

HER number

482

Identification

Name

A2

Morphotype

Siphophage

Other designations

Φ393-A2

Taxonomy

Realm

Kingdom

Phylum

Class

Order

Family

?1

Genus

Ashduovirus

Species

Ashduovirus A2

Images

Electron Micrograph

Image description

Characteristics

Genomic sequence

Activated

Propagation conditions

Bacterial hosts

1482

Reference

1. Herrero, M., C. G. Delosreyesgavilan, J. L. Caso, and J. E. Suarez. 1994. Characterization of ϕ 393-A2, a bacteriophage that infects *Lactobacillus casei*. Microbiology-(UK) 140:2585-2590.
2. Garcia, P., J. C. Alonso, and J. E. Suarez. 1997. Molecular analysis of the cos region of the *Lactobacillus casei* bacteriophage A2. Gene product 3, gp3, specifically binds to its downstream cos region. Mol. Microbiol. 23:505-514.
3. Garcia, P., V. Bascaran, A. Rodriguez, and J. E. Suarez. 1997. Isolation and characterization of promoters from the *Lactobacillus casei* temperate bacteriophage A2. Can. J. Microbiol. 43:1063-1068.
4. Alvarez, M. A., M. Herrero, and J. E. Suarez. 1998. The site-specific recombination system of the *Lactobacillus* species bacteriophage A2 integrates in Gram-positive and Gram-negative bacteria. Virology 250:185-193.
5. Ladero, V., P. Garcia, V. Bascaran, M. Herrero, M. A. Alvarez, and J. E. Suarez. 1998. Identification of the repressor-encoding gene of the *Lactobacillus* bacteriophage A2. J. Bacteriol. 180:3474-6.
6. Alvarez, M. A., A. Rodriguez, and J. E. Suarez. 1999. Stable expression of the *Lactobacillus casei* bacteriophage A2 repressor blocks phage propagation during milk fermentation. J. Appl. Microbiol. 86:812-816.
7. Garcia, P., V. Ladero, J. C. Alonso, and J. E. Suarez. 1999. Cooperative interaction of CI protein regulates lysogeny of *Lactobacillus casei* by bacteriophage A2. J. Virol. 73:3920-3929.
8. Ladero, V., P. Garcia, J. C. Alonso, and J. E. Suarez. 1999. A2 Cro, the lysogenic cycle repressor, specifically binds to the genetic switch region of *Lactobacillus casei* bacteriophage A2. Virology 262:220-229.
9. Martin, M. C., J. C. Alonso, J. E. Suarez, and M. A. Alvarez. 2000. Generation of food-grade recombinant lactic acid bacterium strains by site-specific recombination. Appl. Environ. Microbiol. 66:2599-2604.
10. Moscoso, M., and J. E. Suarez. 2000. Characterization of the DNA replication module of bacteriophage A2 and use of its origin of replication as a defense against infection during milk fermentation by *Lactobacillus casei*. Virology 273:101-111.
11. Ladero, V., P. Garcia, J. C. Alonso, and J. E. Suarez. 2002. Interaction of the Cro repressor with the lysis/lysogeny switch of the *Lactobacillus casei* temperate bacteriophage A2. J. Gen. Virol. 83:2891-2895.
12. Garcia, P., V. Ladero, and J. E. Suarez. 2003. Analysis of the morphogenetic cluster and genome of the temperate *Lactobacillus casei* bacteriophage A2. Arch. Virol. 148:1051-1070.
13. Rodriguez, I., P. Garcia, and J. E. Suarez. 2005. A second case of -1 ribosomal frameshifting affecting a major virion protein of the *Lactobacillus* bacteriophage A2. J. Bacteriol. 187:8201-8204.

Remarks

History

History

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Source

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