This form should be used for all taxonomic proposals. Please complete all those modules that are applicable (and then delete the unwanted sections).

Code(s) assigned: ***2008.031B*** (to be completed by ICTV officers)

Short title: create species named Streptococcus phage C1 within the genus "AHJD-like viruses" in the subfamily Picovirinae, family Podoviridae
(e.g. 6 new species in the genus *Zetavirus*; re-classification of the family *Zetaviridae* etc.)

Modules attached (please check all that apply):	**1** ☐	**2** ☐	**3** ☐	**4** ☐	**5** ☒
	6 ☐	**7** ☐			

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ICTV-EC or Study Group comments and response of the proposer:

MODULE 5: **NEW SPECIES**

Code	***2008.031B***	(assigned by ICTV officers)

To create new species assigned as follows:

Genus:	**“AHJD-like viruses”**
Subfamily:	***Picovirinae***
Family:	***Podoviridae***
Order:	***Caudovirales***

Fill in all that apply. Ideally, species should be placed within a genus, but it is acceptable to propose a species that is within a Subfamily or Family but not assigned to an existing genus (in which case put “unassigned” in the genus box)

Name(s) of proposed new species:

Streptococcus phage C1

Argument to justify the creation of the new species:

If the species are to be assigned to an existing genus, list the criteria for species demarcation and explain how the proposed members meet these criteria.

C(1), a lytic bacteriophage infecting group C streptococci, is one of the earliest-isolated phages, and the method of bacterial classification known as phage typing was defined by using this bacteriophage. C(1) genome consists of a linear double-stranded DNA molecule of 16,687 nucleotides with 143-bp inverted terminal repeats (NC_004814).
Examination of the C(1) DNA polymerase suggests that this phage utilizes a protein-primed mechanism of replication, which is prominent in the Picovirinae.
Comparative genomics revealed 44AHJD as its closest evolutionary match.

References:

Nelson D, Schuch R, Zhu S, Tscherne DM, Fischetti VA. (2003) Genomic sequence of C1, the first streptococcal phage. J Bacteriol. 2003 Jun;185(11):3325-32.

Annexes: