366	S1	1	0
TVH2744	Wuhan louse fly virus 6	1608120	S1	1	0
TVH2745	Wuhan tick virus 2	1608138	S1	1	0
TVH2746	Hubei odonate virus 11	1922992	S1	1	0
TVH2747	Hubei chuvirus-like virus 3	1922858	S1	1	0
TVH2748	Anhembi virus	273355	S1	1	0
TVH2749	Tensaw virus	273347	S1	1	0
TVH2750	Sango virus	159152	S1	1	0
TVH2751	Cachoeira Porteira virus	1138490	S1	1	0
TVH2752	Marituba virus	292278	S1	1	0
TVH2753	Gamboa virus	35313	S1	1	0
TVH2754	Bunyamwera virus	35304	S1	1	0
TVH2755	Umbre virus	552554	S1	1	0
TVH2756	Pacui virus	1538454	S1	1	0
TVH2757	Yongjia Tick Virus 1	1608145	S1	1	0
TVH2758	Gordil virus	1460451	S1	1	0
TVH2759	Ambe virus	1926500	S1	1	0
TVH2760	Nique virus	629739	S1	1	0
TVH2761	Bhanja virus	1213620	S1	1	0
TVH2762	Wuhan horsefly Virus	1608139	S1	1	0
TVH2763	Laurel Lake virus	2027354	S1	1	0
TVH2764	Wutai mosquito phasivirus	1980612	S	1	0
TVH2765	Cano Delgadito orthohantavirus	1980463	S	1	0
TVH2766	Rockport virus	1001080	S1	1	0
TVH2767	Nova virus	660955	S1	1	0
TVH2768	Impatiens necrotic spot virus	11612	S1	1	0
TVH2769	Watermelon silver mottle orthospovirus	1933300	S	1	0
TVH2770	Melon yellow spot virus	89471	S1	1	0
TVH2771	Guanarito mammarenavirus	45219	S	1	0
TVH2772	Apore mammarenavirus	2059312	S	1	0
TVH2773	University of Helsinki virus	1382279	S1	1	0
TVH2774	Jonchet virus	1664809	S1	1	0
TVH2775	Athab bunya-like virus	2315724	S	1	0
TVH2776	Influenza A virus (A/California/07/2009(H1N1))	641809	S2	1	0
TVH2777	Sokoluk virus	64317	S	1	0
TVH2778	Chaoyang virus	631267	S	1	0
TVH2779	T'Ho virus	577122	S	1	0
TVH2780	Nounane virus	486494	S	1	0
TVH2781	Kokobera virus	44024	S	1	0
TVH2782	Uganda S virus	64297	S	1	0
TVH2783	Louping ill virus	11086	S	1	0
TVH2784	Meaban virus	35279	S	1	0
TVH2785	Ilomantsi virus	1445557	S	1	0
TVH2786	Anopheles flavivirus variant 1	1903340	S1	1	0
TVH2787	Hepacivirus I	2008768	S	1	0
TVH2788	Pegivirus B	1307801	S	1	0
TVH2789	Rodent pegivirus	1321391	S1	1	0
TVH2790	Pegivirus K	1985364	S	1	0
TVH2791	Apple mosaic virus	12319	S	1	0
TVH2792	Fragaria chiloensis latent virus	255238	S	1	0
TVH2793	Citrus leaf rugose virus	37126	S	1	0
TVH2794	Brome mosaic virus	12302	S	1	0
TVH2795	Cucumber mosaic virus	12305	S	1	0

TVH2796	Tomato brown rugose fruit virus	1761477	S	1	0
TVH2797	Tobacco mosaic virus	12242	S	1	0
TVH2798	Tomato mottle mosaic virus	1391702	S	1	0
TVH2799	Rattail cactus necrosis-associated virus	1123754	S	1	0
TVH2800	Rehmannia mosaic virus	425279	S	1	0
TVH2801	Soil-borne cereal mosaic virus	100887	S	1	0
TVH2802	Rose leaf rosette-associated virus	1543207	S	1	0
TVH2803	Cordylone virus 2	1177751	S	1	0
TVH2804	Blackberry vein banding-associated virus	1381464	S	1	0
TVH2805	Helianthus annuus alphaendornavirus	2184469	S	1	0
TVH2806	Grapevine endophyte alphaendornavirus	1249676	S	1	0
TVH2807	Rhizoctonia cerealis alphaendornavirus 1	1408133	S	1	0
TVH2808	Highlands J virus	11024	S	1	0
TVH2809	Sleeping disease virus	78540	S1	1	0
TVH2810	Blueberry necrotic ring blotch virus	1094249	S	1	0
TVH2811	Poplar mosaic virus	12166	S	1	0
TVH2812	Mirabilis jalapa mottle virus	1093773	S	1	0
TVH2813	Pea streak virus	157777	S	1	0
TVH2814	Grapevine virus G	202475	S	1	0
TVH2815	Diuris virus B	1247116	S	1	0
TVH2816	White clover mosaic virus	12188	S	1	0
TVH2817	Tamus red mosaic virus	1081702	S	1	0
TVH2818	Garlic virus X	150284	S	1	0
TVH2819	Garlic virus E	150285	S	1	0
TVH2820	Lolium latent virus	365150	S	1	0
TVH2821	Donkey orchid symptomless virus	1400526	S	1	0
TVH2822	Plantago mottle virus	312274	S	1	0
TVH2823	Nemesia ring necrosis virus	312009	S	1	0
TVH2824	Fig fleck-associated virus	548908	S	1	0
TVH2825	Culex originated Tymoviridae-like virus	1236047	S	1	0
TVH2826	Nectarine marafivirus M	1778580	S	1	0
TVH2827	Pelargonium flower break virus	35291	S	1	0
TVH2828	Limonium flower distortion virus	270257	S	1	0
TVH2829	Bat Hp-beta coronavirus/Zhejiang2013	1541205	S1	1	0
TVH2830	NI63-related bat coronavirus	1920748	S1	1	0
TVH2831	Rousettus bat coronavirus HKU10	1241933	S1	1	0
TVH2832	BtMr-AlphaCoV/SAX2011	1503289	S1	1	0
TVH2833	Alphacoronavirus Bat-CoV/P.kuhlil/italy/3398-19/2015	2492658	S	1	0
TVH2834	Turkey coronavirus	11152	S1	1	0
TVH2835	Beluga whale coronavirus SW1	694015	S	1	0
TVH2836	Bat coronavirus	1508220	S	1	0
TVH2837	Guangdong greater green snake arterivirus	2116442	S1	1	0
TVH2838	Casuarina virus	1482319	S1	1	0
TVH2839	Nse virus	1286142	S1	1	0
TVH2840	Beihai Nido-like virus 2	1922351	S1	1	0
TVH2841	Gill-associated virus	96491	S	1	0
TVH2842	Planarian secretory cell nidovirus	2100419	S1	1	0
TVH2843	Halyomorpha halys virus	1410467	S	1	0
TVH2844	Psammotettix alienus iflavirus 1	2358449	S	1	0
TVH2845	Sacbrood virus	89463	S	1	0
TVH2846	Ectropis obliqua picorna-like virus	240555	S1	1	0
