

**Table S1 – Characteristics of all sequenced dsNA bacteriophages endolysins identified.**

Gram Positive Host	CODE	Phage name	protein ID	Size (aa)	SAR	N-terminal	Prob	E-Value	Middle	Prob	E-Value	C-terminal	Prob	E-value	Phage classification
Actinomyces	Ac1PpS5	Actinomyces phage Av-1	YP_001333671.1	272		NLPC_P60	99.5	1.2E-14				PG_binding_1	99.3	1.0E-12	Podoviridae; picovirinae; unassigned picovirinae
Bacillus	Ba1MpD913	Bacillus phage 0305phi8-36	YP_001429728.1	368		Glyco_hydro_25	100.0	2.0E-44	SH3b.	97.3	9.2E-04	SH3_3	98.3	8.3E-07	Myoviridae
	Ba2OpJ92	Bacillus phage AP50	YP_002302543.1	252		Amidase_3	100.0	1.8E-45				SPOR	99.1	1.8E-10	Tectiviridae; tectivirus; unclassified tectivirus
	Ba3PpA22	Bacillus phage B103	NP_690649.1	263		Phage_lysozyme	99.9	5.2E-27				LysM	99.1/99.4	1.8E-11/6.1E-14	Podoviridae; picovirinae; Phi29-like viruses
	Ba4OpD	Bacillus phage Bam35c	NP_943776.1	265		Glyco_hydro_25	100.0	1.1E-45							Tectiviridae; tectivirus
	Ba5SpJ55	Bacillus phage BCJA1c	YP_164437.1	355		Amidase_3	100.0	1.9E-42	PG_binding_1	99.6	7.3E-16	PG_binding_1	98.3	2.2E-07	Siphoviridae
	Ba6SpK1	Bacillus phage Cherry	YP_338149.1	233		Amidase_2	100.0	2.6E-29				Amidase02_C	99.8	4.4E-19	Siphoviridae
	Ba7SpK1	Bacillus phage Fah	YP_512326.1	233		Amidase_2	100.0	2.6E-29				Amidase02_C	99.8	4.4E-19	Siphoviridae
	Ba8PpJ2	Bacillus phage GA-1	NP_073698.1	239		Amidase_3	100.0	5.6E-47				LysM	99.4	2.4E-14	Podoviridae; picovirinae; Phi29-like viruses
	Ba9SpK1	Bacillus phage Gamma	YP_338200.1	233		Amidase_2	100.0	2.6E-29				Amidase02_C	99.8	4.4E-19	Siphoviridae
	Ba10OpJ92	Bacillus phage GIL16c	YP_224129.1	288		Amidase_3	100.0	1.0E-43				SPOR	99.3	7.2E-12	Tectiviridae; Tectivirus; unclassified Tectivirus
	Ba11SpK1	Bacillus phage IEBH	YP_002154393.1	250		Amidase_2	99.9	9.6E-29				Amidase02_C	99.8	6.8E-21	Siphoviridae
	Ba12XpK33	Bacillus phage phBC6A51	NP_852545.1	354		Amidase_2	99.9	1.7E-27				SH3_3	99.1/99.3	6E-11/3E-12	Viruses; unclassified phages.
	Ba13XpD1	Bacillus phage phBC6A52	NP_852605.1	272		Glyco_hydro_25	100.0	3.8E-47				Amidase02_C	99.8	6.6E-21	Viruses; unclassified phages
	Ba14PpA22	Bacillus phage phi29	YP_002004544.1	258		Phage_lysozyme	100.0	2.5E-30				LysM	99.0/99.3	1.1E-10/6.2E-13	Podoviridae; picovirinae; Phi29-like viruses
	Ba15SpK33	Bacillus phage Spbeta	NP_046578.1	367		Amidase_2	99.9	6.4E-27				SH3_3	99.1/99.5	4.1E-11/1.7E-14	Siphoviridae; SPbeta-like viruse
	Ba16MpM55	Bacillus phage SPO1	YP_002300379.1	343		VanY	99.9	8.0E-23				PG_binding_1	99.5/99.4	3.1E-14/1.2E-13	Myoviridae;SPO1-like viruses
	Ba17SpJ2	Bacillus phage SPP1	NP_690702.1	271		Amidase_3	100.0	4.9E-47	LysM	96.9	4.5E-04				Siphoviridae;Lambda-like viruses; unclassified Lambda-like viruses
	Ba18SpK4	Bacillus phage TP21-L	YP_002333580.1	269		Amidase_2	99.9	5.7E-28				SH3_5	99.8	2.9E-19	Siphoviridae
	Ba19SpK1	Bacillus phage WBeta	YP_459981.1	233		Amidase_2	100.0	2.6E-29				Amidase02_C	99.8	4.4E-19	Siphoviridae
	Ba20PpA22	Bacillus amyloliquefaciens phage Morita2001	AAK40280.1	258		Phage_lysozyme	100.0	8.7E-31	LysM	99.0	9.6E-11	LysM	99.3	3.5E-13	Podoviridae
Ba21PpA22	Bacillus phage Nf	ACH57083.1	262		Phage_lysozyme	99.9	5.8E-26	LysM	99.1	4.3E-11	LysM	99.4	5.6E-14	Podoviridae; Picovirinae; Phi29-like viruses.	
Ba22MpK4	Bacillus phage W.Ph.	YP_004957016.1	276		Amidase_2	99.9	8.6E-28				SH3_5	99.8	2.5E-19	Myoviridae	
Ba23MpM5	Bacillus phage SP10	BAK52943.1	236		VanY	99.8	1.1E-20				PG_binding_1	99.6	4.9E-15	Myoviridae	
Ba24PpA22	Bacillus phage PZA	P07540.1	258		Phage_lysozyme	100.0	3.8E-31	LysM	99.0	8.6E-11	LysM	99.4	2.3E-13	Podoviridae; Picovirinae; Phi29-like viruses	
Ba25SpJ4	Bacillus phage BCP78	AEW47021.1	272		Amidase_3	100.0	1.5E-44				SH3_5	99.6	1.5E-15	Siphoviridae.	
Brochothrix	Br1MpK4	Brochothrix phage A9	YP_004301385.1	280		Amidase_2	99.9	4.2E-27				SH3_5	99.9	6.5E-23	Myoviridae;Spounavirinae; unclassified Spounavirinae
	Br2SpK4	Brochothrix phage BL3	YP_004301557.1	273		Amidase_2	99.9	5.7E-28				SH3_5	99.9	2.3E-22	Siphoviridae
	Br3SpK5	Brochothrix phage NF5	YP_004301299.1	251		Amidase_2	100.0	6.3E-29				PG_binding_1	98.3	1.5E-07	Siphoviridae
Clostridium	Cl1XpJ	Clostridium phage phiCP39-O	P_002265435.1	213		Amidase_3	100.0	2.9E-45							Viruses; unclassified phages
	Cl2MpK5	Clostridium phage c-st	YP_398585.1	309		Amidase_2	99.9	1.5E-25	PG_binding_1	99.6	7.8E-16				Myoviridae
	Cl3MpJ	Clostridium phage phi CD119	YP_529586.1	271		Amidase_3	100.0	1.6E-42							Myoviridae
	Cl4SpJ33	Clostridium phage phi3626	NP_612849.1	347		Amidase_3	100.0	2.2E-44	SH3_3	98.2	7.9E-07	SH3_3	99.0	3.7E-10	Siphoviridae
	Cl5MpJ	Clostridium phage phiC2	YP_001110754.1	270		Amidase_3	100.0	1.5E-43							Myoviridae
	Cl6MpJ	Clostridium phage phiCD27	YP_002290910.1	270		Amidase_3	100.0	5.9E-43							Myoviridae
	Cl7SpJ1	Clostridium phage phiCD38-2	YP_004508401.1	268		Amidase_3	100.0	3.7E-44				Amidase02_C	98.2	1.2E-06	Siphoviridae
	Cl8SpJ1	Clostridium phage phiCD6356	YP_004306129.1	268		Amidase_3	100.0	2.7E-44				Amidase02_C	98.3	9.3E-07	Siphoviridae
	Cl9SpD7	Clostridium phage phiCTP1	YP_003856822.1	274		Glyco_hydro_25	100.0	4.9E-48	Cpl-7	97.8	4.2E-06				Siphoviridae
	Cl10XpJ3	Clostridium phage D-1873	ZP_04863759.1	249		Amidase_3	100.0	1.9E-44				SH3_3	96.1	7.6E-04	Viruses; unclassified phages
	Cl11XpD33	Clostridium phage phiSM101	YP_699978.1	342		Glyco_hydro_25	100.0	2.0E-47	SH3_3	99.3	5.0E-12	SH3_3	99.2	5.4E-12	unclassified dsDNA phages
	Cl12SpJ	Clostridium phage phiCP26F	AEA86246.1	212		Amidase_3	100.0	5.5E-45							Siphoviridae.
	Cl13SpJ	Clostridium phage phiCP130	AEI74454.1	212		Amidase_3	100.0	1.5E-45							Siphoviridae.
	Cl14SpJ	Clostridium phage phiCP34O	AEI74506.1	213		Amidase_3	100.0	1.0E-45							Siphoviridae.
Cl15PpJ	Clostridium phage phi24R	AEW47846.1	212		Amidase_3	100.0	1.8E-47							Podoviridae; Picovirinae; unassigned Picovirinae.	
Corynebacterium	Co1SpK	Corynebacterium phage BFK20	YP_001456754.2	270		Amidase_2	99.9	2.6E-26							Siphoviridae
	Co2SpCT	Corynebacterium phage P1201	YP_001468954.1	502		Glyco_hydro_19	100.0	1.4E-35	Peptidase_C39_2	99.7	5.0E-16				Siphoviridae
Enterococcus	En1SpK	Enterococcus phage EFAP-1	YP_002727874.1	328		Amidase_2	99.9	1.5E-25							Siphoviridae.
	En2SpD22	Enterococcus phage phiEF11	YP_003358816.1	419		Glyco_hydro_25	100.0	6.1E-39				LysM	99.0/99.1	1.4E-10/8E-12	Siphoviridae.
	En3SpQH	Enterococcus phage phiEF11 (another)	YP_003358818.1	421		Peptidase_M23	99.9	5.5E-25	Glucosaminidase	99.9	1.2E-27				Siphoviridae.
	En4MpK	Enterococcus phage phiEF24C	YP_001504118.1	289		Amidase_2	99.9	2.6E-28							Myoviridae; SPO1-like viruses; unclassified SPO1-like viruses.
	En5SpD22	Enterococcus phage phiFL1A	YP_003347517.1	433		Glyco_hydro_25	100.0	5.3E-38				LysM	98.9/99.1	2.6E-10/3.1E-11	Siphoviridae.
	En6SpD22	Enterococcus phage phiFL2A	YP_003347352.1	433		Glyco_hydro_25	100.0	5.3E-38				LysM	98.9/99.1	2.6E-10/3.1E-11	Siphoviridae.
	En7SpD22	Enterococcus phage phiFL3A	YP_003347625.1	419		Glyco_hydro_25	100.0	4.2E-37				LysM	98.9/99.1	2.7E-10/1.4E-11	Siphoviridae.
	En8SpD22	Enterococcus phage phiFL4A	YP_003347409.1	433		Glyco_hydro_25	100.0	1.1E-38				LysM	98.9/99.1	6E-10/1E-11	Siphoviridae.
	En9SpY	Enterococcus phage SAP6	AEM24735.1	237		CHAP	99.9	8.6E-23							Siphoviridae.
Geobacillus	Ge1XpJ	Geobacillus phage GBSV1	YP_764491.1	226		Amidase_3	100.0	2.3E-48							Caudovirales.
	Ge2XpJ	Geobacillus virus E2	YP_001285830.1	233		Amidase_3	100.0	1.4E-47							Viruses; unclassified phages
	Ge3XpJ	Deep-sea thermophilic phage D6E	ADE87506.1	227		Amidase_3	100.0	4.4E-48							unclassified dsDNA phages.
Gordonia	Go1SpT	Gordonia phage GRU1	YP_004935859.1/YP_004935860.1	552		Peptidase_C39_2	99.8	2.4E-18	Glyco_hydro_19	100.0	2.5E-39				Siphoviridae.
	Go2SpP	Gordonia phage GTE2	YP_004678788.1	181					Peptidase_M15_4	99.8	3.0E-19				Siphoviridae.
	Go3SpT	Gordonia phage GTE5	YP_004935769.1/YP_004935770.1	552		Peptidase_C39_2	99.7	8.1E-16	Glyco_hydro_19	100.0	1.2E-41				Siphoviridae.
	Go4SpK	Gordonia phage GTE7	YP_004934729.1	211		Amidase_2	100.0	2.4E-29							Siphoviridae.
Lactobacillus	La1SpK666	Lactobacillus phage A2	NP_680500.1	350		Amidase_2	99.9	2.4E-25	ChW (smart/pfam)	99.3/99.5	2.3E-12/6.3E-15	ChW (pfam)	98.9	1.0E-09	Siphoviridae.
	La2SpD	Lactobacillus phage KC5a	YP_529896.1	246		Glyco_hydro_25	100.0	3.1E-45							Siphoviridae.
	La3MpD222	Lactobacillus phage Lb338-1	YP_002790806.1	491		Glyco_hydro_25	100.0	7.3E-41	LysM	99.0	2.2E-10	LysM(smart)	99.2/99.5	1.4E-11/5E-14	Myoviridae.
	La4SpD22	Lactobacillus phage Lc-Nu	YP_358779.1	432		Glyco_hydro_25	100.0	7.9E-41				LysM	98.9/99.2	7.1E-10/2E-12	Siphoviridae.
	La5SpD42	Lactobacillus phage phiAT3	YP_025045.1	393		Glyco_hydro_25	100.0	1.8E-43	SH3_5	98.4	1.3E-07	LysM	99.4	1.3E-13	Siphoviridae.
	La6SpD93	Lactobacillus phage LL-H	YP_001285906.1	298		Glyco_hydro_25	100.0	4.9E-47				SLAP	99.8	1.2E-08	Siphoviridae.
	La7MpD42	Lactobacillus phage LP65	YP_164723.1	464		Glyco_hydro_25	100.0	2.6E-41	SH3_5	98.1	2.3E-07	LysM	99.3	1.7E-12	Myoviridae; SPO1-like viruses; unclassified SPO1-like viruses.

Lactobacillus	La8SpD22	Lactobacillus phage Lrm1	YP_002117687.1	432	Glyco_hydro_25	100.0	1.1E-40			LysM	98.9/99.3	3.6E-10/1.2E-12	Siphoviridae.	
	La9SpD33	Lactobacillus phage Lv-1	YP_002455807.1	373	Glyco_hydro_25	100.0	1.2E-44			SH3_3	97.6/98.1	5.3E-05/2.1E-06	Siphoviridae.	
	La10SpD4	Lactobacillus phage phiadh	NP_050170.1	317	Glyco_hydro_25	100.0	6.1E-46			SH3_5	99.7	1.9E-18	Siphoviridae.	
	La11SpD42	Lactobacillus phage phig1e	YP_003084340.1	442	Glyco_hydro_25	100.0	1.1E-42	SH3_5	98.1	1.4E-07	LysM	99.3	2.7E-13	Siphoviridae.
	La12SpD4	Lactobacillus phage phiJL-1	YP_223905.1	398	Glyco_hydro_25	100.0	3.8E-43			SH3_5	99.7	6.2E-18	Siphoviridae.	
	La13SpD4	Lactobacillus prophage Lj928	NP_958555.1	315	Glyco_hydro_25	100.0	4.9E-47			SH3_5	99.8	8.5E-19	Siphoviridae.	
	La14SpD4	Lactobacillus prophage Lj965	NP_958600.1	310	Glyco_hydro_25	100.0	8.3E-47			SH3_5	99.8	1.1E-18	Siphoviridae.	
	La15XpD4	Lactobacillus johnsonii prophage Lj771	YP_001642397.1	300	Glyco_hydro_25	100.0	2.4E-43			SH3_5	99.9	3.3E-22	Viruses; unclassified phages	
	La16XpD	Lactobacillus helveticus phage f-0303	AAQ06663.1	373	Glyco_hydro_25	100.0	3.5E-43						Viruses; unclassified phages.	
	La17SpD4	Lactobacillus phage c5	ACA63343.1	301	Glyco_hydro_25	100.0	1.3E-45			SH3_5	99.8	4.5E-20	Siphoviridae.	
La18SpD42	Lactobacillus phage Sha1	ADW01314.1	390	Glyco_hydro_25	100.0	7.0E-43	SH3_5	97.5	2.5E-05	LysM	99.3	1.3E-12	Siphoviridae.	
Leuconostoc	Le1SpK	Leuconostoc phage 1-A4	ADD71758.1	293	Amidase_2	99.9	3.3E-28						Siphoviridae.	
Lactococcus	Lc1SpK91	Lactococcus phage SL4	ACU46783.1	174	Amidase_2	99.7	6.2E-17			SH3b	97.7	7.4E-06	Siphoviridae.	
	Lc2SpK	Lactococcus phage CB13	ACU46835.1	234	Amidase_2	99.9	1.1E-27						Siphoviridae.	
	Lc3SpK	Lactococcus phage 712	YP_764281.1	258	Amidase_2	99.9	7.5E-28						Siphoviridae.	
