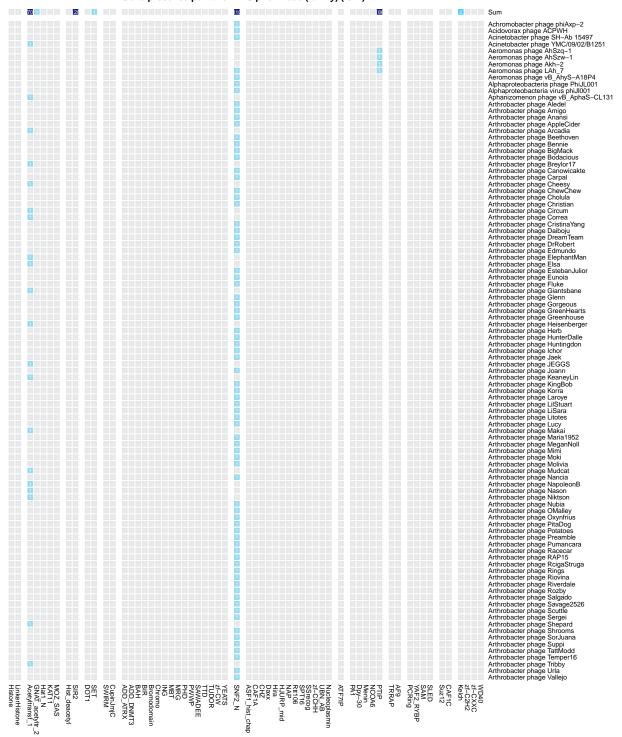
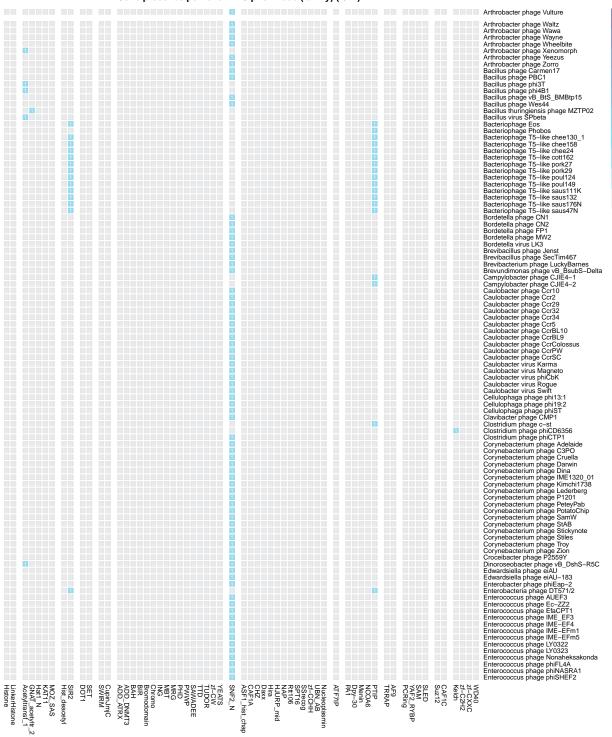
#### Gene presence per taxon in Siphoviridae (family) (1/11)



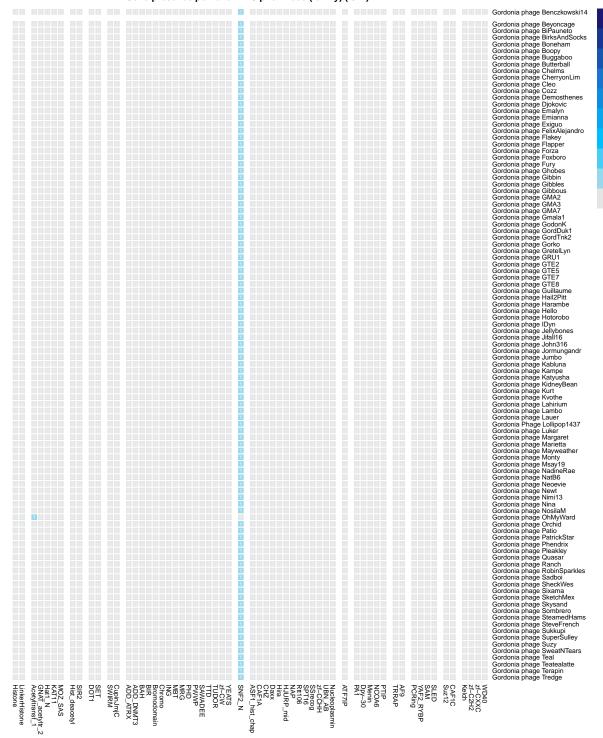
## Gene presence per taxon in Siphoviridae (family) (2/11)