TVH2847	Himetobi P virus	81583	S	1	0
TVH2848	Human rhinovirus NAT001	992230	S2	1	0
TVH2849	Coxsackievirus A2	33757	S1	1	0
TVH2850	Coxsackievirus B3	12072	S1	1	0
TVH2851	Enterovirus C	138950	S	1	0
TVH2852	Goose picornavirus 1	2079465	S	1	0
TVH2853	Washington bat picornavirus	1888309	S	1	0
TVH2854	Pigeon picornavirus B	928289	S	1	0
TVH2855	Bovine hungaravirus 1	1431464	S1	1	0
TVH2856	Norway rat hunnivirus	1562064	S	1	0
TVH2857	gallivirus A1	2764087	S1	1	0
TVH2858	Shanbavirus A	2170191	S	1	0
TVH2859	Rosavirus A2	1511807	S1	1	0
TVH2860	Equine rhinitis B virus 1	47001	S1	1	0
TVH2861	Norovirus GIV	262897	S1	1	0
TVH2862	Canine vesivirus	1176484	S	1	0
TVH2863	Vesivirus ferret badger/JX12/China/2012	1615583	S	1	0
TVH2864	Rabbit calicivirus Australia 1 MIC-07	576948	S	1	0
TVH2865	Marine RNA virus JP-B	439016	S1	1	0
TVH2866	Marine RNA virus SF-3	1419327	S1	1	0
TVH2867	Heterosigma akashiwo RNA virus	324900	S	1	0

TVH2868	Chaetoceros species RNA virus 02	1045800	S1	1	0
TVH2869	Hubei picorna-like virus 82	1923167	S1	1	0
TVH2870	Posavirus 2	1105381	S	1	0
TVH2871	Yongsan picorna-like virus 3	2315806	S	1	0
TVH2872	Riptortus pedestris virus-1	1912234	S	1	0
TVH2873	Blackbird arilivirus	2099352	S	1	0
TVH2874	Kilifi Virus	1654355	S	1	0
TVH2875	Papaya lethal yellowing virus	685899	S	1	0
TVH2876	Sweet potato virus C	930881	S	1	0
TVH2877	Tobacco vein mottling virus	12228	S	1	0
TVH2878	Tobacco etch virus	12227	S	1	0
TVH2879	Sudan watermelon mosaic virus	2018312	S	1	0
TVH2880	Sorghum mosaic virus	32619	S	1	0
TVH2881	Tuberosa mild mottle virus	244050	S	1	0
TVH2882	Mashua virus Y	2293720	S	1	0
TVH2883	Agropyron mosaic virus	41763	S	1	0
TVH2884	Yellow oat grass mosaic virus	2170240	S	1	0
TVH2885	Triticum mosaic virus	431317	S	1	0
TVH2886	Celery latent virus	2494552	S	1	0
TVH2887	Qinghai Himalayan marmot astrovirus 1	1961665	S	1	0
TVH2888	Porcine astrovirus 4	1105379	S	1	0
TVH2889	Mamastrovirus 18	1239582	S	1	0
TVH2890	Bastrovirus/VietNam/Rat/16715_10	1906175	S1	1	0
TVH2891	Melon partitivirus	2305257	S	1	0
TVH2892	Botryotinia fuckeliana partitivirus 1	425010	S	1	0
TVH2893	Pseudogymnoscus destructans partitivirus-pa	1685502	S	1	0
TVH2894	Heterobasidion partitivirus 2	872291	S	1	0
TVH2895	Beihai hypo-like virus 1	1922393	S	1	0
TVH2896	St Croix River virus	104581	S	1	0
TVH2897	Wallal virus	40061	S	1	0
TVH2898	African horse sickness virus	40050	S	1	0
TVH2899	Kadipiro virus	104580	S	1	0
TVH2900	Rotavirus A	28875	S	1	0
TVH2901	Rotavirus I	1637496	S	1	0
TVH2902	Wound tumor virus	10987	S	1	0
TVH2903	Colorado tick fever virus	46839	S1	1	0
TVH2904	American grass carp reovirus	465447	S1	1	0
TVH2905	Rice black streaked dwarf virus	10990	S	1	0
TVH2906	Mal de Rio Cuarto virus	185954	S	1	0
TVH2907	Aedes pseudoscutellaris reovirus	341721	S	1	0
TVH2908	Fako virus	1567404	S	1	0
TVH2909	Rice ragged stunt virus	42475	S	1	0
TVH2910	Aspergillus fumigatus chrysovirus	607716	S	1	0
TVH2911	Fusarium graminearum dsRNA mycovirus 2	254946	S1	1	0
TVH2912	Magnaporthe oryzae chrysovirus 1	764348	S	1	0
TVH2913	Penaeid shrimp infectious myonecrosis virus	282786	S	1	0
TVH2914	Piscine myocarditis-like virus	1798085	S	1	0
TVH2915	Helminthosporium victoriae virus 190S	45237	S	1	0
TVH2916	Botryotinia fuckeliana totivirus 1	425009	S	1	0
TVH2917	Xanthophyllomyces dendrorhous virus L1B	1167691	S	1	0
TVH2918	Rosellinia necatrix megabirnavirus 2-W8	1676267	S	1	0
TVH2919	Bipolaris maydis botybirnavirus 1	2138326	S	1	0
TVH2920	Tuber aestivum mitovirus	1037523	S	1	0
TVH2921	Fusarium poae mitovirus 3	1848152	S	1	0
TVH2922	Leviviridae sp.	2027243	S	1	0
TVH2923	Infectious pancreatic necrosis virus	11002	S	1	0
TVH2924	Porcine endogenous retrovirus E	168238	S2	1	0
TVH2925	Squirrel monkey retrovirus	11856	S	1	0
TVH2926	Jembrana disease virus	36370	S	1	0
TVH2927	Bovine leukemia virus	11901	S	1	0
TVH2928	Spider monkey simian foamy virus	2170200	S	1	0
TVH2929	Saebyeol virus	2320522	S	1	0
TVH2930	Dioscorea bacilliform virus	52996	S	1	0
TVH2931	Commelina yellow mottle virus	10653	S	1	0
TVH2932	Pagoda yellow mosaic associated virus	1505530	S	1	0
TVH2933	Piper yellow mottle virus	262957	S	1	0
TVH2934	Banana streak GF virus	328670	S	1	0
TVH2935	Dioscorea bacilliform RT virus 2	2011125	S	1	0
TVH2936	Strawberry vein banding virus	47903	S	1	0
TVH2937	Soybean Putnam virus	1221449	S	1	0
TVH2938	Sheldgoose hepatitis B virus	259898	S1	1	0
TVH2939	Sanxia picorna-like virus 2	1923371	S	1	0

TVH2940	Wenzhou tombus-like virus 8	1923678	S	1	0
TVH2941	Sanxia picorna-like virus 5	1923374	S	1	0
TVH2942	Wenzhou tombus-like virus 10	1923663	S	1	0
TVH2943	Changjiang narna-like virus 2	1922777	S	1	0
TVH2944	Wuhan arthropod virus 2	1923691	S	1	0
TVH2945	Beihai shrimp virus 6	1922672	S	1	0
