



pRSVlacZII

77129™

Product Sheet

Description

Organism: *Escherichia coli* (Migula) Castellani and Chalmers

Clone type: Vector

Host: *Escherichia coli* DH5alpha

Storage Conditions

Product format: Freeze-dried

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): 3.7000000000000002

Type of DNA: genomic

Insert information:

Insert 5' end: KpnI

Insert 3' end: BamHI

Genome: Escherichia coli

Chromosome: 8 min

Target gene: beta-galactosidase

Gene name: beta-galactosidase

Gene product: beta-galactosidase(beta-D-galactosidase) [lacZ]

Gene symbol: lacZ

Contains complete coding sequence: Unknown

Vector Information

Construct size (kb): 8.899999618530273

Intact vector size: 5.100

Vector name: pRc/RSV

Type of vector: phagemid

Construction: pUC19, RSV, bovine growth hormone; pRc/RSV, pM-MuLV-SV-lacZ

Host range: vertebrate cells

Vector end: HindIII; XbaI

Cloning sites: HindIII; SpeI; BstXI; NotI; XbaI

Enhancer: RSV LTR

Markers: neoR; G418R; ampR

Polylinker sites: HindIII; KpnI; SacI; BamHI; SpeI; XmaIII; BstXI; EcoRI; PstI; EcoRV; BstXI; NotI; XhoI; SphI; NsiI; XbaI

Promoters: RSV LTR

Replicon: pMB1; M13

Terminator: bGH polyadenylation

Growth Conditions

Medium:

ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin

Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--4.4, 3.4, 1.2; HindIII--9.0; BglII--9.0, KpnI--4.5 (doublet); XbaI--9.0.

- ATCC staff

Transient expression experiments should be performed to examine the RSV promoter

efficiency in different cell lines. The RSV promoter can be replaced by excising with a BglII/HindIII digest.

- personal communication

Shuttle reporter plasmid permitting visual detection of activity by histochemical staining.

- BioTechniques 11: 344-351, 1991

Presence of beta-galactosidase activity is used to follow cell lineage in culture or in situ.

- BioTechniques 11: 344-351, 1991

pRSVlacZII (ATCC 77129), pRSVPAP (ATCC 77130) and pRSVADH (ATCC 77131) provide distinct color-staining reactions (aqua blue, red, and blue-black respectively) to permit simultaneous analysis of multiple lineages.

- BioTechniques 11: 344-351, 1991

The order of the major features in pRc/RSV is: RSV LTR - MCS - bovine growth hormone polyadenylation signal - M13 ori - SV40 early promoter - neoR - SV40

polyadenylation signal - pMB1 ori - bla.

- BioTechniques 11: 344-351, 1991

Constructed by cloning the 3.9 kb HindIII/BamHI fragment from pM-MuLV-SV-lacZ into pRc/RSV.

- BioTechniques 11: 344-351, 1991

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pRSVlacZII (ATCC 77129)

References

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

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