

G1	Citrobacter phage Michonne	PEMN-----D	KMIRSLKAGT	VLRLQHFSC
	Citrobacter phage Mijalis	PEMN-----D	KMIRSLKAGT	VLRLQHFSC
	Citrobacter phage Moogole	PEMN-----D	KMIRSLKAGT	VLRLQHFSC
	Shigella phage Sfl3	PEMN-----D	KMIRSLKAGT	VLRLQHFSC
	Citrobacter phage Mordin	PEMN-----D	KMIRSLKAGT	VLRLQHFSC
	Escherichia phage SUSP1	PEMN-----D	KMIRSLKAGT	VLRLQHFSC
	Escherichia phage SUSP2	PEMN-----D	KMIRSLKAGT	VLRLQHFSC
	Shigella phage Sfl6	PEMN-----D	KMIRSLKAGT	VLRLQHFSC
	Shigella phage Sfl8	PEMN-----D	KMIRSLKAGT	VLRLQHFSC
	Escherichia coli O157 typing phage_1	PEMNY-----D	KMIRSLKAGT	VLRLQHFSC
	Escherichia phage JH2	PEMNY-----D	KMIRSLKAGT	VLRLQHFSC
	Shigella phage Sfl5	PEMNY-----D	KMIRSLKAGT	VLRLQHFSC
	Enterobacteria phage WV8	PEMNY-----D	KMIWSLKAGT	VLRLQHFSC
	Escherichia coli O157 typing phage_11	PEMNY-----D	KMIWSLKAGT	VLRLQHFSC
	Bacteriophage Felix_01	PEMNY-----D	KMT--SLKAGT	VLRLQHFSC
	Escherichia phage EC6	PEMNY-----D	KMT--SLKAGT	VLRLQHFSC
	Escherichia phage vB EcoM_AY0145A	PEMNY-----D	KMT--SLKAGT	VLRLQHFSC
	Salmonella phage BPS15Q2	PEMNY-----D	KMT--SLKAGT	VLRLQHFSC
	Salmonella phage FO1a	PEMNY-----D	KMT--SLKAGT	VLRLQHFSC
	Salmonella phage Mushroom	PEMNY-----D	KMT--SLKAGT	VLRLQHFSC
	Escherichia phage vB EcoM_Alf5	PEMNY-----D	KMT--SLKAGT	VLRLQHFSC
	Salmonella phage ST11	PEMNY-----D	KMT--SLKAGT	VLRLQHFSC
	Escherichia phage vB EcoM-VpaE1	PEMNY-----D	KMIRSLKAGT	VLRLQHFSC
	Escherichia phage HY02	PEMNY-----D	KMIRSLKAGT	VLRLQHFSC
	Salmonella phage vB SPuM SP116	PEMNY-----D	KMIRSLKAGT	VLRLQHFSC
	Staphylococcus phage SA1	-----Y--D	KMIRSLKAGT	VLRLQHFSC
	Enterobacteriophage UAB_Phi87	PEMNY-----D	KMIRSLKAGT	VLRL-----
	Escherichia coli O157 typing phage_12	-----D-----	WLSLKAGT	VLRLQHFSC
	Salmonella phage Si3	PEMNY-----D	KMT--SLKAGT	V---LQHFSC
	Erwinia amylovora phage phiEa104	PAMNYMDSFK	KMT--QLRGWT	VLRLHSC----
	Erwinia phage phiEa21-4	PAMNYMDSFK	KMT--QLRGWT	VLRLHSC----
	Erwinia phage vB EamM-M7	PAMNYMDSFK	KMT--QLRGWT	VLRLHSC----
G2	Caulobacter phage phiCbK	WGGEDPP--KK	LLLASSFVII	VQQTG--
	Caulobacter phage Ccr32	WGGEDPP--KK	LLLASSFVII	VQQTG--
	Caulobacter phage Ccr34	WGGEDPP--KK	LLLASSFVII	VQQTG--
	Caulobacter phage Ccr5	WGGEDPP--KK	LLLASSFVII	VQQTG--
	Caulobacter phage CcrMagnet	WGGEDPP--KK	LLLASSFVII	VQQTG--
	Caulobacter phage CcrSwift	WGGEDPP--KK	LLLASSFVII	VQQTG--
	Caulobacter phage Ccr10	WGGEDPP--KK	LLLASSFVII	VQQTG--
	Caulobacter phage Ccr29	WGGEDPP--KK	LLLASSFVII	VQQTG--
	Caulobacter phage Ccr2	WGGEDPP--KK	LLLASSFVII	VQQTG--
	Caulobacter phage CcrKarma	WGGEDPP--KK	LLLASSFVII	VQQTG--
G3	Caulobacter phage CcrRogue	WGGEDPP--KK	LLL--HAFVII	VQQTG--