TVH2946	Wenzhou picorna-like virus 2	1923604	S	1	0
TVH2947	Beihai picorna-like virus 99	1922644	S	1	0
TVH2948	Hubei unio douglasiae virus 1	1923321	S	1	0
TVH2949	Beihai picorna-like virus 91	1922638	S	1	0
TVH2950	Hubei myriapoda virus 7	1922936	S	1	0
TVH2951	Wenzhou picorna-like virus 15	1923599	S	1	0
TVH2952	Wenzhou picorna-like virus 11	1923595	S	1	0
TVH2953	Wenzhou picorna-like virus 1	1923593	S	1	0
TVH2954	Wenzhou picorna-like virus 32	1923618	S	1	0
TVH2955	Hubei virga-like virus 18	1923333	S	1	0
TVH2956	Wenzhou sobemo-like virus 3	1923659	S	1	0
TVH2957	Beihai sipunculid worm virus 1	1922673	S	1	0
TVH2958	Beihai picorna-like virus 70	1922617	S	1	0
TVH2959	Wenzhou picorna-like virus 42	1923629	S	1	0
TVH2960	Beihai sipunculid worm virus 5	1922677	S	1	0
TVH2961	Hubei insect virus 2	1922898	S	1	0
TVH2962	Wenzhou picorna-like virus 7	1923644	S	1	0
TVH2963	Hubei tombus-like virus 28	1923275	S	1	0
TVH2964	Beihai picorna-like virus 48	1922592	S	1	0
TVH2965	Beihai picorna-like virus 43	1922587	S	1	0
TVH2966	Beihai picorna-like virus 40	1922584	S	1	0
TVH2967	Hubei picorna-like virus 51	1923133	S	1	0
TVH2968	Hubei picorna-like virus 42	1923123	S	1	0
TVH2969	Beihai hepe-like virus 10	1922381	S	1	0
TVH2970	Hubei sobemo-like virus 5	1923238	S	1	0
TVH2971	Hubei sobemo-like virus 49	1923237	S	1	0
TVH2972	Beihai hepe-like virus 9	1922386	S	1	0
TVH2973	Changjiang picorna-like virus 2	1922791	S	1	0
TVH2974	Changjiang tombus-like virus 19	1922812	S	1	0
TVH2975	Beihai octopus virus 2	1922493	S	1	0
TVH2976	Hubei tetragrathia maxillosa virus 4	1923246	S	1	0
TVH2977	Beihai zhaovirus-like virus 2	1922758	S	1	0
TVH2978	Shane hepe-like virus 1	1923415	S	1	0
TVH2979	Beihai nama-like virus 11	1922438	S	1	0
TVH2980	Hubei picorna-like virus 55	1923137	S	1	0
TVH2981	Hubei picorna-like virus 58	1923140	S	1	0
TVH2982	Sanxia water strider virus 19	1923403	S	1	0
TVH2983	Beihai weivirus-like virus 4	1922752	S	1	0
TVH2984	Beihai picorna-like virus 105	1922533	S	1	0
TVH2985	Wuhan house centipede virus 1	1923705	S	1	0
TVH2986	Beihai picorna-like virus 11	1922538	S	1	0
TVH2987	Hubei polero-like virus 2	1923170	S	1	0
TVH2988	Changjiang picorna-like virus 10	1922783	S	1	0
TVH2989	Beihai barnacle virus 15	1922359	S	1	0
TVH2990	Xin Zhou nematode virus 1	1923769	S	1	0
TVH2991	Scierophthora macrospora virus B	75914	S	1	0
TVH2992	Goutanap virus	1560351	S	1	0
TVH2993	Drosophila A virus	595895	S	1	0
TVH2994	Trichoderma asperellum dsRNA virus 1	2305250	S	1	0
TVH2995	Beauveria bassiana polymycovirus 1	1740646	S	1	0
TVH2996	Spodoptera litura granulovirus	359919	S	1	0
TVH2997	Phthorimaea operculella granulovirus	192584	S	1	0
TVH2998	Diatraea saccharalis granulovirus	1675862	S	1	0
TVH2999	Adoxophyes honmai nucleopolyhedrovirus	224399	S	1	0
TVH3000	Homarus gammarus nudivirus	2509616	S	1	0
TVH3001	Tipula oleracea nudivirus	1546257	S	1	0
TVH3002	Pseudomonas phage phiPSA1	1500757	S	1	0
TVH3003	Gordonia Phage Lollipop1437	2588505	S	1	0
TVH3004	Streptococcus phage SpSL1	1566990	S	1	0
TVH3005	Microbacterium phage Noelani	2250371	S	1	0
TVH3006	Gordonia phage Turuncu	2315610	S	1	0
TVH3007	Serratia phage JS26	2315217	S	1	0
TVH3008	Rhodobacter phage RcapNL	1131316	S	1	0
TVH3009	Staphylococcus phage StB20	1147043	S	1	0
TVH3010	Pseudomonas phage PspYZU01	1983555	S	1	0
TVH3011	Enterobacteria phage mEp237	1147151	S	1	0

TVH3012	Enterobacteria phage mEp460	1147152	S	1	0
TVH3013	Salmonella phage vB_SosS_Oslo	1168549	S	1	0
TVH3014	Lactococcus phage 98201	1871690	S	1	0
TVH3015	Mannheimia phage vB_MhS_587AP2	1572745	S	1	0
TVH3016	Achromobacter phage JWF	1589748	S	1	0
TVH3017	Salmonella phage IME207	1873985	S	1	0
TVH3018	Staphylococcus phage phiRS7	1403390	S	1	0
TVH3019	Cellulophaga phage phi39:1	1327993	S	1	0
TVH3020	Streptococcus phage phi3396	423476	S	1	0
TVH3021	Vibrio phage SIO-2	700512	S	1	0
TVH3022	Rhodococcus phage ReqiPine5	691963	S	1	0
TVH3023	Salmonella phage vB_Se_STGO-35-1	2749381	S	1	0
TVH3024	Streptomyces phage SF3	1690818	S	1	0
TVH3025	Enterococcus phage IME-EFm5	1718158	S	1	0
TVH3026	Gordonia phage EMoore	2656534	S	1	0
TVH3027	Lactococcus phage bIL311	151534	S	1	0
TVH3028	Streptococcus phage A25	1701850	S	1	0
TVH3029	Salmonella phage Vi II-E1	424716	S	1	0
TVH3030	Rhodococcus phage ReqiDocB7	691966	S	1	0
TVH3031	Archaeal BJ1 virus	416419	S	1	0
TVH3032	Streptococcus phage SMP	413066	S	1	0
TVH3033	Streptococcus phage M102	372457	S	1	0
TVH3034	Gordonia Phage Zitch	2743909	S	1	0
TVH3035	Lactococcus phage P335 sensu lato	354260	S	1	0
TVH3036	Temperate phage phiNIH1.1	173707	S	1	0
TVH3037	Clostridium phage phi3626	190478	S	1	0
TVH3038	Klebsiella phage phiK02	255431	S	1	0
TVH3039	Pseudomonas phage J8D44	1777052	S	1	0