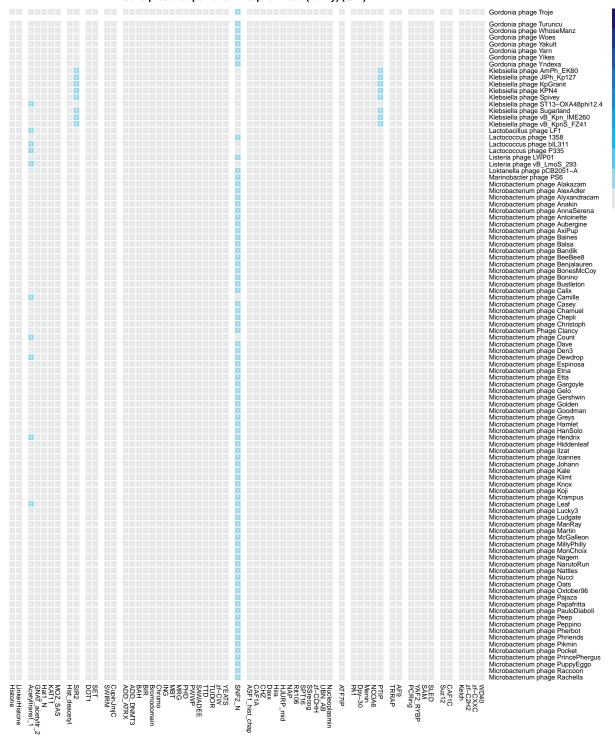
# Gene presence per taxon in Siphoviridae (family) (3/11)