	Caulobacter phage CcrColossus	WGGEDPP--KK	LLL--HASVII	VQQTG--
	Enterobacteria phage_4MG	-MKTRLRCYI	-EWG--SSSN	DHPRALVF--
	Salmonella phage 41	-MKTRLRCYI	-EWG--SSSN	DH-----
	Salmonella phage PVPSE1	-MKTRLRCYI	-GEG--SSSN	D-PRALVFA
	Salmonella phage SSE121	---TILRCYI	-GEG--SSSN	D-PRALVFA
	Cronobacter phage vB_CsaM_GAP31	-MKTRLRCYI	GEWG--SSSN	D-PRALVF--
G4	Salmonella phage I9	-----YI	-EW--SSSN	DHP--LFM--
	Klebsiella phage vB_KpnM_BIS47	MMKT--LCYI	-GEQSSISK	D-PRALVF--
	Klebsiella phage vB_KpnM_KB57	MMKT--LCYI	-EWOHSSSK	D-PRALVF--
	Streptomyces phage Jay2Jay	EEVLLGRAKN	NRIAKKRMMY	HFCTTRA
	Streptomyces phage Peebs	EEVLLGRAKN	NRIAKKRMMY	HFCTTRA
	Streptomyces phage Samist12	EEVLLGRAKN	NRIAKKRMMY	HFCTTRP
	Streptomyces phage NootNoot	EEVLLGRAKN	NRIAKKRMMY	HFCTTR--
	Streptomyces phage Paradiddles	EEVLLGRAKN	NRIAKKRMMY	HFCTTR--
G5	Streptomyces phage Sushi23	EEVLLGRAKN	NRIAKKRMMY	HFCTTR--
	Streptomyces phage Warpy	EEVLLGRAKN	NRIAKKRMMY	-FCTTRA
	Streptomyces phage Mildred21	EEVLLG-AKN	NRIAKK--MMY	HFCTT---
G6	Aeromonas phage phiAS5	RLLNI--THFME	MYDAGCWR--	-----PQSSS M
	Aeromonas phage PX29	-LLNI-----	--DAGCWKME	MYTHFPQSSS -
	Bacteriophage Aeh1	-LLNI-----	--DAGCWKME	MYTHFPQSSS M
G6	Mycobacterium phage GardenSalsa	WNR--YQP-FM	RHCLLKIGVT	ADE
	Mycobacterium phage MrMagoo	WNR--YQP-FM	RHCLLKIGVT	ADE
	Mycobacterium phage GenevaB15	WNA--YQP-FM	RHCLLKIGVT	ADE
	Mycobacterium phage Rey	WNSAYQP-FM	RHCLLKIGVT	-DE
	Mycobacterium phage Bongo	WNR--YQPSEFM	RHCL--KGV	-DE
	Mycobacterium phage Bricole	WNC--YQPSEFM	RHCL--KGV	-DE
	Mycobacterium phage PegLeg	WNC--YQPSEFM	RH--KGV	-DE

G7	Bacteriophage KVP40	MPPRLFKKEY	MSIWNNDOT	RMGVHCLLS	
	Vibrio phage phiGrn1	MPPRLFKKEY	MSIWNNDOT	RMGVHCLLS	
	Vibriophage phipp2	MPPRLFKKEY	MSIWNNDOT	RMGVHCLLS	
	Vibrio phage VH7D	MPPRLFKKEY	MSIW-NDOT	RMGVHCLLS	
	Vibrio phage phiST2	MPPRLF-KEY	MSIW-NDOT	RMGVHCLLS	
	Vibrio phage ValKK3	MPPRLFKKEY	-SIW-NDOT	RMGVHCLLS	
	Vibrio phage ntl	MPPRLF-KEY	MSIWNNDOTA	RMGVHCLLS	
G8	Bacteriophage T5	---SYE-FC	ND--PMKVAL	S-SH-QQ-TI	M
	Enterobacteria phage_SPC35	---SYE-FC	NDK-PMKALS	---H-QQGTI	M
	Salmonella phage SP01	---RSLYE-FC	NDK-PMKALS	---H-QQ-TI	M
	Escherichia phage_bV_EcoS_AKFV33	---RSLYEWFC	NDK-PMKVAL	---H-QQ-TI	M
	Escherichia phage_vB_EcoS_FFH1	---SLYEWFC	ND--PMKVAL	---H-QQ-TI	M
	Escherichia phage_slur09	---SLYEWFC	ND--PMK-AL	---H-QQ-TI	M
	Escherichia phage_OSYS	---SLYE-FC	ND--PMKVAL	S---H-QQGTI	M
	Escherichia phage_phiLLS	---SLYE-FC	ND--PMKAL-	---H-QQGTI	M
	Enterobacteria phage_EPS7	---RSMLEYWFC	NDKGPMPKVA	L-SHR-QQGTI	M
	Salmonella phage_100268_sal2	---SMLYE-WC	NDKGPMPKVA	LSSHR-QQGTI	M