TVH3040	Salmonella phage Segz_1	2419756	S	1	0
TVH3041	Bacillus phage phi4B1	1643324	S	1	0
TVH3042	Providencia phage Kokobel1	2783540	S	1	0
TVH3043	Vibrio phage pYD38-B	929835	S	1	0
TVH3044	Mycobacterium phage Pinnie	2517965	S	1	0
TVH3045	Cyanophage KBS-S-2A	889953	S	1	0
TVH3046	Weissella phage WCP30	1837862	S	1	0
TVH3047	Pseudomonas phage YMC11/07/P54_PAE_BP	1777064	S	1	0
TVH3048	Staphylococcus phage StB20-like	1732064	S	1	0
TVH3049	Salicola phage CGphi29	754067	S	1	0
TVH3050	Halorubrum phage CGphi46	754066	S	1	0
TVH3051	Gordonia phage GTE8	1647475	S	1	0
TVH3052	Achromobacter phage phiAxp-2	1664246	S	1	0
TVH3053	Klebsiella virus KpV2811	2759464	S	1	0
TVH3054	Streptomyces phage Evy	2588514	S	1	0
TVH3055	Streptomyces phage Paradiddles	2023993	S1	1	0
TVH3056	Propionibacterium phage B22	1897532	S1	1	0
TVH3057	Mycobacterium phage Chadwick	1698366	S	1	0
TVH3058	Mycobacterium phage ArcherNM	1815972	S	1	0
TVH3059	Mycobacterium phage Priamo	2182403	S	1	0
TVH3060	Mycobacterium phage Veracruz	2530154	S	1	0
TVH3061	Mycobacterium phage EagleEye	1429759	S	1	0
TVH3062	Mycobacterium phage Luchador	1647300	S	1	0
TVH3063	Mycobacterium phage Wheeler	1383054	S	1	0
TVH3064	Mycobacterium phage SWU2	2077150	S	1	0
TVH3065	Mycobacterium virus D29	28369	S	1	0
TVH3066	Mycobacterium virus Saintus	1097754	S	1	0
TVH3067	Mycobacterium virus BBPiebs31	1032891	S	1	0
TVH3068	Mycobacterium phage Twister	1161933	S1	1	0
TVH3069	Mycobacterium phage Bongo	1088864	S1	1	0
TVH3070	Mycobacterium phage LiIMcDreamy	2652422	S	1	0
TVH3071	Mycobacterium phage JAMaL	1429905	S1	1	0
TVH3072	Mycobacterium phage Bane1	1354508	S1	1	0
TVH3073	Mycobacterium phage Nigel	543152	S1	1	0
TVH3074	Mycobacterium virus Acadian	1982901	S	1	0
TVH3075	Bacillus virus Finn	1273742	S	1	0
TVH3076	Mycobacterium virus Omega	205879	S	1	0
TVH3077	Lactococcus phage 936 group phage Phi4.2	1636566	S1	1	0
TVH3078	Mycobacterium phage Thyatira	2283261	S	1	0
TVH3079	Mycobacterium phage SirPhilip	2015824	S	1	0
TVH3080	Mycobacterium phage Nibb	2510585	S	1	0
TVH3081	Mycobacterium phage Amohntion	2015874	S	1	0
TVH3082	Mycobacterium phage Ekdilam	2599862	S	1	0
TVH3083	Mycobacterium phage Marshawn	2652423	S	1	0

TVH3084	Mycobacterium phage Bryler	2653755	S	1	0
TVH3085	Mycobacterium phage Apocalypse	2027890	S	1	0
TVH3086	Mycobacterium phage Aminay	2250291	S	1	0
TVH3087	Mycobacterium phage ZoeJ	1486427	S	1	0
TVH3088	Mycobacterium phage Validus	1414747	S	1	0
TVH3089	Mycobacterium phage Lolly9	1698711	S	1	0
TVH3090	Mycobacterium phage CELFI	2769359	S	1	0
TVH3091	Mycobacterium phage Tourach	2599882	S	1	0
TVH3092	Mycobacterium virus Bron	861047	S	1	0
TVH3093	Streptomyces phage phiHau3	1204524	S1	1	0
TVH3094	Streptomyces phage Diane	2041207	S	1	0
TVH3095	Streptomyces phage Tefunt	2041209	S	1	0
TVH3096	Streptomyces phage Werner	2801898	S	1	0
TVH3097	Streptomyces phage Yosif	2201421	S	1	0
TVH3098	Streptomyces phage Saftant	2601693	S	1	0
TVH3099	Streptomyces phage Endor1	2740181	S	1	0
TVH3100	Leuconostoc phage Ln-7	1897736	S1	1	0
TVH3101	Arthrobacter phage Abidatro	2015853	S1	1	0
TVH3102	Paenibacillus phage Dragolir	2070190	S1	1	0
TVH3103	Xanthomonas phage Xoo-sp2	1852622	S	1	0
TVH3104	Gordonia phage Katyusha	1821555	S1	1	0
TVH3105	Lactococcus phage P087	641487	S1	1	0
TVH3106	Lactococcus phage P596	2656515	S1	1	0
TVH3107	Mycobacterium phage Harley	2282909	S	1	0
TVH3108	Mycobacterium virus Che8	205868	S	1	0
TVH3109	Arthrobacter phage Oxyfrius	1897429	S	1	0
TVH3110	Arthrobacter phage BigMack	2488953	S	1	0
TVH3111	Arthrobacter phage MamaPearl	2743906	S	1	0
TVH3112	Arthrobacter phage Bennie	1772293	S1	1	0
TVH3113	Arthrobacter phage Joann	1772303	S1	1	0
TVH3114	Arthrobacter phage Wayne	1772322	S1	1	0
TVH3115	Escherichia phage DE3	482822	S1	1	0
TVH3116	Escherichia phage Seurat	1540098	S1	1	0
TVH3117	Lactococcus phage CHPC966	2675258	S1	1	0
TVH3118	Lactococcus phage 5171F	2675235	S1	1	0
TVH3119	Lactococcus virus c2	31537	S	1	0
TVH3120	Lactococcus phage M6165	1862962	S	1	0
TVH3121	Lactococcus phage 949	881953	S1	1	0
TVH3122	Lactococcus phage phiL47	1412875	S1	1	0
TVH3123	Lactobacillus phage P1	1846168	S1	1	0
TVH3124	Salmonella phage SETP13	424949	S1	1	0
TVH3125	Gordonia phage Adgers	2079413	S1	1	0
TVH3126	Gordonia phage Beaver	2591111	S1	1	0
TVH3127	Listeria phage LP-114	1458857	S1	1	0
TVH3128	Pseudomonas phage LKO4	1308899	S1	1	0
TVH3129	Mycobacterium phage PhatBacter	1391181	S	1	0
TVH3130	Mycobacterium phage Dusk	1679524	S	1	0
TVH3131	Staphylococcus phage 6ec	1500386	S1	1	0
TVH3132	Staphylococcus virus IPLA7	1197953	S	1	0
TVH3133	Staphylococcus phage IME1348_01	1965489	S1	1	0
TVH3134	Propionibacterium phage P104A	1229787	S1	1	0
TVH3135	Propionibacterium phage PHL070N00	1500807	S1	1	0