						1 1		, (-	0 0 0 0 0					Enterococcus phage phiSHEF4
						1 0								Enterococcus phage phiSHEF5 Enterococcus phage PMBT2 Enterococcus phage SANTOR1 Enterococcus phage vB_EfaS_AL2
					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1								Enterococcus phage vB_EfaS_AL2
						1 (								Enterococcus phage vB_EfaS_AL3 Enterococcus phage vB_EfaS_Ef5.1 Enterococcus phage vB_EfaS_Ef5.2
						1 0 1 0								Enterococcus phage vB_EfaS_Ef5.2 Enterococcus phage vB_EfaS_Ef5.3
						1 (								Enterococcus phage vB_EfaS_Ef5.4
						1								Enterococcus phage vB_EfaS_Ef6.4
						1 0								Enterococcus phage vB_EtaS_IME196 Enterococcus phage vB_EtaS_LM99
					00000000000000000									Enterococcus phage vB_EfaS_Max Enterococcus phage vB_EfaS_DELE1
		0 0				1 (			0 0 0 0 0					Enterococcus phage vB_EfaS_Ef5.2 Enterococcus phage vB_EfaS_Ef5.3 Enterococcus phage vB_EfaS_Ef5.4 Enterococcus phage vB_EfaS_Ef6.4 Enterococcus phage vB_EfaS_Ef6.1 Enterococcus phage vB_EfaS_Ef6.4 Enterococcus phage vB_EfaS_Ef6.4 Enterococcus phage vB_EfaS_Ef6.4 Enterococcus phage vB_EfaS_Ef6.4 Enterococcus phage vB_EfaS_EfaS_Max Enterococcus phage vB_EfaS_DELF1 Erysipelothrix phage philo50 Escherichia phage B2 Escherichia phage B2 Escherichia phage B2 Escherichia phage b0b Escherichia phage b0b Escherichia phage b0b
		0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 (								Escherichia phage B2
						1 (								Escherichia phage bob Escherichia phage buks
									0 0 0 0 0					Escherichia phage buks Escherichia phage CEC_Kaz_2018 Escherichia phage DT57C
						1 0								Escherichia phage EK99P-1 Escherichia phage Envy Escherichia phage Evi
	1 0 0 0 0													Escherichia phage Erivy
		0 1				1 (			0 0 0 0 1					Escherichia phage fp01 Escherichia phage G AB–2017 Escherichia phage Gluttony
		0 0				1 0			0 0 0 0 0					Escherichia phage Guttony
		0 0				1 (								Escherichia phage Gostya9 Escherichia phage HK578 Escherichia phage jat
						1 (								Escherichia phage JL1
						1 (								Escherichia phage JLT Escherichia phage JLT Escherichia phage KT-dep(1) Escherichia phage KT-dep(4) Escherichia phage KT-ind(2) Escherichia phage KT-ind(2) Escherichia phage KT-ind(3) Escherichia phage KT-ind(3) Escherichia phage KT-ind(3)
					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0								Escherichia phage K1-ind(2)
						1 (								Escherichia phage K1ind1
					0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 (								Escherichia phage L AB–2017 Escherichia phage Lust Escherichia phage mckay
		0 0							0 0 0 0 0					Escherichia phage mckay Escherichia phage OSYSP
		0 0				1 0			0 0 0 0 0					Escherichia phage OSYSP Escherichia phage P AB-2017 Escherichia phage phiLLS
						1 (								Escherichia phage Pride Escherichia phage rolling Escherichia phage Schulenburg
						1 (								Escherichia phage Schulenburg
					$\begin{smallmatrix}0&0&0&0&0&0&0&0&0&0&0&0&0&0&0&0&0&0&0&$	1								Escherichia phage Sciku Escherichia phage Shashou Escherichia phage Sloth
						1 0 1 0								Escherichia phage Sloth Escherichia phage slur06
		0 1							0 0 0 0 1					Escherichia phage slur06 Escherichia phage slur09 Escherichia phage Snoke
		0 1							0 0 0 0 1					Escherichia phage SP15
					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 (								Escherichia phage SP15 Escherichia phage SSL-2009a Escherichia phage ST20
		0 0				1 0 0 0			0 0 0 0 0					Escherichia phage Utah Escherichia phage vB_EcoS_AKFV33 Escherichia phage vB_EcoS_EASG3
		0 1							0 0 0 0 1					Escherichia phage vB_EcoS_EASG3
		0 1							0 0 0 0 1					Escherichia phage vB_EcoS_FFH_1 Escherichia phage vB_EcoS_HASG4 Escherichia phage vB_EcoS_HdH2
		0 0			$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $	1 (			0 0 0 0 1					Escherichia phage vB_EcoS_HdH2 Escherichia phage vB_EcoS_HSE2
					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0								Escherichia phage vB_EcoS_HSE2 Escherichia phage vB_EcoS_PNS1 Escherichia phage vB_EcoS_PTXU06
		0 1			$\begin{smallmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 $				0 0 0 0 1					Escherichia phage vB_EcoS_VAH1 Escherichia phage vB_EcoS_WF5505 Escherichia phage vB_EcoS_WFI
						1 (								Escherichia phage vB_EcoS_WFI
						1 (								Escherichia phage W EcoS. WHI Escherichia phage W EcoS. XY1 Escherichia phage W EcoS. XY1 Escherichia phage W EcoS. XY2 Escherichia phage W EcoS. 281751 Escherichia phage W EcoS. 281751 Escherichia phage W EcoS. 2817511 Escherichia phage W EcoS. 2817510 Escherichia phage W EcoS. 2817510 Escherichia phage W EcoS. 28175V Escherichia phage W EcoS. 26175V Escherichia phage W EcoS. 40175V Escherichia phage W EcoS. 400-801870 Escherichia phage W EcoS. 400-801870 Escherichia phage W EcoS. 800-801870
		0 1							0 0 0 0 1					Escherichia phage vB_EcoS-26175I Escherichia phage vB_EcoS-26175II
		0 1							0 0 0 0 1					Escherichia phage vB_EcoS-26175III
		0 1							0 0 0 0 1					Escherichia phage vB_EcoS-26175V
						1 (								Escherichia phage VB_EcoS=Golestan Escherichia phage vB_EcoS=Ro145c2YLVW
														Escherichia phage vB_EcoS-Ro145clw Escherichia phage welsh
						1 (								Escherichia phage welsh Escherichia phage YD-2008.s Escherichia phage ZCEC5
									0 0 0 0 1					Escherichia virus DT57C
		0 0				1			0 0 0 0 1					Escherichia virus EPS7 Escherichia virus JL1
		0 1							0 0 0 0 0					Escherichia virus SSL2009a Escherichia virus T5
		0 1							0 0 0 0 1					Escherichia virus vB_Eco_mar003J3 Escherichia virus vB_Eco_mar004NP2
		0 1				0 0			0 0 0 0 1					Escherichia virus VEc33 Flavobacterium phage 1H
						1								Flavobacterium phage 23T Flavobacterium phage 2A
					0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 [								Flavobacterium phage 6H
						1 (								Gordonia phage Adgers Gordonia phage Agatha
						1 (								Gordonia phage Anamika Gordonia phage AndPeggy
						1 (								Gordonia phage ASerpRocky Gordonia phage Axym
					0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 (								Gordonia phage Beaver
LinkerHistone Histone	MOZ_SAS KAT11 Hat1_N GNAT_acetyltr_ Acetyltransf_1	SIR2	SET DOT1	CupinJmjC SWIRM	YEATS ZI-CW TUDOR TUDOR TUDOR TUDOR THE SAWADEE PWWP PHD MRG MRG MBT ING Chromo Bromodomain Bromodomain Bromodomain Bromodomain Bromodomain Bromodomain	SVE	DAX DAX DAX DAX DAX DAX	ATF7IP	PTIP NCOA6 Menin Dpy-30 PA1	AF9 TRRAP	SLED SAM YAF2_RYBP PCRing	CAF1C Suz12	WD40 zf-CXXC zf-C2H2 Kelch	
one of the	ytra	dea		₽Ĕ	NADE NADE OR	۷ <u>-</u>	11A	₽ P	30 -30	₽	ing Ry	200	2H2	
stone	setyl nsf_	deacetyl		Ö	»maii	٥	mid lasm				ββ			
w	1-2	_			د	ā	Nucleoplasmin JBN AB JEN AB A							