	Lc4SpK	Lactococcus phage P008	YP_762533.1	233	Amidase_2	99.9	2.5E-27						Siphoviridae.	
	Lc5SpK	Lactococcus phage Q54	YP_762603.1	256	Amidase_2	99.9	2.6E-27						Siphoviridae.	
	Lc6SpK	Lactococcus phage bIBB29	YP_002004009.1	233	Amidase_2	99.9	1.4E-27						Siphoviridae.	
	Lc7SpK	Lactococcus phage bIL170	NP_047135.1	233	Amidase_2	99.9	6.3E-28						Siphoviridae.	
	Lc8SpK	Lactococcus phage jj50	YP_764334.1	253	Amidase_2	99.9	1.1E-27						Siphoviridae.	
	Lc9SpK	Lactococcus phage sk1	NP_044966.1	246	Amidase_2	99.9	1.8E-27						Siphoviridae.	
	Lc10SpK66	Lactococcus phage 949	YP_004306215.1	343	Amidase_2	99.9	7.9E-26			ChW (pfam)	99.2/99.0	7.1E-12/1.2E-10	Siphoviridae.	
	Lc11PpY	Lactococcus phage ascphi28	YP_001687525.1	375	CHAP	99.6	1.3E-15						Podoviridae.	
	Lc12SpS55	Lactococcus phage bIL285	NP_076634.1	259	NLPC_P60	99.9	5.5E-25	PG_binding_1	97.7	2.0E-05	PG_binding_1	99.1	3.0E-11	Siphoviridae.
	Lc13SpS55	Lactococcus phage bIL286	NP_076695.1	259	NLPC_P60	99.9	2.1E-25	PG_binding_1	97.0	2.3E-04	PG_binding_1	99.2	1.3E-11	Siphoviridae.
	Lc14SpS55	Lactococcus phage bIL309	NP_076751.1	259	NLPC_P60	99.9	7.9E-25	PG_binding_1	97.5	6.2E-05	PG_binding_1	99.2	1.2E-11	Siphoviridae.
	Lc15SpA	Lactococcus phage bIL67	NP_042321.2	226	Phage_lysozyme	100.0	5.6E-30						Siphoviridae; c2-like viruses.	
	Lc16SpS55	Lactococcus phage BK5-T	NP_116519.1	259	NLPC_P60	99.9	4.3E-25	PG_binding_1	97.6	2.5E-05	PG_binding_1	99.1	4.4E-11	Siphoviridae.
	Lc17SpA	Lactococcus phage c2	NP_043551.1	226	Phage_lysozyme	99.9	3.3E-28						Siphoviridae; c2-like viruses.	
	Lc18PpY	Lactococcus phage KSY1	YP_001469051.1	199	CHAP	99.9	1.7E-22						Podoviridae.	
	Lc19PpK66	Lactococcus phage KSY1 (another)	YP_001469072.1	347	Amidase_2	99.9	9.9E-25			ChW (pfam)	99.2/99.1	7.6E-12/2.7E-11	Podoviridae.	
	Lc20SpK91	Lactococcus phage P087	YP_002875753.1	237	Amidase_2	99.9	8.3E-29			SH3b	97.5	4.4E-05	Siphoviridae.	
	Lc21SpD	Lactococcus phage 4268	NP_839940.1	305	Glyco_hydro_25	100.0	2.1E-44						Siphoviridae.	
	Lc22SpD22	Lactococcus phage phiLC3	NP_996722.1	429	SAR Glyco_hydro_25	100.0	1.9E-36			LysM	98.9/99.0	3.7E-10/5.7E-11	Siphoviridae.	
	Lc23SpK	Lactococcus phage r1t	NP_695077.1	270	Amidase_2	99.9	1.5E-25						Siphoviridae.	
	Lc24SpD22	Lactococcus phage TP901-1	NP_112716.1	429	SAR Glyco_hydro_25	100.0	1.7E-36			LysM	98.9/99.1	4.5E-10/1.6E-11	Siphoviridae.	
	Lc25SpD22	Lactococcus phage Tuc2009	NP_108734.1	428	Glyco_hydro_25	100.0	2.1E-38			LysM	98.9/99.1	6.8E-10/1.5E-11	Siphoviridae.	
Lc26SpD22	Lactococcus phage ul36	NP_663692.1	429	SAR Glyco_hydro_25	100.0	1.7E-36			LysM	98.9/99.1	7.4E-10/1.8E-11	Siphoviridae.		
Lc27SpD22	Lactococcus phage P335	ABI54253.1	432	SAR Glyco_hydro_25	100.0	5.2E-43			LysM	98.9/99.0	5.3E-10/4.9E-11	Siphoviridae.		
Lc28XpY4	Lactococcus phage 1358	ADD25719.1	233	CHAP	99.8	1.4E-19			SH3_5	99.9	8.7E-26	Viruses; unclassified phages.		
Listeria	Li1SpJ3	Listeria phage 2389	NP_511002.1	314	Amidase_3	100.0	6.4E-44	SH3_3	97.5	8.2E-05			Siphoviridae.	
	Li2SpM	Listeria phage A006	YP_001468860.1	235	VanY	99.9	1.2E-25						Siphoviridae.	
	Li3SpMX	Listeria phage A118	NP_463486.1	281	VanY	99.9	2.6E-24	DUF3597	99.5	7.6E-15			Siphoviridae.	
	Li4SpM9	Listeria phage A500	YP_001468411.1	289	VanY	99.8	5.5E-22			SH3-related domain	100.0	4.4E-54	Siphoviridae.	
	Li5MpK	Listeria phage A511	YP_001468459.1	341	Amidase_2	99.9	9.9E-26						Myoviridae; SPO1-like viruses; unclassified SPO1-like viruses.	
	Li6SpM33	Listeria phage B025	YP_001468664.1	276	VanY	99.9	2.9E-26	SH3_3	99.4	3.6E-13	SH3_3	99.4	8.4E-14	Siphoviridae.
	Li7SpJ90	Listeria phage B054	YP_001468737.1	321	Amidase_3	100.0	3.6E-45			FOG	99.8	4.0E-19	Siphoviridae.	
	Li8SpM33	Listeria phage P35	YP_001468812.1	291	VanY	99.9	1.1E-24			SH3_3	96.9/97.9	0.0013/1.1E-05	Siphoviridae.	
Li9SpD22	Listeria phage P40	YP_002261442.1	344	Glyco_hydro_25	100.0	1.1E-46			LysM	97.7/99.0	1.1E-06/1.3E-10	Siphoviridae.		
Microcystis	Mi1MpC5	Microcystis phage Ma-LMM01	YP_851083.1	251	PG_binding_1	99.3	7.4E-13			Glyco_hydro_19	100.0	2.8E-41	Myoviridae.	
	Mi2MpO5	Microcystis phage Ma-LMM01 (another)	YP_851082.1	213	PG_binding_1	99.3	7.0E-12	Peptidase_M15_3	100.0	1.9E-30			Myoviridae.	
Mycobacterium	My1SpSC55	Mycobacterium phage PackMan	AEK07284.1	526	NLPC_P60.	96.8	5.3E-04	PG_binding_1	98.8/99.4	2.9E-09/1.1E-13	Glyco_hydro_19	100.0	4.3E-38	Siphoviridae.
	My2SpPG	Mycobacterium phage Blue7	AER48198.1	404	Peptidase_M15_4	99.8	1.1E-19	Transglycosylas	100.0	8.3E-31			Siphoviridae.	
	My3SpP55	Mycobacterium phage Adjutor	YP_001936127.1	327	Peptidase_M15_4	99.7	4.9E-17	PG_binding_1	99.4	2.9E-13	PG_binding_1	97.5	4.7E-05	Siphoviridae.
	My4SpQK5	Mycobacterium phage Angel	YP_002941885.1	438	Peptidase_M23	99.9	7.6E-24	Amidase_2	99.9	7.3E-25	PG_binding_1	99.3	1.4E-12	Siphoviridae.
	My5SpTC	Mycobacterium phage Angelica	YP_003856908.1	551	Peptidase_C39_2	99.7	4.4E-17	Glyco_hydro_19	100.0	5.4E-38			Siphoviridae.	
	My6XpK	Mycobacterium phage Ardmore	YP_003495170.1	384						Amidase_2	99.9	4.7E-25	Caudovirales.	
	My7SpK88	Mycobacterium phage Barnyard	NP_818577.1	351	Amidase_2	99.9	5.0E-26			LGFP	99.6/99.7	6.4E-16/1.4E-17	Siphoviridae.	
	My8SpPC	Mycobacterium phage Bethlehem	YP_001491660.1	477	Peptidase_M15_4	99.7	6.6E-18	Glyco_hydro_19	100.0	4.7E-30			Siphoviridae.	
	My9SpKK	Mycobacterium phage Boomer	YP_002014248.1	433						Amidase_2		1.0E+02	Siphoviridae.	
	My10SpQK5	Mycobacterium phage BPs	YP_001936055.1	438	Peptidase_M23	99.9	7.6E-24	Amidase_2	99.9	7.3E-25	PG_binding_1	99.3	1.4E-12	Siphoviridae.
	My11SpP55	Mycobacterium phage Butterscotch	YP_002241533.1	327	Peptidase_M15_4	99.7	4.9E-17	PG_binding_1	99.4	2.9E-13	PG_binding_1	97.5	4.7E-05	Siphoviridae.
	My12SpPC	Mycobacterium phage Bxb1	NP_075275.1	565	Peptidase_M15_4	99.7	2.5E-18	Glyco_hydro_19	99.9	7.3E-30		99.5	1.5E-14	Siphoviridae; L5-like viruses; unclassified L5-like viruses.
	My13MpK	Mycobacterium phage Bxz1	NP_818286.1	476				Amidase_2	99.9	2.5E-25				Myoviridae; Bxz1-like phages.
	My14SpTC	Mycobacterium phage Bxz2	NP_817599.1	514	Peptidase_C39_2	99.8	7.2E-18	Glyco_hydro_19	100.0	7.8E-40				Siphoviridae.
	My15SpQK5	Mycobacterium phage Chah	YP_002241360.1	438	Peptidase_M23	99.9	5.8E-25	Amidase_2	99.9	7.9E-26	PG_binding_1	99.4	1.9E-13	Siphoviridae.
	My16SpK	Mycobacterium phage Che8	NP_817370.1	424				Amidase_2	99.9	9.7E-24				Siphoviridae.
	My17SpP55	Mycobacterium phage Che9c	NP_817703.1	317	Peptidase_M15_4	99.6	1.1E-15	PG_binding_1	99.5	1.0E-13	PG_binding_1	97.8	1.0E-05	Siphoviridae.
	My18SpCK	Mycobacterium phage Che9d	NP_818008.1	454	Glyco_hydro_19	100.0	1.2E-33	Amidase_2	99.9	8.8E-25				Siphoviridae.
	My19SpK	Mycobacterium phage Cooper	YP_654941.1	570				Amidase_2	99.9	3.4E-24				Siphoviridae.
	My20SpK	Mycobacterium phage Corndog	NP_817920.1	406				Amidase_2	99.9	8.6E-24				Siphoviridae.
	My21SpTC	Mycobacterium phage CrimD	YP_003857002.1	551	Peptidase_C39_2	99.7	7.3E-17	Glyco_hydro_19	100.0	1.7E-37				Siphoviridae.
	My22SpPC	Mycobacterium phage DD5	YP_001994741.1	464	Peptidase_M15_4	99.8	2.4E-19	Glyco_hydro_19	99.9	1.6E-29				Siphoviridae.
	My23MpK	Mycobacterium phage ET08	YP_003347884.1	476				Amidase_2	99.9	1.7E-25				Myoviridae; Bxz1-like phages.
	My24SpP55	Mycobacterium phage Faith1	YP_004538971.1	316	Peptidase_M15_4	99.7	7.1E-17	PG_binding_1	99.5	3.9E-14	PG_binding_1	97.7	2.1E-05	Siphoviridae.
	My25SpK	Mycobacterium phage Fruitloop	YP_002241714.1	384				Amidase_2				99.9	6.6E-25	Siphoviridae.

	My26SpQK5	Mycobacterium phage Giles	YP_001552360.1	402	Peptidase_M23	99.9	8.3E-22	Amidase_2	99.9	6.4E-25	PG_binding_1	99.4	2.8E-13	Siphoviridae.
	My27SpP55	Mycobacterium phage Gumball	YP_002241929.1	327	Peptidase_M15_4	99.7	2.4E-17	PG_binding_1	99.4	1.4E-13	PG_binding_1	97.9	3.8E-06	Siphoviridae.
	My28SpQK5	Mycobacterium phage Halo	YP_655544.1	438	Peptidase_M23	99.9	7.6E-24	Amidase_2	99.9	7.3E-25	PG_binding_1	99.3	1.4E-12	Siphoviridae.
	My29SpPC	Mycobacterium phage Jasper	YP_001994557.1	473	Peptidase_M15_4	99.7	1.4E-17	Glyco_hydro_19	99.9	2.8E-29				Siphoviridae.
	My30SpPC	Mycobacterium phage KBG	YP_001994468.1	464	Peptidase_M15_4	99.9	2.4E-19	Glyco_hydro_19	99.9	1.6E-29				Siphoviridae.
	My31SpP55	Mycobacterium phage Konstantine	YP_002242096.1	321	Peptidase_M15_4	99.7	4.3E-17	PG_binding_1	99.4	1.5E-13	PG_binding_1	97.8	9.0E-06	Siphoviridae.
	My32SpK	Mycobacterium phage LeBron	YP_003857156.1	390				Amidase_2	99.9	7.3E-24				Siphoviridae.
	My33SpK	Mycobacterium phage Llij	YP_655026.1	397				Amidase_2	99.9	7.5E-22				Siphoviridae.
	My34SpPC	Mycobacterium phage Lockley	YP_001994650.1	473	Peptidase_M15_4	99.7	4.9E-17	Glyco_hydro_19	99.9	9.0E-30				Siphoviridae.
	My35MpPD5	Mycobacterium phage Myrna	YP_002225120.1	530	Peptidase_M15_4	99.4	1.5E-13	PG_binding_1	97.2	4.7E-04	Glyco_hydro_25	100.0	2.1E-37	Myoviridae.
	My36SpK	Mycobacterium phage Nigel	YP_002003881.1	577				Amidase_2	99.9	3.7E-24				Siphoviridae.
	My37SpSD	Mycobacterium phage Omega	NP_818351.1	473	NLPC_P60.	99.4	1.3E-13	Glyco_hydro_25	100.0	8.6E-41				Siphoviridae.
	My38SpK	Mycobacterium phage Pacc40	YP_002241614.1	402				Amidase_2	99.9	1.1E-23				Siphoviridae.
	My39SpPC	Mycobacterium phage Peaches	YP_003358711.1	500	Peptidase_M15_4	99.7	6.9E-18	Glyco_hydro_19	100.0	7.0E-34				Siphoviridae.
	My40SpQK5	Mycobacterium phage PG1	NP_943827.1	429	Peptidase_M23	99.9	1.3E-24	Amidase_2	99.9	6.4E-26	PG_binding_1	99.4	2.5E-13	Siphoviridae.
	My41SpK	Mycobacterium phage Phaerdrus	YP_002014655.1	355				Amidase_2	99.9	6.4E-25				Siphoviridae.
	My42SpK	Mycobacterium phage Phlyer	YP_002564144.1	421				Amidase_2	99.9	4.0E-24				Siphoviridae.
	My43SpK	Mycobacterium phage Pipefish	YP_655325.1	407				Amidase_2	99.9	2.3E-24				Siphoviridae.
	My44SpP55	Mycobacterium phage PLOT	YP_655415.1	327	Peptidase_M15_4	99.7	4.9E-17	PG_binding_1	99.4	2.9E-13	PG_binding_1	97.5	4.7E-05	Siphoviridae.
	My45SpP55	Mycobacterium phage Predator	YP_002003394.1	318	Peptidase_M15_4	99.6	2.3E-16	PG_binding_1	99.5	1.1E-13	PG_binding_1	97.7	1.8E-05	Siphoviridae.
	My46SpPC	Mycobacterium phage Pukovnik	YP_001994828.1	501	Peptidase_M15_4	99.3	1.1E-12	Glyco_hydro_19	100.0	1.5E-36				Siphoviridae.
	My47SpK	Mycobacterium phage Ramsey	YP_002241819.1	415				Amidase_2	99.9	4.2E-24				Siphoviridae.
	My48SpPC	Mycobacterium phage Rosebush	NP_817807.1	503	Peptidase_M15_4	99.7	1.4E-18	Glyco_hydro_19	100.0	9.1E-35				Siphoviridae.
	My49MpK	Mycobacterium phage ScottMcG	YP_002224239.1	476				Amidase_2	99.9	1.7E-25				Myoviridae; Bx21-like phages.
	My50SpPC	Mycobacterium phage Solon	YP_002223950.1	464	Peptidase_M15_4	99.8	2.4E-19	Glyco_hydro_19	100.0	3.5E-30				Siphoviridae.
	My51MpK	Mycobacterium phage Spud	YP_002224461.1	476				Amidase_2	99.9	2.5E-25				Myoviridae; I3-like viruses; unclassified I3-like viruses.
