pTK-HSV-BP2 plasmid in *Escherichia coli*

99530™

Description

This construct allows the exogenously expressed SREBP2 to be cleaved in a sterol-regulated fashion after transfection into 293 cells (ATCC CRL-1573). The amino terminus was truncated at amino acid 14 and fused to the HSV tag of the vector.

Name of construct: pTK-HSV-BP2
Size of construct (kb): 10.0
Markers: ampR, neoR
Excise insert: BapDI + XbaI

Depositor: Joseph L. Goldstein, Department of Molecular Genetics, University of Texas Southwestern Medical Center, Callas, TX
Organism: *Homo sapiens*, human
Clone type: Clone
Host: *Escherichia coli* HB101 (ATCC 33694)
Shipping information: *Escherichia coli* containing the plasmid

Storage Conditions

Product format: Freeze-dried
Storage conditions: 2°C to 8°C

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): 4.2000000000000002
Insert information:
Gene: sterol regulatory element binding transcription factor 2, SREBP2
Source: human
Genbank accession : U02031
Nucleotides: Nucleotides 1-4093 of the insert correspond to nucleotides 156-4249 of U02031

Vector Information

Intact vector size: 5.8
Vector name: pTK-HSV
Type of vector: phagemid
Construction: pcDNA3
Host range: mammalian cells
Vector end: BspDI; XbaI

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Vector information:
epitope tag: HSV
Cloning sites: BspDI; XbaI
Markers: neoR; ampR
Promoters: HSV TK
Replicon: pMB1
Restriction sites: BspDI; XbaI
Terminator: bGH polyadenylation

Growth Conditions

Medium:
ATCC Medium 1227: LB Medium (ATCC medium 1065) with 50 mcg/ml ampicillin
Temperature: 37°C

Handling Procedures

1. Open vial according to instructions.
2. Asceptically add 0.3 to 0.4 mL of liquid medium to the freeze-dried pellet and mix well. Transfer 100 µL to a test tube containing 5 mL LB+ ampicillin (50-100 µg/mL). A loopful of culture can also be streaked on an agar plate of the same. Incubate cultures at 37°C.
3. Isolate DNA using standard plasmid preparation procedures.

Notes

Restriction digests of the clone give the following sizes (kb): BspDI/XbaI--5.8, 4.2; EcoRI--6.8, 3.0; HindIII--9.0; 0.8.
- ATCC staff

The insert contains the following restriction sites (approximate kb from the 5' end): EcoRV--1.08; HindIII--1.12; BglII--1.70; EcoRI--2.45
- GenBank/EMBL/DDBJ

This construct allows the exogenously expressed SREBF2 to be cleaved in a sterol-regulated fashion after transfection into 293 cells (ATCC CRL-1573). The amino terminus was truncated at amino acid 14 and fused to the HSV tag of the vector.
- personal communication

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: pTK-HSV-BP2 plasmid in *Escherichia coli* (ATCC 99530)

References

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

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