

Product datasheet for MR223563

A3galt2 (NM_001009819) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A3galt2 (NM_001009819) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	A3galt2
Synonyms:	Gm433; iGb3; iGb3S
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223563 representing NM_001009819 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTGGGGACAGAGTTGGGAGTGAGCTGGCCAGGGTCACATGGAAGTTGCCGAGAACAAGAAGGAC
AGAGACAAAGAGGCCAGGGAAGCCAACCTGGGGACTTTCACGGGCCAAGAAGAGACTCCTGTGGCGGTT
CTTCTGTCTGCATTTGGTTTCTTAGGCCTGTACCATTACAGGTTTCATTATTATCAGGCTCATAGAAGGC
TCCATCCCATGGGCACCTGCCCTACAGCCATAATGCCTCTGCCGAGGACAATTTACAGGAGTACTGC
ACCACTGGGCCCGCCTGAAGTCTGACCTGTACCTCTTGGGAGCACCAATTTGGGATGGCACTTT
CGACCCTCATGTAGCCCAGCAAGAGGCGAGACGGCGGAACCTCACCATCGGGCTGACTGTGTTTGTCTGTA
GGCAGGTACCTGGAGAAGTACCTGGAACACTTCTGGTATCGGCAGAGCAGCACTTCATGGTCGGCCAGA
ACGTGGTGTACTATGTGTTTACGGATCGCCCGAAGCAGTGCCCTATGTGGCTCTAGGCCAGGGTCGCT
GCTGCGGGCAAACCCGTGCAGCGAGAGAGGGCGCTGGCAGGACGTGCCATGGCACGCATGCCACGCTA
CACGAGGCTCTGGGAGGGCAGCTGGCCAAGAAGCTGACTTTGTGTTCTGCCTGGACGTGGACCAGTACT
TCACCGGTAACCTCGGGCCTGAGGTGCTGGCAGATTTGGTGGCACAGCTGCACGCTGGCACTACCGCTG
GCCCGGTGGCTGCTGCCCTACGAGAGGGACAAGCGATCGGCTGCTGCGTGTGTTAAGCGAAGGCGAT
TTCTACTACCAGCTGCGGTGTTTGGCGGCAAGTGGCTGCACTGCTCAAGCTGACGGCCACTGTGCCA
CTGGCCAACAGCTGGACCATAAGCGCGGATTGAGGCACCTGGCACGACGAAAGCCACCTTAACAAGTT
CTTCTGGCTGAACAAGCCACCAAGCTGCTGTCGCTGAGTTCTGCTGGGACAGGAAATATCTGGAGG
AGAGAGATCCATCACCCACGCTGCTCTGGCACCCAAGGAATATACGCTGGTGGCAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR223563 representing NM_001009819
Red=Cloning site Green=Tags(s)

MALGTELGVSWPVSHGSCREQEQRQRGPGKPTWGLSRAKKRLLWRFFLSAFGFLGLYHYRFIIIRLIEG
 SIPMGTCPTAIMPLPRDNFTGVLHHWARPEVLTCTSWGAPIIWDGTFDPHVAQQEARRRNLTIGLTVFAV
 GRYLEKYLEHFLVSAEQHFVVGQNVVYVFTDRPEAVPYVALGQGRLLRAKPVQRERRWQDVSMARMPTL
 HEALGGQLGQEAADFVFCLDVDQYFTGNFGPEVLADLVAQLHAWHYRWRPWLPLYERDKRSAAALSLSEGD
 FYYHAAVFGGSVAALLKLTAHCATGQQLDHRGIEALWHDESHLNKFFWLNKPTKLLSPEFCWAEIIWR
 REIHPRLWAPKEYTLVRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9019_c11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001009819

ORF Size: 1110 bp

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_001009819.2](#), [NP_001009819.1](#)

RefSeq Size: 3390 bp

RefSeq ORF: 1113 bp

Locus ID: 215493

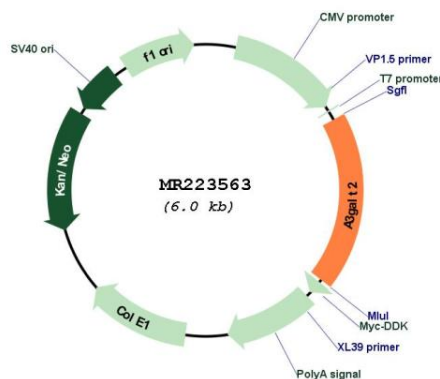
UniProt ID: [Q3V1N9](#)

Cytogenetics: 4 D2.2

MW: 43.1 kDa

Gene Summary: 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]

Product images:



Circular map for MR223563