



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:	2008.024B.01	(to be completed by ICTV officers)
Short title: addition of an unassigned new species Av-1 within the Picovirinae subfamily (e.g. 6 new species in the genus <i>Zetavirus</i> ; re-classification of the family <i>Zetaviridae</i> etc.)		
Modules attached (please check all that apply):	1 <input type="checkbox"/>	2 <input type="checkbox"/>
	3 <input type="checkbox"/>	4 <input type="checkbox"/>
	5 <input checked="" type="checkbox"/>	
	6 <input type="checkbox"/>	7 <input type="checkbox"/>

Author(s) with e-mail address(es) of the proposer:

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

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MODULE 5: NEW SPECIES

Code	2008.024B.01	(assigned by ICTV officers)
To create new species assigned as follows:		
Genus:	<i>unassigned</i>	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)
Subfamily:	<i>Picovirinae</i>	
Family:	<i>Podoviridae</i>	
Order:	<i>Caudovirales</i>	

Name(s) of proposed new species:

Actinomyces phage Av-1

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.

Phage Av-1 shares only 26% correlation to phi29-like and 44AHJD-like viruses, which implies a divergence at the genus level. However, the evolutionary link to the ϕ 29-like phages is clearly present, both morphologically and molecularly, since *Actinomyces* phage Av-1 (NC_006953) (Delisle et al., 2006) also contains a type B polymerase, apart from other similar gene products and overall genome size. From this perspective, phages Av-1 could be included within the *Picovirinae* subfamily.

References:

** Delisle AL, Barcak GJ, Guo M. (2006) Isolation and expression of the lysis genes of *Actinomyces naeslundii* phage Av-1. *Appl Environ Microbiol.*72(2):1110-7.

Annexes:

Include as much information as necessary to support the proposal. The use of Figures and Tables is strongly recommended.