	Salmonella phage_118970_sal2	---SMLYE-WC	NDKGPMPKVA	LSSHR-QQGTI	M
	Salmonella phage_Stitch	---SMLYE-WC	NDKGPMPKVA	LSSHR-QQGTI	M
	Yersinia phage_phiR201	---RSMLEYWFC	NDK-PMKVAL	---HR-QQGTI	M
G9	Mycobacteriophage Wildcat	WPFMYAVLLG	GODTKCTIRSH	EEN	
	Mycobacterium phage Cosmo	WPFMYAVLLG	GODTKCTIRSH	EEN	
G10	Bacillus cereus bacteriophage_vB_BceM_Bc431v3	SCCGT-DEDI	RSQHPFYLLI	-M	
	Bacillus phage_ECP82	SCNDT-G-E	RSQHPFYLLI	-M	
	Bacillus phage_PK16	SCNDT-G-ES	RSQHPFYLLI	-M	
	Bacillus virus_BM15	SCNGT-D-E	RSQHPFYLLI	-M	
	Bacillus phage_PBC6	SCNGT-D-E	RSQHPFYLLI	-M	
	Bacillus phage_JBP901	SCNGD-ETDI	RSQHPFYLLI	-M	
	Bacillus phage_Bcp1	SCNGD-E-I	RSQHPFYLLI	-M	
	Bacillus phage_BCP78	-CNSG-D-EI	RSQHPFYLLI	-M	
	Bacillus phage_TsarBomba	-CNSGT-D-EI	RSQHPFYLLI	-M	
	Bacillus phage_BCU4	-CNSG-D-TEI	RSQ-PFYLLI	-M	
	Bacillus phage_Deep Blue	-CNSG-D-TE	RSQHPFYLLI	WM	
G11	Mycobacteriophage Bxz1	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_ArcherS7	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Audrick	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_BeanWater	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Breeniome	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Dandelion	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Drazdys	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_DTDevon	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Erdmann	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_ET08	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Gabriel	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Ghost	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_LRRHood	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Lukilu	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Momo	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Pio	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Shrimp	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Tonenili	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacteriophage_Catera	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Littleton	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Nappy	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Rizal	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Wally	PWYOMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Bigswole	PWYOMCEH-A	FVKEGGTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Cali	PWYOMCEH-A	FVKEGGTTTG	DMIRV-----	RQR--
