

A. Analyzed phages

Phage name:	Current NCBI Taxonomy	Seq. Lenght	Accesion	Reference
Bacillus phage B4	...Myoviridae	162596	NC_018863.1	[d.s.]
Bacillus phage B5S	...Myoviridae	162598	JN797796.1	[d.s.]
Bacillus phage BCP78	...Myoviridae	156176	NC_018860.1	[S1]
Bacillus phage BCU4	...Myoviridae	154371	JN797798.1	[d.s.]
Bacillus phage BPS13	...Myoviridae	158305	NC_018857.1	[S2]
Bacillus phage phiAGATE	...Caudovirales	147175	NC_020081.1	[d.s.]
Bacillus phage W.Ph.	...Myoviridae	156897	NC_016563.1	[d.s.]
Staphylococcus phage JD007	...Myoviridae	141836	NC_019726.1	[S3]

B. Other Spounavirinae

Phage name:	Current NCBI Taxonomy	Seq. Lenght	Accession	Reference
Bacillus phage Bastille	...Spounavirinae; SPO1-like viruses; unclassified SPO1-like viruses	153962	NC_018856.1	[d.s.]
Bacillus phage SPO1	...Spounavirinae; SPO1-like viruses	132562	NC_011421.1	[d.s.]
Brochothrix phage A9	...Spounavirinae; unclassified Spounavirinae	127065	NC_015253.1	[S4]
Enterococcus phage phiEF24C	...Spounavirinae; unassigned Spounavirinae	142072	NC_009904.1	[S5]
Lactobacillus phage LP65	...Spounavirinae; unassigned Spounavirinae	131522	NC_006565.1	[S6]
Listeria phage A511	...Spounavirinae; Twortlikevirus	137619	NC_009811.2	[S7]
Listeria phage P100	...Spounavirinae; Twortlikevirus	131384	DQ004855.1	[S8]
Staphylococcus phage 676Z	...Spounavirinae; Twortlikevirus; unclassified Twortlikevirus	140115	JX080302.1	[S9]
Staphylococcus phage A3R	...Spounavirinae; Twortlikevirus; unclassified Twortlikevirus	132712	JX080301.1	[S9]
Staphylococcus phage A5W	...Spounavirinae; Twortlikevirus	137083	EU418428.1	[d.s.]
Staphylococcus phage Fi200W	...Spounavirinae; unclassified Spounavirinae	140079	JX080303.1	[S9]
Staphylococcus phage G1	...Spounavirinae; Twortlikevirus	138715	NC_007066.1	[S10]
Staphylococcus phage GH15	...Spounavirinae; Twortlikevirus; unclassified Twortlikevirus	139806	NC_019448.1	[S11]
Staphylococcus phage ISP	...Spounavirinae; Twortlikevirus	138339	FR852584.1	[S12]
Staphylococcus phage K	...Spounavirinae; Twortlikevirus	127395	NC_005880.1	[S13]
Staphylococcus phage MSA6	...Spounavirinae; unclassified Spounavirinae	140194	JX080304.1	[S9]
Staphylococcus phage P4W	...Spounavirinae; unclassified Spounavirinae	139173	JX080305.1	[S9]
Staphylococcus phage Sb-1	...Spounavirinae; SPO1-like viruses; unclassified SPO1-like viruses	127188	HQ163896.1	[S14]
Staphylococcus phage Staph1N	...Spounavirinae; unclassified Spounavirinae	137192	JX080300.1	[S9]
Staphylococcus phage Twort	...Spounavirinae; Twortlikevirus	130706	NC_007021.1	[S10]

