



pJQ200mp18 plasmid in *E. coli*

77485™

Description

This is a suicide vector permitting gene replacement and mobilization into a wide range of Gram negative bacteria. It allows positive selection for integration. It replicates only in enterobacteria, and so functions as a suicide vector in other Gram negative hosts. When induced by media containing 5% sucrose, *sacB* is lethal in a wide range of Gram negative bacteria, and thus permits selection for loss of the vector. A single *Bgl*III site within the gentamicin resistance gene (*gtmR*) allows insertion of other resistance genes (e.g. as a *Bam*HI cassette). The order of the major features of the plasmid is: *gtmR* ? *Eco*RI/MCS/*Hind*III ? *P15A* ? *traJ* ? *oriT* ? *sacB*.

- Gene (Amst.) 127: 15-21, 1993.

Clone type: Vector

Shipping information: *Escherichia coli* containing the plasmid

Storage Conditions

Product format: Frozen

Storage conditions: -80°C or colder

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.

Vector Information

Construct size (kb): 5.55

Vector name: pJQ200mp18 (plasmid)

Type of vector: plasmid

Construction: P15A ori, sacB, RP4, gtmR, mp18 MCS (pK18)

Insert detection: lac

Markers: gtmR; sacB

Promoters: lac

Replicon: P15A, oriT

Growth Conditions

Medium:

ATCC Medium 1885: LB medium (ATCC medium 1065) with 15 mcg/ml gentamycin

Temperature: 37°C

Notes

Restriction digests of the clone gave the following sizes (in kb): BamHI 6.0 ; EcoRI 3.1, 2.8 ; HindIII 3.9, 2.1.
ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pJQ200mp18 plasmid in E. coli (ATCC 77485)

References

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

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