	My52SpK	Mycobacterium phage TM4	NP_569764.1	547							Amidase_2	99.9	4.4E-24	Siphoviridae.
	My53SpP55	Mycobacterium phage Troll4	YP_002241449.1	327	Peptidase_M15_4	99.7	2.8E-17	PG_binding_1	99.4	4.2E-13	PG_binding_1	97.5	4.2E-05	Siphoviridae.
	My54SpK	Mycobacterium phage Tweety	YP_001469263.1	403							Amidase_2	99.9	4.4E-24	Siphoviridae.
	My55SpPC	Mycobacterium phage U2	YP_001491578.1	477	Peptidase_M15_4	99.7	6.2E-17	Glyco_hydro_19	100.0	3.3E-31				Siphoviridae.
	My56SpK	Mycobacterium phage Wee	YP_004123853.1	384							Amidase_2	99.9	5.0E-25	Siphoviridae.
	My57SpCK	Mycobacterium phage Wildcat	YP_655914.1	502	Glyco_hydro_19	100.0	1.2E-33	Amidase_2	99.9	1.7E-24				Siphoviridae.
	My58SpTC	Mycobacterium phage Wonder	ADX30647.1	513	Peptidase_C39_2	99.8	4.0E-18	Glyco_hydro_19	100.0	1.8E-38				Siphoviridae.
	My59SpPC	Mycobacterium phage Shaka	AEF57318.1	500	Peptidase_M15_4	99.7	6.5E-18	Glyco_hydro_19	100.0	1.5E-33				Siphoviridae.
	My60SpQK5	Mycobacterium phage Thora	AEJ91838.1	437	Peptidase_M23	99.9	7.3E-25	Amidase_2	99.9	9.8E-26	PG_binding_1	99.4	1.0E-13	Siphoviridae.
	My61SpPC	Mycobacterium phage BPBiabs31	AEJ91909.1	477	Peptidase_M15_4	99.7	1.7E-17	Glyco_hydro_19	100.0	4.9E-30				Siphoviridae.
	My62SpTC	Mycobacterium phage HelDan	AEJ92003.1	521	Peptidase_C39_2	99.8	1.5E-18	Glyco_hydro_19	100.0	9.6E-40				Siphoviridae.
	My63SpSD7	Mycobacterium phage Optimus	AEJ92132.1	477	NLPC_P60.	99.8	2.5E-09	Glyco_hydro_25	100.0	7.1E-40	Cpl-7	98.8	2.1E-09	Siphoviridae.
	My64SpPL	Mycobacterium phage Timshel	AEJ92323.1	450	Peptidase_M15_4	99.6	8.2E-16				NlpD	97.8	2.0E-05	Siphoviridae.
	My65SpPC	Mycobacterium phage MrGordo	AEJ92897.1	470	Peptidase_M15_4	99.8	7.8E-19	Glyco_hydro_19	100.0	1.1E-30				Siphoviridae.
	My66SpK	Mycobacterium phage Shauna1	AEJ93006.1	384							Amidase_2	99.9	5.2E-25	Siphoviridae.
	My67SpK	Mycobacterium phage Mutaforma13	AEJ93116.1	423							Amidase_2	99.9	5.8E-24	Siphoviridae.
	My68SpK	Mycobacterium phage ShiLan	AEJ93222.1	398				Amidase_2	99.9	3.2E-23				Siphoviridae.
	My69SpP55	Mycobacterium phage Benedict	AEJ93402.1	313	Peptidase_M15_4	99.5	2.6E-14	PG_binding_1	99.4	2.5E-13				Siphoviridae.
	My70SpP55	Mycobacterium phage Airmid	AEJ93493.1	313	Peptidase_M15_4	99.5	1.7E-14	PG_binding_1	99.4	2.4E-13	PG_binding_1	97.4	7.6E-05	Siphoviridae.
	My71SpPC	Mycobacterium phage Doom	AEJ93585.1	477	Peptidase_M15_4	99.7	1.8E-18	Glyco_hydro_19	100.0	1.8E-30				Siphoviridae.
	My72SpPC	Mycobacterium phage Euphoria	AEJ93670.1	473	Peptidase_M15_4	99.7	1.8E-17	Glyco_hydro_19	99.9	1.2E-28				Siphoviridae.
	My73SpTC	Mycobacterium phage JAWS	AEJ93784.1	551	Peptidase_C39_2	99.7	3.1E-17	Glyco_hydro_19	100.0	3.0E-38				Siphoviridae.
	My74SpQK5	Mycobacterium phage Oline	AEJ93886.1	431	Peptidase_M23	99.9	8.2E-25	Amidase_2	99.9	1.2E-25	PG_binding_1	99.4	1.4E-13	Siphoviridae.
	My75SpPC	Mycobacterium phage Thibault	AEJ93989.1	457	Peptidase_M15_4	99.7	5.5E-18	Glyco_hydro_19	100.0	1.1E-36				Siphoviridae.
	My76XpPC	Mycobacterium phage Backyardigan	AEJ94495.1	498	Peptidase_M15_4	99.6	1.6E-15	Glyco_hydro_19	100.0	1.9E-33				Viruses; unclassified phages.
	My77XpK	Mycobacterium phage ChrisnMich	AEJ94646.1	578				Amidase_2	99.9	1.6E-23				Viruses; unclassified phages.
	My78SpK	Mycobacterium phage Daisy	AEJ94718.1	421				Amidase_2	99.9	3.5E-24				Siphoviridae.
	My79XpTC	Mycobacterium phage JHC117	AEJ95108.1	514	Peptidase_C39_2	99.8	7.7E-18	Glyco_hydro_19	100.0	1.3E-38				Viruses; unclassified phages.
	My80XpQK5	Mycobacterium phage KLucky39	AEJ95234.1	435	Peptidase_M23	99.9	3.5E-24	Amidase_2	99.9	8.4E-26	PG_binding_1	99.5	9.3E-14	Viruses; unclassified phages.
	My81XpK	Mycobacterium phage Marvin	AEJ95335.1	459				Amidase_2	99.9	3.2E-24				Viruses; unclassified phages.
	My82XpQK5	Mycobacterium phage Phipps	AEJ95524.1	438	Peptidase_M23	99.9	7.8E-25	Amidase_2	99.9	1.2E-25	PG_binding_1	99.4	4.8E-13	Viruses; unclassified phages.
	My83XpQK5	Mycobacterium phage Vortex	AEJ95624.1	451	Peptidase_M23	99.9	1.0E-24	Amidase_2	99.9	1.0E-25	PG_binding_1	99.4	3.5E-13	Viruses; unclassified phages.
	My84XpK	Mycobacterium phage Zemanar	AEJ95718.1	578				Amidase_2	99.9	6.3E-24				Viruses; unclassified phages.
	My85XpTC	Mycobacterium phage Adephagia	AEJ95799.1	551	Peptidase_C39_2	99.7	2.0E-17	Glyco_hydro_19	100.0	4.1E-37				Viruses; unclassified phages.
	My86XpK	Mycobacterium phage RockyHorror	AEK06739.1	397							Amidase_2	99.9	5.4E-24	Viruses; unclassified phages.
	My87XpQK5	Mycobacterium phage Oosterbaan	AEK07211.1	438	Peptidase_M23	99.9	4.5E-25	Amidase_2	99.9	1.0E-25	PG_binding_1	99.4	1.9E-13	Viruses; unclassified phages.
	My88XpTC	Mycobacterium phage Rockstar	AEK07375.1	521	Peptidase_C39_2	99.8	1.1E-18	Glyco_hydro_19	100.0	1.3E-40				Viruses; unclassified phages.
	My89SpPC	Mycobacterium phage Send513	AEK07481.1	489	Peptidase_M15_4	99.7	1.1E-17	Glyco_hydro_19	100.0	8.2E-32				Siphoviridae.
	My90XpK	Mycobacterium phage UPIE	AEK07569.1	390				Amidase_2	99.9	1.3E-23				Viruses; unclassified phages.
	My91XpTC	Mycobacterium phage Vix	AEK07673.1	514	Peptidase_C39_2	99.8	1.3E-17	Glyco_hydro_19	100.0	2.7E-38				Viruses; unclassified phages.
	My92SpTC	Mycobacterium phage Anaya	AEK07990.1	551	Peptidase_C39_2	99.7	3.7E-17	Glyco_hydro_19	100.0	2.4E-36				Siphoviridae.
	My93XpSD7	Mycobacterium phage Baka	AEK08108.1	477	NLPC_P60.	99.8	3.5E-09	Glyco_hydro_25	100.0	5.2E-40	Cpl-7	98.9	1.0E-09	Viruses; unclassified phages.
	My94XpQK5	Mycobacterium phage Harvey	AEK08800.1	442	Peptidase_M23	99.9	2.6E-24	Amidase_2	99.9	1.7E-25	PG_binding_1	99.4	2.3E-13	Viruses; unclassified phages.
	My95XpK	Mycobacterium phage Ibhuesi	AEK09126.1	397				Amidase_2	99.9	4.2E-24				Viruses; unclassified phages.
	My96XpPC	Mycobacterium phage JC27	AEK09209.1	476	Peptidase_M15_4	99.7	1.5E-17	Glyco_hydro_19	100.0	2.0E-31				Viruses; unclassified phages.
	My97XpPC	Mycobacterium phage Lesedi	AEK09304.1	477	Peptidase_M15_4	99.7	1.7E-18	Glyco_hydro_19	100.0	1.4E-29				Viruses; unclassified phages.
	My98SpSD	Mycobacterium phage LittleE	AEK09434.1	472	NLPC_P60.	99.7	4.2E-18	Glyco_hydro_25	100.0	2.2E-40				Siphoviridae.
	My99SpK	Mycobacterium phage Mozy	AEK09645.1	396				Amidase_2	99.9	6.3E-24				Siphoviridae.
	My100XpPC	Mycobacterium phage Museum	AEK09730.1	477	Peptidase_M15_4	99.7	4.2E-17	Glyco_hydro_19	100.0	1.3E-30				Viruses; unclassified phages.
	My101XpK	Mycobacterium phage Rey	AEK09952.1	471				Amidase_2	99.8	6.5E-22				Viruses; unclassified phages.

Mycobacterium

My102XpPC	Mycobacterium phage KSSJEB	AEK10501.1	477	Peptidase_M15_4	99.7	5.8E-17	Glyco_hydro_19	100.0	2.0E-30				Viruses; unclassified phages.
My103SpP5	Mycobacterium phage George	AEK32601.1	305	Peptidase_M15_4	99.4	1.6E-13	PG_binding_1	99.4	1.2E-13				Siphoviridae.
My104XpP5	Mycobacterium phage Cuco	AEL17657.1	305	Peptidase_M15_4	99.4	1.9E-13	PG_binding_1	99.4	2.4E-13				Caudovirales.
My105SpPG	Mycobacterium phage Turbido	AEL17748.1	437	Peptidase_M15_4	99.6	8.4E-16	Transglycosylas	99.3	3.5E-12				Siphoviridae.
My106SpPC	Mycobacterium phage MeeZee	AEL19763.1	500	Peptidase_M15_4	99.7	6.8E-18	Glyco_hydro_19	100.0	8.0E-35				Siphoviridae.
My107SpTC	Mycobacterium phage Charlie	AEL19956.1	502	Peptidase_C39_2	99.0	7.1E-11	Glyco_hydro_19	100.0	1.9E-38				Siphoviridae.
My108XpK	Mycobacterium phage Gumbie	AEL20025.1	397				Amidase_2	99.9	3.3E-24				Caudovirales.
My109MpK	Mycobacterium phage Dandelion	AEL97890.1	476				Amidase_2	99.9	1.7E-25				Myoviridae; I3-like viruses; unclassified I3-like viruses.
My110SpK	Mycobacterium phage Patience	AEL97950.1	463				Amidase_2	99.9	1.7E-24				Siphoviridae.
My111SpP5	Mycobacterium phage BigNuz	AEL98189.1	315	Peptidase_M15_4	99.6	2.1E-16	PG_binding_1	99.4	2.2E-13				Siphoviridae.
My112SpPC	Mycobacterium phage Perseus	AEM91647.1	477	Peptidase_M15_4	99.7	1.7E-18	Glyco_hydro_19	100.0	1.1E-30				Siphoviridae.
My113SpPC	Mycobacterium phage AnnaL29	AEN70171.1	503	Peptidase_M15_4	99.7	1.4E-18	Glyco_hydro_19	100.0	8.9E-34				Siphoviridae.
My114SpTC	Mycobacterium phage Redi	AEN79885.1	499	Peptidase_C39_2	99.1	4.2E-11	Glyco_hydro_19	100.0	1.3E-38				Siphoviridae.
My115SpQK5	Mycobacterium phage Murdoc	AEO93984.1	438	Peptidase_M23	99.9	2.1E-24	Amidase_2	99.9	1.1E-25	PG_binding_1	99.4	2.5E-13	Siphoviridae.
My116SpQK	Mycobacterium phage Morgushi	AEO94081.1	300	Peptidase_M23	99.9	4.2E-25	Amidase_2	99.8	3.1E-21				Siphoviridae.
My117SpTC	Mycobacterium phage BarrelRoll	AEO94172.1	551	Peptidase_C39_2	99.7	6.2E-16	Glyco_hydro_19	100.0	2.1E-37				Siphoviridae.
My118SpPC	Mycobacterium phage Dreamboat	AEO94248.1	489	Peptidase_M15_4	99.7	2.6E-17	Glyco_hydro_19	100.0	4.3E-33				Siphoviridae.
My119SpK	Mycobacterium phage Rumpelstiltskin	AEO94359.1	389				Amidase_2	99.9	2.3E-24				Siphoviridae.
My120SpK	Mycobacterium phage DotProduct	AER14077.1	397				Amidase_2	99.9	1.0E-24				Siphoviridae.
My121MpK	Mycobacterium phage MoMoMixon	AER25808.1	476				Amidase_2	99.9	2.2E-25	PG_binding_1	98.1	2.9E-06	Myoviridae; I3-like viruses; unclassified I3-like viruses.
My122SpK	Mycobacterium phage Bongo	AER26088.1	455				Amidase_2	99.9	9.3E-24				Siphoviridae.
My123SpP	Mycobacterium phage Saintus	AER26391.1	225				Peptidase_M15_4	99.8	3.2E-19				Siphoviridae.
My124SpPC	Mycobacterium phage Hedgerow	AER47278.1	499	Peptidase_M15_4	99.7	1.4E-18	Glyco_hydro_19	100.0	2.5E-37				Siphoviridae.
My125SpK	Mycobacterium phage Gadjet	AER47371.1	425				Amidase_2	99.9	3.8E-24				Siphoviridae.
My126SpK	Mycobacterium phage Firecracker	AER47493.1	416				Amidase_2	99.9	5.7E-24				Siphoviridae.
My127SpCK	Mycobacterium phage DS6A	AER47584.1	486	Glyco_hydro_19	100.0	1.7E-37	Amidase_2	99.9	3.5E-24				Siphoviridae.
My128SpPC	Mycobacterium phage Courthouse	AER47898.1	461	Peptidase_M15_4	99.7	6.1E-18	Glyco_hydro_19	100.0	2.4E-36				Siphoviridae.
My129SpPC	Mycobacterium phage Bruns	AER48099.1	473	Peptidase_M15_4	99.7	1.3E-17	Glyco_hydro_19	99.9	1.8E-29				Siphoviridae.
My130SpP55	Mycobacterium phage Babsiella	AER48403.1	317	Peptidase_M15_4	99.6	2.3E-16	PG_binding_1	99.5	5.2E-14	PG_binding_1	97.9	1.8E-06	Siphoviridae.
My131SpPC	Mycobacterium phage Ares	AER48669.1	499	Peptidase_M15_4	99.7	1.4E-18	Glyco_hydro_19	100.0	7.5E-37				Siphoviridae.
My132SpTK5	Mycobacterium phage Acadian	AER48961.1	520	Peptidase_C39_2	99.8	4.5E-18	Amidase_2	99.9	9.0E-24	PG_binding_1	99.3	2.5E-12	Siphoviridae.
My133SpQK5	Mycobacterium phage Vista	AER49059.1	430	Peptidase_M23	99.9	1.1E-24	Amidase_2	99.9	1.3E-25	PG_binding_1	99.4	2.6E-13	Siphoviridae.
My134SpK	Mycobacterium phage SG4	AER49440.1	423				Amidase_2	99.9	1.2E-24				Siphoviridae.
My135SpP55	Mycobacterium phage Nova	AER49788.1	327	Peptidase_M15_4	99.7	1.4E-16	PG_binding_1	99.4	2.1E-13	PG_binding_1	97.5	4.9E-05	Siphoviridae.
My136SpPC	Mycobacterium phage LHTSCC	AER49848.1	493	Peptidase_M15_4	99.5	5.5E-15	Glyco_hydro_19	100.0	6.7E-30				Siphoviridae.
My137SpK	Mycobacterium phage Kamiyu	AER50177.1	442				Amidase_2	99.9	5.0E-24				Siphoviridae.
My138SpK	Mycobacterium phage Fezzik	AEZ50709.1	390				Amidase_2	99.9	8.5E-24				Siphoviridae.