	Mycobacterium phage_PhoX	PWYOMCEH-A	FVKEGGTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Astraea	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_ErnieJ	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Koguma	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_LinStu	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_ScottMcG	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Sebata	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Spud	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQR--
	Mycobacterium phage_Ava3	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Daffodil	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Gizmo	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_MoMoMixon	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Pleione	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Willis	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Yucca	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_Zeenon	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_ZygoTaiga	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RQRK
	Mycobacterium phage_HyRo	PW-OMCEH-A	FVKE-GTTTG	DMIRV-----	RRQR
	Mycobacterium phage_Alice	PWYOMCEH-A	FV-----G	DMIRV-----	RRQRK
	Mycobacterium phage_Myrna	PY-MACEHGA	FVKK-----G	DMIRMTVTEI	RQRK
	Mycobacterium phage_Phabba	PW-YMCEHGA	FVK-----G	DMISRTV-EI	RQRK

G12	Cellulophaga_phage_phi17:2_18	PEQHLLRAKI	GMDTVRMYSN	W-----F
	Cellulophaga_phage_phi17:2_	PEQHLLRAKI	GMDTVRMYSN	W-----F
	Cellulophaga_phage_phi4:1_13	PEQHLLRAKI	GMDTVRMYSN	W-----F
	Cellulophaga_phage_phi4:1_18	PEQHLLRAKI	GMDTVRMYSN	W-----F
	Cellulophaga_phage_phi4:1_	PEQHLLRAKI	GMDTVRMYSN	W-----F
	Cellulophaga_phage_phi38.1	-----KI	GMDTVRS-SN	FPEQHLS
	Cellulophaga_phage_phi40.1	-----KI	GMDTVRS-SN	FPEQHLS
G13	Aeromonas_phage_65.2	LRIGMMNSKY	WAPTISD	
	Aeromonas_virus_65	LRIGMMNSKY	WAPTISD	
G14	Enterobacter_phage_PG7	TKENDMQHSW	MGPFMRCLT	
	Klebsiella_phage_JD18	Y-KNDMQHSI	WGPMRL--T	
	Klebsiella_phage_KPV15	Y-KNDMQHSI	WGPMRL--T	
	Klebsiella_phage_PKO111	Y-KNDMQHSI	WGPMRL--T	
	Klebsiella_phage_vB_KpnM_KpV477	Y-KNDMQHSI	WGPMRL--T	
G15	Vibrio_phage_pVp1	MKEAMYNDPL	-GTQVIMFRS	HRL
	Vibrio_phage_vB_VorSPVo5	MKEAMYNDPL	SGTOV-----	
G16	Pseudomonas_phage_C11	QRKLIDMCNP	GFEHT	
	Pseudomonas_phage_JG004	QRKLIDMCNP	GFEHT	
	Pseudomonas_phage_PaP1	QRKLIDMCNP	GFEHT	
	Pseudomonas_phage_vB_PaeM_C210_Ab1	QRKLIDMCNP	GFEHT	
	Pseudomonas_phage_Ziegelbrücke	QRKLIDMCNP	GFEHT	
G17	Cronobacter_phage_CR3	TCL-SKNEED	IPMLGQHSFF	
	Cronobacter_phage_CR8	TCL-SKN-ED	IPMLGQHSFF	
	Cronobacter_phage_CR9	TCLYSKN-ED	IPMLGQHSFF	
G18	Bacillus_phage_vB_BanSTsamsa	NDWGQHMFCE	IYL-PATSSG	RR
	Bacillus_phage_PBC2	ND-GO--LCE	YLTKPATSSG	RR
