

Table S2. A list of Aeromonas phages available in the NCBI GenBank database

No	Bacterial host	Prototype phage	NCBI Genome ID	Family	Subfamily	Genus
1	<i>A. dhakensis</i>	Aeromonas phage P19	OM339718	Straboviridae	Emmerichvirinae	Ceceduovirus
2	<i>A. hydrophila</i>	Aeromonas phage MJG	MK455769	Autographiviridae	Colwellvirinae	unclassified Uliginivirus
3	<i>A. hydrophila</i>	Aeromonas phage HJG	MK455770	Autographiviridae	Colwellvirinae	unclassified Uliginivirus
4	<i>A. hydrophila</i>	Aeromonas phage ZPAH7	MH992513	Autographiviridae	Melnykvirinae	Aerosvirus
5	<i>A. hydrophila</i>	Aeromonas phage ZPAH7B	MK330684	Autographiviridae	Melnykvirinae	Aerosvirus
6	<i>A. hydrophila</i>	Aeromonas phage 25AhydR2PP	NC_047966	Autographiviridae	Melnykvirinae	Aerosvirus
7	<i>A. hydrophila</i>	Aeromonas phage Ahp1	NC_047866	Autographiviridae	Melnykvirinae	Ahphunavirus
8	<i>A. hydrophila</i>	Aeromonas phage CF7	NC_047865	Autographiviridae	Melnykvirinae	Ahphunavirus
9	<i>A. hydrophila</i>	Aeromonas phage LAh1	MK838107	Autographiviridae	Melnykvirinae	unclassified Ahphunavirus
10	<i>A. hydrophila</i>	Aeromonas phage LAh2	MK838108	Autographiviridae	Melnykvirinae	unclassified Ahphunavirus
11	<i>A. hydrophila</i>	Aeromonas phage LAh3	MK838109	Autographiviridae	Melnykvirinae	unclassified Ahphunavirus
12	<i>A. hydrophila</i>	Aeromonas phage LAh4	MK838110	Autographiviridae	Melnykvirinae	unclassified Ahphunavirus
13	<i>A. hydrophila</i>	Aeromonas phage LAh5	MK838111	Autographiviridae	Melnykvirinae	unclassified Ahphunavirus
14	<i>A. hydrophila</i>	Aeromonas phage PZL-Ah8	MZ851152	Autographiviridae	Studiervirinae	unclassified
15	<i>A. hydrophila</i>	Aeromonas phage PZL-Ah1	MT681669	Autographiviridae	Studiervirinae	Teseptimavirus
16	<i>A. hydrophila</i>	Aeromonas phage PZL-Ah152	MW671054	Autographiviridae	Studiervirinae	unclassified
17	<i>A. hydrophila</i>	Aeromonas phage LAh_7	NC_052985	Casjensviridae	-	Sharonstreetvirus
18	<i>A. hydrophila</i>	Aeromonas phage vB_AhyS-A18P4	NC_052984	Casjensviridae	-	Sharonstreetvirus
19	<i>A. hydrophila</i>	Aeromonas phage BUCT551	NC_052986	Casjensviridae	-	Sharonstreetvirus
20	<i>A. hydrophila</i>	Aeromonas phage AhMtk13b	OL840901	Casjensviridae	-	unclassified Sharonstreetvirus
21	<i>A. hydrophila</i>	Aeromonas phage pAh6-C	NC_048774	Chaseviridae	Nefertitvirinae	Pahsextavirus
22	<i>A. hydrophila</i>	Aeromonas phage pAh6.2TG	MZ336020	Chaseviridae	Nefertitvirinae	unclassified Pahsextavirus
23	<i>A. hydrophila</i>	Aeromonas phage PVN02	MT623578	Chaseviridae	Nefertitvirinae	unclassified Pahsextavirus
24	<i>A. hydrophila</i>	Aeromonas phage PVN03	MW380983	Chaseviridae	Nefertitvirinae	unclassified Pahsextavirus
25	<i>A. hydrophila</i>	Aeromonas phage PVN04	MW380984	Chaseviridae	Nefertitvirinae	unclassified Pahsextavirus
26	<i>A. hydrophila</i>	Aeromonas phage PVN05	MW380985	Chaseviridae	Nefertitvirinae	unclassified Pahsextavirus
27	<i>A. hydrophila</i>	Aeromonas phage ZPAH14	OM810291	Chaseviridae	Nefertitvirinae	unclassified Pahsextavirus
28	<i>A. hydrophila</i>	Aeromonas phage AhSzw-1	NC_047950	Demerecviridae	-	Shenzhenvirus
29	<i>A. hydrophila</i>	Aeromonas phage AhSzq-1	NC_047949	Demerecviridae	-	Shenzhenvirus

