

## Product datasheet for **MC212623**

### **A3galt2 (NM\_001009819) Mouse Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** A3galt2 (NM\_001009819) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** A3galt2  
**Synonyms:** Gm433; iGb3; iGb3S  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC212623 representing NM\_001009819  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTCTGGGGACAGAGTTGGGAGTGAGCTGGCCAGGGTCACATGGAAGTTGCCGAGAACAAGAAGGAC  
AGAGACAAAGAGGCCAGGGAAGCCAACCTGGGGACTTTCACGGGCCAAGAAGAGACTCCTGTGGCGGTT  
CTTCCTGTCTGCATTTGGTTTCTTAGGCCTGTACCATTACAGGTTTCATTATTATCAGGCTCATAGAAGGC  
TCCATCCCATGGGCACCTGCCCTACAGCCATAATGCCTCTGCCGAGGGACAATTCACAGGAGTACTGC  
ACCACTGGGCCCCGGCCTGAAGTCCTGACCTGTACCTCTTGGGGAGCACCAATTATTTGGGATGGCACTTT  
CGACCCTCATGTAGCCCAGCAAGAGGCGGAGACGGCGGAACCTCACCATCGGGCTGACTGTGTTTGTCTGTA  
GGCAGGTACCTGGAGAAGTACCTGGAACACTTCTGGTATCGGCAGAGCAGCACTTCATGGTCGGCCAGA  
ACGTGGTGTACTATGTGTTTACGGATCGCCCGAAGCAGTGCCCTATGTGGCTCTAGGCCAGGGTCGCCT  
GCTGCGGGCAAACCCGTGCAGCGAGAGAGGGCGCTGGCAGGACGTGTCCATGGCACGCATGCCACGCTA  
CACGAGGCTCTGGGAGGGCAGCTGGGCCAAGAAGCTGACTTTGTGTTCTGCCTGGACGTGGACCACTACT  
TCACCGTAACCTCGGGCCTGAGGTGCTGGCAGATTTGGTGGCACAGCTGCACGCCTGGCACTACCGCTG  
GCCGCGGTGGCTGCTGCCCTACGAGAGGGACAAGCGATCGGCTGCTGCGCTGTCGTTAAGCGAAGGCGAT  
TTCTACTACCACGCTGCGGTGTTTGGCGCAGTGTGGCTGCACTGCTCAAGCTGACGGCCCACTGTGCGA  
CTGGCCAAACAGCTGGACCATAAGCGCGGCATTGAGGCACTCTGGCACGACGAAAGCCACCTTAACAAGTT  
CTTCTGGCTGAACAAGCCACCAAGCTGCTGTCGCTGAGTTCTGCTGGGAGAGGAAATATCTGGAGG  
AGAGAGATCCATCACCCACGCTGCTCTGGCACCAAGGAATATACGCTGGTGGCAACTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001009819



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<b>Insert Size:</b>	1113 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001009819.2</a></u> , <u><a href="#">NP_001009819.1</a></u>
<b>RefSeq Size:</b>	3390 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	215493
<b>UniProt ID:</b>	<u><a href="#">Q3V1N9</a></u>
<b>Cytogenetics:</b>	4 D2.2
<b>Gene Summary:</b>	Synthesizes the galactose-alpha(1,3)-galactose group on the glycosphingolipid isoglobotrihexosylceramide or isogloboside 3 (iGb3) by catalyzing the transfer of galactose from UDP-Galactose to its acceptor molecule Gal-beta-1,4-Glc-ceramide. Can also catalyze the addition of galactose to iGb3 itself to form polygalactose structures. Synthesis of iGb3 is the initial step in the formation of the isoglobo-series glycolipid pathway and is the precursor to isogloboside 4 (iGb4) and isoForssman glycolipids. Can glycosylate only lipids and not proteins and is solely responsible for initiating the synthesis of isoglobo-series glycosphingolipids.[UniProtKB/Swiss-Prot Function]