PMMTV-STU MYC Plasmid in *Escherichia coli*

39748™

Description

Organism: *Mus musculus*, mouse
Clone type: Clone
Host: *Escherichia coli* K-12
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Patent number:
4,736,866
Technical information: ATCC Product Experience does not have technical information on patent deposits that are not produced or characterized by ATCC. Additional information can be found in the corresponding patent available from the patent holder or with the U.S. and/or international patent office.

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

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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.

Insert Information

Type of DNA: genomic
Insert information:
Genomic copy number: unique
Insert 5' end: StuI
Insert 3' end: EcoRI
Genome: mouse
Chromosome: 15
15
Gene name: avian myelocytomatosis viral (v-myc) oncogene homolog
Gene product: avian myelocytomatosis viral (v-myc) oncogene homolog(avian myelocytomatosis viral (v-myc) oncogene homolog, proto-oncogene c-myc) [Myc]
Gene symbol: Myc
Contains complete coding sequence: Unknown

Vector Information

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Construct size (kb): 15.0
Vector name: pA9
Type of vector: plasmid
Host range: *Escherichia coli*
Vector end: SmaI; EcoRI
Cloning sites: SmaI; EcoRI
Enhancer: MMTV LTR
Markers: ampR

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): PstI--4.4, 4.2, 3.3, 2.7; PvuII--6.6, 4.2, 1.8, 1.4, 0.56; EcoRI--19.0; HindIII--8.0, 4.4, 1.4, 1.2, 0.9.
- ATCC staff

Constructed by ligating a StuI/EcoRI fragment from a genomic subclone of the gene to a SmaI/EcoRI fragment of pA9 (containing the glucocorticoid control region, MMTV promoter, and cap site). The insert begins approximately 3.0 kb 5' of exon 1. It therefore contains the 2 promoters naturally preceding the unactivated gene. The 3' end of the myc sequence in this construct is the HindIII site approximately 1.0 kb 3' of the poly(A) addition site. The EcoRI site used in subcloning was derived from the vector (pBR322). A 5.2 kb BamHI(5')/ClaI(3') fragment containing exons 2 and 3 has been used as a probe. The BamHI site is in intron 1 and the ClaI site is from the flanking pBR322-derived sequences.
- U.S. Pat. 4,736,866 dated Apr. 12, 1988

.patent

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: PMMTV-STU MYC Plasmid in *Escherichia coli* (ATCC 39748)

References

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

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Revision

This information on this document was last updated on 2025-05-05

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