C. Other Myoviridae

Phage name:	Current NCBI Taxonomy	Seq. Length	Accession	Reference
Acinetobacter phage 133	...Tevenvirinae; T4likevirus	159801	NC_015250.1	[S15]
Acinetobacter phage Ac42	...Tevenvirinae; T4likevirus	167716	NC_014660.1	[S15]
Acinetobacter phage Acj9	...Tevenvirinae; T4likevirus	169947	NC_014663.1	[S15]
Acinetobacter phage Acj61	...Tevenvirinae; T4likevirus	164093	NC_014661.1	[S15]
Acinetobacter phage ZZ1	...Myoviridae	166682	NC_018087.1	[S16]
Aeromonas phage 25	...Tevenvirinae; T4likevirus	161475	NC_008208.1	[S17]
Aeromonas phage 31	...Tevenvirinae; T4likevirus	172963	NC_007022.1	[S17]
Aeromonas phage 44RR2.8t	...Tevenvirinae; T4likevirus	173591	NC_005135.1	[S18]
Aeromonas phage 65	...Tevenvirinae; T4likevirus	235229	NC_015251.1	[S15]
Aeromonas phage Aeh1	...Tevenvirinae; T4likevirus	233234	NC_005260.1	[S18]
Aeromonas phage Aes508	...Tevenvirinae; T4likevirus	160646	NC_019543.1	[d.s.]
Aeromonas phage CC2	...Tevenvirinae; T4likevirus	231743	NC_019538.1	[S19]
Aeromonas phage phiAS4	...Tevenvirinae; T4likevirus	163875	NC_014635.1	[S20]
Aeromonas phage phiAS5	...Tevenvirinae; T4likevirus	225268	NC_014636.1	[S21]
Aeromonas phage phiO18P	...Peduovirinae; Hpunalikevirus	33985	NC_009542.2	[d.s.]
Aeromonas phage vB_AsaM-56	...Myoviridae	43551	NC_019527.1	[S22]
Aggregatibacter phage S1249	...Myoviridae	43970	NC_013597.1	[S23]
Agrobacterium phage 7-7-1	...Myoviridae	69391	NC_019519.1	[d.s.]
Bacillus phage 0305phi8-36	...Myoviridae	218948	NC_009760.1	[S24] [S25]
Bacillus phage BCD7	...Myoviridae	93839	NC_019515.1	[d.s.]
Bacillus phage SP10	...Myoviridae	143986	NC_019487.1	[S26]
Bdellovibrio phage phi1402	...Myoviridae	23931	NC_015721.1	[S27]
Bdellovibrio phage phi1422	...Myoviridae	45354	NC_019525.1	[S22]
Burkholderia phage Bcep1	...Myoviridae	48177	NC_005263.2	[S28]
Burkholderia phage Bcep43	...Myoviridae	48024	NC_005342.2	[S28]
Burkholderia phage Bcep781	...Myoviridae	48247	NC_004333.2	[S28]
Burkholderia phage BcepB1A	...Myoviridae	47399	NC_005886.2	[S28]
Burkholderia phage BcepF1	...Myoviridae	72415	NC_009015.1	[d.s.]
Burkholderia phage BcepMu	...Myoviridae	36748	NC_005882.1	[S29]
Burkholderia phage BcepNY3	...Myoviridae	47382	NC_009604.1	[d.s.]
Burkholderia phage KL3	...Peduovirinae; P2likeviruses	40555	NC_015266.1	[S30]