My139SpK	Mycobacterium phage Spartacus	AFA45040.1	430				Amidase_2	99.9	3.6E-24				Siphoviridae.
My140SpQK5	Mycobacterium phage Colbert	ACU41194.1	433	Peptidase_M23	99.9	1.9E-24	Amidase_2	99.9	7.0E-26	PG_binding_1	99.4	5.9E-13	Siphoviridae.
My141SpQK5	Mycobacterium phage Puhlonio	ACU41885.1	438	Peptidase_M23	99.9	3.1E-24	Amidase_2	99.9	7.7E-26	PG_binding_1	99.4	1.4E-13	Siphoviridae.
My142SpQK5	Mycobacterium phage UncleHowie	ACU42125.1	438	Peptidase_M23	99.9	3.5E-25	Amidase_2	99.9	5.1E-26	PG_binding_1	99.4	1.9E-13	Siphoviridae.
My143SpPC	Mycobacterium phage SkiPole	ADA83737.1	470	Peptidase_M15_4	99.8	5.4E-19	Glyco_hydro_19	100.0	3.3E-31				Siphoviridae.
My144SpPC	Mycobacterium phage Eagle	ADL71267.1	500	Peptidase_M15_4	99.7	6.9E-18	Glyco_hydro_19	100.0	2.8E-33				Siphoviridae.
My145SpPG	Mycobacterium phage EricB	AEJ93309.1	403	Peptidase_M15_4	99.8	7.8E-20	Transglycosylas	99.9	1.8E-28				Siphoviridae.
My146XpPG	Mycobacterium phage Gladiator	AEJ95014.1	404	Peptidase_M15_4	99.8	1.0E-19	Transglycosylas	100.0	1.1E-31				Viruses; unclassified phages.
My147XpPG	Mycobacterium phage DaVinci	AEK08456.1	403	Peptidase_M15_4	99.8	1.1E-19	Transglycosylas	100.0	5.6E-34				Viruses; unclassified phages.
My148XpPG	Mycobacterium phage Hammer	AEK08659.1	404	Peptidase_M15_4	99.8	4.9E-20	Transglycosylas	100.0	5.5E-30				Viruses; unclassified phages.
My149SpSG	Mycobacterium phage Trixie	AEL17842.1	431	NLPC_P60.	97.7	2.3E-05	Transglycosylas	99.8	3.8E-22				Siphoviridae.
My149SpSG	Mycobacterium phage Trixie	AEL17842.2	432	NLPC_P60.	97.8	1.0E+00	Transglycosylas	99.9	1.0E+00				Siphoviridae.
My149SpSG	Mycobacterium phage Trixie	AEL17842.3	433	NLPC_P60.	97.9	2.0E+00	Transglycosylas	99.10	2.0E+00				Siphoviridae.
My149SpSG	Mycobacterium phage Trixie	AEL17842.4	434	NLPC_P60.	97.10	3.0E+00	Transglycosylas	99.11	3.0E+00				Siphoviridae.
My149SpSG	Mycobacterium phage Trixie	AEL17842.5	435	NLPC_P60.	97.11	4.0E+00	Transglycosylas	99.12	4.0E+00				Siphoviridae.
My154SpSC	Mycobacterium phage D29	NP_046825.1	514	NLPC_P60.	97.1	1.9E-04	Glyco_hydro_19	100.0	5.9E-35				Siphoviridae; L5-like viruses
My155SpPC	Mycobacterium phage Kugel	AER49942.1	470	Peptidase_M15_4	99.7	1.3E-18	Glyco_hydro_19	99.9	1.4E-28				Siphoviridae.
My156XpPC	Mycobacterium phage RidgeCB	AEL20108.1	473	Peptidase_M15_4	99.6	7.2E-16	Glyco_hydro_19	99.9	1.7E-28				Caudovirales.
My157XpPC	Mycobacterium phage Switzer	AEK10308.1	477	Peptidase_M15_4	99.7	1.3E-17	Glyco_hydro_19	99.9	6.5E-28				Viruses; unclassified phages.
My158SpSC	Mycobacteriophage Che12	ABE67330.1	455	NLPC_P60.	99.8	1.0E-21	Glyco_hydro_19	100.0	1.5E-36				Siphoviridae.
My159SpSC	Mycobacteriophage RedRock	ADB93705.1	493	NLPC_P60.	97.2	1.9E-04	Glyco_hydro_19	100.0	8.0E-35				Siphoviridae.
My160XpTC	Mycobacterium phage Microwolf	AEJ95400.1	514	Peptidase_C39_2	99.8	3.5E-18	Glyco_hydro_19	100.0	3.4E-39				Viruses; unclassified phages.
My161SpPC	Mycobacterium phage TiroTheta9	AEM05875.1	500	Peptidase_M15_4	99.3	1.1E-12	Glyco_hydro_19	99.9	1.3E-28				Siphoviridae.
My162SpPC	Mycobacterium phage Wile	AEL19851.1	498	Peptidase_M15_4	99.1	6.9E-11	Glyco_hydro_19	99.9	2.8E-29				Siphoviridae.
My163SpC55	Mycobacterium phage Alma	AER48722.1	526				PG_binding_1	97.7/99.5	1.3E-05/4.8E-14	Glyco_hydro_19	100.0	6.5E-37	Siphoviridae.
My164XpQK5	Mycobacterium phage ABU	AEJ94215.1	438	Peptidase_M23	99.9	1.3E-25	Amidase_2	99.9	9.7E-26	PG_binding_1	99.4	1.0E-13	Viruses; unclassified phages.
My165SpQK5	Mycobacterium phage Fang	ADA83875.1	438	Peptidase_M23	99.9	1.3E-25	Amidase_2	99.9	9.7E-26	PG_binding_1	99.4	1.0E-13	Siphoviridae.
My166XpQK5	Mycobacterium phage Hertubise	AEK09042.1	438	Peptidase_M23	99.9	1.0E-25	Amidase_2	99.9	8.0E-26	PG_binding_1	99.5	8.7E-14	Viruses; unclassified phages.
My167SpQK5	Mycobacterium phage IsaacEli	AER47176.1	429	Peptidase_M23	99.9	8.0E-26	Amidase_2	99.9	7.6E-26	PG_binding_1	99.5	7.2E-14	Siphoviridae.
My168XpQK5	Mycobacterium phage JacAttac	AER47075.1	429	Peptidase_M23	99.9	8.0E-26	Amidase_2	99.9	7.6E-26	PG_binding_1	99.5	7.2E-14	Caudovirales.
My169SpQK5	Mycobacterium phage Kikipoo	AER50076.1	429	Peptidase_M23	99.9	1.8E-25	Amidase_2	99.9	7.6E-26	PG_binding_1	99.5	7.2E-14	Siphoviridae.
My170SpQK5	Mycobacteriophage Orion	ABD58365.1	429	Peptidase_M23	99.9	8.0E-26	Amidase_2	99.9	7.6E-26	PG_binding_1	99.5	7.2E-14	Siphoviridae.
My171SpQK5	Mycobacterium phage Osmaximus	AEJ92824.1	438	Peptidase_M23	99.9	1.3E-25	Amidase_2	99.9	9.7E-26	PG_binding_1	99.4	1.0E-13	Siphoviridae.
My172SpQK5	Mycobacterium phage Scoot17C	ADA83978.1	429	Peptidase_M23	99.9	8.0E-26	Amidase_2	99.9	7.6E-26	PG_binding_1	99.5	7.2E-14	Siphoviridae.
My173SpQK5	Mycobacterium phage Serendipity	AEJ92723.1	438	Peptidase_M23	99.9	1.7E-25	Amidase_2	99.9	2.1E-25	PG_binding_1	99.5	4.7E-14	Siphoviridae.
My174SpQK5	Mycobacterium phage TallGRassMM	AER49259.1	438	Peptidase_M23	99.9	1.7E-25	Amidase_2	99.9	2.1E-25	PG_binding_1	99.5	4.7E-14	Siphoviridae.
My175SpQK5	Mycobacterium phage ThreeOh3D2	AER49161.1	429	Peptidase_M23	99.9	8.0E-26	Amidase_2	99.9	7.6E-26	PG_binding_1	99.5	7.2E-14	Siphoviridae.
My176XpQK5	Mycobacterium phage Yoshand	AEK10439.1	438	Peptidase_M23	99.9	1.3E-25	Amidase_2	99.9	9.7E-26	PG_binding_1	99.4	1.0E-13	Viruses; unclassified phages.
My177SpPC	Mycobacterium phage Arbitr	AEN79544.1	503	Peptidase_M15_4	99.5	5.1E-15	Glyco_hydro_19	100.0	1.5E-37				Siphoviridae.

Mycobacterium	My178SpPC	Mycobacteriophage Qyrzula	ABE67464.1	503	Peptidase_M15_4	99.5	5.1E-15	Glyco_hydro_19	100.0	1.5E-37				Siphoviridae.		
	My179SpK	Mycobacterium phage Akoma	AER48856.1	421			Amidase_2	99.9	3.0E-24					Siphoviridae.		
	My180SpK	Mycobacterium phage Athena	AER48563.1	425			Amidase_2	99.9	3.0E-24					Siphoviridae.		
	My181SpK	Mycobacterium phage Stinger	AER49357.1	577			Amidase_2	99.9	6.1E-24					Siphoviridae.		
	My182MpK	Mycobacterium phage Alice	AEJ94458.1	476			Amidase_2	99.9	3.6E-25					Myoviridae.		
	My183MpK	Mycobacterium phage Cali	ACH63191.1	476			Amidase_2	99.9	8.3E-25					Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My184MpK	Mycobacteriophage Catera	ABE67955.1	476			Amidase_2	99.9	3.2E-25					Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My185MpK	Mycobacterium phage Drazdys	AEK06999.1	476			Amidase_2	99.9	3.2E-25					Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My186MpK	Mycobacterium phage Ghost	AEJ94976.1	476			Amidase_2	99.9	3.2E-25					Myoviridae.		
	My187MpK	Mycobacterium phage LinStu	AEL98452.1	476			Amidase_2	99.9	2.1E-25					Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My188MpK	Mycobacterium phage LRRHood	ACU41735.1	476			Amidase_2	99.9	3.2E-25					Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My189MpK5	Mycobacterium phage Nappy	AER26041.1	476			Amidase_2	99.9	5.8E-25	PG_binding_1	98.1	4.1E-06		Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My190MpK	Mycobacterium phage Pio	AER49734.1	476			Amidase_2	99.9	3.2E-25					Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My191MpK	Mycobacterium phage Pleione	AEN79838.1	476			Amidase_2	99.9	8.3E-25					Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My192MpK	Mycobacterium phage Rizal	ACH62441.1	476			Amidase_2	99.9	3.2E-25					Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My193MpK	Mycobacterium phage Sebata	AEK06690.1	476			Amidase_2	99.9	2.1E-25					Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My194MpK	Mycobacterium phage Wally	AER25581.1	476			Amidase_2	99.9	3.2E-25					Myoviridae; I3-like viruses; unclassified I3-like viruses.		
	My195SpP55	Mycobacteriophage PBI1	ABD58451.1	327	Peptidase_M15_4	99.4	3.9E-13	PG_binding_1	99.5	1.8E-14	PG_binding_1	98.5	1.4E-07		Siphoviridae	
	My196XpP55	Mycobacterium phage SirHarley	AEK10244.1	327	Peptidase_M15_4	99.2	8.6E-12	PG_binding_1	99.5	4.2E-14	PG_binding_1	98.5	8.0E-08		Viruses; unclassified phages	
	My197SpSD	Mycobacteriophage 244	ABD58009.1	500	NLPC_P60.	97.3	2.0E-04	Glyco_hydro_25	100.0	5.5E-38					Siphoviridae	
	My198XpSD	Mycobacterium phage Bask21	AEK08331.1	500	NLPC_P60.	97.3	1.9E-04	Glyco_hydro_25	100.0	3.4E-38					Viruses; unclassified phages	
	My199SpSD	Mycobacterium phage Elph10	AEL21790.1	500	NLPC_P60.	97.5	7.2E-05	Glyco_hydro_25	100.0	4.4E-38					Siphoviridae	
	My200SpSD	Mycobacterium phage Eureka	AEL98050.1	500	NLPC_P60.	97.5	7.0E-05	Glyco_hydro_25	100.0	3.3E-38					Siphoviridae	
	My201XpSD	Mycobacterium phage Henry	AEK08884.1	500	NLPC_P60.	97.3	1.3E-04	Glyco_hydro_25	100.0	4.9E-38					Viruses; unclassified phages	
	My202SpSD	Mycobacterium phage Lilac	AEL21651.1	500	NLPC_P60.	97.5	7.2E-05	Glyco_hydro_25	100.0	4.4E-38					Siphoviridae	
	My203SpSD	Mycobacterium phage Porky	ACF33849.1	500	NLPC_P60.	97.5	7.2E-05	Glyco_hydro_25	100.0	4.5E-38					Siphoviridae	
	My204SpSD	Mycobacterium phage Pumpkin	ACU41968.1	500	NLPC_P60.	97.3	1.9E-04	Glyco_hydro_25	100.0	3.4E-38					Siphoviridae	
	My205SpSD	Mycobacterium phage Rakim	AEJ92570.1	500	NLPC_P60.	97.5	7.2E-05	Glyco_hydro_25	100.0	4.4E-38					Siphoviridae	
	My206XpSD	Mycobacterium phage SirDuracell	AEK10096.1	500	NLPC_P60.	97.3	1.3E-04	Glyco_hydro_25	100.0	4.9E-38					Viruses; unclassified phages	
	My207SpD	Mycobacterium phage Toto	AEJ92429.1	477				Glyco_hydro_25	100.0	1.6E-37					Siphoviridae	
	My208SpK	Mycobacterium phage DeadP	AER47775.1	384				Amidase_2	99.9	1.9E-23					Siphoviridae	
	My209XpK	Mycobacterium phage Diane	AEK08574.1	384				Amidase_2	99.9	3.0E-23					Viruses; unclassified phages	
	My210SpK	Mycobacterium phage Drago	AEL98562.1	397				Amidase_2	99.9	2.4E-23					Siphoviridae	
	My211SpK	Mycobacteriophage PMC	ABE67531.1	397				Amidase_2	99.9	2.4E-23					Siphoviridae	
	My212XpK	Mycobacterium phage Yoshi	AEK07788.1	415				Amidase_2	99.9	4.1E-24					Viruses; unclassified phages	
	My213SpQK5	Mycobacterium phage Avrafan	AER48482.1	438	Peptidase_M23	99.9	2.2E-25	Amidase_2	99.9	4.6E-24	PG_binding_1	99.3	1.2E-12		Siphoviridae	
	My214SpQK5	Mycobacterium phage Hope	ACU41491.1	438	Peptidase_M23	99.9	2.2E-25	Amidase_2	99.9	4.6E-24	PG_binding_1	99.3	1.2E-12		Siphoviridae	
	My215SpQK5	Mycobacterium phage Liefie	AEL98499.1	438	Peptidase_M23	99.9	2.2E-25	Amidase_2	99.9	4.6E-24	PG_binding_1	99.3	1.2E-12		Siphoviridae	
	My216SpS5	Mycobacterium phage Brujita	ACI06243.1	314	NLPC_P60.	99.2	5.4E-12	PG_binding_1	99.6	2.7E-15					Siphoviridae	
	My217SpS5	Mycobacterium phage island3	ADL71213.1	314	NLPC_P60.	99.2	5.4E-12	PG_binding_1	99.6	2.7E-15					Siphoviridae	
	My218XpSD2	Mycobacterium phage Pixie	AEK09842.1	561	NLPC_P60.	97.2	2.4E-04	Glyco_hydro_25	100.0	1.5E-39	LysM	96.4	4.1E-04		Viruses; unclassified phages	
	My219SpSD	Mycobacterium phage Fionnbharth	AER26323.1	536	NLPC_P60.	97.2	1.8E-04	Glyco_hydro_25	100.0	5.6E-38					Siphoviridae	
	My220SpSD	Mycobacterium phage Larva	AEL19685.1	544	NLPC_P60.	97.0	2.7E-04	Glyco_hydro_25	100.0	7.1E-39					Siphoviridae	
	My221XpK	Mycobacterium phage JoeDirt	AEK07072.1	390				Amidase_2	99.9	8.3E-24					Viruses; unclassified phages	
	My222SpS5	Mycobacterium phage Dori	AER47689.1	311	NLPC_P60.	99.8	2.9E-19	PG_binding_1	99.6	3.4E-15					Siphoviridae	
	Nocardia	No1SpK88	Nocardia phage NBR1	YP_004957669.1	359	Amidase_2	99.9	1.8E-25	LGFP	99.7/99.7	1.6E-17/6.9E-17				Siphoviridae.	
	Pediococcus	Pe1SpD4	Pediococcus phage dP1	YP_004934212.1	413	Glyco_hydro_25	100.0	2.9E-42			SH3_5	99.8	7.2E-19		Siphoviridae.	
	Propionibacterium	Pr1SpK	Propionibacterium phage PA6	YP_001285596.1	286	Amidase_2	99.9	5.3E-27							Siphoviridae.	
		Pr2SpK	Propionibacterium phage PAD20	YP_004414771.1	287	Amidase_2	99.9	7.5E-26							Siphoviridae.	
