

Product datasheet for MR217727

A4galt (NM_001004150) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | A4galt (NM_001004150) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | A4galt |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR217727 representing NM_001004150 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCATCTCCTGTTCCCATCTGGAGGAGACCATGTCCAAGCCCCCGACTGCCTGCTGCGGATGCTCA
GGGGCACCCCCAGACAGCGGGTCTTCACCTTCTTCATCATCAGCTTCAAGTTCATGTTCTTGATCTCCAT
CCTGATCTACTGGCACACTGTGGGTGCACCCAAGGACCAAGAGAGTATAGCCTGCCAGTAGACTTCTCC
TGCCCCAGCTGGCCTTTCCTAGAGTCTCTGCCCCAGGCAACATCTTCTCCTAGAGACATCGGACAGGA
CCAGTCCCAACTTCTATTTATGTGTTCTGTGGAATCAGCTGCCAGGGCACACCCTGAATCCCAGGTGGT
TGTGCTGATGAAAGGGCTGCCTAGGGACACCACAGCTCAGCCCCGGAACCTCGGCATCTCTCTTCTGAGC
TGTTTTCTAATGTCTGGATACGACCTCTGGACTTGCAAGAAGTGTGAGGACACACCACTGGCAGCCT
GGTACTCGGAGGCACGGCACAGATGGGAGCCCTACCAGTTGCCGTAAGTCTGATGCTTCCAGGATCGC
ACTCCTCTGGAAGTTTGGTGGGATCTACCTGGACACAGACTTCATCGTCTCAAGAACCTGCTCAACCTG
ACCAACACGCTGGGCATCCAATCCCCTATGCTCTCAACGGTGCCTTCTAGCCTTCGAGCGCAAGCATG
AGTTCTTGGCACTGTGTCTACATGACTTCGTGGCCAACAATGTTGGATTGGGGTACCAGGGCCC
CCAAGTCTTACCGAGTCTTCAAGAAGTGGTGTCCATCAAAGCCTGAAAAGAGCCATGCTTCCGT
GGGGTCACTGCCCTGCCCCCCGAGGCCTTCTACCCCATCCCCTGGCAGAAGTGAAGAAATACTTTGAAG
ACATCAGCCCCGAGGAGCTGACCAGCTGCTCAATGCCACCTATGCTGTTTCATGTGTGGAACAAGAAAAG
TCAGGGTACACACCTAGAGGCCACATCCAAGGCTCTGCTGGCCCAGCTACATGCCCGCTATTGCCCTACG
ACACATAGAGCCATGAAGATGTACTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217727 representing NM_001004150
Red=Cloning site Green=Tags(s)

MGISCSHLEETMSKPPDCLLRMLRGTPRQRVFTFFIISFKFMFLISILYWHYVWGAPKDQREYSLPVDFS
 CPQLAFPRVSAPGNIFFLETSDRTSPNFLMCSVESAAARHPESQVVLMKGLPRDTTAQPRNLGISLLS
 CFPNVWIRPLDLQELFEDTPLAAWYSEARHRWEPYQLPVLSDASRIALLWKFGGIYLDTFIVLKNLLNL
 TNTLGIQSRVYLVNGAFLAFERKHEFLALCLHDFVANYNGWIWGHQGPQLLTRVFKKWCISIQSLEKSHACR
 GVTALPPEAFYPIPWQNWKKYFEDI SPEELTQLLNATYAVHVWNKKSQGTHLEATSKALLAQLHARYCPT
 THRAMKMYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9028_g03.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001004150

ORF Size: 1077 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_001004150.3](#), [NP_001004150.1](#)

RefSeq Size: 2105 bp

RefSeq ORF: 1047 bp

Locus ID: 239559

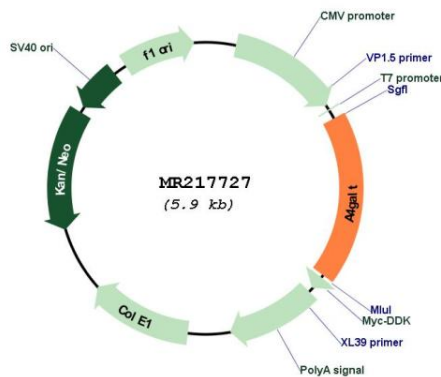
UniProt ID: [Q67BJ4](#)

Cytogenetics: 15 E1

MW: 41.8 kDa

Gene Summary: The protein encoded by this gene catalyzes the transfer of galactose to lactosylceramide to form globotriaosylceramide, which has been identified as the P(k) antigen of the P blood group system. The encoded protein, which is a type II membrane protein found in the Golgi, is also required for the synthesis of the bacterial verotoxins receptor. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2010]

Product images:



Circular map for MR217727