



pAG408

87653™

Description

This vector is a suicide mini-transposon delivery plasmid and R6K based, being unable to survive in recipients lacking the Pir protein. Selection for the kanamycin or gentamycin resistance encoded by the mini-transposons yields recipients in which the mini-transposon, but not the cognate transposase gene present on the suicide plasmid, has integrated into one of the endogenous replicons. The modified GFP exhibits a 45-fold increased fluorescent signal compared with that of the natural GFP. The enhanced sensitivity of this vector, gfp-based promoter-probe mini transposon, allows the direct detection of transconjugants harbouring monocopy transcriptional fusions by means of a uv handy-lamp at 366 nm by the naked eye and the detection of single gfp-tagged bacterial cells by epifluorescence microscopy.

Clone type: Vector

Host: *Escherichia coli* CC118 lambda pir+

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): 5.7

Vector name: pAG408 (plasmid)

Type of vector: plasmid

Construction: pASV1, pBluescript KS+, pBSL202

Host range: *Escherichia coli*

Vector information:

other: atpE

Coding sequence: Tn5 transposase, → and aphA-3, →

Markers: gtmR; kanR; ampR

Polylinker sites: BstXI; NotI; SpeI; SmaI; XmaI; ClaI; ApaI; KpnI

Replicon: oriT RP4, transfer origin; R6K ori

Reporter group: modified gfp gene, &arr

Growth Conditions

Medium:

ATCC Medium 1948: LB medium (ATCC medium 1065) with 50 mcg/ml ampicillin and 20 mcg/ml kanamycin

Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): NotI--5.7; ClaI--5.7; KpnI--4.1, 1.6.

- ATCC staff

The vector is a suicide mini-transposon delivery plasmid and R6K based, being unable to survive in recipients lacking the Pir protein.

- Gene 196: 69-74, 1997

Selection for the kanamycin or gentamycin resistance encoded by the mini-transposons yields recipients in which the mini-transposon, but not the cognate transposase gene present on the suicide plasmid, has integrated into one of the endogenous replicons.

- Gene 196: 69-74, 1997

The modified GFP exhibits a 45-fold-increased fluorescent signal compared with that of the natural GFP.

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The enhanced sensitivity of this vector, gfp-based promoter-probe mini-transposon, allows the direct detection of transconjugants harbouring monocopy transcriptional fusions by means of a UV handy-lamp at 366 nm by naked eye and the detection of single gfp-tagged bacterial cells by epifluorescence microscopy.

- Gene 196: 69-74, 1997

Restriction digests of the clone gave the following sizes (in kb): NotI 5.7 ; ClaI 5.7 ; KpnI 4.1, 1.6.

ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pAG408 (ATCC 87653)

References

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

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