		Pr3SpK	Propionibacterium phage PAS50	YP_004414725.1	285	Amidase_2	99.9	1.8E-26							Siphoviridae.	
	Rhodococcus	Rh1SpP5	Rhodococcus phage RRH1	YP_005087029.1	244			Peptidase_M15_4	99.6	4.5E-16	PG_binding_1	99.5	2.0E-14		Siphoviridae.	
		Rh2XpK	Rhodococcus phage REQ2	YP_005087066.1	236	Amidase_2	99.9	1.6E-27							Viruses; unclassified phages.	
		Rh3SpK88	Rhodococcus phage REQ1	YP_005087335.1	362	Amidase_2	99.9	1.9E-25	LGFP	99.6	1.5E-15	LGFP	99.7	1.8E-16	Siphoviridae.	
		Rh4SpK	Rhodococcus phage ReqiDocB7	ADD80813.1	329	Amidase_2	99.9	7.0E-27							Siphoviridae.	
		Rh5SpK	Rhodococcus phage ReqiPepy6	ADD80901.1	265	Amidase_2	99.9	2.8E-27							Siphoviridae.	
		Rh6SpK5	Rhodococcus phage ReqiPoco6	ADD81010.1	265	Amidase_2	99.9	1.8E-27			PG_binding_1	99.4	3.7E-13		Siphoviridae.	
		Rh7SpQD	Rhodococcus phage ReqiPine5	ADD81145.1	478	Peptidase_M23	99.9	3.9E-23	Glyco_hydro_25	100.0	5.8E-39					Siphoviridae.
		Rh8XpT	Rhodococcus phage REQ3	YP_005087244.1	250	Peptidase_C39_2	99.8	1.8E-17								Viruses; unclassified phages
Staphylococcus	St1MpA	Staphylococcus phage SA1	ACZ55568.1	154	Phage_lysozyme	100.0	1.5E-34							Myoviridae		
	St2SpY	Staphylococcus phage phi13	NP_803402.1	251	CHAP	99.8	9.4E-22							Siphoviridae		
	St3XpYJ4	Staphylococcus phage phi2958PVL	YP_002268027.1	484	CHAP	99.8	4.0E-19	Amidase_3	100.0	3.4E-39	SH3_5	99.5	1.5E-14	Viruses; unclassified phages		
	St4SpYJ4	Staphylococcus phage phiETA2	YP_001004328.1	470	CHAP	99.8	2.9E-19	Amidase_3	100.0	4.7E-37	SH3_5	98.7	1.6E-08	Siphoviridae		
	St5SpYJ4	Staphylococcus phage phiETA3	YP_001004396.1	470	CHAP	99.8	2.4E-19	Amidase_3	100.0	2.9E-37	SH3_5	98.7	1.5E-08	Siphoviridae		
	St6SpYK4	Staphylococcus phage phiMR11	YP_001604156.1	481	CHAP	99.8	7.2E-20	Amidase_2	99.9	1.3E-23	SH3_5	99.1	2.5E-11	Siphoviridae		
	St7SpYK4	Staphylococcus phage phiMR25	YP_001949866.1	481	CHAP	99.8	6.5E-20	Amidase_2	99.9	1.6E-23	SH3_5	99.2	2.3E-11	Siphoviridae		
	St8SpYJ4	Staphylococcus phage phiNM	YP_874013.1	484	CHAP	99.7	2.2E-19	Amidase_3	100.0	4.4E-39	SH3_5	99.5	4.6E-15	Siphoviridae		
	St9SpY4	Staphylococcus phage phiNM3	YP_908849.1/YP_908851.1	372	CHAP	99.8	9.4E-22				SH3_5	99.9	3.7E-23	Siphoviridae		
	St10SpYJ4	Staphylococcus phage phiPVL108	YP_918945.1	484	CHAP	99.8	3.1E-19	Amidase_3	100.0	1.7E-38	SH3_5	99.6	3.8E-15	Siphoviridae		
	St11XpYJ4	Staphylococcus phage phiPVL-CN125	YP_002939731.1	484	CHAP	99.7	1.0E-18	Amidase_3	100.0	9.5E-39	SH3_5	99.5	1.2E-14	unclassified dsDNA phages		
	St12SpYJ4	Staphylococcus phage phiSauS-IPLA35	YP_002332423.1	484	CHAP	99.8	6.9E-19	Amidase_3	100.0	1.1E-38	SH3_5	99.5	4.0E-14	Siphoviridae		
	St13SpYK4	Staphylococcus phage phiSauS-IPLA88	YP_002332536.1	486	CHAP	99.8	1.3E-19	Amidase_2	99.9	3.6E-23	SH3_5	99.3	5.6E-12	Siphoviridae		
	St14SpYJ4	Staphylococcus phage phiSLT	NP_075522.1	484	CHAP	99.8	2.7E-19	Amidase_3	100.0	1.0E-38	SH3_5	99.5	1.5E-14	Siphoviridae		

Staphylococcus	St15SpYJ4	Staphylococcus phage PVL	NP_058463.1	484	CHAP	99.8	2.7E-19	Amidase_3	100.0	3.9E-39	SH3_5	99.5	8.7E-15	Siphoviridae	
	St16PpY4	Staphylococcus phage SAP-2	YP_001491539.1	249	CHAP	99.8	1.4E-21				SH3_5	99.9	3.7E-24	Podoviridae; Picovirinae; AHJD-like viruses	
	St17SpY	Staphylococcus phage SAP-26	YP_003857094.1	251	CHAP	99.8	9.4E-22							Siphoviridae	
	St18XpYJ4	Staphylococcus phage tp310-1	YP_001429893.1	484	CHAP	99.7	1.0E-18	Amidase_3	100.0	9.5E-39	SH3_5	99.5	1.2E-14	Viruses; unclassified phages	
	St19XpYJ4	Staphylococcus phage tp310-2	YP_001429961.1	484	CHAP	99.8	1.7E-19	Amidase_3	100.0	4.5E-39	SH3_5	99.5	1.1E-14	Viruses; unclassified phages	
	St20XpY	Staphylococcus phage tp310-3	YP_001430017.1	251	CHAP	99.8	9.4E-22							Viruses; unclassified phages	
	St21MpYK4	Staphylococcus phage Twort	YP_238716.1	467	CHAP	99.8	9.0E-21	Amidase_2	99.9	6.5E-24	SH3_5	99.4	2.1E-13	Myoviridae; SPO1-like viruses; unclassified SPO1-like viruses	
	St22SpYJ4	Staphylococcus phage phi11	NP_803306.2	481	CHAP	99.8	4.6E-20	Amidase_2	99.9	1.9E-23	SH3_5	99.4	8.9E-14	Siphoviridae	
	St23SpY	Staphylococcus phage 187	YP_239517.1	251	CHAP	99.8	1.1E-20							Siphoviridae	
	St24SpQK4	Staphylococcus phage 2638A	YP_239818.1	486	Peptidase_M23	99.9	3.5E-24	Amidase_2	99.9	7.9E-25	SH3_5	99.7	1.3E-17	Siphoviridae	
	St25SpYK4	Staphylococcus phage 37	YP_240103.1	481	CHAP	99.8	1.0E-19	Amidase_2	99.9	8.9E-24	SH3_5	99.3	2.1E-12	Siphoviridae	
	St26SpYJ4	Staphylococcus phage 3A	YP_239959.1	484	CHAP	99.7	3.9E-18	Amidase_3	100.0	4.0E-38	SH3_5	99.5	5.7E-14	Siphoviridae	
	St27SpY	Staphylococcus phage 42E	YP_239884.1	251	CHAP	99.8	1.2E-21							Siphoviridae	
	St28PpY4	Staphylococcus phage 44AHJD	NP_817310.1	250	CHAP	99.9	7.6E-22				SH3_5	99.9	2.4E-24	Podoviridae; Picovirinae; AHJD-like viruses	
	St29SpYK4	Staphylococcus phage 29	YP_240560.1	481	CHAP	99.8	8.4E-20	Amidase_2	99.9	2.2E-23	SH3_5	99.1	2.5E-11	Siphoviridae	
	St30SpYK4	Staphylococcus phage 52A	YP_240634.1	481	CHAP	99.8	1.9E-19	Amidase_2	99.9	1.7E-23	SH3_5	99.2	2.6E-11	Siphoviridae	
	St31SpYK4	Staphylococcus phage 53	YP_239676.1	484	CHAP	99.7	7.7E-17	Amidase_3	100.0	4.9E-37	SH3_5	99.7	1.4E-17	Siphoviridae	
	St32SpYK4	Staphylococcus phage 69	YP_239596.1	481	CHAP	99.8	1.1E-19	Amidase_2	99.9	3.8E-23	SH3_5	99.1	2.5E-11	Siphoviridae	
	St33SpYJ4	Staphylococcus phage 71	YP_240407.1	470	CHAP	99.8	3.4E-19	Amidase_3	100.0	2.5E-35	SH3_5	98.9	1.4E-09	Siphoviridae	
	St34SpYJ4	Staphylococcus phage 85	YP_239752.1/YP_239755.1	451	CHAP	99.8	4.2E-20	Amidase_2	99.4	1.3E-13	SH3_5	99.6	4.7E-16	Siphoviridae	
	St35SpYK4	Staphylococcus phage 88	YP_240699.1	481	CHAP	99.8	6.9E-20	Amidase_2	99.9	2.0E-23	SH3_5	99.1	2.8E-11	Siphoviridae	
	St36SpYK4	Staphylococcus phage 92	YP_240773.1	481	CHAP	99.8	7.1E-20	Amidase_2	99.9	2.4E-23	SH3_5	99.1	3.0E-11	Siphoviridae	
	St37SpYJ4	Staphylococcus phage 96	YP_240259.1	484	CHAP	99.8	3.5E-19	Amidase_3	100.0	1.1E-38	SH3_5	99.5	4.7E-14	Siphoviridae	
	St38SpYJ4	Staphylococcus phage X2	YP_240847.1/YP_240849.1	423	CHAP	99.8	9.3E-21	Amidase_2	98.7	3.0E-08	SH3_5	99.5	3.4E-15	Siphoviridae	
	St39SpYK4	Staphylococcus phage 55	YP_240484.1	481	CHAP	99.8	8.8E-20	Amidase_2	99.9	2.2E-23	SH3_5	99.2	1.8E-11	Siphoviridae	
	St40SpY4	Staphylococcus phage 66	YP_239469.1	250	CHAP	99.8	1.0E-21				SH3_5	99.9	1.8E-24	Siphoviridae	
	St41SpYJ4	Staphylococcus phage 77	NP_958622.1	484	CHAP	99.7	2.2E-19	Amidase_3	100.0	4.4E-39	SH3_5	99.5	4.6E-15	Siphoviridae	
	St42SPYJ4	Staphylococcus phage 80alpha	YP_001285385.1	484	CHAP	99.7	6.0E-17	Amidase_3	100.0	1.4E-37	SH3_5	99.7	1.4E-17	Siphoviridae	
	St43SpYJ4	Staphylococcus phage CNPH82	YP_950628.1	460	CHAP	99.7	2.1E-18	Amidase_3	100.0	7.2E-40	SH3_5	97.1	3.7E-04	Siphoviridae	
	St44MpYK	Staphylococcus phage K	YP_950628.1	460	CHAP	99.8	2.0E-19	Amidase_2	99.9	1.5E-23				Myoviridae; SPO1-like viruses; unclassified SPO1-like viruses	
	St45XpY	Staphylococcus phage P954	YP_003169697.1	251	CHAP	99.8	9.4E-22							unclassified dsDNA phages	
	St46SpYK4	Staphylococcus phage PH15	YP_950690.1	460	CHAP	99.7	2.8E-18	Amidase_3	100.0	2.5E-39	SH3_5	97.2	3.4E-04	Siphoviridae	
	St47SpYJ4	Staphylococcus phage phi 12	NP_803355.1	484	CHAP	99.8	7.2E-19	Amidase_3	100.0	8.8E-39	SH3_5	99.5	3.6E-14	Siphoviridae	
	St48SpYK4	Staphylococcus phage EW	YP_240182.1	482	CHAP	99.8	7.9E-20	Amidase_2	99.9	8.3E-24	SH3_5	99.3	2.7E-12	Siphoviridae	
	St49SpYJ4	Staphylococcus phage TEM126	ADV76514.1	484	CHAP	99.8	3.5E-19	Amidase_3	100.0	3.5E-38	SH3_5	99.6	3.1E-16	Siphoviridae	
	St50PpY4	Staphylococcus phage S13'	BAL42323.1	253	CHAP	99.9	2.3E-22				SH3_5	99.9	3.6E-24	Podoviridae; Picovirinae; AHJD-like viruses.	
	St51SpY	Staphylococcus prophage phiPV83	NP_061648.1	251	CHAP	99.8	8.5E-22							Siphoviridae	
	St52SpYJ4	Staphylococcus phage phiETA	NP_510959.1	470	CHAP	99.8	2.8E-19	Amidase_3	100.0	1.7E-37	SH3_5	98.7	1.7E-08	Siphoviridae	
	St53PpY4	Staphylococcus phage S24-1	YP_004957430.1	250	CHAP	99.8	1.1E-21				SH3_5	99.9	2.7E-24	Podoviridae; Picovirinae; AHJD-like viruses.	
	St54MpYK4	Staphylococcus phage G1	AAX92124.1/AAX92142.1	477	CHAP	99.8	2.7E-19	Amidase_2	99.7	2.9E-17	SH3_5	99.6	2.1E-15	Myoviridae; Spounavirinae; Twortlikevirus.	
	Streptococcus	Sc1SpS	Streptococcus phage 2972	YP_238509.1	199	Amidase_5	99.9	8.8E-26							Siphoviridae
		Sc2SpS	Streptococcus phage 5093	YP_002925118.1	281	Amidase_5	100.0	1.7E-29							Siphoviridae
		Sc3SpS	Streptococcus phage 7201	NP_038345.1	281	Amidase_5	100.0	7.2E-29							Siphoviridae
		Sc4SpS	Streptococcus phage 858	YP_001686822.1	200	Amidase_5	99.9	3.0E-26							Siphoviridae
		Sc5SpS	Streptococcus phage Abc2	YP_003347431.1	281	Amidase_5	100.0	1.9E-29							Siphoviridae
		Sc6SpS	Streptococcus phage ALQ13.2	YP_003344870.1	200	Amidase_5	99.9	1.1E-26							Siphoviridae
		Sc7PpY	Streptococcus phage C1 (PLYCA)	NP_852017.2	465							CHAP	98.7	9.7E-09	Podoviridae; Picovirinae; AHJD-like viruses
		Sc8PpD90	Streptococcus phage Cp-1	NP_044837.1	339	Glyco_hydro_25	100.0	2.4E-40				FOG	100.0	9.2E-32	Podoviridae; picovirinae; unassigned picovirinae
		Sc9SpS90	Streptococcus phage Dp-1	YP_004306947.1	296	Amidase_5	99.9	8.8E-27				FOG	100.0	3.4E-30	Siphoviridae
		Sc10SpS	Streptococcus phage DT1	NP_049413.1	200	Amidase_5	100.0	1.7E-27							Siphoviridae
		Sc11MpK90	Streptococcus phage EJ-1	NP_945312.1	316	Amidase_2	99.9	6.6E-23				FOG	100.0	6.3E-31	Myoviridae
		Sc12SpD	Streptococcus phage M102	YP_002995476.1	273	Glyco_hydro_25	100.0	3.6E-44							Siphoviridae
Sc13SpY		Streptococcus phage M102 (another)	YP_002995477.1	171	CHAP	99.8	4.9E-21							Siphoviridae	
Sc14SpK90		Streptococcus phage MM1	NP_150182.1	318	Amidase_2	99.9	2.0E-22				FOG	100.0	1.3E-30	Siphoviridae	
Sc15SpS		Streptococcus phage O1205	NP_695129.1	281	Amidase_5	99.9	1.1E-25							Siphoviridae	
Sc16SpHY4		Streptococcus phage P9	YP_001469230.1	400	Glucosaminidase	100.0	1.4E-31	CHAP	99.8	2.5E-19	SH3_5	99.9	3.1E-22	Siphoviridae	
Sc17SpD90		Streptococcus phage PH10	YP_002925184.1	334	Glyco_hydro_25	100.0	8.1E-42				FOG	100.0	5.8E-33	Siphoviridae	
Sc18SpS		Streptococcus phage PH15	YP_001974380.1	283	Amidase_5	99.9	3.8E-27							Siphoviridae	
Sc19SpY4		Streptococcus phage phi3396	YP_001039943.1	258	CHAP	99.8	2.3E-19				SH3_5	99.9	6.1E-25	Siphoviridae	
Sc20SpS		Streptococcus phage Sfi11	NP_056699.1	288	Amidase_5	100.0	8.0E-29							Siphoviridae	
Sc21SpS		Streptococcus phage Sfi19	NP_049942.1	288	Amidase_5	100.0	6.7E-31							Siphoviridae	
Sc22SpS		Streptococcus phage Sfi21	NP_049985.1	288	Amidase_5	100.0	8.0E-29							Siphoviridae	
Sc23SpS90		Streptococcus phage SM1	NP_862895.1	295	Amidase_5	99.9	5.0E-27				FOG	100.0	1.6E-30	Siphoviridae	
Sc24SpSH77		Streptococcus phage SMP	YP_950557.1	481	Amidase_5	99.9	2.7E-26	Cpl-7	99.5/99.9	2.4E-14/2.5E-09	Glucosaminidase	100.0	1.8E-29	Siphoviridae	
Sc25XpY4		Streptococcus phage YMC-2011	AEJ54375.1	248	CHAP	99.8	3.1E-21				SH3_5	99.9	1.8E-24	Viruses; unclassified phages	
Sc26XpHY4		Streptococcus pyogenes phage 315.1	NP_795423.1	402	Glucosaminidase	100.0	8.5E-30	CHAP	99.6	2.4E-15	SH3_5	99.9	3.7E-22	Viruses; unclassified phages	
Sc27XpHY4		Streptococcus pyogenes phage 315.2	NP_795485.1	402	Glucosaminidase	100.0	1.1E-29	CHAP	99.6	4.1E-15	SH3_5	99.9	4.5E-22	Viruses; unclassified phages	
Sc28XpSH7		Streptococcus pyogenes phage 315.3	NP_795538.1	404	Amidase_5	100.0	3.5E-30	Cpl-7	99.2	7.2E-12	Glucosaminidase	100.0	1.9E-30	Viruses; unclassified phages	
Sc29XpHY4		Streptococcus pyogenes phage 315.4	NP_795599.1	400	Glucosaminidase	100.0	1.9E-29	CHAP	99.6	8.4E-16	SH3_5	99.9	2.2E-22	Viruses; unclassified phages	
Sc30XpY4		Streptococcus pyogenes phage 315.5	NP_795653.1	254	CHAP	99.7	2.9E-18				SH3_5	99.9	4.3E-24	Viruses; unclassified phages	
Sc31XpH		Streptococcus pyogenes phage 315.6	NP_795706.1/NP_795707.1	307	Glucosaminidase	99.8	4.2E-21	CHAP	99.7	9.1E-18	SH3_5	99.9	3.3E-23	Viruses; unclassified phages	
Sc32SpHY4		Temperate phage phiNIH1.1	NP_438163.1	400	Glucosaminidase	100.0	1.9E-29	CHAP	99.6	8.4E-16	SH3_5	99.9	2.2E-22	Siphoviridae	
Sc33XpY		Streptococcus phage phi-m46.1	CAR95425.1	121	CHAP	99.7	3.3E-18							Viruses; unclassified phages.	