TVH3136	Propionibacterium phage PHL199M00	1500830	S1	1	0
TVH3137	Propionibacterium phage P14	1229784	S1	1	0
TVH3138	Propionibacterium phage Attacne	1655012	S1	1	0
TVH3139	Staphylococcus phage UPMK_2	2029631	S1	1	0
TVH3140	Gordonia phage Bibwit	2483666	S	1	0
TVH3141	Gordonia phage Geodirt	2483670	S	1	0
TVH3142	Gordonia phage CaptainKirk2	1887643	S	1	0
TVH3143	Gordonia phage Fairfaxidum	2572526	S1	1	0
TVH3144	Gordonia phage Kenosha	2588490	S1	1	0
TVH3145	Corynebacterium phage Darwin	2047869	S1	1	0
TVH3146	Gordonia phage Catfish	2301538	S	1	0
TVH3147	Vibrio phage vB_Vpa5_MAR10	1229755	S1	1	0
TVH3148	Gordonia phage Nymphadora	1821558	S1	1	0
TVH3149	Streptococcus virus Sfi21	64186	S	1	0
TVH3150	Streptococcus virus phiAbc2	633135	S	1	0
TVH3151	Gordonia phage Fireball	2652412	S	1	0
TVH3152	Gordonia phage Nubi	2588492	S	1	0
TVH3153	Streptomyces virus phiBT1	225588	S	1	0
TVH3154	Shigella phage EP23	1109721	S1	1	0
TVH3155	Mycobacterium phage Barnyard	205880	S1	1	0

TVH3156	Acinetobacter phage YMC11/11/R3177	1628721	S1	1	0
TVH3157	Erwinia phage vB_EhrS_49	2283026	S1	1	0
TVH3158	Burkholderia virus phiE125	180504	S	1	0
TVH3159	Thermus virus P23-45	466051	S	1	0
TVH3160	Enterococcus phage phiSHEF2	2030922	S1	1	0
TVH3161	Lactobacillus phage phiLdb	1399942	S1	1	0
TVH3162	Providencia phage PSTCR5	2783547	S	1	0
TVH3163	Nonlabens phage P12024L	1168479	S1	1	0
TVH3164	Propionibacterium phage PFR2	1838138	S	1	0
TVH3165	Pseudomonas phage PaMx42	1175662	S	1	0
TVH3166	Bacillus phage vB_BceS-MY192	1759525	S1	1	0
TVH3167	Corynebacterium phage Dina	2588501	S1	1	0
TVH3168	Corynebacterium phage StAB	2591204	S1	1	0
TVH3169	Rhodococcus phage ReqiPepy6	691965	S1	1	0
TVH3170	Streptomyces phage Attoomi	2059881	S1	1	0
TVH3171	Escherichia phage mEpX1	1147153	S1	1	0
TVH3172	Staphylococcus virus 42e	320837	S	1	0
TVH3173	Flavobacterium phage vB_FspS_laban5-1	2686250	S1	1	0
TVH3174	Mycobacterium phage Wildcat	373415	S1	1	0
TVH3175	Streptomyces phage Rima	1897525	S1	1	0
TVH3176	Rhizobium phage vB_RglS_P106B	1458697	S1	1	0
TVH3177	Microbacterium phage Hendrix	2182341	S1	1	0
TVH3178	Escherichia virus N15	40631	S	1	0
TVH3179	Gordonia phage Ruthy	2250323	S1	1	0
TVH3180	Microbacterium phage Dismas	2065199	S1	1	0
TVH3181	Gordonia phage Schnabeltier	1821561	S1	1	0
TVH3182	Lactobacillus phage LJ	2041454	S1	1	0
TVH3183	Mycobacterium phage Raymond7	2743931	S	1	0
TVH3184	Lactobacillus phage CL2	1739608	S1	1	0
TVH3185	Bacillus phage vB_BtS_BMBtp3	1445809	S1	1	0
TVH3186	Microbacterium phage Golden	2099624	S1	1	0
TVH3187	Streptomyces phage Lilbooboo	2510571	S1	1	0
TVH3188	Bacillus phage BCASJ1c	294382	S1	1	0
TVH3189	Mycobacterium phage Fowlmouth	2419978	S1	1	0
TVH3190	Pseudomonas virus D3	31535	S	1	0
TVH3191	Roseobacter phage RDJL Phi 1	562742	S1	1	0
TVH3192	Rhodococcus virus RGL3	1109716	S	1	0
TVH3193	Lactobacillus virus ATCC8014	1225794	S	1	0
TVH3194	Gordonia phage JSwag	1887649	S	1	0
TVH3195	Mycobacterium phage Gaia	1486472	S1	1	0
TVH3196	Bacillus phage phi105	10717	S1	1	0
TVH3197	Gordonia phage Hedwig	1887648	S1	1	0
TVH3198	Corynebacterium phage Juicebox	2301600	S1	1	0
TVH3199	Nodularia phage vB_NpeS-2AV2	1777122	S1	1	0
TVH3200	Mycobacterium phage Squirty	1527512	S1	1	0
TVH3201	Eggerthella phage PMBT5	2283015	S1	1	0
TVH3202	Clavibacter phage CMP1	686439	S1	1	0
TVH3203	Escherichia phage JLK-2012	1147722	S1	1	0
TVH3204	Streptococcus phage SPQ51	1208587	S1	1	0
TVH3205	Gordonia phage GAL1	1647469	S1	1	0
TVH3206	Arthrobacter phage Molivia	2015839	S1	1	0
TVH3207	Escherichia phage vB_EcoM_Ozark	2750851	S1	1	0
TVH3208	Escherichia phage wV7	1054480	S	1	0
TVH3209	Escherichia phage UFV-AREG1	1837867	S1	1	0
TVH3210	Shigella phage pSs-1	1551641	S1	1	0
TVH3211	Shigella phage JK45	2591063	S1	1	0
TVH3212	Escherichia phage RB3	31533	S1	1	0
TVH3213	Shigella phage SHFML-11	1863008	S1	1	0
TVH3214	Escherichia phage vB_EcoM_F1	2750846	S1	1	0
TVH3215	Cronobacter phage vB_CsaM_GAP161	1141138	S1	1	0
TVH3216	Klebsiella phage JD18	1698360	S1	1	0
TVH3217	Klebsiella phage vB_KpnM_KpV477	1852625	S	1	0
TVH3218	Escherichia phage vB_EcoM_VR7	700939	S1	1	0
TVH3219	Aeromonas phage PX29	926067	S	1	0
TVH3220	Enterobacteria phage GEC-35	1222338	S1	1	0
TVH3221	Salmonella phage STP4-a	1445860	S1	1	0
TVH3222	Citrobacter phage Moon	1540095	S1	1	0
TVH3223	Shigella phage Shf125875	1541825	S1	1	0
TVH3224	Escherichia phage p000v	2479933	S	1	0
TVH3225	Xanthomonas phage KPhi1	1927017	S	1	0
TVH3226	Vibrio phage helene 12B3	573173	S	1	0
TVH3227	Escherichia phage vB_vPM_PD06	2315527	S	1	0

TVH3228	Gordonia phage Pupper	2571249	S	1	0
TVH3229	Burkholderia phage KS10	557289	S	1	0
TVH3230	Aurantimonas phage AmM-1	1503929	S	1	0
TVH3231	Acinetobacter phage YMC13/03/R2096	1560342	S	1	0
