



# pHG4.5

## 79003™

Product Sheet

### Description

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

**Clone type:** Clone

**Shipping information:** Rehydrate with TE

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### Storage Conditions

**Product format:** Freeze-dried

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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):** 4.5

**Type of DNA:** genomic

**Insert source:** chronic myeloid leukemia

**Insert tissue:** chronic myeloid leukemia

**Insert information:**

DESCRIPTION OF INSERT COMPONENT:

beta-1,2-N-acetylglucosaminyltransferase

Insert 5' end:

Insert 3' end:

Cross references: DNA Seq. Acc.: M61829

**Genome:** Homo sapiens

**Chromosome:** 5

5

**Gene name:** mannosyl (alpha-1,3-)-glycoprotein

**Gene product:** mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase [MGAT]

**Gene symbol:** MGAT1; GLYT1; MGAT

**Contains complete coding sequence:** Yes

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## Vector Information

**Construct size (kb):** 7.199999809265137

**Intact vector size:** 3.000

**Vector name:** pGEM-5Zf(+)

**Type of vector:** phagemid

**Vector end:** NcoI; Sall

**Markers:** ampR

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## Notes

Restriction digests of the clone give the following sizes (kb): NcoI/SalI--4.5, 3.0; EcoRI--7.5; PstI--4.25, 2.25, 0.9; SacI--4.4, 1.95, 0.65, 0.4; SmaI--7.5.

- ATCC staff

The insert contains the following restriction sites (kb from the 5' end):

BglI--3.03; BglII--3.1; EcoRI--4.33; PstI--2.2, 2.4, 3.23, 3.28; PvuII--3.21, 3.28, 4.17; SacI--2.43, 2.58, 3.0; SmaI--2.33.

- GenBank/EMBL/DDBJ

The SP6 promoter is adjacent to the 5' end of the insert.

- personal communication

Contains a complete exon 2 (2.5 kb) plus upstream and downstream sequences. Exon 2 contains most of the 5' untranslated region, the complete coding sequence (nt 2182-3519 of the sequence record) and the complete 3' untranslated region.

- Biochem. Biophys. Res. Commun. 176: 608-615, 1991

An 0.8 kb PstI fragment of the insert hybridizes to the following fragments of human genomic DNA (kb): EcoRI--4.7; HindIII--7.2; BamHI--10.4; BglII--4.0; StyI--1.3. Detects a 9.0 kb EcoRI fragment of hamster genomic DNA.

- Biochem. Biophys. Res. Commun. 176: 608-615, 1991

Derived from pHG15 which was constructed by inserting a SalI fragment from an lambdaEMBL3 library into pGEM-5Z. pHG4.5 is a circularized NcoI fragment from pHG15, and thus retains lambdaEMBL3 sequences from SalI to the 5' end of the insert.

- Biochem. Biophys. Res. Commun. 176: 608-615, 1991

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## Material Citation

If use of this material results in a scientific publication, please cite the material in the

following manner: pHG4.5 (ATCC 79003)

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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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## Revision

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## Contact Information

## pHG4.5

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Product Sheet

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