30	<i>A. hydrophila</i>	Aeromonas phage Akh-2	MK318083	Demerecviridae	-	unclassified Shenzhenvirus
31	<i>A. hydrophila</i>	Aeromonas phage CC2	NC_019538	Straboviridae	Emmerichvirinae	Ceceduovirus
32	<i>A. hydrophila</i>	Aeromonas phage AP1	MT713136	Straboviridae	Emmerichvirinae	unclassified Ceceduovirus
33	<i>A. hydrophila</i>	Aeromonas phage ZPAH1	MW272540	Straboviridae	Emmerichvirinae	unclassified Ishigurovirus
34	<i>A. hydrophila</i>	Aeromonas phage Aeh1	NC_005260	Straboviridae	-	Cinqassovirus
35	<i>A. hydrophila</i>	Aeromonas phage Ah1	NC_055733	Straboviridae	-	Cinqassovirus
36	<i>A. hydrophila</i>	Aeromonas phage 50AhydR13PP	NC_055746	Straboviridae	-	Tulanevirus
37	<i>A. hydrophila</i>	Aeromonas phage AhMtk13a	OL840900	Straboviridae	-	Tulanevirus
38	<i>A. hydrophila</i>	Aeromonas phage 60AhydR15PP	NC_055747	Straboviridae	-	Tulanevirus
39	<i>A. hydrophila</i>	Aeromonas phage Ahp2R	KX455876	unclassified Myoviridae	unclassified	unclassified
40	<i>A. hydrophila</i>	Aeromonas phage 4_4572	NC_048773	unclassified	unclassified	Lahexavirus
41	<i>A. hydrophila</i>	Aeromonas phage LAh_6	NC_048774	unclassified	unclassified	Lahexavirus
42	<i>A. hydrophila</i>	Aeromonas phage LAh_8	NC_048775	unclassified	unclassified	Lahexavirus
43	<i>A. hydrophila</i>	Aeromonas phage LAh9	NC_048776	unclassified	unclassified	Lahexavirus
44	<i>A. hydrophila</i>	Aeromonas phage D3	MN102098	unclassified Myoviridae	unclassified	unclassified
45	<i>A. hydrophila</i>	Aeromonas phage D6	MN131137	unclassified Myoviridae	unclassified	unclassified
46	<i>A. hydrophila</i>	Aeromonas phage LAh10	MK838116	unclassified Myoviridae	unclassified	unclassified
47	<i>A. hydrophila</i>	Aeromonas phage CF8	MK774614	unclassified Myoviridae	unclassified	unclassified
48	<i>A. hydrophila</i>	Aeromonas phage PS1	MN032614	unclassified Myoviridae	unclassified	unclassified
49	<i>A. hydrophila</i>	Aeromonas phage PS2	MN453779	unclassified Myoviridae	unclassified	unclassified
50	<i>A. hydrophila</i>	Aeromonas phage 4L372D	NC_048771	unclassified	unclassified	Plateaulakevirus
51	<i>A. hydrophila</i>	Aeromonas phage 4_L372XY	NC_048772	unclassified	unclassified	Plateaulakevirus
52	<i>A. media</i>	Aeromonas phage phiO18P	NC_009542	Peduoviridae	-	Bielevirus
53	<i>A. popoffii</i>	Aeromonas phage AerP_220*	ON624112	Autographiviridae	-	-
54	<i>A. rivipollensis</i>	Aeromonas phage 2_D05	NC_054465	unclassified	unclassified	Kunmingvirus
55	<i>A. rivipollensis</i>	Aeromonas phage 4_D05	NC_054466	unclassified	unclassified	Kunmingvirus
56	<i>A. salmonicida</i>	Aeromonas phage phiAS7	NC_019528	Autographiviridae	Melnykvirinae	Aerosvirus
57	<i>A. salmonicida</i>	Aeromonas phage T7-Ah	MT740748	Autographiviridae	Studiervirinae	unclassified
58	<i>A. salmonicida</i>	Aeromonas phage AS- sw	NC_048674	Straboviridae	Emmerichvirinae	Ceceduovirus
59	<i>A. salmonicida</i>	Aeromonas phage AS-zj	NC_048673	Straboviridae	Emmerichvirinae	Ceceduovirus

