



# 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, Dallas, TX

**Organism:** *Homo sapiens*, human

**Clone type:** Clone

**Host:** *Escherichia coli* HB101 (ATCC 33694)

**Shipping information:** *Escherichia coli* containing the plasmid

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## Storage Conditions

**Product format:** Freeze-dried

**Storage conditions:** 2°C to 8°C

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## 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.

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## 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.

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## Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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## 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

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

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## Growth Conditions

**Medium:**

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

**Temperature:** 37°C

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## Handling Procedures

1. Open vial according to instructions.
  2. Aseptically 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.
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## 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

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## 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)

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## References

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

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Product Sheet

Worldwide telephone: +1-703-365-2700

Fax number: 703-365-2701

Email: [tech@atcc.org](mailto:tech@atcc.org) or contact your local distributor

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