

Numéro HER  
482

## Identification

<i>Nom</i> 482	<i>Morphotype</i> Siphophage	<i>Autres désignations</i> &Phi;393-A2	
-------------------	---------------------------------	---	--

## Taxonomie

<i>Domaine</i>	<i>Règne</i>	<i>Embranchement</i>	<i>Classe</i>
<i>Ordre</i>	<i>Famille</i> ?1	<i>Genre</i> <i>Ashduovirus</i>	<i>Espèce</i> <i>Ashduovirus A2</i>

## Images

<i>Photo en microscopie électronique</i>	<i>Description de l'image</i>
<i>Caractéristique</i>	<i>Séquence génomique</i> Activé

## Conditions de propagation

*Hôtes bactériens*  
1482

## Référence

1. Herrero, M., C. G. Delosreyesgavilan, J. L. Caso, and J. E. Suarez. 1994. Characterization of  $\lambda$ 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 Cl 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.

## Remarque

## Historique

*Historique*

**Isolated by**

Juan E. Suárez  
Área de Microbiología  
Facultad de Medicina  
c/Julián Clavería 6  
33006 Oviedo

**Date**

1982

**Received from**

Juan E. Suárez  
Área de Microbiología  
Facultad de Medicina  
c/Julián Clavería 6  
33006 Oviedo

**Date**

2011-07-22

*Source*

Fermented milk, Oviedo, Spain

*Dernière mise à jour*

2024-01-22