Table 1. *Nucleic acid contents, observed and predicted burst sizes for a range of algae and viruses*. dsDNA viruses unless otherwise noted.*

Host organism	Habitat	Cell volume (μm^3)	Host genome (nucleotides/ haploid cell)	Virus	Virus type	Viral genome (nucleotides per virus)	Burst—reported	Burst—predicted**
Synechococcus WH7803	Marine	1.8	4.74×10^6	S-PM2	Cyanomyovirus	392560	41	24
Synechococcus WH7803	Marine	1.8	4.74×10^6	P60	Cyanopodo-virus	95744	81	99
Microcystis aeruginosa NIES-298	Freshwater	35	9.60×10^6	Ma-LMM01	Cyanomyovirus	320000	85	60
Micromonas pusilla	Marine	1.8	4.93×10^7	MpV	Phycodnavirus	400000	85	123
Micromonas pusilla	Marine	1.8	4.93×10^7	MpRNAV-01B	Reovirus (dsRNA)	51000	490	966
Chlorella NC64A	*P. bursaria* endo-symbiont	53	7.76×10^7	PBCV-1	Phycodnavirus	661488	138	117
Chaetoceros salsugineum	Marine	115	2.39×10^8	CsNIV	Circovirus? (ssDNA)	7002	325	34147
Phaeocystis globosa Pg-I	Marine	65	3.83×10^8	PgV Group I	Phycodnavirus	932000	248	411
Phaeocystis globosa Pg-I	Marine	65	3.83×10^8	PgV Group II	Phycodnavirus	354000	369	1083
Phaeocystis pouchetii AJ01, AJ10	Marine	65	4.02×10^8	PpV	Phycodnavirus	970000	475	414
Emiliania huxleyi	Marine	115	4.40×10^8	EhV	Phycodnavirus	824000	620	534
Heterosigma akashiwo	Marine	1766	3.89×10^9	HaV-01	Phycodnavirus	588000	770	6612
Heterosigma akashiwo	Marine	1766	3.89×10^9	HaRNAV	Marnavirus (ssRNA)	8587	21000	452728
Heterocapsa circularisquama	Marine	4187	1.66×10^{10}	HcV-01	Phycodnavirus	712000	2120	23327
Heterocapsa circularisquama	Marine	4187	1.66×10^{10}	HcRNAV	Unassigned (ssRNA)	4400	12200	3774745

*, see Materials and Methods for data sources and treatments; **, host genomic nucleotides/viral nucleotides.