Burkholderia phage KS5	...Peduovirinae; P2likeviruses	37236	NC_015265.1	[S30]
Burkholderia phage KS10	...Myoviridae	37635	NC_011216.1	[S31]
Burkholderia phage KS14	...Peduovirinae; P2likeviruses	32317	NC_015273.1	[S30]
Burkholderia phage phi52237	...Peduovirinae; P2likeviruses	37639	NC_007145.2	[d.s.]
Burkholderia phage phiE12-2	...Peduovirinae; P2likeviruses	36690	NC_009236.1	[d.s.]
Burkholderia phage phiE202	...Peduovirinae; P2likeviruses	35741	NC_009234.1	[d.s.]
Burkholderia phage phiE255	...Myoviridae	37446	NC_009237.1	[d.s.]
Campylobacter phage CP21	...Myoviridae	182833	NC_019507.1	[S32]
Campylobacter phage CPX	...Myoviridae	132662	NC_016562.1	[d.s.]
Campylobacter phage NCTC12673	...Myoviridae	135041	NC_015464.1	[S33]
Clostridium phage c-st	...Myoviridae	185683	NC_007581.1	[S34]
Clostridium phage phiC2	...Myoviridae	56538	NC_009231.1	[S35]
Clostridium phage phiCD27	...Myoviridae	50930	NC_011398.1	[S36]
Clostridium phage phiCD119	...Myoviridae	53325	NC_007917.1	[S37]
Clostridium phage phiMMP02	...Myoviridae	48396	NC_019421.1	[S38]
Clostridium phage phiMMP04	...Myoviridae	31674	NC_019422.1	[S38]
Cronobacter phage CR3	...Myoviridae	149273	NC_017974.1	[S39]
Cronobacter phage ENT47670	...Myoviridae	47611	NC_019927.1	[d.s.]
Cronobacter phage vB_CsaM_GAP31	...Myoviridae	147940	NC_019400.1	[S40]
Cronobacter phage vB_CsaM_GAP32	...Myoviridae	358663	NC_019401.1	[d.s.]
Cronobacter phage vB_CsaM_GAP161	...Tevenvirinae; T4likevirus	178193	NC_019398.1	[S41]
Cyanophage S-TIM5	...Myoviridae	161440	NC_019516.1	[S42]
Deftia phage phiW-14	...Myoviridae	157486	NC_013697.1	[d.s.]
Enterobacteria phage Bp7	...Tevenvirinae; T4likevirus	168066	NC_019500.1	[S43]
Enterobacteria phage CC31	...Tevenvirinae; T4likevirus	165540	NC_014662.1	[S15]
Enterobacteria phage HX01	...Tevenvirinae; T4likevirus	169158	NC_018855.1	[S44]
Enterobacteria phage IME08	...Tevenvirinae; T4likevirus	172253	NC_014260.1	[S45] [S46]
Enterobacteria phage ime09	...Tevenvirinae; T4likevirus	166499	NC_019503.1	[d.s.]
Enterobacteria phage JS10	...Tevenvirinae; T4likevirus	171451	NC_012741.1	[S47]
Enterobacteria phage JS98	...Tevenvirinae; T4likevirus	170523	NC_010105.1	[S48] [S49]
Enterobacteria phage JSE	...Tevenvirinae; T4likevirus	166418	NC_012740.1	[S47]
Enterobacteria phage Mu	...Muliikevirus	36717	NC_000929.1	[S50]

