



pVEX1212 [EKA608]

77421™

Description

Clone type: Vector

Host: *Escherichia coli* BR2943

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): 3.5

Intact vector size: 3.500

Vector name: pVEX1212 (plasmid)

Type of vector: plasmid

Construction: pVEX1192

Host range: *Escherichia coli*

Markers: strR; spcR

Polylinker sites: HindIII; BglI; XhoI; SacI; NruI; ClaI; PvuII; PstI; KpnI; PvuI; BssHII; BglII; BamHI; SalI; EcoRI; SacI; XhoI; BglI; HindIII

Replicon: P1

Growth Conditions

Medium:

ATCC Medium 1445: Nutrient agar/broth w/ streptomycin 20 ug/ml

Temperature: 37°C

Notes

Restriction digests of the clone give the following sizes (kb): EcoRI--3.5;

HindIII--3.5; PstI--2.5, 1.0.

- 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 pVEX2211 or pVEX2212 (ATCC 77422, 77423).

- J. Mol. Biol. 230: 174-185, 1993

Differs from pVEX1211 (ATCC 77420) 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 spectinomycin selection is imposed in a host not expressing repA.

- 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: P1 ori - PstI - loxP - NotI

- HindIII/MCS/EcoRI - NotI - spcR - PstI.

- 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: pVEX1212 [EKA608] (ATCC 77421)

References

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

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