

Product datasheet for MR225689L4

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

B4galt5 (NM_019835) Mouse Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: B4galt5 (NM_019835) Mouse Tagged Lenti ORF Clone

Tag: mGFP Symbol: B4galt5

Synonyms: 9430078I07Rik; AW049941; AW539721

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Sgfl-Mlul

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(MR225689).

Sequence:

Restriction Sites: Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_019835

ORF Size: 1164 bp



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OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: NM 019835.2, NP 062809.2

2 H3

 RefSeq Size:
 4205 bp

 RefSeq ORF:
 1167 bp

 Locus ID:
 56336

 UniProt ID:
 Q9|MK0

Cytogenetics:

Gene Summary: Catalyzes the synthesis of lactosylceramide (LacCer) via the transfer of galactose from UDP-

galactose to glucosylceramide (GlcCer) (PubMed:21057870, PubMed:23882130,

PubMed:30114188). LacCer is the starting point in the biosynthesis of all gangliosides

(membrane-bound glycosphingolipids) which play pivotal roles in the CNS including neuronal

maturation and axonal and myelin formation (PubMed:30114188). Plays a role in the

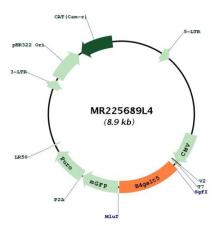
glycosylation of BMPR1A and regulation of its protein stability (PubMed:29415997). Essential

for extraembryonic development during early embryogenesis (PubMed:20574042,

PubMed:21057870).[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MR225689L4