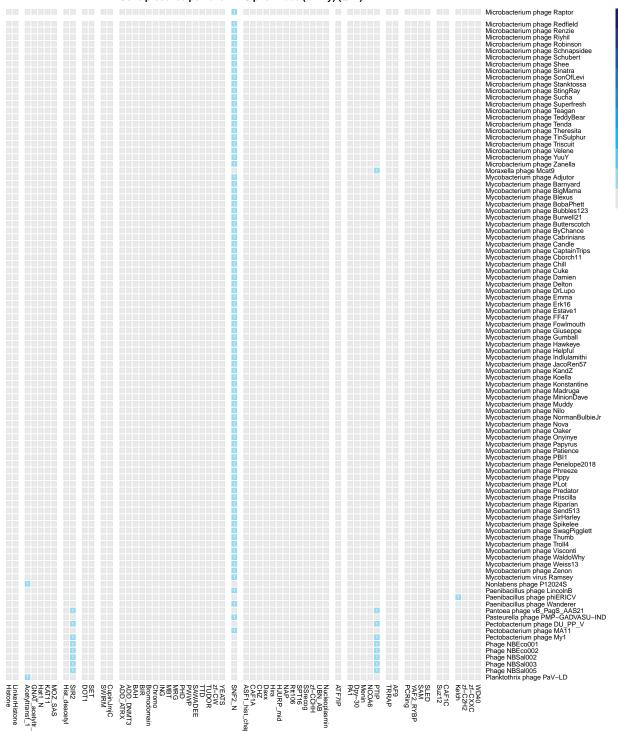
#### Gene presence per taxon in Siphoviridae (family) (4/11)



# Gene presence per taxon in Siphoviridae (family) (5/11)



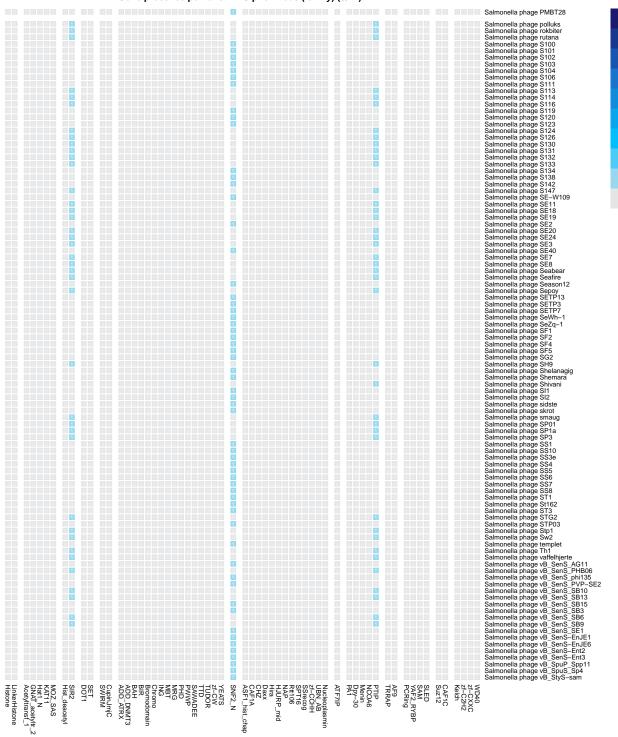
#### Gene presence per taxon in Siphoviridae (family) (6/11)



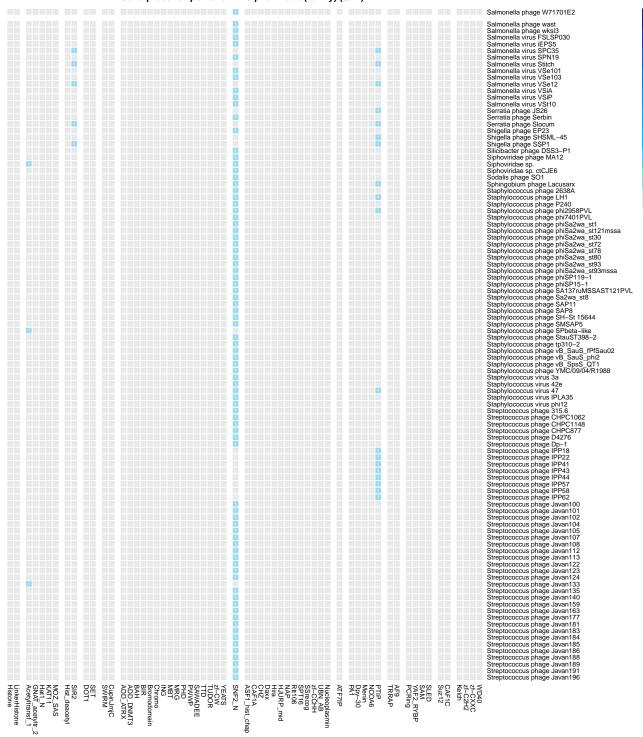
# Gene presence per taxon in Siphoviridae (family) (7/11)