TVH3232	Cyanophage P-RSM1	536444	S	1	0
TVH3233	Synechococcus phage ACG-2014h	1340810	S	1	0
TVH3234	Lactobacillus prophage Lj771	139871	S	1	0
TVH3235	Erwinia phage phiEt88	925984	S	1	0
TVH3236	Rhizobium phage RR1-B	929834	S	1	0
TVH3237	Synechococcus phage S-H35	1983572	S	1	0
TVH3238	Cronobacter phage CR3	1162295	S1	1	0
TVH3239	Cronobacter phage CR8	1327934	S1	1	0
TVH3240	Pectobacterium phage phiTE	1116482	S1	1	0
TVH3241	Escherichia phage V5	399183	S1	1	0
TVH3242	Escherichia phage FFH2	1446490	S1	1	0
TVH3243	Erwinia phage pEp_SNUABM_01	2601643	S1	1	0
TVH3244	Erwinia phage vB_EamM_Phobos	1883377	S	1	0
TVH3245	Flavobacterium phage vB_FspM_pippi8-1	2586244	S1	1	0
TVH3246	Serratia phage Muldoon	2601678	S1	1	0
TVH3247	Klebsiella phage ST13-OXA48phi12_1	2510464	S1	1	0
TVH3248	Burkholderia phage AP3	1636201	S1	1	0
TVH3249	Burkholderia virus phi52237	332032	S	1	0
TVH3250	Escherichia phage pro483	1649240	S1	1	0
TVH3251	Salmonella phage SI7	2592212	S1	1	0
TVH3252	Aeromonas virus phiO18P	393598	S	1	0
TVH3253	Pseudalteromonas phage C5a	1916107	S1	1	0
TVH3254	Cronobacter phage ESSI-2	947842	S1	1	0
TVH3255	Pasteurella virus F108	342564	S	1	0
TVH3256	Aeromonas phage AS-zj	2024208	S1	1	0
TVH3257	Aeromonas virus 25	233894	S	1	0
TVH3258	Aeromonas phage Aes508	1198013	S1	1	0
TVH3259	Acinetobacter phage KARL-1	2301662	S1	1	0
TVH3260	Acinetobacter phage vB_AbaM_PhT2	2690230	S1	1	0
TVH3261	Yersinia phage phiR1-RT	1206558	S1	1	0
TVH3262	Erwinia phage vB_EamM_RAY	1815987	S1	1	0
TVH3263	Erwinia phage vB_EamM_Special G	1815989	S1	1	0
TVH3264	Escherichia phage JH2	1340750	S1	1	0
TVH3265	Salmonella phage BP517W1	2060124	S1	1	0
TVH3266	Acinetobacter phage AbP2	2015804	S1	1	0
TVH3267	Acinetobacter phage LZ35	1792222	S1	1	0
TVH3268	Synechococcus phage S-WAM1	1815521	S	1	0
TVH3269	Acinetobacter phage vB_AbaM_B09_Aci02-2	2315467	S1	1	0
TVH3270	Stenotrophomonas phage Mendera	2650877	S1	1	0
TVH3271	Halobacterium virus ChaoS9	2496992	S	1	0
TVH3272	Pseudomonas phage vB_PaeM_MAG1	1639815	S1	1	0
TVH3273	Escherichia phage vB_EcoM-ep3	1541883	S1	1	0
TVH3274	Mycobacterium phage Tonenili	1891703	S	1	0
TVH3275	Halorubrum Tailed Virus 7	1273754	S	1	0
TVH3276	Halorubrum phage HF2	33771	S1	1	0
TVH3277	Enterobacteria phage P7	10682	S1	1	0
TVH3278	Salmonella phage SI46	1815968	S1	1	0
TVH3279	Burkholderia phage BcepSaruman	2530032	S1	1	0
TVH3280	Xanthomonas virus XcP1	2182344	S	1	0
TVH3281	Alteromonas phage vB_AmeM_PT11-V22	2704031	S1	1	0
TVH3282	Clostridium phage CDMH1	1411095	S1	1	0
TVH3283	Arthrobacter phage Vibaki	2593333	S1	1	0
TVH3284	Clostridium virus phiCD27	559189	S	1	0
TVH3285	Pseudomonas phage tabernarius	2048978	S1	1	0
TVH3286	Lactobacillus phage LBR48	755164	S1	1	0
TVH3287	Gordonia phage GMA6	1647285	S1	1	0
TVH3288	Lactobacillus phage Lb	2048517	S1	1	0
TVH3289	Faecalibacterium phage FP_Mushu	2070185	S1	1	0
TVH3290	Bacillus virus 1	396034	S	1	0
TVH3291	Synechococcus phage S-PM2	238854	S1	1	0
TVH3292	Burkholderia virus BcepMu	264729	S	1	0
TVH3293	Erwinia phage Wellington	2267653	S1	1	0
TVH3294	Xanthomonas phage XPV1	2099860	S	1	0
TVH3295	Streptomyces phage BRock	1913591	S1	1	0
TVH3296	Acinetobacter phage vB_AbaP_B5	2678937	S1	1	0
TVH3297	Acinetobacter phage SWH-Ab-1	2053604	S1	1	0
TVH3298	Acinetobacter phage SH-Ab 15519	1916127	S1	1	0
TVH3299	Acinetobacter phage WCHABP5	1983525	S1	1	0

TVH3300	Shigella phage SFN6B	1785176	S1	1	0
TVH3301	Klebsiella phage myPSH1235	2099390	S1	1	0
TVH3302	Shigella phage Buco	2530183	S1	1	0
TVH3303	Enterobacter phage phiKDA1	1147139	S1	1	0
TVH3304	Marinomonas phage CB5A	2022859	S1	1	0
TVH3305	Escherichia phage P483	1572753	S1	1	0
TVH3306	Shigella phage VB_Ship_A7	2562138	S1	1	0
TVH3307	Klebsiella phage KP32	674082	S1	1	0
TVH3308	Klebsiella phage K5	1647374	S1	1	0
TVH3309	Klebsiella phage vB_KpnP_IL33	1907783	S1	1	0
TVH3310	Escherichia phage 64795_ec1	1837842	S1	1	0
TVH3311	Escherichia phage HZP2	2530019	S1	1	0
TVH3312	Pseudomonas phage UNO-SLW1	1873993	S1	1	0
TVH3313	Pseudomonas phage Henninger	2079287	S1	1	0
TVH3314	Pectobacterium phage PP47	1932882	S1	1	0
TVH3315	Citrobacter phage CR44b	1455075	S1	1	0
TVH3316	Cronobacter phage GW1	2200756	S1	1	0
TVH3317	Pseudomonas phage vB_PsyP_3MF5	2749426	S1	1	0
TVH3318	Pseudomonas phage PspYZU08	1983557	S1	1	0
TVH3319	Yersinia phage fP5-54-ocr	2052753	S1	1	0
TVH3320	Escherichia phage SRT7	2268589	S1	1	0
TVH3321	Pectobacterium phage Gaspode	2320194	S1	1	0
TVH3322	Pectobacterium phage PPWS2	2153295	S1	1	0
TVH3323	Ralstonia phage RSJ2	1481785	S1	1	0
TVH3324	Ralstonia phage RsoP1IDN	2060091	S1	1	0
TVH3325	Aeromonas phage ZPAH7	2420320	S1	1	0
TVH3326	Yersinia phage fHe-Yen3-01	1932893	S1	1	0
TVH3327	Pseudomonas phage vB_PaeP_PA01_Ab05	1548902	S1	1	0