C. Other Myoviridae (continued)

Phage name:	Current NCBI Taxonomy	Seq. Length	Accession	Reference
Enterobacteria phage P1	...Punalikevirus	94800	NC_005856.1	[S51]
Enterobacteria phage P2	...Peduovirinae; P2likeviruses	33593	NC_001895.1	[S52] - [S74]
Enterobacteria phage P4	...Peduovirinae; P2likeviruses	11624	NC_001609.1	[S58] [S75] [S76]
Enterobacteria phage Phi1	...Tevenvirinae; T4likevirus	164270	NC_009821.1	[S77]
Enterobacteria phage phiEcoM-GJ1	...Myoviridae	52975	NC_010106.1	[S78]
Enterobacteria phage phiP27	...Myoviridae	42575	NC_003356.1	[S79]
Enterobacteria phage PsP3	...Peduovirinae; P2likeviruses	30636	NC_005340.1	[S80] [S81]
Enterobacteria phage RB14	...Tevenvirinae; T4likevirus	165429	NC_012638.1	[d.s.]
Enterobacteria phage RB16	...Tevenvirinae; T4likevirus	176788	NC_014467.1	[S15]
Enterobacteria phage RB32	...Tevenvirinae; T4likevirus	165890	NC_008515.1	[d.s.]
Enterobacteria phage RB43	...Tevenvirinae; T4likevirus	180500	NC_007023.1	[d.s.]
Enterobacteria phage RB49	...Tevenvirinae; T4likevirus	164018	NC_005066.1	[S18] [S82] [S83] [S84] [S85] [S86]
Enterobacteria phage RB51	...Tevenvirinae; T4likevirus	168394	NC_012635.1	[d.s.]
Enterobacteria phage RB69	...Tevenvirinae; T4likevirus	167560	NC_004928.1	[S18] [S87] [S88] [S89]
Enterobacteria phage SfV	...Myoviridae	37074	NC_003444.1	[S90] [S91] [S92]
Enterobacteria phage T4	...Tevenvirinae; T4likevirus	168903	NC_000866.4	[S93] - [S184]
Enterobacteria phage vB_EcoM_ACG-C40	...Tevenvirinae; T4likevirus	167396	NC_019399.1	[d.s.]
Enterobacteria phage vB_EcoM-FV3	...Myoviridae	136947	NC_019517.1	[S185]
Enterobacteria phage vB_EcoM-VR7	...Tevenvirinae; T4likevirus	169285	NC_014792.1	[S186] [S187]
Enterobacteria phage vB_KleM-RaK2	...Myoviridae	345809	NC_019526.1	[S188]
Erwinia phage ENT90	...Myoviridae	29564	NC_019932.1	[d.s.]
Erwinia phage phiEa21-4	...Myoviridae	84576	NC_011811.1	[S189]
Erwinia phage phiEa104	...Myoviridae	84565	NC_015292.1	[S190]
Erwinia phage phiEt88	...Myoviridae	47279	NC_015295.1	[S190]
Erwinia phage vB_EamM-Y2	...Myoviridae	56621	NC_019504.1	[S191]
Escherichia phage Cba120	...Myoviridae	157304	NC_016570.1	[d.s.]
Escherichia phage D108	...Muliikevirus; unclassified Mu-like viruses	37235	NC_013594.1	[d.s.]
Escherichia phage Phax1	...Myoviridae	156628	NC_019452.1	[d.s.]
Escherichia phage wV7	...Tevenvirinae; T4likevirus	166452	NC_019505.1	[S192]
Escherichia phage wV8	...Myoviridae	88487	NC_012749.1	[S193]
Haemophilus phage Aaphi23	...Myoviridae	43033	NC_004827.1	[S194]
