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2024 SEA Symposium Abstract

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Annotation of Three Actinobacteriophages: TukTuk, Shamu, and Megatron06

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We annotated three newly discovered bacteriophages. TukTuk and Shamu were isolated on the host Microbacterium folorium and Megatron06 on Mycobacterium smegmatis. Based on gene-content similarity (GCS) of 35% or higher to sequenced bacteriophages present in the Actinobacteriophage database, phagesDB, TukTuk was assigned to cluster EB, Shamu to cluster EA, and Megatron06 to Cluster H1. Here we report a summary of our annotation findings along with an in-depth analysis of one aspect of our annotation for each phage.