Sc34XpJS22	Streptococcus phage phi-SsUD.1	CBR26921.1	489	Amidase_3	100.0	7.1E-36	LysM	98.5/99.0	7.4E-08/2.4E-10	NLPC_P60	99.7	7.7E-19	Viruses; unclassified phages.		
Sc35XpK90	Streptococcus phage 23782	CBW39083.1	318	Amidase_2	99.9	1.0E-22				FOG	100.0	2.6E-30	Viruses; unclassified phages.		
Tsukamurella	Ts1SpK88	Tsukamurella phage TPA2	YP_004286296.1	535			Amidase_2	99.9	1.4E-23	LGFP	99.6/99.6	1.6E-15/2.2E-16	Siphoviridae		

Gram Negative Host	CODE	Phage name	protein ID	Size (aa)	SAR	N-terminal	Prob	E-Value	Middle	Prob	E-Value	C-terminal	Prob	E-value	Phage classification
Acinetobacter	Ac1MnJ	Acinetobacter phage Ac42	YP_004009379.1	177		Amidase_3	100.0	3.3E-48							Myoviridae; T4-like viruses
	Ac2MnA	Acinetobacter phage Acj61	YP_004009630.1	190		Phage_lysozyme	100.0	1.4E-32							Myoviridae; T4-like viruses
	Ac3MnJ	Acinetobacter phage Acj9	YP_004010153.1	172		Amidase_3	100.0	6.0E-48							Myoviridae; T4-like viruses
Aeromonas	Ae1MnA	Aeromonas phage PX29	ADQ53036.1	165		Phage_lysozyme	100.0	3.9E-29							Myoviridae; T4-like viruses
	Ae2MnB	Aeromonas phage PAS-1	AEM36042.1	153		Muramidase	100.0	1.5E-51							Myoviridae
	Ae3PnA	Aeromonas phage phiAS7	AEZ65050.1	112		Phage_lysozyme	100.0	4.8E-31							Podoviridae; Autographivirinae; unassigned Autographivirinae
	Ae4MnA	Aeromonas phage phiAS4	YP_003969055.1	164		Phage_lysozyme	99.9	6.3E-28							Myoviridae; T4-like viruses
	Ae5MnA	Aeromonas phage 44RR.2t	NP_932578.1	164		Phage_lysozyme	99.9	1.9E-28							Myoviridae; T4-like viruses
	Ae6MnA	Aeromonas phage 25	YP_656449.1	164		Phage_lysozyme	100.0	1.4E-29							Myoviridae; T4-like viruses; unclassified T4-like viruses
	Ae7MnA	Aeromonas phage 31	YP_238949.1	164		Phage_lysozyme	99.9	1.8E-28							Myoviridae; T4-like viruses; unclassified T4-like viruses
	Ae8MnA	Aeromonas phage Aeh1	NP_944217.1	165		Phage_lysozyme	100.0	9.8E-29							Myoviridae; T4-like viruses
	Ae9MnB	Aeromonas phage phiO18P	YP_001285657.1	153		Muramidase	100.0	7.9E-52							Myoviridae; P2-like viruses
	Ae10MnA	Aeromonas phage 65	YP_004300997.1	166		Phage_lysozyme	99.9	1.7E-28							Myoviridae; T4-like viruses
	Ae11MnA	Aeromonas phage phiAS5	YP_003969406.1	165		Phage_lysozyme	99.9	7.8E-28							Myoviridae; T4-like viruses
Azospirillum	Az1SnA	Azospirillum phage Cd	YP_001686894.1	148		Phage_lysozyme	100.0	5.2E-34							Siphoviridae
Aggregatibacter	Ag1MnC	Aggregatibacter phage S1249	YP_003344813.1	193		Glyco_hydro_19	100.0	2.1E-40							Myoviridae; unclassified Myoviridae
Bacteroides	Ba1SnO	Bacteroides phage B40-8	YP_002221548.1	132		Peptidase_M15_3	100.0	1.1E-38							Siphoviridae; unclassified Siphoviridae
	Ba2XnO	Bacteroides phage B124-14	YP_005102482.1	131		Peptidase_M15_3	100.0	4.3E-39							Viruses; unclassified phages
Burkholderia	Bu1MnC	Burkholderia phage BcepF1	YP_001039778.1	218		Glyco_hydro_19	100.0	3.5E-42							Myoviridae; unclassified Myoviridae; Bcep781 - like phages
	Bu2MnA	Burkholderia phage BcepB1A	YP_024909.1	165		Phage_lysozyme	100.0	3.6E-33							Myoviridae; unclassified Myoviridae
	Bu3PnA	Burkholderia phage Bcep22	YP_001531197.1	174	SAR	Phage_lysozyme	100.0	6.6E-33							Podoviridae; unclassified Podoviridae
	Bu4SnB	Burkholderia phage BcepNazgul	NP_918971.2	177		Muramidase	100.0	1.0E-48							Siphoviridae; unclassified Siphoviridae
	Bu5MnF	Burkholderia phage phiE255	YP_001111252.1	203		SLT	99.9	3.2E-25							Myoviridae; unclassified Myoviridae
	Bu6SnO	Burkholderia phage KS9	YP_003090199.1	149		Peptidase_M15_3	100.0	2.0E-37							Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses
	Bu7SnA	Burkholderia phage phi1026b	NP_945054.1	163		Phage_lysozyme	100.0	1.1E-33							Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses
	Bu8SnA	Burkholderia phage phiE125	NP_536381.1	134		Phage_lysozyme	100.0	7.9E-36							Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses
	Bu9PnB	Burkholderia phage BcepC6B	YP_024942.1	164		Muramidase	100.0	1.9E-48							Podoviridae; Bpp-1-like viruses
	Bu10SnA	Burkholderia phage Bcep176	YP_355393.1	165		Phage_lysozyme	100.0	3.1E-34							Siphoviridae
	Bu11PnA	Burkholderia phage BcepIL02	YP_002922746.1	174		Phage_lysozyme	100.0	3.5E-33							Podoviridae
	Bu12MnF	Burkholderia phage BcepMu	YP_024695.1	203		SLT	99.9	1.0E-25							Myoviridae; Mu-like viruses
	Bu13MnF	Burkholderia phage KS10	YP_002221425.1	223		SLT	99.9	1.8E-24							Myoviridae
	Bu14SnA	Burkholderia phage phi644-2	YP_001111104.1	171		Phage_lysozyme	100.0	1.8E-32							Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses
Brucella	Br1XnE1	Brucella phage Tb	AEY69699.1	271		Glyco_hydro_108	100.0	4.9E-35				PG_binding_3	99.9	7.0E-23	Viruses; unclassified phages
Campylobacter	Ca1MnF	Campylobacter phage CP220	CBJ93929.1	224		SLT	98.0	1.1E-05							Myoviridae
	Ca2MnF	Campylobacter phage CPT10	CBJ94327.1	224		SLT	98.0	1.1E-05							Myoviridae
Candidatus	Cn1PnA	Acyrtosiphon pisum bacteriophage APSE-1	NP_050974.1	146		Phage_lysozyme	100.0	5.9E-36							Podoviridae
	Cn2PnA	Bacteriophage APSE-2	ACJ10174.1	155		Phage_lysozyme	100.0	7.6E-36							Podoviridae; unclassified Podoviridae
	Cn3XnA	Bacteriophage APSE-4	J10096.1	146		Phage_lysozyme	100.0	8.9E-35							Viruses; unclassified phages
	Cn4XnA	Bacteriophage APSE-7	ACJ10111.1	146		Phage_lysozyme	100.0	4.3E-35							Viruses; unclassified phages
	Cn5XnA	Bacteriophage APSE-5	ACJ10082.1	146		Phage_lysozyme	100.0	1.1E-34							Viruses; unclassified phages
	Cn6XnA	Bacteriophage APSE-3	ACJ10123.1	157		Phage_lysozyme	100.0	1.9E-35							Viruses; unclassified phages
	Cn7XnA	Bacteriophage APSE-6	ACJ10136.1	157		Phage_lysozyme	100.0	8.8E-36							Viruses; unclassified phages
Caulobacter	Cu1PnA	Caulobacter phage Cd1	ADD21680.1	185	SAR	Phage_lysozyme	100.0	1.8E-33							Podoviridae; Autographivirinae; unclassified phiKMV-like phages
Clavibacter	Cl1XnM	Clavibacter phage CN77	ACY27520.1	290		VanY	100.0	3.4E-33							Viruses; unclassified phages
Cronobacter	Cr1XnC	Cronobacter phage ENT47670	ADZ13641.1	204		Glyco_hydro_19	100.0	1.0E-39							Viruses; unclassified phages
	Cr2SnA	Cronobacter phage ESP2949-1	AEM24793.1	169		Phage_lysozyme	100.0	1.6E-33							Siphoviridae; T1-like viruses; unclassified T1-like viruses
	Cr3XnA	Cronobacter phage ES2	AEM24706.1	164	SAR	Phage_lysozyme	100.0	7.9E-35							Viruses; unclassified phages
	Cr4XnC	Cronobacter phage ENT39118	ADZ13601.1	207		Glyco_hydro_19	100.0	1.4E-40							Viruses; unclassified phages.
Delftia	De1MnC	Delftia phage phiW-14	YP_003358866.1	196		Glyco_hydro_19	100.0	3.9E-40							Myoviridae; unclassified Myoviridae
Enterobacter	En1SnA	Enterobacteria phage F20	AEQ39188.1	159		Phage_lysozyme	100.0	2.1E-35							Siphoviridae
Escherichia	Es1PnC	Escherichia phage TL-2011b	AEW24559.1	209		Glyco_hydro_19	100.0	1.5E-42							Podoviridae
	Es2MnB	Escherichia phage vB_EcoM_ECO1230-10	ADE87938.1	162		Muramidase	100.0	5.2E-52							Myoviridae
	Es3SnC	Escherichia phage HK639	YP_004934099.1	209		Glyco_hydro_19	100.0	2.9E-40							Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses.
	Es4PnC	Escherichia phage phiV10	YP_512283.1	209		Glyco_hydro_19	100.0	4.1E-41							Podoviridae.
	Es5MnB	Escherichia phage rv5	YP_002003587.1	156		Muramidase	100.0	7.4E-52							Myoviridae.
	Es6PnE1	Escherichia phage vB_EcoP_G7C	YP_004782192.1	211	SAR	Glyco_hydro_108	100.0	2.7E-36				PG_binding_3	99.9	1.2E-21	Podoviridae; N4-like viruses; unclassified N4-like viruses.
	Es7SnA	Escherichia phage K1H	ADA82342.1	162		Phage_lysozyme	100.0	8.2E-35							Siphoviridae;
	Es8SnA	Escherichia phage K1ind3	ADA82488.1	161		Phage_lysozyme	100.0	9.9E-35							Siphoviridae;
	Es9SnA	Escherichia phage K1G	ADA82292.1	161		Phage_lysozyme	100.0	8.5E-35							Siphoviridae;
	Es10MnA	Escherichia phage wV7	AEM00790.1	164		Phage_lysozyme	99.9	2.2E-27							Myoviridae; T4-like viruses.
	Es11SnB	Escherichia phage HK75	YP_004934160.1	158		Muramidase	100.0	7.8E-52							Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses
	Es12SnA	Stx2-converting phage 1717	YP_002274257.1	165	SAR	Phage_lysozyme	100.0	4.7E-35							Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses.
	Es13SnA	Stx2-converting phage 86	YP_794054.1	177	SAR	Phage_lysozyme	100.0	1.4E-32							Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses.
	Es14SnA	Stx2 converting phage II	YP_003828995.1	177	SAR	Phage_lysozyme	100.0	6.5E-33							Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses.
	Es15XnA	Escherichia phage phiEB49	AEI91208.1	160		Phage_lysozyme	100.0	7.4E-35							Viruses; unclassified phages
	Es16SnA	Enterobacteria phage T1	YP_003933.1	162		Phage_lysozyme	100.0	1.5E-34							Siphoviridae; T1-like viruses
	Es17PnK	Enterobacteria phage T3	NP_523313.1	151		Amidase_2	100.0	1.3E-30							Podoviridae; Autographivirinae; T7-like viruses.
	Es18MnA	Enterobacteria phage T4	NP_049736.1	164		Phage_lysozyme	100.0	1.8E-28							Myoviridae; T4-like viruses
	Es19SnM	Enterobacteria phage T5	YP_006868.1	137		VanY	99.7	8.6E-18							Siphoviridae; T5-like viruses
	Es20SnA	Enterobacteria phage TLS	YP_001285558.1	164		Phage_lysozyme	100.0	2.3E-34							Siphoviridae; T1-like viruses; unclassified T1-like viruses.

Escherichia	Es21MnA	Enterobacteria phage vB_EcoM-VR7	YP_004063811.1	162	Phage_lysozyme	99.9	4.3E-28			Myoviridae; T4-like viruses.	
	Es22MnA	Enterobacteria phage WV8	YP_002922821.1	154	Phage_lysozyme	100.0	4.2E-34			Myoviridae.	
