

Supplementary Table 5. Non-conserved genes in the pilus-dependent phages

Accessory Gene	# residues	MP22-like	Minimum % identity of Homologues	Found in non-MP22 phages	Phages Containing Homologues
AG1	108	yes	97%	no	
AG2	69	yes	51%	no	
AG3	84	yes	51%	no	
AG4	136	yes	47%	no	
AG5	143	yes	49%	no	
AG6	211	yes	41%	yes	Pseudomonas phages phi297, B3
AG7	92	yes	45%	yes	Various myophage prophages
AG8	67	yes	42%	yes	Pseudomonas phage B3, myo prophages
AG9	102	yes	92%	no	
AG10	73	JBD5 only	61%	yes	Different type of prophage
AG11	149	JBD8 only	34%	yes	Pseudomonas phage B3
AG12	73	JBD8 only	40%	yes	Various prophages
AG13	224	JBD24 only	32%	yes	Diverse prophages
AG14	98	JBD24 only	85%	yes	Diverse prophages (DUF2786)
AG15	80	yes	95%	no	
AG16	39	JBD30 only		no	
AG17	37	yes	92%	yes	Diverse prophages
AG18	83	JBD24 only	99%	no	Closely related <i>P. aeruginosa</i> prophages
AG19	164	yes	30%	yes	Enterobacteria phage HK446 Salmonella phage HK620 Xylella phage Xfas53
AG20	83	yes	100%	no	
AG30	41	yes	100%	no	
AG31	132	yes	35%	yes	Diverse prophages
AG32	66	yes	88%	no	