TVH3328	Cyanophage 9515-10a	444875	S1	1	0
TVH3329	Escherichia phage vB_EcoP_K	1933111	S1	1	0
TVH3330	Salmonella phage BP12B	1543201	S1	1	0
TVH3331	Leifliottia phage phD2B	1542498	S1	1	0
TVH3332	Xanthomonas phage XAJ24	1775250	S1	1	0
TVH3333	uncultured phage_MedDCM-OCT-S42-C7	2741073	S1	1	0
TVH3334	uncultured phage_MedDCM-OCT-S38-C3	2740803	S1	1	0
TVH3335	Mesorhizobium phage vB_MloP_LoS7RANS	1527771	S1	1	0
TVH3336	Vibrio phage vB_VpaP_KF2	2041473	S1	1	0
TVH3337	Synechococcus phage S-CBP3	756276	S1	1	0
TVH3338	Prochlorococcus phage P-GSP1	382262	S1	1	0
TVH3339	uncultured phage_MedDCM-OCT-S45-C4	2740801	S1	1	0
TVH3340	Synechococcus virus P60	151528	S	1	0
TVH3341	Phage_MedPE-SWcel-C56	1871314	S1	1	0
TVH3342	Synechococcus T7-like phage S-TIP37	1332145	S1	1	0
TVH3343	uncultured phage_MedDCM-OCT-S46-C10	2741074	S1	1	0
TVH3344	uncultured phage_MedDCM-OCT-S08-C159	743571	S1	1	0
TVH3345	crAssphage cr107_1	2772061	S	1	0
TVH3346	Azobacteroides phage ProjPt-Bp1	1920526	S	1	0
TVH3347	Cellulophaga phage phi13.2	1328030	S	1	0
TVH3348	Xylella phage Xfas53	670252	S	1	0
TVH3349	Escherichia phage E21	2663325	S	1	0
TVH3350	Vibrio phage 1.238.A_10N.261.52.F10	1881231	S	1	0
TVH3351	Streptomyces phage Manuel	2053812	S1	1	0
TVH3352	Escherichia phage ECBP2	1604355	S1	1	0
TVH3353	Microbacterium phage Phedro	2725606	S1	1	0
TVH3354	Escherichia phage PA28	1660368	S1	1	0
TVH3355	Klebsiella phage vB_KpnS_IME279	2041211	S1	1	0
TVH3356	Bacillus phage Palmer	1597966	S1	1	0
TVH3357	Microbacterium phage Burro	2315703	S1	1	0
TVH3358	Vibrio phage J2	1558467	S	1	0
TVH3359	Actinomyces virus Av1	338473	S	1	0
TVH3360	Anabaena phage A-4L	1357732	S1	1	0
TVH3361	Serratia phage Parlo	2557554	S1	1	0
TVH3362	Phormidium virus WMP3	440250	S	1	0
TVH3363	Burkholderia phage vB_BmuP_KL4	2115967	S1	1	0
TVH3364	Pseudomonas virus F116	280701	S	1	0
TVH3365	Escherichia phage vB_EcoS_SH2	1983554	S1	1	0
TVH3366	Shigella phage vB_SsoS_008	2507846	S1	1	0
TVH3367	Shigella phage SH6	1913048	S1	1	0
TVH3368	Escherichia phage SRT8	2496545	S1	1	0
TVH3369	Escherichia phage tonn	2696451	S1	1	0
TVH3370	Enterobacter virus F20	1095076	S	1	0
TVH3371	Klebsiella phage JY917	2099585	S1	1	0

TVH3372	Klebsiella phage KpKT21phi1	2500828	S1	1	0
TVH3373	Escherichia phage phiEB49	1048207	S1	1	0
TVH3374	Shigella phage Sd1	2024313	S1	1	0
TVH3375	Cronobacter phage PhiCS01	2496544	S1	1	0
TVH3376	Citrobacter virus HCF1	2653507	S	1	0
TVH3377	Bacillus phage BigBertha	1406781	S1	1	0
TVH3378	Bacillus phage Troll	1382932	S1	1	0
TVH3379	Bacillus phage Nemo	1805950	S	1	0
TVH3380	Bacillus phage Eyuki	1690431	S1	1	0
TVH3381	Bacillus phage BCP78	1126950	S1	1	0
TVH3382	Bacillus phage Bastille	57477	S1	1	0
TVH3383	Bacillus phage vB_BmeM-Goe8	2593638	S1	1	0
TVH3384	Staphylococcus virus Remus	1857890	S	1	0
TVH3385	Enterococcus phage EFDG1	1597976	S1	1	0
TVH3386	Bacillus virus SPO1	10685	S	1	0
TVH3387	Lactobacillus phage Bromius	2315485	S1	1	0
TVH3388	Lactobacillus phage Iacchus	2315483	S1	1	0
TVH3389	Lactobacillus phage Lpa804	2059850	S1	1	0
TVH3390	Brochothrix phage A9	857312	S1	1	0
TVH3391	Lactobacillus phage 3-521	2510943	S1	1	0
TVH3392	Escherichia phage Gostya9	2182345	S1	1	0
TVH3393	Salmonella phage SE11	2592195	S1	1	0
TVH3394	Escherichia phage slur09	1728958	S1	1	0
TVH3395	Shigella phage SSP1	1983588	S1	1	0
TVH3396	Shigella phage SHSML-45	1863010	S1	1	0
TVH3397	Salmonella phage Sw2	2316014	S1	1	0
TVH3398	Proteus phage PM135	2048008	S1	1	0
TVH3399	Erwinia phage phiEa2809	1564096	S1	1	0
TVH3400	Salmonella phage Mutine	2054274	S1	1	0
TVH3401	Salmonella phage barely	2713278	S1	1	0
TVH3402	Salmonella phage 38	1654891	S1	1	0
TVH3403	Klebsiella phage May	2054272	S1	1	0
TVH3404	Stenotrophomonas phage YB07	2555548	S	1	0
TVH3405	Dickeya virus Limestone	1091052	S	1	0
TVH3406	Shigella phage Ag3	637730	S1	1	0
TVH3407	Pseudomonas phage Pa2	1530400	S	1	0
TVH3408	Erwinia phage Ea9-2	1429767	S1	1	0
TVH3409	Escherichia phage vB_EcoP_PhAPEC5	1395983	S1	1	0
TVH3410	Achromobacter phage JWAAlpha	1416009	S1	1	0
TVH3411	Dinoroseobacter phage DFL12phi1	1477404	S1	1	0
TVH3412	Ruegeria phage vB_RpoP-V13	2218612	S1	1	0
TVH3413	Vibrio phage 1.224.A_10N.261.48.B1	1881226	S1	1	0
TVH3414	Pseudomonas phage Littlefix	2079289	S1	1	0
TVH3415	Xanthomonas phage RiverRider	2108116	S1	1	0
TVH3416	Escherichia phage Mangalitsa	2589658	S1	1	0
TVH3417	Aeromonas phage pAh6-C	1505227	S1	1	0
TVH3418	Vibrio phage ICP2_2013_A_Haiti	1529058	S	1	0
TVH3419	Pseudomonas phage O4	1784982	S	1	0
TVH3420	Vibrio phage ICP2	979533	S1	1	0
TVH3421	Pseudoalteromonas phage HP1	1357706	S1	1	0
TVH3422	Pseudomonas phage PA11	347327	S1	1	0
TVH3423	Salinivibrio phage CW02	1161935	S1	1	0
TVH3424	Bacillus phage Claudi	1874001	S1	1	0
