

Table 1  
Top-20 virus genome sizes

Name	Genome size (kb)	Family	NCBI reference
<i>Acanthamoeba Polyphaga</i> Mimivirus	1181.4	<i>Mimiviridae</i>	NC_006450
Bacillus phage G	497.5	<i>Myoviridae</i>	(1)
Coccolithovirus EhV-86	407.3	<i>Phycodnaviridae</i>	NC_007346
<i>Paramecium bursaria</i> Chlorella virus NY-2A	368.7	<i>Phycodnaviridae</i>	(2)
Canarypox virus	359.9	<i>Chordopoxvirinae</i>	NC_005309
<i>Paramecium bursaria</i> Chlorella virus AR158	344.7	<i>Phycodnaviridae</i>	(2)
<i>Ectocarpus siliculosus</i> virus	335.6	<i>Phycodnaviridae</i>	NC_002687
<i>Paramecium bursaria</i> Chlorella virus 1	330.7	<i>Phycodnaviridae</i>	NC_000852
<i>Paramecium bursaria</i> Chlorella virus MT325	314.3	<i>Phycodnaviridae</i>	(2)
Shrimp white spot syndrome virus	305.1	<i>Nimaviridae</i>	NC_003225
Fowlpox virus	288.5	<i>Chordopoxvirus</i>	NC_002188
<i>Pseudomonas</i> phage phiKZ	280.3	<i>Myoviridae</i>	NC_004629
Bacteriophage KVP40	244.8	<i>Myoviridae</i>	NC_005083
Pongine herpesvirus 4	241.1	<i>Herpesviridae</i>	NC_003521
<i>Melanoplus sanguinipes</i> entomopoxvirus	236.1	<i>Entomopoxvirus</i>	NC_001993
Human herpesvirus 5 strain Merlin	235.6	<i>Herpesviridae</i>	NC_006273
Bacteriophage Aehl	233.2	<i>Myoviridae</i>	NC_005260
<i>Amsacta moorei</i> entomopoxvirus	232.4	<i>Entomopoxvirus</i>	NC_002520
Human herpesvirus 5 strain AD169	230.3	<i>Herpesviridae</i>	NC_001347
Murid herpesvirus 1	230.3	<i>Herpesviridae</i>	NC_004065

The “giant” viruses corresponding to the discontinuity in the distribution of genome sizes (Fig. 1A) are in gray. (1) Available at URL: [pbi.bio.pitt.edu/](http://pbi.bio.pitt.edu/); (2) available at URL: <http://greengene.uml.edu/>.