pJP1 plasmid in *Bacillus sphaericus*

67080™

Description

This clone contains the complete coding sequence (nt 245-1414 of Genbank M15686) of the gene lysostaphin from *Staphylococcus simulans*. It was constructed by excising the insert of pRG5 (ATCC 67076) with an EcoRI/HindIII digest, and blunt-ending the vector and insert with the Klenow fragment of DNA polymerase before ligation.
– U.S. Patent 4,931,390 dated June 5, 1990.

Organism: *Staphylococcus simulans* Kloos and Schleifer

Clone type: Clone

Host: *Bacillus sphaericus*

Patent depository: This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.

Patent number:
4,931,390

Technical information: ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

Shipping information: *B. sphaericus* containing the plasmid

Storage Conditions

Product format: Freeze-dried

Storage conditions: 2°C to 8°C

Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Insert Information

Insert size (kb): 1.5
Insert information:
Gene: lysostaphin
Source: *Staphylococcus simulans*, NRRL B-2628
Insert ends: (5') EcoRI ; (3 ') HindIII
Genbank accession: M15686
Insert end: 3' HindIII; 5' EcoR

Vector Information

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Construct size (kb): 8.0
Intact vector size: 4.6
Vector name: pBC16
Type of vector: plasmid
Vector end: EcoRI
Markers: eryR

Growth Conditions

Medium:
ATCC Medium 1179: VY medium

Handling Procedures

1. Open vial according to instructions.
2. Asceptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100 µL to a test tube containing 5 mLVY Medium (*see below) + erythromycin (5 µg/mL). A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 30°C.
3. Isolate DNA using standard plasmid preparation procedures for *Bacillus* sp.

Notes

Restriction digests of the clone gave the following sizes (in kb): EcoRI/HindIII – 8.0 ; PstI – uncut ; Sph – 8.9.
–ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pJP1 plasmid in *Bacillus sphaericus* (ATCC 67080)

References

References and other information relating to this material are available at www.atcc.org.

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