

Table S7. Representative list illustrating the most disordered protein of greater than 200 residues from each viral family shown (excluding hypothetical proteins).

(A) Genome size more than 10kb.

Family	Virus	Accession	Product	Length	%Disorder
<i>Herpesviridae</i>	Callitrichine herpesvirus 3	NP_733919	C4	254	100.00
<i>Alloherpesviridae</i>	Anguillid herpesvirus 1	YP_003358141	ORF2L	345	95.36
<i>Nimaviridae</i>	Shrimp white spot syndrome virus	NP_477701	wsv179	221	93.67
<i>Phycodnaviridae</i>	Ectocarpus siliculosus virus 1	NP_077542	EsV-1-57	358	88.27
<i>Podoviridae</i>	Burkholderia phage BcepIL02	YP_002922702	gp30	258	86.43
<i>Paramyxoviridae</i>	Human parainfluenza virus 3	NP_599250	D protein	373	86.33
<i>Polydnaviridae</i>	Hyposoter fugitivus ichnovirus	YP_001031291	c17.1	352	84.38
<i>Siphoviridae</i>	Mycobacterium phage Pukovnik	YP_001994825	gp7	356	83.71
<i>Myoviridae</i>	Pseudomonas phage LMA2	YP_002154300	putative structural protein	297	79.46
<i>Adenoviridae</i>	Porcine adenovirus A	YP_009215	22K	225	78.67
<i>Baculoviridae</i>	Lymantria dispar MNPV	NP_047640	mucin-like protein	1029	75.90
<i>Poxviridae</i>	Cowpox virus	NP_619919	CPXV136 protein	295	73.22
<i>Reoviridae</i>	Rice gall dwarf virus	YP_001111377	RNA-binding protein 12	206	68.93
<i>Ascoviridae</i>	Spodoptera frugiperda ascovirus 1a	YP_762403	64.6 kDa	565	68.32
<i>Coronaviridae</i>	SARS coronavirus	NP_828858	nucleocapsid protein	422	67.77
<i>Tectiviridae</i>	Bacillus phage AP50	YP_002302524	virion assembly protein	235	62.98
<i>Malacoherpesviridae</i>	Ostreid herpesvirus 1	YP_024574	ORF29	201	60.20
<i>Asfarviridae</i>	African swine fever virus	NP_042837	pDP238L	238	57.14
<i>Orthomyxoviridae</i>	Infectious salmon anemia virus	YP_145796	P6	234	54.70
<i>Rhabdoviridae</i>	Tupaia virus	YP_238530	protein C	221	52.49

(B) Genome size less than 10kb.

Family	Virus	Accession	Product	Length	% disorder
<i>Tymoviridae</i>	Turnip yellow mosaic virus	NP_663296	overlapping protein/movement protein	628	91.56
<i>Papillomaviridae</i>	Human papillomavirus type 5	NP_041369	E4	245	86.12
<i>Anelloviridae</i>	Torque teno virus 3	YP_003587865	ORF2/2	281	77.22
<i>Polyomaviridae</i>	Finch polyomavirus	YP_529830	putative ORF-X	205	68.29
<i>Parvoviridae</i>	Human bocavirus	YP_338087	NP-1	219	55.25
<i>Alphaflexiviridae</i>	Shallot virus X	NP_620652	coat protein	262	53.82