pMMTV-Sma myc

39745™

Description

Organism: *Mus musculus*, mouse
Clone type: Clone
Host: *Escherichia coli* K-12
Patent depository: This material was deposited with the ATCC Patent Depository to fulfill U.S. or international patent requirements. This material may not have been produced or characterized by ATCC. As an International Depository Authority (IDA) for patent deposits, ATCC is required to complete viability testing only at time of initial deposit of patent material. Patent deposits are made available on behalf of the Depositor when the pertinent U.S. or international patent is issued, but material may not be used to infringe the patent claims.
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

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

Type of DNA: genomic
Insert information:
DESCRIPTION OF INSERT COMPONENT:
Genomic copy number: unique
Insert 5' end: SmaI
Insert 3' end: EcoRI
Cross references:
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): 14.0
Vector name: pA9
Type of vector: plasmid
Host range: *Escherichia coli*
Vector end: SmaI; EcoRI
Cloning sites: SmaI; EcoRI
Enhancer: MMTV LTR
Markers: ampR
Promoters: MMTV LTR

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--4.5, 4.2, 2.5, 2.0, 0.45; PvuII--5.8, 4.0, 1.75, 1.35, 0.54; EcoRI--14.0; HindIII--7.8, 4.4, 1.15, 0.72; BamHI--9.0, 2.4, 2.0, 1.2; BamHI+HindIII--4.4, 3.8, 2.4, 1.2 (doublet), 0.8; ClaI--9.0, 5.6. This clone is incorrectly cited in U.S. Patent 4,736,866 as ATCC 39746.
- ATCC staff

Constructed by ligating a SmaI/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 1.0 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). There is more than one SmaI site within the myc gene. 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-Sma myc (ATCC 39745)

References

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

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