pVEX2211 [EKA605]

77422™

Description

Clone type: Vector
Host: *Escherichia coli* AS11

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.

Vector Information

Construct size (kb): 2.599999904632568
Intact vector size: 2.600
Vector name: pVEX2211 (plasmid)
Type of vector: plasmid
Construction: pVEX2111
Host range: *Escherichia coli*
Markers: cmlR
Polylinker sites: EcoRI; SalI; BamHI; BglII; BssHII; PvuI; KpnI; PstI; PvuII; ClaI; NruI
Replicon: R6K

Growth Conditions

Medium:
ATCC Medium 1675: LB Agar/Broth (1065) w/ 10ug/ml Chloramphenicol
Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--2.75; HindIII--2.05, 0.65; PvuII--1.5, 1.2.
- ATCC staff

Component of a vector-mediated excision system for generating in vivo deletions of large bacterial genomes, self-transmissible plasmids or temperate E. coli bacteriophages.
- J. Mol. Biol. 230: 174-185, 1993

To be used with pVEX1211 or pVEX1212 (ATCC 77420, 77421).
- J. Mol. Biol. 230: 174-185, 1993

Differs from pVEX2212 (ATCC 77423) only in the orientation of the polylinker.
- J. Mol. Biol. 230: 174-185, 1993

The vector is used to clone a sequence flanking the target to be deleted. The vector will be integrated by homologous recombination at the cloned sequence when chloramphenicol selection is imposed in a host not expressing pir protein.
- J. Mol. Biol. 230: 174-185, 1993

In the presence of Cre recombinase (from E. coli EKA133 ATCC 47071), double cointegrates [pVEX1211(pVEX1212) and pVEX2211(pVEX2212)] provide two loxP sites for site-specific recombination that deletes the intervening target sequence.
- J. Mol. Biol. 230: 174-185, 1993

The deletion derivative retains one loxP site and the cmLR marker. The circularized, deleted sequence is lost from cells not expressing repA or pir.
- J. Mol. Biol. 230: 174-185, 1993

The order of the major features in the plasmid is: R6K ori - loxP - cmLR - NotI - HindIII/MCS/EcoRI - NotI - HindIII.
- J. Mol. Biol. 230: 174-185, 1993

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pVEX2211 [EKA605] (ATCC 77422)

References

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

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Revision

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