Haemophilus phage HP1	...Peduovirinae; Hpunalikevirus	32355	NC_001697.1	[S195] [S196] [S197] [S198] [S199] [S200]
Haemophilus phage HP2	...Peduovirinae; Hpunalikevirus	31508	NC_003315.1	[S201]
Haemophilus phage SuMu	...Muliikevirus; unclassified Mu-like viruses	37151	NC_019455.1	[S202] [S203]
Halocynthia phage JM-2012	...Myoviridae	167292	NC_017975.1	[d.s.]
Halomonas phage phiHAP-1	...Myoviridae	39245	NC_010342.1	[S204]
Iodobacteriophage phiPLPE	...Myoviridae	47453	NC_011142.1	[S205]
Klebsiella phage KP15	...Tevenvirinae; T4likevirus	174436	NC_014036.1	[d.s.]
Lactobacillus phage KC5a	...Myoviridae	38239	NC_007924.1	[d.s.]
Lactobacillus phage Lb338-1	...Myoviridae	142111	NC_012530.1	[S206]
Mannheimia phage phiMHaA1	...Peduovirinae; P2likeviruses	34525	NC_008201.1	[S207]
Microcystis aeruginosa phage Ma-LMM01	...Myoviridae	162109	NC_008562.1	[S208]
Mycobacterium phage Bxz1	...I3likevirus; unclassified I3-like viruses	156102	NC_004687.1	[S209]
Mycobacterium phage Cali	...I3likevirus; unclassified I3-like viruses	155372	NC_011271.1	[d.s.]
Mycobacterium phage Catera	...I3likevirus; unclassified I3-like viruses	153766	NC_008207.1	[S210]
Mycobacterium phage ET08	...I3likevirus; unclassified I3-like viruses	155445	NC_013650.1	[S211]
Mycobacterium phage Myrna	...Myoviridae	164602	NC_011273.1	[d.s.]
Mycobacterium phage Rizal	...I3likevirus; unclassified I3-like viruses	153894	NC_011272.1	[d.s.]
Mycobacterium phage ScottMcG	...I3likevirus; unclassified I3-like viruses	154017	NC_011269.1	[d.s.]
Mycobacterium phage Spud	...I3likevirus; unclassified I3-like viruses	154906	NC_011270.1	[d.s.]
Natrialba phage PhiCh1	...Myoviridae	58498	NC_004084.1	[S212] [S213] [S214]
Pasteurella phage F108	...Peduovirinae; Hpunalikevirus	30505	NC_008193.1	[S215]
Pectobacterium phage ZF40	...Myoviridae	48454	NC_019522.1	[S22]
Prochlorococcus phage P-HM1	...Myoviridae	181044	NC_015280.1	[S216]
Prochlorococcus phage P-HM2	...Myoviridae	183806	NC_015284.1	[S216]
Prochlorococcus phage P-RSM4	...Myoviridae	176428	NC_015283.1	[S216]
Prochlorococcus phage P-SSM2	...Tevenvirinae; T4likevirus	252401	NC_006883.2	[S216] [S217]
Prochlorococcus phage P-SSM4	...Tevenvirinae; T4likevirus	178249	NC_006884.2	[S216] [S217]
Prochlorococcus phage P-SSM7	...Myoviridae	182180	NC_015290.1	[S216]
Pseudomonas phage 14-1	...Myoviridae	66235	NC_011703.1	[S218]
Pseudomonas phage 201phi2-1	...Phikzlikevirus; unclassified phiKZ-like viruses	316674	NC_010821.1	[S219] [S220]
Pseudomonas phage EL	...Phikzlikevirus	211215	NC_007623.1	[S221] [S222] [S223] [S224]
Pseudomonas phage F8	...Myoviridae	66015	NC_007810.1	[S225]