	Es23PnA	Enterobacteria phage Min27	ABY49900.1	177	SAR Phage_lysozyme	100.0	6.5E-33			Podoviridae; unclassified Podoviridae	
	Es24SnB	Enterobacteria phage lambda	NP_040645.1	158	Muramidase	100.0	6.2E-52			Siphoviridae; Lambda-like viruses	
	Es25PnK	Enterobacteria phage K1F	YP_338105.1	152	Amidase_2	100.0	7.1E-31			Podoviridae; Autographivirinae; T7-like viruses	
	Es26PnB	Enterobacteria phage IME10	AER08021.1	158	Muramidase	100.0	4.6E-52			Podoviridae	
	Es27MnB	Enterobacteria phage vB_EcoM-FV3	AEZ65218.1	162	Muramidase	100.0	4.0E-49			Myoviridae	
	Es28PnA	Escherichia phage TL-2011c	AEW24625.1	177	SAR Phage_lysozyme	100.0	7.4E-33			Podoviridae	
	Es29MnA	Enterobacteria phage Bp7	AEN93735.1	162	Phage_lysozyme	100.0	1.3E-29			Myoviridae; T4-like viruses	
	Es30MnM	Enterobacteria phage RB49	NP_891673.1	129	VanY	99.9	3.8E-25			Myoviridae; T4-like viruses; unclassified T4-like viruses	
	Es31SnA	Enterobacteria phage RTP	YP_399008.1	161	SAR Phage_lysozyme	100.0	3.0E-35			Siphoviridae; T1-like viruses; unclassified T1-like viruses	
	Es32SnA	Enterobacteria phage BP-4795	YP_001449285.1	177	Phage_lysozyme	100.0	1.0E-32			Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses	
	Es33PnK	Enterobacteria phage BA14	YP_002003466.1	151	Amidase_2	100.0	3.4E-30			Podoviridae; Autographivirinae; T7-like viruses; unclassified T7-like viruses	
	Es34PnK	Enterobacteria phage 285P	YP_004300550.1	151	Amidase_2	100.0	2.6E-30			Podoviridae; Autographivirinae; T7-like viruses; unclassified T7-like viruses	
	Es35OnF	Enterobacteria phage PRD1	NP_040700.1	353	SLT	99.8	8.1E-22			Tectiviridae; tectivirus	
	Es36MnA	Enterobacteria phage P1	YP_006484.1	185	SAR Phage_lysozyme	100.0	1.6E-32			Myoviridae; P1-like viruses	
	Es37MnA	Enterobacteria phage JS98	YP_001595245.1	162	Phage_lysozyme	100.0	8.3E-29			Myoviridae; T4-like viruses; unclassified T4-like viruses; Enterobacteria phage JS	
	Es38MnA	Enterobacteria phage AR1	BAI83135.1	164	Phage_lysozyme	99.9	2.2E-27			Myoviridae; T4-like viruses; unclassified T4-like viruses	
	Es39MnB	Enterobacteria phage SfV	NP_599082.1	158	Muramidase	100.0	1.2E-51			Myoviridae; unclassified Myoviridae	
	Es40OnF	Bacteriophage PR772	AAR99764.1	357	SLT	99.8	1.8E-21			Tectiviridae; tectivirus; Enterobacteria phage PRD1	
	Es41OnF	Enterobacteria phage PR5	AAX45647.1	357	SLT	99.8	1.2E-21			Tectiviridae; tectivirus; Enterobacteria phage PRD1	
	Es42OnF	Enterobacteria phage PR4	AAX45616.1	357	SLT	99.8	1.3E-21			Tectiviridae; tectivirus; Enterobacteria phage PRD1	
	Es43PnK	Enterobacteria phage T7	NP_041973.1	151	Amidase_2	100.0	5.8E-31			Podoviridae; Autographivirinae; T7-like viruses	
	Es44PnA	Enterobacteria phage phiEco32	YP_001671762.1	163	Phage_lysozyme	100.0	2.9E-33			Podoviridae; PhiEco32-like viruses	
	Es45SnA	Enterobacteria phage A5	ABF71471.1	72	Phage_lysozyme	99.9	6.3E-25			Siphoviridae; T1-like viruses; unclassified T1-like viruses	
	Es46MnB	Enterobacteria phage 186	AAC34155.1	165	Muramidase	100.0	1.2E-49			Myoviridae; P2-like viruses; Enterobacteria phage P2	
	Es47SnB	Enterobacteria phage HK022	AAF30387.1	158	Muramidase	100.0	1.2E-49			Siphoviridae; Lambda-like viruses	
	Es48MnA	Enterobacteria phage JS10	YP_002922463.1	162	Phage_lysozyme	100.0	8.3E-29			Myoviridae; T4-like viruses; unclassified T4-like viruses	
	Es49MnB	Enterobacteria phage P2	NP_046765.1	165	Muramidase	100.0	1.3E-49			Myoviridae; Peduovirinae; P2-like viruses	
	Es50PnA	Enterobacteria phage 933W (sensu lato)	NP_049505.1	177	SAR Phage_lysozyme	100.0	6.5E-33			Podoviridae; unclassified Podoviridae; Enterobacteria phage 933W sensu lato	
	Es51SnA	Enterobacteria phage JK06	YP_277498.1	160	Phage_lysozyme	100.0	1.1E-34			Siphoviridae; unclassified Siphoviridae	
	Es52SnA	Enterobacteria phage N15	NP_046950.1	178	Phage_lysozyme	100.0	1.9E-32			Siphoviridae; N15-like viruses	
	Es53PnO	Enterobacteria phage K1E	YP_425023.1	114	Peptidase_M15_3	100.0	3.8E-39			Podoviridae; Autographivirinae	
	Es54PnO	Enterobacteria phage K1-5	YP_654144.1	114	Peptidase_M15_3	100.0	1.8E-39			Podoviridae; Autographivirinae	
	Es55MnM	Enterobacteria phage JSE	YP_002922178.1	129	VanY	99.9	2.8E-27			Myoviridae; T4-like viruses	
	Es56MnA	Enterobacteria phage IME08	YP_003734260.1	165	Phage_lysozyme	100.0	1.3E-28			Myoviridae; T4-like viruses	
	Es57SnB	Enterobacteria phage HK97	NP_037753.1	158	Muramidase	100.0	7.8E-52			Siphoviridae; Lambda-like viruses	
	Es58MnM	Enterobacteria phage RB43	YP_239135.1	131	VanY	99.6	1.3E-16			Myoviridae; T4-like viruses	
	Es59MnP	Enterobacteria phage RB16	YP_003858447.1	131				Peptidase_M15_4	99.7	1.7E-17	Myoviridae; T4-like viruses
	Es60MnM	Enterobacteria phage phiP27	NP_543082.1	125	VanY	99.9	2.4E-24			Myoviridae	
	Es61MnM	Enterobacteria phage phiEcoM-GJ1	YP_001595416.1	131	VanY	99.9	1.4E-25			Myoviridae	
	Es62MnM	Enterobacteria phage Phi1	YP_001469446.1	129	VanY	99.9	5.6E-25			Myoviridae; T4-like viruses	
	Es63PnK	Enterobacteria phage EcoDS1	YP_002003756.1	152	Amidase_2	100.0	5.6E-30			Podoviridae; Autographivirinae; T7-like viruses	
	Es64SnA	Enterobacteria phage cdtI	YP_001272571.1	165	SAR Phage_lysozyme	100.0	4.5E-35			Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses	
	Es65MnA	Enterobacteria phage CC31	YP_004009990.1	164	Phage_lysozyme	99.9	3.1E-28			Myoviridae; T4-like viruses	
	Es66PnK	Enterobacteria phage K30	YP_004678738.1	151	Amidase_2	100.0	7.7E-31			Podoviridae; Autographivirinae; T7-like viruses	
	Es67PnB	Enterobacteria phage CUS-3	ABQ88407.1	158	Muramidase	100.0	1.1E-51			Podoviridae; P22-like viruses	
	Es68SnA	Stx1 converting phage	BAC77971.1	177	SAR Phage_lysozyme	100.0	6.5E-33			Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses	
	Es69PnA	Stx2 converting phage I	BAB88004.1	177	SAR Phage_lysozyme	100.0	1.5E-32			Podoviridae; unclassified Podoviridae; Enterobacteria phage 933W sensu lato	
	Es70SnA	Stx1-converting phage phi-O153	AAW21764.1	177	SAR Phage_lysozyme	100.0	1.8E-32			Siphoviridae; Lambda-like viruses; unclassified Lambda-like viruses	
	Es71MnA	Escherichia phage D108	YP_003335769.1	171	SAR Phage_lysozyme	100.0	1.1E-33			Myoviridae; Mu-like viruses; unclassified Mu-like viruses	
	Es72OnF	Enterobacteria phage PR3	AAX45585.1	357	SLT	99.8	2.9E-21			Tectiviridae; Tectiviridae	
	Es73SnM	Enterobacteria phage SPC35	YP_004306522.1	137	VanY	99.9	9.7E-23			Siphoviridae; T5-like viruses; unclassified T5-like viruses	
	Es74PnE1	Enterobacteria phage N4	YP_950539.1	208	SAR Glyco_hydro_108	100.0	3.4E-36			Podoviridae; N4-like viruses	
	Es75MnA	Enterobacteria phage Mu	NP_050626.1	171	SAR Phage_lysozyme	100.0	7.4E-34			Myoviridae; Mu-like viruses	
	Es76MnA	Enterobacteria phage RB69	NP_861818.1	157	Phage_lysozyme	99.9	2.3E-28			Myoviridae; T4-like viruses; unclassified T4-like viruses	
	Es77MnA	Enterobacteria phage RB14	YP_002854463.1	164	Phage_lysozyme	99.9	1.9E-27			Myoviridae; T4-like viruses; unclassified T4-like viruses	
	Es78MnA	Enterobacteria phage RB32	ABI94948.1	164	Phage_lysozyme	99.9	2.2E-27			Myoviridae; T4-like viruses; unclassified T4-like viruses	
	Es79MnA	Enterobacteria phage RB51	YP_002854084.1	164	Phage_lysozyme	99.9	2.2E-27			Myoviridae; T4-like viruses; unclassified T4-like viruses	
	Es80OnF	Enterobacteria phage L17	AAX45554.1	357	SLT	99.8	2.9E-21			Tectiviridae; tectivirus; Enterobacteria phage PRD1	
	Erwinia	Er1XnA	Erwinia phage phiEa116	CCA66256.1	134	Phage_lysozyme	100.0	8.8E-32			Viruses; unclassified phages
		Er2MnA	Erwinia phage vB_EamM-M7	AEJ81266.1	157	Phage_lysozyme	100.0	2.9E-34			Myoviridae
		Er3PnE1	Erwinia phage vB_EamP-S6	AEJ81610.1	179	Glyco_hydro_108	100.0	9.4E-38			Podoviridae; N4-like viruses; unclassified N4-like viruses
		Er4MnM	Erwinia phage vB_EamM-Y2	AEJ81402.1	132	VanY	99.9	6.7E-27			Myoviridae
		Er5PnK	Erwinia phage vB_EamP-L1	AEJ81484.1	149	Amidase_2	100.0	1.9E-31			Podoviridae; Autographivirinae; T7-like viruses
		Er6MnA	Erwinia phage phiEa21-4	YP_002456060.1	157	Phage_lysozyme	100.0	1.2E-33			Myoviridae.
		Er7MnA	Erwinia phage phiEa104	YP_004327012.1	157	Phage_lysozyme	100.0	1.2E-33			Myoviridae.
		Er8PnA	Erwinia phage Era103	YP_001039680.1	178	Phage_lysozyme	100.0	7.9E-32			Podoviridae; Autographivirinae; SP6-like viruses
	Flavobacterium	Fl1SnC	Flavobacterium phage 11b	YP_112524.1	166	Glyco_hydro_19	100.0	7.1E-42			Siphoviridae.
	Haemophilus	Ha1MnK	Haemophilus phage SuMu	AE642272.1	180	Amidase_2	99.9	1.2E-27			Myoviridae; Mu-like viruses; unclassified Mu-like viruses
		Ha2MnA	Haemophilus phage HP1	NP_043495.1	186	SAR Phage_lysozyme	100.0	2.4E-33			Myoviridae; Peduovirinae; P2-like viruses.
		Ha3MnA	Haemophilus phage HP2	NP_536831.1	179	SAR Phage_lysozyme	100.0	3.0E-33			Myoviridae; Peduovirinae; P2-like viruses.
		Ha4MnC	Haemophilus phage Aaphi23	NP_852750.1	193	Glyco_hydro_19	100.0	3.5E-40			Myoviridae.
	Halomonas	HI1MnE1	Halomonas phage phiHAP-1	YP_001686781.1	211	Glyco_hydro_108	100.0	1.6E-36			Myoviridae.
	Iodobacteria	Iol1MnA	Iodobacteriophage phiPLPE	YP_002128449.1	167	SAR Phage_lysozyme	100.0	1.6E-33			Myoviridae



Klebsiella	KI1PnK	Klebsiella phage K11	YP_002003804.1	151	Amidase_2	100.0	4.0E-30						Podoviridae; Autographivirinae; T7-like viruses.	
	KI2PnK	Klebsiella phage KP32	YP_003347533.1	151	Amidase_2	100.0	1.2E-30						Podoviridae; Autographivirinae; T7-like viruses; unclassified T7-like viruses	
	KI3MnP	Klebsiella phage KP15	YP_003580002.1	131						Peptidase_M15_4	99.7	2.7E-17	Myoviridae; T4-like viruses.	
	KI4MnA	Enterobacteria phage vB_KleM-RaK2	AFA44346.1	162	Phage_lysozyme	99.9	1.9E-28						Myoviridae.	
Kluyvera	Ku1PnK	Kluyvera phage Kvp1	YP_002308397.1	151	Amidase_2	100.0	8.9E-31						Podoviridae; Autographivirinae; T7-like viruses.	
Mannheimia	Ma1MnA	Mannheimia phage phiMHaA1	YP_655477.1	188	Phage_lysozyme	100.0	1.2E-32						Myoviridae; Peduovirinae; P2-like viruses.	
	Ma2MnA	Mannheimia phage phiMhaA1-PHL101	ABD90561.1	188	Phage_lysozyme	100.0	1.2E-32						Myoviridae; P2-like viruses; unclassified P2-like viruses; Mannheimia phage phiMHaA1	
Morganella	Mo1PnK	Morganella phage MmP1	YP_002048642.1	153	Amidase_2	100.0	1.0E-30						Podoviridae; Autographivirinae; T7-like viruses.	
Pantoea	Pa1PnA	Pantoea phage LIMELight	CBW54813.1	215	Phage_lysozyme	100.0	7.5E-32						Podoviridae; Autographivirinae; unclassified phiKMV-like phages	
	Pa2PnE1	Pantoea phage LIMeZero	YP_004539128.1	175	Glyco_hydro_108	100.0	3.8E-37			PG_binding_3	99.9	3.2E-24	Podoviridae; Autographivirinae; unclassified phiKMV-like phages.	
unclassified Alphaproteobacteria (miscellaneous)	Un1SnP	Phage phiJL001	YP_224014.1	106	Peptidase_M15_4	99.9	1.0E-21						Siphoviridae.	
Planktothrix	Pl1XnQ	Planktothrix phage PaV-LD	YP_004957396.1	197						Peptidase_M23	100.0	4.9E-30	Viruses; unclassified phages	
Pseudoalteromonas	Pe1SnO	Pseudoalteromonas phage H105/1	YP_004327143.1	113	Peptidase_M15_3	100.0	1.0E-38						Siphoviridae.	
Pseudomonas	Ps1PnA	Pseudomonas phage LKA1	YP_001522894.1	183	SAR Phage_lysozyme	100.0	2.3E-31						Podoviridae; Autographivirinae	
	Ps2SnF	Pseudomonas phage B3	YP_164061.1	264	SLT	99.9	2.9E-23						Siphoviridae	
	Ps3SnB	Pseudomonas phage D3	NP_061527.1	160	Muramidase	100.0	7.5E-52						Siphoviridae	
	Ps4SnC	Pseudomonas phage F10	YP_001293405.1	205	Glyco_hydro_19	100.0	6.8E-42						Siphoviridae	
	Ps5PnA	Pseudomonas phage F116	YP_164326.1	177	Phage_lysozyme	100.0	1.9E-32						Podoviridae	
	Ps6MnC	Pseudomonas phage F8	YP_001294463.1	220	Glyco_hydro_19	100.0	1.4E-44						Myoviridae	
	Ps7PnK	Pseudomonas phage gh-1	NP_813758.1	146	Amidase_2	100.0	2.3E-31						Podoviridae; Autographivirinae; T7-like viruses	
	Ps8MnC	Pseudomonas phage LBL3	YP_002154189.1	220	Glyco_hydro_19	100.0	2.9E-48						Myoviridae	
	Ps9PnA	Pseudomonas phage LKD16	YP_001522837.1	160	Phage_lysozyme	100.0	6.7E-33						Podoviridae; Autographivirinae	
	Ps10MnC	Pseudomonas phage LMA2	YP_002154280.1	220	Glyco_hydro_19	100.0	9.1E-47						Myoviridae	
	Ps11PnA	Pseudomonas phage LUZ19	YP_001671990.1	160	SAR Phage_lysozyme	100.0	4.6E-33						Podoviridae; Autographivirinae; unclassified phiKMV-like phages	
	Ps12XnA	Pseudomonas phage PA11	YP_001294626.1	145	Phage_lysozyme	100.0	5.9E-36						unclassified dsDNA phages	
	Ps13SnA	Pseudomonas phage PAJU2	YP_002284361.1	144	Phage_lysozyme	100.0	1.6E-35						Siphoviridae	
	Ps14PnA	Pseudomonas phage PaP3	NP_775256.1	165	Phage_lysozyme	100.0	7.4E-31						Podoviridae	
	Ps15MnC	Pseudomonas phage PB1	YP_002455978.1	220	Glyco_hydro_19	100.0	4.0E-46						Myoviridae	
	Ps16OnF	Pseudomonas phage phi13 (S-segment)	NP_690810.1	245						SLT	99.9	2.3E-24	Cystoviridae; cystovirus	
	Ps17PnK	Pseudomonas phage phi15	YP_004286199.1	153	Amidase_2	100.0	3.1E-30						Podoviridae; Autographivirinae; T7-like viruses	
	Ps18PnA	Pseudomonas phage phi-2	YP_003345505.1	166	Phage_lysozyme	100.0	1.2E-32						Podoviridae; Autographivirinae; unclassified phiKMV-like phages	
	Ps19OnH	Pseudomonas phage phi2954 (S-segment)	YP_002600773.1	231	Glucosaminidase	100.0	4.6E-35						Cystoviridae	
	Ps20PnK	Pseudomonas phage phiBB-PF7A	YP_004306332.1	153	Amidase_2	100.0	2.7E-31						Podoviridae; Autographivirinae; T7-like viruses	
	Ps21PnA	Pseudomonas phage phiK77	YP_002727868.1	160	SAR Phage_lysozyme	99.9	1.1E-28						Podoviridae; Autographivirinae; unclassified phiKMV-like phages.	
