

Product datasheet for MR205759

Ggta1 (BC006810) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ggta1 (BC006810) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ggta1
Synonyms:	GALT, Gal, alpha3GalT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205759 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCACTATGCTTCAAGATCTCCATGTCAACAAGATCTCCATGTCAAGATCCAAGTCAGAAACAAGTC
TTCCATCCTCAAGATCTGGATCAGGAGAGAAAATAATGAATGTCAAGGAAAAGTAATCCTGTTGATGCT
GATTGTCTCAACCGTGGTTGTCGTGTTTGGGAATATGTCAACAGGACCCACAGTTATCAAGAAGACAAC
GTAGAAGGACGGAGAGAAAAGGGTAGAAATGGAGATCGCATTGAAGAGCCTCAGCTATGGGACTGGTTCA
ATCCAAAGAACC GCCCGATGTTTTGACAGTGACCCCGTGAAGGCGCCGATTGTGTGGGAAGGCACTTA
TGACACAGCTCTGCTGGAAAAGTACTACGCCACACAGAACTCACTGTGGGGCTGACAGTGTGCTGTG
GGAAAGTACATTGAGCATTACTTAGAAGACTTTCTGGAGTCTGCTGACATGTACTTCATGTTGGCCATC
GGGTCAATTTTACGTCA TGATAGACGACACCTCCCGGATGCCTGCTGTCACCTGAACCTCTACATTC
CTTACAAGTCTTTGAGATCAGGTCTGAGAAGAGGTGGCAGGATATCAGCATGATGCGCATGAAGACCATT
GGGGAGCACATCCTGGCCACATCCAGCACGAGGTCGACTTCTCTTCTGCATGGACGTGGATCAAGTCT
TTCAAGACAACCTCGGGGTGGAACTCTGGGCCAGCTGGTAGCACAGTCCAGGCCTGGTGGTACAAGGC
CAGTCCCGAGAAGTTCACCTATGAGAGGCGGGAAGTGTGCGCCGCGTACATTCCATTGAGAGGGGGAT
TTTTACTACCACGCGGCCATTTTGGAGGAACGCCTACTCACATTCTCAACCTCACCAGGGAGTGCTTTA
AGGGGATCCTCCAGGACAAGAAACATGACATAGAAGCCAGTGGCATGATGAGAGCCACCTCAACAAATA
CTTCCTTTTCAACAAACCACTAAAATCCTATCTCCAGAGTATTGCTGGGACTATCAGATAGGCCTGCCT
TCAGATATTAAAAGTGTCAAGGTAGCTTGGCAGACAAAAGAGTATAATTTGGTTAGAAATAATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR205759 protein sequence
Red=Cloning site Green=Tags(s)

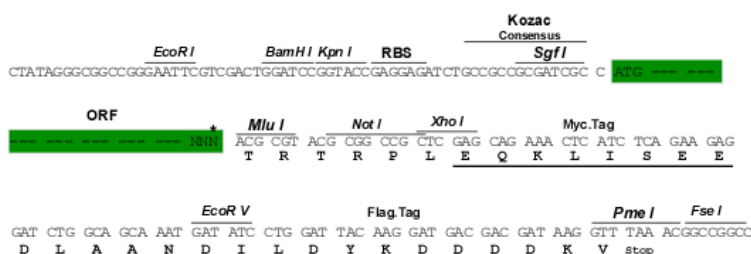
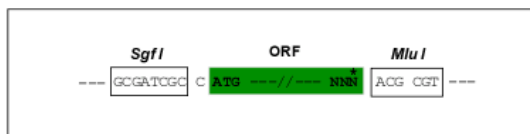
MITMLQDLHVNKISMSRSKSETSLPSSRSGSQEIKMNVKGKVVILLMLIVSTVVVVFWFYVNRTHSYQEDN
VEGRREKGRNGDRIEEPQLWDFNPNKRPDVLVTVPWKAPIVWEGTYDTALLEKYATQKLTVGLTVFAV
GKYIEHYLEDFLSADMYFMVGHVRIFYVMIDDTSRMPVVHLNPLHSLQVFEIRSEKRWQDISMRRMKT
GEHILAHIQHEVDFLFCMDVDQVFQDNFVGETLGLQVAQLQAWWYKASPEKFTYERRELSAAYIPFGEGD
FYHAAIFGGTPTHILNLTRDCFGKILQDKKHDIEAQWHDSEHLNKYFLFNKPTKILSPEYCWQDYIGLP
SDIYSKVVAWOTKEYNLVRNNV

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC006810

ORF Size: 1116 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC006810](#), [AAH06810](#)

RefSeq Size: 3315 bp

RefSeq ORF: 1118 bp

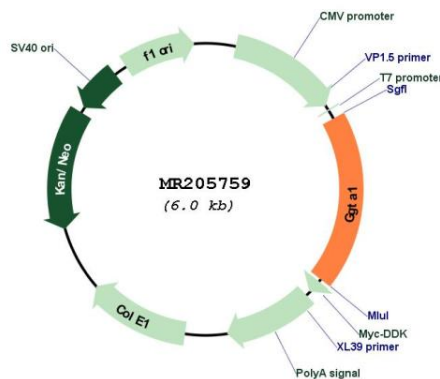
Locus ID: 14594

Cytogenetics: 2 23.6 cM

MW: 43.7 kDa

Gene Summary: This gene encodes a member of the galactosyltransferase family of intracellular, membrane-bound enzymes that are involved in the biosynthesis of glycoproteins and glycolipids. The encoded protein catalyzes the transfer of galactose from UDP-galactose to N-acetylglucosamine in an alpha(1,3) linkage to form galactose alpha(1,3)-galactose. Mice lacking the encoded protein develop cortical cataracts. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2015]

Product images:



Circular map for MR205759