G19	Enterobacteria_phage_ECGD1	MLSSKYNTGQ	PFLMMI	
	Escherichia_phage_vB_EcoM_PHB05	MLSSKYNTGQ	PFLMMI	
	Enterobacteria_phage_phi92	MLSS--YNTGQ	PFLMI-	
G20	Listeria_phage_List36	CSIDLTYQWK	FSNGRPM	
	Listeria_phage_LP048	CSIDLTYQWK	FSNGRPM	
	Listeria_phage_LP064	CSIDLTYQWK	FSNGRPM	
	Listeria_phage_LP0832	CSIDLTYQWK	FSNGRPM	
	Listeria_phage_LP124	CSIDLTYQWK	FSNGRPM	
	Listeria_phage_LP125	CSIDLTYQWK	FSNGRPM	
	Listeria_phage_vB_LmoM_AG20	CSIDLTYQWK	FSNGRPM	
	Listeria_phage_WIL1	CSIDLTYQWK	FSNGRPM	
	Listeria_virus_A511	CSIDLTYQWK	FSNGRPM	
	Listeria_virus_P100	CSIDLTYQWK	FSNGRPM	
G21	Aeromonas_phage_31.2	LSFNKKHGPT	WISDMMR	
	Aeromonas_phage_44RR2.8t.2	LSFNKKHGPT	WISDMMR	
	Aeromonas_phage_L96	LSFNKKHGPT	WISDMMR	
	Aeromonas_phage_Riv10	LSFNKKHGPT	WISDMMR	
	Aeromonas_phage_SW699	LSFNKKHGPT	WISDMMR	
	Aeromonas_virus_44RR2	LSFNKKHGPT	WISDMMR	
	Aeromonas_phage_phiAS4	LS--NYKHGPT	WISDMMR	
	Stenotrophomonas_phage_IME13	LS--NYKHGPT	WISDMMR	
	Aeromonas_phage_ASgz	LS--NYKHGPT	WI--DMMR	
	Aeromonas_virus_31	LSFNKKHGPT	-ISDMMR	
G22	Acinetobacter_phage_AM24	YINDQAEKFV	SGPLLTMM	
	Acinetobacter_phage_YMC13_03_R2096	YINDQAEKHV	SGPLLTMM-	
G23	Serratia_phage_CBH8	YDEKNMQHSP	IWGM-RL	
	Serratia_phage_CHI14	YDEKNMQHSP	IWGM-RL	
	Serratia_phage_X20	YDEKNMQHSP	IWGMLRT	

Singletons

Stenotrophomonas phage vB_SmaSDLP_6	PDLMGMYLIF	RTNETINKEA	CGQWVTVDRL	FHKRPLQ
Synechococcus phage_SPM2	RKYDEISSMH	QWRVPG		
Enterococcus phage_EFDG1	NQSDDEMWCFI	KRRVIHLLSS	RAF	
Pectobacterium phage_Myl	LRSYEMQRWN	DKGKTPAKLM	GIVLS	
Cafeteria roenbergensis virus_BVPW1	YLLKLLLLK	LLLK		
Cronobacter phage_S13	LLMKEDPNL	RGFAQWCIRM	MHST	
Acinetobacter virus_133	MGCRIYETNSI	PDMMW		
Pseudomonas phage_phiPsa374	KSLVQWREDI	LRNNPALCGE		
Agrobacterium phage_Atu_ph07	ARFPIYWMEV	QFPOGL		
Roseobacter phage_DSS3P8	YAVVAAKNCH	DGQGLFLTL	KTRTP	
Acinetobacter phage_vB_AbaM_Acibel004	SYSRFMINPO	DTWQHKGEEL	L	
Pseudomonas phage_VCM	KSSLVQREDR	INPALCG		
Halovirus_HGTV1	RDAFEHGGNY	KMTTQKQST	SOICSRRLLI	LPVVS
Providencia phage_vB_PreS_PR1	KSPADFHVTR	YEINGLLSWS	MQM	
Gordonia phage_GMA2	WQNMTPYDLE	KKSSETR		
Lactobacillus phage_LpeD	RRISNSLKLL	FWPTG		
Acinetobacter phage_Acj9	YQCGTKNSI	PYREDMMFW		
Sulfitobacter phage_phiCB2047B	TPNFKQCSS	LLWYM		
Synechococcus phage_SCRM01	GRKPYGDWNE	EPPIIFAVSS		
Sphingobium phage_Lacusarx	PVVANIKKGD	EEGRFSLLTH	QSCW	
Pseudoalteromonas phage_J21	TAKHPENDWR	GSYCM		
Ralstonia phage_RSP15	SSECDPYFLN	VMQRWK		
Stenotrophomonas phage_IMESM1	RIHWCKNAVM	ELSYEDQSG		
Klebsiella phage_vB_Kpn_IME260	RMQEALSHRC	MIMVDYNCKE	LPTW	
Streptomyces phage_BRock	PFMGQODEE	TTTLLWNAKK	RRVRSSIH	