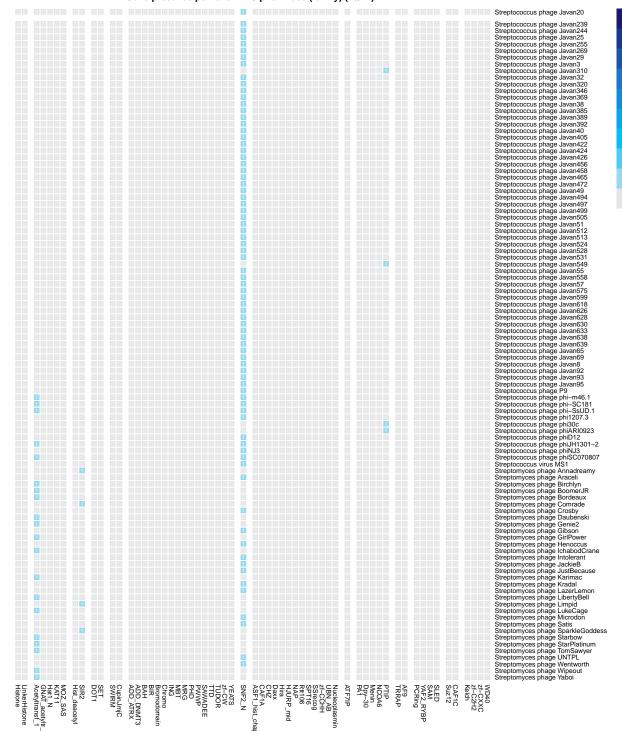
#### Gene presence per taxon in Siphoviridae (family) (8/11)



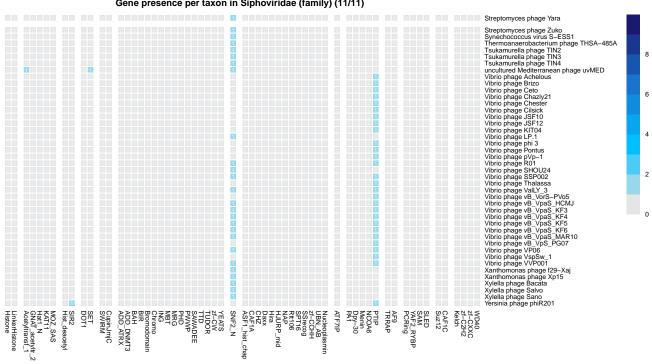
#### Gene presence per taxon in Siphoviridae (family) (9/11)



