

Table S2. Pfam entries used for taxonomic classification.

Type	Pfam accession	Pfam description
Caudovirales tail	PF03335	Phage tail fibre repeat
	PF03406	Phage tail fibre repeat
	PF03903	Phage T4 tail fibre
	PF03906	Phage T7 tail fibre protein
	PF04630	Phage tail tube protein
	PF04985	Phage tail tube protein FII
	PF05100	Phage minor tail protein L
	PF05489	Phage Tail Protein X
	PF05709	Phage tail protein
	PF05939	Phage minor tail protein
	PF06120	Tail length tape measure protein
	PF06141	Phage minor tail protein U
	PF06199	Phage tail tube protein
	PF06488	Phage tail tube protein
	PF06605	Prophage endopeptidase tail
	PF06763	Prophage minor tail protein Z (GPZ)
	PF06791	Prophage tail length tape measure protein
	PF06820	Putative prophage tail fibre C-terminus
	PF06841	T4-like virus tail tube protein gp19
	PF08400	Prophage tail fibre N-terminal
	PF08813	Phage tail tube protein, TTP
	PF08931	Receptor-binding protein of phage tail base-plate Siphoviridae, head
	PF09089	Phage short tail fibre protein gp12, middle domain
	PF09251	Salmonella phage P22 tail-spike
	PF09393	Phage tail tube protein
	PF09684	Phage tail protein (Tail_P2_I)
	PF09718	Lambda phage tail tape-measure protein (Tape_meas_lam_C)
	PF10145	Phage-related minor tail protein
	PF10618	Phage tail tube protein
	PF11091	Tail-tube assembly protein
	PF11650	P22 tail accessory factor
	PF11836	Phage tail tube protein, GTA-gp10
	PF12604	Tail fibre protein gp37 C terminal
	PF14928	Short tail fibre protein receptor-binding domain
	PF16460	Phage tail tube, TTP, lambda-like
	PF16461	Lambda phage tail tube protein, TTP
	PF16463	Phage tail tube protein family
	PF16532	Sf6-type phage tail needle knob or tip of some Caudovirales
	PF16792	Phage tail base-plate attachment protein of Caudovirales ORF16
	PF16838	Caudoviral major tail protein N-terminus
	PF17212	Tail tubular protein
Myoviridae tail sheath	PF04984	Phage tail sheath protein subtilisin-like domain
	PF16724	T4-like virus Myoviridae tail sheath stabiliser
	PF17481	Phage tail sheath protein beta-sandwich domain
	PF17482	Phage tail sheath C-terminal domain
Microviridae capsid	PF02305	Capsid protein (F protein)