60	<i>A. salmonicida</i>	Aeromonas phage AS-szw	MF498773	Straboviridae	Emmerichvirinae	Ceceduovirus
61	<i>A. salmonicida</i>	Aeromonas phage AS-yj	MF498774	Straboviridae	Emmerichvirinae	Ceceduovirus
62	<i>A. salmonicida</i>	Aeromonas phage 65	NC_015251	Straboviridae	Emmerichvirinae	Ishiguvirus
63	<i>A. salmonicida</i>	Aeromonas phage PX29	NC_023688	Straboviridae	-	Angelvirus
64	<i>A. salmonicida</i>	Aeromonas phage 31	NC_007022	Straboviridae	-	Biquartavirus
65	<i>A. salmonicida</i>	Aeromonas phage 44RR2.8t	NC_005135	Straboviridae	-	Biquartavirus
66	<i>A. salmonicida</i>	Aeromonas phage L9-6	KY290956.1	Straboviridae	-	Unclassified Biquartavirus
67	<i>A. salmonicida</i>	Aeromonas phage Riv-10	KY290957	Straboviridae	-	Unclassified Biquartavirus
68	<i>A. salmonicida</i>	Aeromonas phage SW69-9	KY290958	Straboviridae	-	Unclassified Biquartavirus
69	<i>A. salmonicida</i>	Aeromonas phage phiAS5	NC_014636	Straboviridae	-	Chrysonvirus
70	<i>A. salmonicida</i>	Aeromonas phage 25	NC_008208	Straboviridae	-	Tulanevirus
71	<i>A. salmonicida</i>	Aeromonas phage phiAS4	NC_014635	Straboviridae	-	Tulanevirus
72	<i>A. salmonicida</i>	Aeromonas phage AS-gz	NC_042019	Straboviridae	-	Tulanevirus
73	<i>A. salmonicida</i>	Aeromonas phage vB_AsM_ZHF	MW584871	Straboviridae	-	Tulanevirus
74	<i>A. salmonicida</i>	Aeromonas phage Aes508	NC_019543	Straboviridae	-	Tulanevirus
75	<i>A. salmonicida</i>	Aeromonas phage Asp37	KY290949	unclassified Myoviridae	unclassified	unclassified
76	<i>A. salmonicida</i>	Aeromonas phage 51	KY290953	unclassified	unclassified	Popoffvirus
77	<i>A. salmonicida</i>	Aeromonas phage vB_AsaM-56	NC_019527	unclassified	unclassified	Popoffvirus
78	<i>A. salmonicida</i>	Aeromonas phage PS	MT259468	Autographiviridae	unclassified	unclassified
79	<i>Aeromonas</i> sp.	Aeromonas phage phiA8-29	NC_048660	Ackermannviridae	-	Tedavirus
80	<i>Aeromonas</i> spp.	Aeromonas phage Atoyac1	MT682386	Autographiviridae	Melnykvirinae	unclassified
81	<i>Aeromonas</i> spp.	Aeromonas phage Atoyac10	MT682387	Autographiviridae	Melnykvirinae	unclassified
82	<i>Aeromonas</i> spp.	Aeromonas phage Atoyac13	MT682388	Autographiviridae	Melnykvirinae	unclassified
83	<i>Aeromonas</i> spp.	Aeromonas phage Atoyac14	MT682389	Autographiviridae	Melnykvirinae	unclassified
84	<i>Aeromonas</i> spp.	Aeromonas phage Atoyac15	MT682390	Autographiviridae	Melnykvirinae	unclassified
85	<i>Aeromonas</i> spp.	Aeromonas phage Atoyac23	MT682391	Autographiviridae	Melnykvirinae	unclassified
86	<i>Aeromonas</i> sp.	Aeromonas phage vB_AspA_Tola	OM913599	Autographiviridae	unclassified	unclassified
87	<i>Aeromonas</i> sp.	Aeromonas phage Bolek	OM913597	Autographiviridae	unclassified	unclassified
88	<i>Aeromonas</i> sp.	Aeromonas phage Lolek	OM913598	Autographiviridae	unclassified	unclassified
89	<i>Aeromonas</i> sp.	Aeromonas phage pAEv1812	OL964754	Casjensviridae	-	unclassified Sharonstreetvirus

90	<i>Aeromonas</i> sp.	Aeromonas phage Aes012	NC_020879	Straboviridae	-	Tulanevirus
91	<i>Aeromonas</i> sp.	Aeromonas phage pIS4-A	NC_042037	-	Brucestockervirinae	Roufvirus
92	<i>Aeromonas</i> sp.	Aeromonas phage pAEv1818	OL964755	unclassified Siphoviridae	unclassified	unclassified
93	<i>A.veronii</i>	Aeromonas phage BUCT695	OL799327	unclassified Podoviridae	unclassified	unclassified
94	<i>A. veronii</i>	Aeromonas phage BUCT696	OL770365	Chaseviridae	Nefertitvirinae	unclassified Pahsextavirus

*the investigated phage AerP_220