# Gene presence per taxon in Siphoviridae (family) (10/11)



### Gene presence per taxon in Siphoviridae (family) (11/11)



#### Gene presence per taxon in Siphoviridae (family) (1/11) (fraction of species)

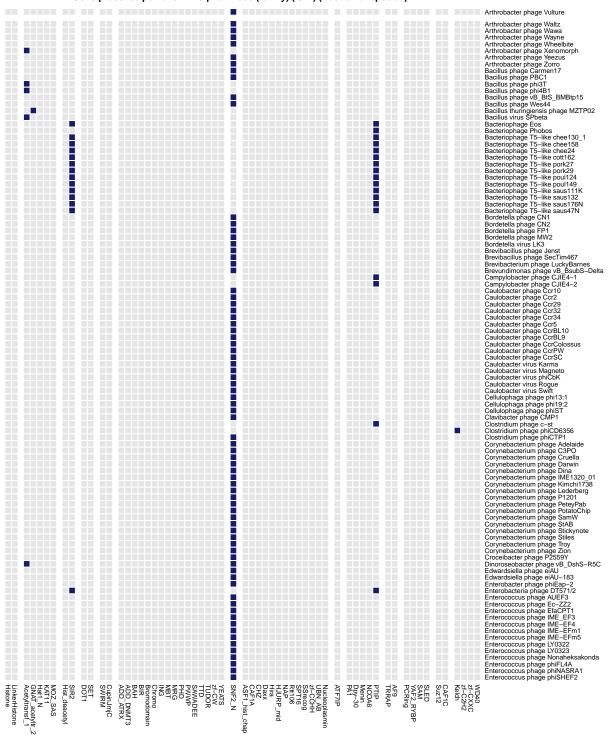


0.8

0.6

0.4

#### Gene presence per taxon in Siphoviridae (family) (2/11) (fraction of species)

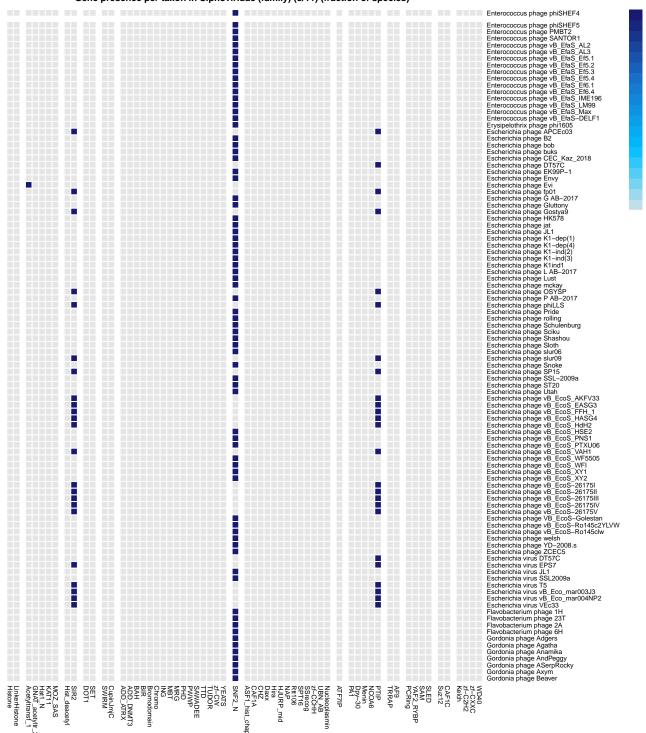


0.8

0.6

0.4

#### Gene presence per taxon in Siphoviridae (family) (3/11) (fraction of species)

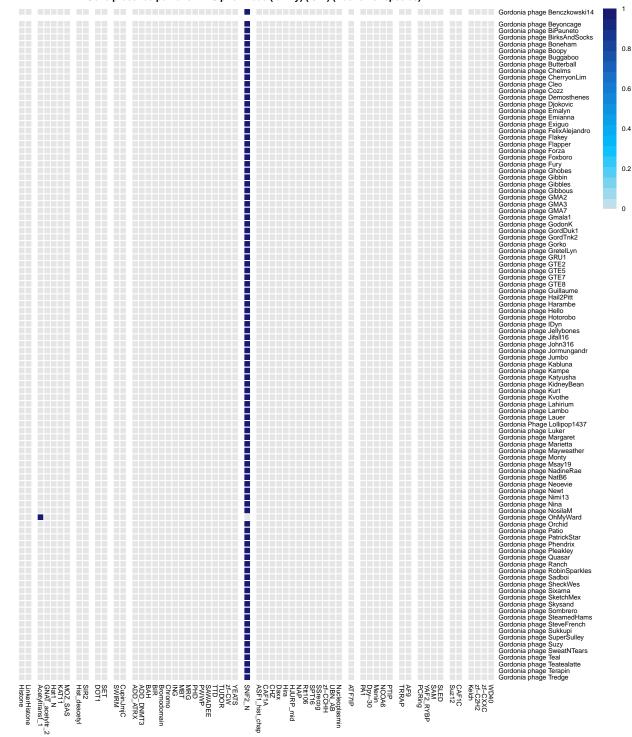


8.0

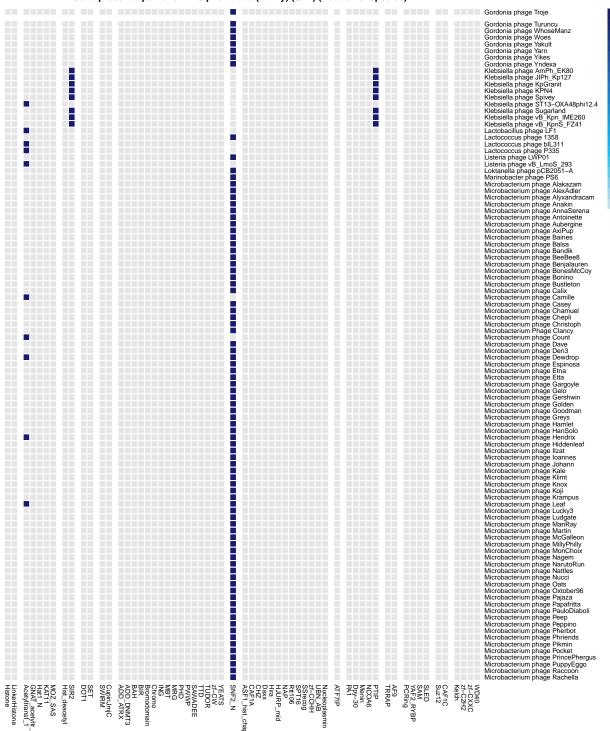
0.6

0.4

#### Gene presence per taxon in Siphoviridae (family) (4/11) (fraction of species)



## Gene presence per taxon in Siphoviridae (family) (5/11) (fraction of species)



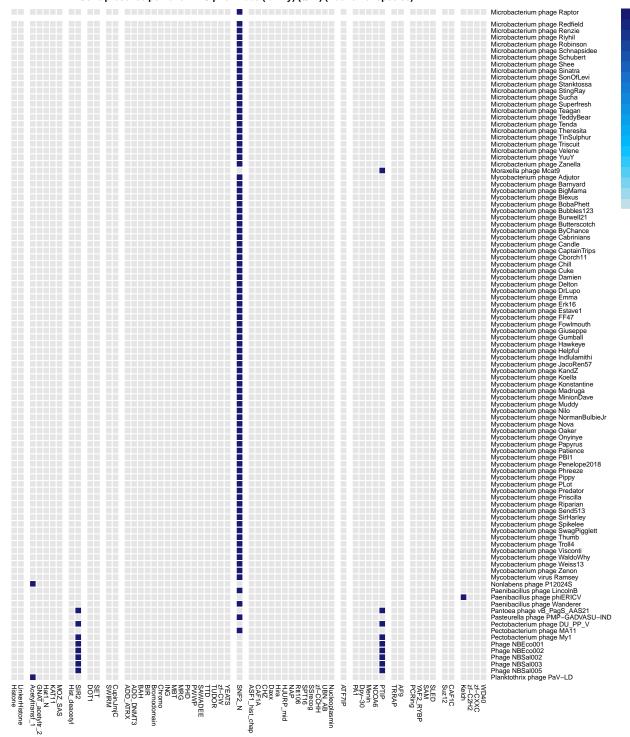
