

Table 2 Comparison of gene length, ORFs capacity, host and source between all reported 8 cyanosiphoviruses and cyanosiphovirus S-ESS1 (“+”is “greater than”)

Name	Length	ORFs	Host	Isolation location	Reference
S-CBS1	30332	40+	<i>Synechococcus</i>	Chesapeake Bay	Huang S,2012
S-CBS2	72332	102	<i>Synechococcus</i>	Chesapeake Bay	Huang S,2012
S-CBS3	33004	40+	<i>Synechococcus</i>	Chesapeake Bay	Huang S,2012
S-CBS4	69420	105	<i>Synechococcus</i>	Chesapeake Bay	Huang S,2012
P-SS2	107595	38	<i>Prochlorococcus</i>	Atlantic Ocean slope waters	Sullivan MB et al., 2009
KBS2A	40658	43	<i>Synechococcus</i>	Chesapeake Bay	Alise J,2013
A-HIS1	55653	93	<i>Acaryochloris</i>	Reef waters off Heron island, Australia	Yi-Wah Chan et al, 2015
A-HIS2	57391	104	<i>Acaryochloris</i>	Reef waters off Heron island, Australia	Yi-Wah Chan et al, 2015
S-ESS1	60362	56	<i>Synechococcus</i>	East sea of China	This work