TVH3425	Bacillus virus B103	10778	S	1	0
TVH3426	Bacillus phage vB_BsuP-Goe1	1807511	S1	1	0
TVH3427	Bacillus phage vB_Bpu_PumA1	2662127	S1	1	0
TVH3428	Staphylococcus phage Portland	2650876	S	1	0
TVH3429	Staphylococcus phage Andhra	1958907	S1	1	0
TVH3430	Staphylococcus phage St 134	1958922	S1	1	0
TVH3431	Enterococcus phage vB_EfaP_Ef6.2	2546621	S1	1	0
TVH3432	Enterococcus phage vB_Efae230P-4	1161939	S1	1	0
TVH3433	Wood mouse herpesvirus	432370	S1	1	0
TVH3434	Macaca fuscata rhadinovirus	272551	S1	1	0
TVH3435	Ovine gammaherpesvirus 2	10398	S	1	0
TVH3436	Macacine gammaherpesvirus 4	45455	S	1	0
TVH3437	Human betaherpesvirus 7	10372	S	1	0
TVH3438	Tupaiid betaherpesvirus 1	10397	S	1	0
TVH3439	Falconid herpesvirus 1	1510155	S1	1	0
TVH3440	Beluga whale alphaherpesvirus 1	1434720	S1	1	0
TVH3441	Equid alphaherpesvirus 9	55744	S	1	0
TVH3442	Phocid alphaherpesvirus 1	47418	S	1	0
TVH3443	Human alphaherpesvirus 3	10335	S	1	0

TVH3444	Leporid alphaherpesvirus 4	481315	S	1	0
TVH3445	Hawaiian green turtle herpesvirus	70564	S2	1	0
TVH3446	Yellowstone lake phycodnavirus 1	1586713	S	1	0
TVH3447	Yellowstone lake phycodnavirus 3	1586715	S	1	0
TVH3448	Ostreococcus lucimarinus virus 7	1663209	S	1	0
TVH3449	Lymphocystis disease virus - isolate China	256729	S	1	0
TVH3450	Ambystoma tigrinum virus	265294	S	1	0
TVH3451	Infectious spleen and kidney necrosis virus	180170	S	1	0
TVH3452	Seal parapoxvirus	187984	S1	1	0
TVH3453	Lumpy skin disease virus NI-2490	376849	S1	1	0
TVH3454	Goatpox virus Pellor	376852	S1	1	0
TVH3455	Eastern grey kangaropox virus	2042482	S1	1	0
TVH3456	Rabbit fibroma virus	10271	S	1	0
TVH3457	Pigeon adenovirus 2	1907767	S1	1	0
TVH3458	Human adenovirus 5	28285	S1	1	0
TVH3459	Simian mastadenovirus WIV19	1923976	S1	1	0
TVH3460	Human mastadenovirus E	130308	S	1	0
TVH3461	Murine adenovirus 3	573199	S1	1	0
TVH3462	Simian adenovirus 20	585059	S1	1	0
TVH3463	Snake adenovirus 1	189830	S1	1	0
TVH3464	Vibrio phage 1.008.O_10N.286.54.E5	1881242	S1	1	0
TVH3465	Enterobacteria phage PRD1	10658	S1	1	0
TVH3466	Bacillus phage GIL16c	307240	S1	1	0
TVH3467	Streptomyces phage Forthebois	2562185	S1	1	0
TVH3468	Pseudoalteromonas virus PM2	10661	S	1	0
TVH3469	Sputnik virophage	543939	S1	1	0
TVH3470	Natrinema virus SNJ1	1723446	S	1	0
TVH3471	Tetraselmis viridis virus S1	756285	S	1	0
TVH3472	Rhynchobatus djiddensis adomavirus 1	2175117	S	1	0
TVH3473	Halovirus HVTV-1	1262528	S	1	0
TVH3474	Sewage-associated circular DNA virus-33	1592100	S	1	0
TVH3475	Odonata-associated circular virus-7	1592127	S	1	0
TVH3476	Salisaeta icosahedral phage 1	1183239	S	1	0
TVH3477	Cellulophaga phage phi48:2	1327968	S	1	0
TVH3478	Planaria asexual strain-specific virus-like element type 1	159252	S	1	0
TVH3479	Aphis glycines virus 2	1897732	S	1	0
TVH3480	Salmovirus WFR1	1981916	S	1	0
TVH3481	Culex negeve-like virus 1	2010273	S	1	0
TVH3482	Leshenault partiti-like virus	2010278	S	1	0
TVH3483	Lake Sarah-associated circular virus-43	1685772	S	1	0
TVH3484	Tanay virus	1489714	S	1	0
TVH3485	Lake Sarah-associated circular virus-S1	1685781	S	1	0
TVH3486	Human papillomavirus KCS	1647924	S	1	0
TVH3487	Trichechus manatus latirostris papillomavirus 3	2848316	S1	1	0
TVH3488	Boa constrictor papillomavirus 1	2294156	S	1	0
TVH3489	Caretta caretta papillomavirus 1	485241	S1	1	0
TVH3490	Mesocricetus auratus papillomavirus 1	1408129	S1	1	0
TVH3491	Leptonychotes weddellii papillomavirus 1	2077302	S	1	0
TVH3492	Leptonychotes weddellii papillomavirus 3	2077304	S	1	0
TVH3493	Human papillomavirus	10566	S	1	0
TVH3494	Bank vole polyomavirus	1737522	S1	1	0
TVH3495	Squirrel monkey polyomavirus	452475	S1	1	0
TVH3496	Akodon montensis polyomavirus	2163422	S	1	0
TVH3497	Rhinolophus hildebrandtii polyomavirus 1	1904410	S	1	0
TVH3498	Sparus aurata polyomavirus 1	1885927	S	1	0
TVH3499	Adelie penguin polyomavirus	1590650	S1	1	0
TVH3500	Potamochoerus porcus polyomavirus 1	2170410	S	1	0
TVH3501	Avian adeno-associated virus ATCC VR-865	219704	S1	1	0
TVH3502	Canine minute virus	329639	S1	1	0
TVH3503	Rousettus leschenaultii bocaparvovirus 1	2053082	S1	1	0
TVH3504	Porcine bocavirus 3	1084715	S1	1	0
TVH3505	Gray fox amdovirus	1093101	S1	1	0
TVH3506	Diaphorina citri densovirus	1776153	S1	1	0
TVH3507	Tomato yellow vein streak virus	55216	S	1	0
TVH3508	African cassava mosaic virus	10817	S	1	0
TVH3509	Blainvillea yellow spot virus	536081	S	1	0
TVH3510	Tomato yellow mottle virus	86502	S	1	0
TVH3511	Sida yellow vein Vietnam virus	390441	S	1	0
TVH3512	Squash mild leaf curl virus	223324	S	1	0
TVH3513	Tomato leaf curl New Delhi virus	223347	S	1	0
TVH3514	Pepper yellow leaf curl Indonesia virus	292477	S	1	0
TVH3515	Rhynchosia golden mosaic Sinaloa virus	1513519	S	1	0