



pCMVbeta

77177™

Description

This is a reporter plasmid permitting visual detection of beta-galactosidase activity by histochemical staining. It is designed to express high levels of beta-galactosidase or an alternative gene product. It may be used as a reference plasmid in transfection experiments or to monitor the effect of trans-acting factors. The lacZ gene may be excised by NotI and replaced with alternative sequences. The order of the major features in this plasmid is: pUC19 ? EcoRI ? CMV immediate early promoter/enhancer ? SV40 late 16S/19S splice signals ? NotI ? lacZ ? NotI ? SV40 late polyadenylation signal ? XbaI ? HindIII ? pUC19. - Nucleic Acids Res. 17: 2365, 1989.

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): 7.164000034332275

Vector name: pCMVbeta (plasmid)

Type of vector: plasmid

Construction: pUC19, pC4AUG beta-gal, pCM5029, pL1

Vector information:

eukaryotic reporter gene cassette: lacZ

Enhancer: CMV immediate early

Markers: ampR

Promoters: CMV immediate early

Replicon: pMB1

Reporter group: lacZ

Terminator: SV40 late

Growth Conditions

Medium:

ATCC Medium 1945: Terrific broth (ATCC medium 1743) with 200 mcg/ml ampicillin

Temperature: 37°C

Notes

Restriction digests of the vector gave the following sizes (in kb): BamHI 3.65, 3.45, 0.2; EcoRI 7.3 ; HindIII 7.3 ; EcoRI/HindIII 4.6, 2.7 ; NotI 3.8, 3.5.

ATCC Staff

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pCMVbeta (ATCC 77177)

References

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

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