8.0

0.6

0.4

0.2

#### Gene presence per taxon in Siphoviridae (family) (6/11) (fraction of species)

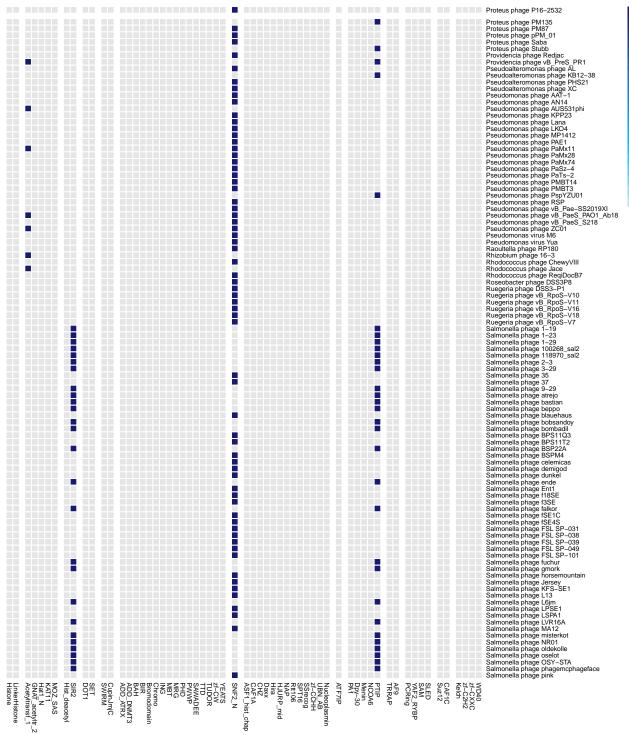


0.8

0.6

0.4

#### Gene presence per taxon in Siphoviridae (family) (7/11) (fraction of species)

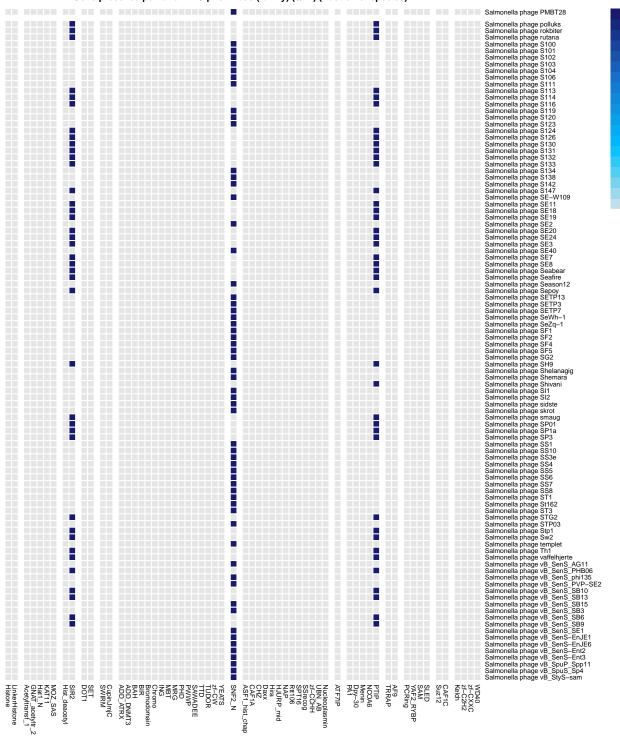


8.0

0.6

0.4

#### Gene presence per taxon in Siphoviridae (family) (8/11) (fraction of species)

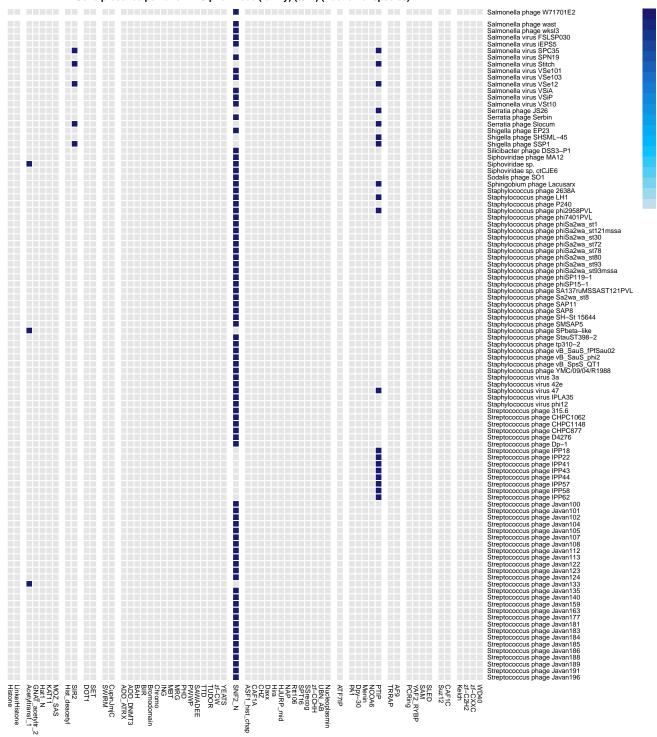


0.8

0.6

0.4

#### Gene presence per taxon in Siphoviridae (family) (9/11) (fraction of species)

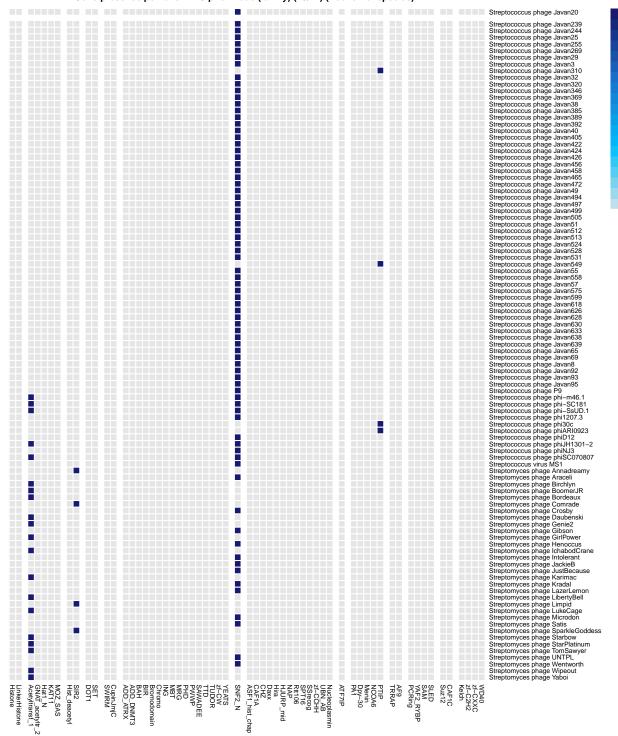


8.0

0.6

0.4

#### Gene presence per taxon in Siphoviridae (family) (10/11) (fraction of species)

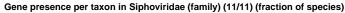


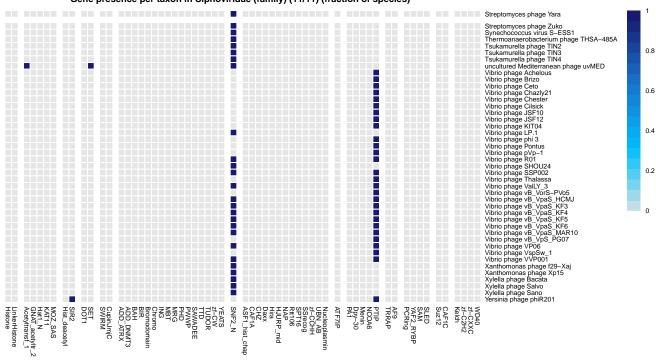
0.8

0.6

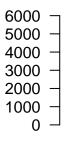
0.4

0.2





# num species per group



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Anthrobacter phage ChewChew in Arthrobacter phage decled in Arthrobacter phage Ended in Arthrobacter phage Remin Arthrobacter phage Bedwin in Arthrobacter phage Remin Bedwin and Arthrobacter phage Shepard in Eacherchial phage Cnt.) in Escherichia phage Cnt. Sa. 2018 in Escherichia phage Removers Solvin in Escherichia phage Removers Solvin in Escherichia phage Removers in Escherichia phage Solvin in Escherichia phage Removers in Escherichia phage Solvin in Microbacterium phage ArmaSerena in Microbacterium phage Pation in Salmonella phage Solvin in
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