

### Product datasheet for RC202452L3

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## GM2A (NM\_000405) Human Tagged Lenti ORF Clone

#### **Product data:**

**Product Type: Expression Plasmids** 

**Product Name:** GM2A (NM\_000405) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: GM2A

GM2-AP; SAP-3 Synonyms:

**Mammalian Cell** Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

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

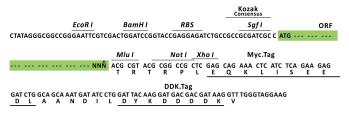
The ORF insert of this clone is exactly the same as(RC202452). **ORF Nucleotide** 

Sequence:

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF.

ACCN: NM\_000405

**ORF Size:** 579 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:** <u>NM 000405.3</u>

 RefSeq Size:
 3690 bp

 RefSeq ORF:
 582 bp

 Locus ID:
 2760

 UniProt ID:
 P17900

 Cytogenetics:
 5q33.1

Domains: ML

**Protein Families:** Druggable Genome

Protein Pathways: Lysosome MW: 20.8 kDa

**Gene Summary:** This gene encodes a small glycolipid transport protein which acts as a substrate specific co-

factor for the lysosomal enzyme beta-hexosaminidase A. Beta-hexosaminidase A, together with GM2 ganglioside activator, catalyzes the degradation of the ganglioside GM2, and other molecules containing terminal N-acetyl hexosamines. Mutations in this gene result in GM2-gangliosidosis type AB or the AB variant of Tay-Sachs disease. Alternative splicing results in

multiple transcript variants. [provided by RefSeq, Nov 2009]