C. Other *Myoviridae* (continued)

Phage name:	Current NCBI Taxonomy	Seq. Length	Accession	Reference
Pseudomonas phage JG004	...Myoviridae	93017	NC_019450.1	[S226]
Pseudomonas phage JG024	...Myoviridae	66275	NC_017674.1	[S227]
Pseudomonas phage KPP10	...Myoviridae	88322	NC_015272.1	[S228]
Pseudomonas phage KPP12	...Myoviridae	64144	NC_019935.1	[S229]
Pseudomonas phage LBL3	...Myoviridae	64427	NC_011165.1	[S218] [S230]
Pseudomonas phage LMA2	...Myoviridae	66530	NC_011166.1	[S218] [S230]
Pseudomonas phage Lu11	...Myoviridae	280538	NC_017972.1	[S231]
Pseudomonas phage NH-4	...Myoviridae	66116	NC_019451.1	[S232]
Pseudomonas phage OBP	...Myoviridae	284757	NC_016571.1	[S233]
Pseudomonas phage PAK_P1	...Myoviridae	93398	NC_015294.1	[S234]
Pseudomonas phage PaP1	...Myoviridae	91715	NC_019913.1	[d.s.]
Pseudomonas phage PB1	...Myoviridae	65764	NC_011810.1	[S218]
Pseudomonas phage phiCTX	...Peduovirinae; P2likeviruses	35580	NC_003278.1	[S235] [S236] [S237]
Pseudomonas phage phiKZ	...Phikzlikevirus	280334	NC_004629.1	[S238] [S239]
Pseudomonas phage SN	...Myoviridae	66390	NC_011756.1	[S218]
Pseudomonas phage vB_PaeM_C2-10_Ab1	...Myoviridae	92777	NC_019918.1	[d.s.]
Ralstonia phage RSA1	...Peduovirinae; P2likeviruses	38760	NC_009382.1	[S240]
Ralstonia phage RSL1	...Myoviridae	231255	NC_010811.2	[S241]
Rhodothermus phage RM378	...Myoviridae	129908	NC_004735.1	[S242]
Salmonella phage FelixO1	...Myoviridae	86155	NC_005282.1	[d.s.]
Salmonella phage Fels-2	...Peduovirinae; P2likeviruses	33693	NC_010463.1	[S243]
Salmonella phage PhiSH19	...Myoviridae	157785	NC_019530.1	[S244]
Salmonella phage PVP-SE1	...Myoviridae	145964	NC_016071.1	[S245]
Salmonella phage RE-2010	...Myoviridae	34117	NC_019488.1	[S246]
Salmonella phage SFP10	...Myoviridae	157950	NC_016073.1	[S247]
Salmonella phage SKML-39	...Myoviridae	159624	NC_019910.1	[d.s.]
Salmonella phage Vil	...Myoviridae	157061	NC_015296.1	[S248]
Shigella phage Ag3	...Myoviridae	158006	NC_013693.1	[d.s.]
Shigella phage Shf12	...Tevenvirinae; T4likevirus	165919	NC_015457.1	[d.s.]
Shigella phage SP18	...Tevenvirinae; T4likevirus	170605	NC_014595.1	[S249]
Sphingomonas phage PAU	...Myoviridae	219372	NC_019521.1	[d.s.]
Streptococcus phage EJ-1	...Myoviridae	42935	NC_005294.1	[S250] [S251]
Synechococcus phage metaG-MbCM1	...Tevenvirinae; T4likevirus	172879	NC_019443.1	[d.s.]
Synechococcus phage S-CRM01	...Myoviridae	178563	NC_015569.1	[S252]
Synechococcus phage S-MbCM6	...Tevenvirinae; T4likevirus	176043	NC_019444.1	[d.s.]
Synechococcus phage S-PM2	...Tevenvirinae; T4likevirus	196280	NC_006820.1	[S253] [S254]
Synechococcus phage S-RSM4	...Tevenvirinae; T4likevirus	194454	NC_013085.1	[S255]
Synechococcus phage S-ShM2	...Myoviridae	179563	NC_015281.1	[S216]
Synechococcus phage S-SM1	...Myoviridae	174079	NC_015282.1	[S216]
Synechococcus phage S-SM2	...Myoviridae	190789	NC_015279.1	[S216]
Synechococcus phage S-SSM5	...Myoviridae	176184	NC_015289.1	[S216]
Synechococcus phage S-SSM7	...Myoviridae	232878	NC_015287.1	[S216]
Synechococcus phage syn9	...Tevenvirinae; T4likevirus	177300	NC_008296.2	[S256]
Synechococcus phage Syn19	...Myoviridae	175230	NC_015286.1	[S216]
Thermus phage phiYS40	...Myoviridae	152372	NC_008584.1	[S257]
Thermus phage TMA	...Myoviridae	151483	NC_015937.1	[S258]
Vibrio phage CP-T1	...Myoviridae	44492	NC_019457.1	[S22]
Vibrio phage ICP1	...Myoviridae	125956	NC_015157.1	[S259]
Vibrio phage K139	...Peduovirinae; Hpunalikevirus	33106	NC_003313.1	[S260] [S261] [S262]
Vibrio phage kappa	...Peduovirinae; Hpunalikevirus	33134	NC_010275.1	[d.s.]
Vibrio phage KVP40	...Tevenvirinae; Schizot4likevirus	244834	NC_005083.2	[S263]
Vibrio phage vB_VchM-138	...Myoviridae	44485	NC_019518.1	[S22]
Vibrio phage vB_VpaM_MAR	...Myoviridae	41351	NC_019722.1	[S264]
Vibrio phage vB_VpaS_MAR10	...Myoviridae	78751	NC_019713.1	[S265]
Vibrio phage VHML	...VHML-like phages	43198	NC_004456.1	[S266]
Vibrio phage VP882	...Myoviridae	38197	NC_009016.1	[S267]
Xanthomonas phage OP2	...Myoviridae	46643	NC_007710.1	[S268]
Xanthomonas phage vB_XveM_DIBBI	...Myoviridae	49981	NC_017981.1	[d.s.]
Yersinia phage L-413C	...Peduovirinae; P2likeviruses	30728	NC_004745.1	[d.s.]
Yersinia phage phiR1-37	...Myoviridae	262391	NC_016163.1	[S269]
Yersinia phage phiR1-RT	...Myoviridae	168809	NC_019909.1	[d.s.]

D. References

- S1. Lee JH, Shin H, Son B, Ryu S (2012) Complete Genome Sequence of Bacillus cereus Bacteriophage BCP78J Virol 86 (1):637-638
- S2. Park J, Yun J, Lim JA, Kang DH, Ryu S (2012) Characterization of an endolysin, LysBPS13, from a Bacillus cereus bacteriophage FEMS Microbiol Lett 332 (1):76-83
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