	Ps22MnF5	Pseudomonas phage phiKZ	NP_803710.1	260	PG_binding_1	99.5	2.2E-14			SLT	98.3	3.1E-07	Myoviridae; phiKZ-like viruses.	
	Ps23PnA	Pseudomonas phage PT2	YP_002117830.1	160	SAR Phage_lysozyme	99.9	1.1E-28						Podoviridae; Autographivirinae	
	Ps24PnA	Pseudomonas phage PT5	YP_002117771.1	160	SAR Phage_lysozyme	99.9	1.1E-28						Podoviridae; Autographivirinae	
	Ps25MnC	Pseudomonas phage SN	YP_002418854.1	220	Glyco_hydro_19	100.0	4.1E-45						Myoviridae	
	Ps26SnB	Pseudomonas phage phi297	YP_005098091.1	160	Muramidase	100.0	4.1E-52						Siphoviridae	
	Ps27PnA	Pseudomonas phage Bf7	YP_005098158.1	168	Phage_lysozyme	100.0	4.4E-34						Podoviridae.	
	Ps28MnF55	Pseudomonas phage EL	YP_418221.1	292	PG_binding_1	99.6	3.1E-15	PG_binding_1	96.9	6.7E-04	SLT	99.7	3.0E-17	Myoviridae; phiKZ-like viruses
	Ps29MnC55	Pseudomonas phage OBP	YP_004958186.1	328	PG_binding_1	98.9	7.6E-10	PG_binding_1	99.4	1.1E-13	Glyco_hydro_19	100.0	7.8E-41	Myoviridae
	Ps30MnF	Pseudomonas phage PaP1	AEK21612.1	186	SLT	99.0	1.0E-10						Myoviridae	
	Ps31MnF5	Pseudomonas phage 201phi21	YP_001956952.1	262	PG_binding_1	99.5	1.0E-14			SLT	96.8	1.1E-03	Myoviridae; phiKZ-like viruses	
	Ps32PnA	PseudomonasLUZ24	YP_001671940.1	132	Phage_lysozyme	100.0	4.5E-32						Podoviridae	
Ps33OnN	Pseudomonas phage phi-6 segment S	NP_620343.1	220	Peptidase_U40	100.0	2.0E-138						Cystoviridae; Cystovirus.		
Ps34OnE1	Pseudomonas phage phi8 segment S	NP_524568.1	169	Glyco_hydro_108	100.0	4.7E-37			PG_binding_3	99.8	1.3E-21	Cystoviridae; Cystovirus.		
Ps35SnB	Pseudomonas phage vB_PaeS_PMG1	YP_005098234.1	160	Muramidase	100.0	1.1E-49						Siphoviridae.		
Ps36PnA	Enterobacteria phage phiKMV	NP_877484.1	160	SAR Phage_lysozyme	100.0	4.2E-33						Podoviridae; Autographivirinae; phiKMV-like viruses		
Pasteurella	Pt1MnA	Pasteurella phage F108	654740.1	183	Phage_lysozyme	100.0	3.4E-33						Myoviridae; Peduovirinae; P2-like viruses	
Prochlorococcus	Pr1SnHT	Cyanophage PSS2	YP_003084242.1	408	Glucosaminidase	100.0	7.2E-31			Peptidase_C39_2	99.7	5.9E-17	Siphoviridae.	
Ralstonia	Ra1XnK	Ralstonia phage RSB2	BAJ51815.1	156	Amidase_2	100.0	1.6E-29						Viruses; unclassified phages	
Salmonella	Sa1SnA	Salmonella phage SETP3	YP_001110823.1	162	Phage_lysozyme	100.0	7.5E-35						Siphoviridae	
	Sa2PnM	Bacteriophage PS3	CAA09701.1	132	VanY	99.7	6.3E-18						Podoviridae; unclassified Podoviridae	
	Sa3PnA	Enterobacteria phage ST104	YP_006397.1	156	SAR Phage_lysozyme	100.0	5.8E-35						Podoviridae; P22-like viruses.	
	Sa4PnO	Enterobacteria phage SP6	AAR90036.1	116	Peptidase_M15_3	100.0	2.4E-39						Podoviridae; Autographivirinae	
	Sa5MnA	Enterobacteria phage Felix 01	NP_944846.1	154	Phage_lysozyme	100.0	7.2E-34						Myoviridae	
	Sa6PnA	Enterobacteria phage P22	DAA01040.1	146	Phage_lysozyme	100.0	1.3E-34						Podoviridae; P22-like viruses	
	Sa7MnB	Bacteriophage WPhi	AAN28227.1	165	Muramidase	100.0	1.2E-49						Myoviridae; P2-like viruses; Enterobacteria phage P2	
	Sa8SnP	Enterobacteria phage EPS7	YP_001836966.1	80	Peptidase_M15_4	99.8	1.1E-21						Siphoviridae; unclassified Siphoviridae	
	Sa9MnA	Enterobacteria phage Fels-2	YP_001718740.1	158	Phage_lysozyme	100.0	8.4E-34						Myoviridae; P2-like viruses; unclassified P2-like viruses	
	Sa10SnA	Salmonella phage ES18	YP_224214.1	145	Phage_lysozyme	100.0	2.3E-34						Siphoviridae; unclassified Siphoviridae	
	Sa11MnB	Salmonella phage PsP3	NP_958065.1	165	Muramidase	100.0	2.9E-49						Myoviridae; P2-like viruses; unclassified P2-like viruses	
	Sa12SnB	Salmonella phage E1	YP_001742044.1	154	Muramidase	100.0	1.5E-52						Siphoviridae	
	Sa13SnA	Salmonella phage SETP12	ABN70688.1	162	Phage_lysozyme	100.0	7.5E-35						Siphoviridae	
	Sa14SnA	Salmonella phage SETP5	ABN70687.1	162	Phage_lysozyme	100.0	7.5E-35						Siphoviridae	
	Sa15PnB	Salmonella phage HK620	NP_112069.1	158	Muramidase	100.0	7.8E-52						Podoviridae; P22-like viruses	
	Sa16XnA	Salmonella phage RE-2010	ADQ92398.1	171	Phage_lysozyme	100.0	7.7E-34						Viruses; unclassified phages	
	Sa17XnA	Phage Gifsy-1	YP_001700616.1	149	Phage_lysozyme	100.0	2.9E-35						Viruses; unclassified phages.	
	Sa18XnA	Phage Gifsy-2	YP_001700672.1	150	Phage_lysozyme	100.0	1.8E-34						Viruses; unclassified phages.	
	Sa19PnB	Salmonella phage c341	YP_003090277.1	158	Muramidase	100.0	1.1E-51						Podoviridae; P22-like viruses	
	Sa20PnC	Salmonella phage epsilon15	NP_848233.1	209	Glyco_hydro_19	100.0	1.1E-42						Podoviridae	
	Sa21PnB	Salmonella phage epsilon34	YP_002533525.1	158	Muramidase	100.0	1.1E-51						Podoviridae; P22-like viruses	
	Sa22XnC	Salmonella phage Fels-1	YP_001700560.1	204	Glyco_hydro_19	100.0	1.2E-41						Viruses; unclassified phages	
	Sa23pnK	Salmonella phage phiSG-JL2	YP_001949762.1	151	Amidase_2	100.0	4.8E-31							Podoviridae; Autographivirinae; T7-like viruses

Salmonella	Sa24MnC5	Salmonella phage PVP-SE1	YP_004893953.1	236	PG_binding_1	97.0	4.4E-04						Myoviridae
	Sa25PnA	Salmonella phage SE1	YP_002455881.1	167	SAR Phage_lysozyme	100.0	5.4E-35						Podoviridae; P22-like viruses
	Sa26XnC	Salmonella phage ST64B	NP_700425.1	204	Glyco_hydro_19	100.0	1.5E-41						unclassified dsDNA phages
	Sa27PnP	Salmonella phage ST64T	NP_720320.1	132	-								Podoviridae; P22-like viruses
	Sa28PnK	Salmonella phage Vi06	YP_004306666.1	151	Amidase_2	100.0	6.0E-31						Podoviridae; Autographivirinae; T7-like viruses
	Sa29PnC	Salmonella phage SPN1S	YP_005098003.1	209	Glyco_hydro_19	100.0	1.2E-41						Podoviridae.
	Sa30SnA	Salmonella phage SE2	YP_005098118.1	162	Phage_lysozyme	100.0	8.0E-35						Siphoviridae
	Sa31SnA	Salmonella phage SS3e	YP_005097816.1	162	Phage_lysozyme	100.0	1.5E-34						Siphoviridae
	Sa32PnA	Salmonella Phage PS34	O80288.1	167	SAR Phage_lysozyme	100.0	3.7E-35						Podoviridae.
Sa33PnK	Enterobacteria phage 13a	YP_002003950.1	151	Amidase_2	100.0	1.0E-30						Podoviridae; Autographivirinae; T7-like viruses; unclassified T7-like viruses	
Shigella	Sh1PnB	Shigella phage Sf6	NP_958236.1	158	Muramidase	100.0	1.2E-51						Podoviridae; P22-like viruses
	Sh2SnA	Shigella phage Shf1	YP_004414884.1	162	Phage_lysozyme	100.0	1.5E-34						Siphoviridae; T1-like viruses; unclassified T1-like viruses
	Sh3MnA	Shigella phage Shf2	YP_004415022.1	164	Phage_lysozyme	99.9	4.3E-27						Myoviridae; T4-like viruses
	Sh4SnA	Shigella phage EP23	YP_004957490.1	163	Phage_lysozyme	100.0	2.7E-33						Siphoviridae
Sinorhizobium	Si1XnK	Sinorhizobium phage PBC5	NP_542265.1	187	Amidase_2	99.9	3.8E-27						unclassified dsDNA phages
Sodalis	So1XnA	Sodalis phage phiSG1	YP_516184.1	143	Phage_lysozyme	100.0	4.4E-35						Viruses; unclassified phages
	So2SnA	Sodalis phage SO-1	YP_003344991.1	163	Phage_lysozyme	100.0	9.6E-34						Siphoviridae
Synechococcus	Sy1MnAO	Synechococcus phage S-CAM8	AET72712.1	212	Phage_lysozyme	99.4	4.1E-15			Peptidase_M15_3	100.0	4.4E-34	Viruses; dsDNA viruses, no RNA stage; Caudovirales; Myoviridae
	Sy2SnHT	Synechococcus phage S-CBS1	YP_004934624.1	373	Glucosaminidase	100.0	4.9E-29			Peptidase_C39_2	99.7	2.8E-15	Siphoviridae
	Sy3SnQ	Synechococcus phage S-CBS2	YP_004421540.1	101	Peptidase_M23	99.9	6.7E-27						Siphoviridae
	Sy4SnAT	Synechococcus phage S-CBS2 (another)	YP_004421508.1	382	Phage_lysozyme	100.0	1.2E-29			Peptidase_C39_2	99.7	4.8E-16	Siphoviridae
	Sy5SnAO	Synechococcus phage S-CBS3	YP_004421745.1	359	Phage_lysozyme	99.9	2.8E-29			Peptidase_M15_3	100.0	8.5E-31	Siphoviridae
	Sy6XnHR	Synechococcus phage S-CBS4	YP_005098362.1	314	Glucosaminidase	100.0	5.2E-31			YkuD	99.7	7.1E-18	unclassified dsDNA phages
	Sy7MnA	Synechococcus phage S-CRM01	YP_004508546.1	185	Phage_lysozyme	99.9	8.4E-25						Myoviridae
	Sy8MnA	Synechococcus phage S-PM2	YP_195189.2	72	Phage_lysozyme	99.9	3.7E-24						Myoviridae; T4-like viruses
	Sy9MnT	Synechococcus phage S-PM2 (another)	YP_195188.1	231						Peptidase_C39_2	99.8	9.9E-20	Myoviridae; T4-like viruses
Thalassomonas	Ta1PnK	Thalassomonas phage BA3	YP_001552293.1	129	Amidase_2	100.0	6.9E-31						Podoviridae
Thermus	Th1SnQ	Thermus phage P23-45	YP_001467961.1	165	Peptidase_M23	100.0	2.0E-28						Siphoviridae
	Th2XnM	Thermus phage P23-77	YP_003169716.1	203	VanY	99.9	4.5E-26						unclassified dsDNA phages
	Th3XnJ	Thermus phage P23-77 (another)	YP_003169717.1	178	Amidase_3	100.0	8.3E-47						unclassified dsDNA phages
	Th4SnQ	Thermus phage P74-26	YP_001468077.1	153	Peptidase_M23	100.0	8.6E-29						Siphoviridae
	Th5MnQ	Thermus phage phiYS40	YP_874157.1	345	-				Peptidase_M23	99.9	9.3E-25		Myoviridae
	Th6MnQ	Thermus phage TMA	YP_004782349.1	346	-				Peptidase_M23	99.9	1.6E-24		Myoviridae
Vibrio	Vi1PnK	Vibrio phage ICP3	YP_004251275.1	144	Amidase_2	100.0	1.3E-30						Podoviridae; Autographivirinae; T7-like viruses
	Vi2MnA	Vibrio phage K139	NP_536660.1	195	Phage_lysozyme	100.0	1.8E-32						Myoviridae; Peduovirinae; P2-like viruses; K139-like phages
	Vi3MnA	Vibrio phage kappa	YP_001650899.1	195	Phage_lysozyme	100.0	1.8E-32						Myoviridae; Peduovirinae; P2-like viruses; K139-like phages
	Vi4PnK	Vibrio phage N4	YP_003347926.1	144	Amidase_2	100.0	1.3E-30						Podoviridae; Autographivirinae; T7-like viruses
	Vi5PnO	Vibrio phage VP93	YP_002875665.1	137	Peptidase_M15_3	100.0	1.8E-36						Podoviridae; Autographivirinae
	Vi6PnK	Vibrio phage ICP3_2009_B	ADX87518.1	144	Amidase_2	100.0	5.9E-31						Podoviridae; Autographivirinae; T7-like viruses
	Vi7PnK	Vibriophage VP4	YP_249586.1	144	Amidase_2	100.0	8.4E-31						Podoviridae; Autographivirinae; T7-like viruses
	Vi8PnK	Vibrio phage ICP3_2007_A	ADX87661.1	144	Amidase_2	100.0	9.2E-31						Podoviridae; Autographivirinae; T7-like viruses
	Vi9MnE1	Vibrio phage VP882	YP_001039881.1	184	Glyco_hydro_108	100.0	1.5E-37			PG_binding_3	99.9	7.9E-25	Myoviridae
Vi10MnE1	Vibrio phage VP58.5	CAX65037.1	185	Glyco_hydro_108	100.0	1.2E-37			PG_binding_3	99.9	1.8E-24	Myoviridae; VHML-like phages	
Xanthomonas	Xa1SnA	Xanthomonas phage OP1	YP_453585.1	166	SAR Phage_lysozyme	100.0	3.0E-34						Siphoviridae
	Xa2SnA	Xanthomonas phage phiL7	YP_002922642.1	174	SAR Phage_lysozyme	100.0	4.2E-34						Siphoviridae
	Xa3SnA	Xanthomonas phage Xop411	YP_001285697.1	178	SAR Phage_lysozyme	100.0	8.2E-34						Siphoviridae
	Xa4SnA	Xanthomonas phage Xp10	NP_858975.1	223	Phage_lysozyme	100.0	1.1E-32						Siphoviridae
	Xa5XnP	Xanthomonas phage Xp15	YP_239293.1	155	-					Peptidase_M15_4	99.7	4.9E-18	unclassified dsDNA phages
Xylella	Xy1PnA	Xylella phage Xfas53	YP_003344916.1	163	Phage_lysozyme	100.0	2.7E-35						Podoviridae
Yersinia	Ye1PnK	Yersinia pestis phage phiA1122	NP_848277.1	151	Amidase_2	100.0	5.9E-31						Podoviridae; Autographivirinae; T7-like viruses
	Ye2PnK	Yersinia phage Berlin	YP_918995.1	151	Amidase_2	100.0	2.5E-31						Podoviridae; Autographivirinae; T7-like viruses
	Ye3MnB	Yersinia phage L-413C	NP_839858.1	165	Muramidase	100.0	3.4E-53						Myoviridae; Peduovirinae; P2-like viruses
	Ye4MnO	Yersinia phage phiR1-37	YP_004934318.1	119	Peptidase_M15_3	100.0	3.7E-39						Myoviridae
	Ye5PnK	Yersinia phage phiYeO3-12	NP_052084.1	151	Amidase_2	100.0	6.1E-31						Podoviridae; Autographivirinae; T7-like viruses
	Ye6SnA	Yersinia phage PY54	NP_892107.1	177	Phage_lysozyme	100.0	3.9E-33						Siphoviridae
	Ye7PnK	Yersinia phage Yepe2	YP_002003326.1	151	Amidase_2	100.0	2.5E-31						Podoviridae; Autographivirinae; T7-like viruses
	Ye8MnM	Yersinia phage PY100	CAJ28446.1	138	VanY	99.9	1.2E-24						Myoviridae
	Ye9PnK	Yersinia phage Yep-phi	ADQ83168.1	151	Amidase_2	100.0	1.1E-30						Podoviridae; Autographivirinae; T7-like viruses