

Product datasheet for **MG218807**

A4galt (NM_001170954) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	A4galt (NM_001170954) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	A4galt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218807 representing NM_001170954 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCATCTCCTGTTCCCATCTGGAGGAGACCATGTCCAAGCCCCCGACTGCCTGCTGCGGATGCTCA
GGGGCACCCCCAGACAGCGGGTCTTCACCTTCTTCATCATCAGCTTCAAGTTCATGTTCTTGATCTCCAT
CCTGATCTACTGGCAGACTGTGGGTGCACCCAAGGACCAAGAGAGATAGCCTGCCAGTAGACTTCTCC
TGCCCCAGCTGGCCTTTCCTAGAGTCTCTGCCAGGCAACATCTTCTCCTAGAGACATCGGACAGGA
CCAGTCCCACTTTCTATTTATGTGTTCTGTGGAATCAGCTGCCAGGGCACACCCTGAATCCCAGGTGGT
TGTGCTGATGAAAGGGCTGCCTAGGGACACCACAGCTCAGCCCCGGAACCTCGGCATCTCTCTTCTGAGC
TGTTTTCTAATGTCTGGATACGACCTCTGGACTTGCAAGAAGTGTGAGGACACACCACTGGCAGCCT
GGTACTCGGAGGCACGGCACAGATGGGAGCCCTACCAGTTGCCGTAAGTCTGATGCTTCCAGGATCGC
ACTCCTCTGGAAGTTTGGTGGGATCTACCTGGACACAGACTTCATCGTCTCAAGAACCTGCTCAACCTG
ACCAACACGCTGGGCATCCAATCCCCTATGTCCTCAACGGTGCCTTCTAGCCTTCGAGCGCAAGCATG
AGTTCTTGGCACTGTGTCTACATGACTTCGTGGCCAACAATGTTGGATTGGGGTACCAGGGCCC
CCAAGTCTTACCGAGTCTTCAAGAAGTGGTGTCCATCAAAGCCTGAAAAGAGCCATGCTTCCGT
GGGGTCACTGCCCTGCCCGGAGGCCTTCAACCCATCCCCTGGCAGAACTGGAAGAAATACTTTGAAG
ACATCAGCCCCGAGGAGCTGACCAGCTGCTCAATGCCACCTATGCTGTTTCATGTGTGGAACAAGAAAAG
TCAGGGTACACACCTAGAGGCCACATCCAAGGCTCTGCTGGCCAGCTACATGCCCGCTATTGCCCTACG
ACACATAGAGCCATGAAGATGTACTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218807 representing NM_001170954
Red=Cloning site Green=Tags(s)

MGISCSHLEETMSKPPDCLLRMLRGTQRVFTFFIISFKFMFLISILYWHYVTVGAPKDQREYSLPVDFS
 CPQLAFPRVSAPGNIFFLETSVRTSPNLFMCSVESAAAHAPESQVVLMKGLPRDTTAQPRNLGISLLS
 CFPNVWIRPLDLQELFEDTPLAAWYSEARHRWEPYQLPVLSDASRIALLWKFGGIYLDTFIVLKNLLNL
 TNTLGIQSRYVLNGAFLAFERKHEFLALCLHDFVANYNGWIWGHQGPQLLTRVFKKWCISIQSLEKSHACR
 GVTALPPEAFYPIPWQNWKKYFEDISPEELTQLLNATYAVHVWNKKSQGTHLEATSKALLAQLHARYCPT
 THRAMKMYL

TRTRPLE - GFP Tag - V

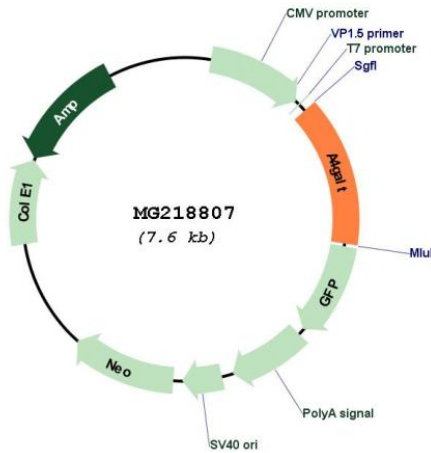
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001170954

ORF Size:	1077 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001170954.1 , NP_001164425.1
RefSeq Size:	2145 bp
RefSeq ORF:	1047 bp
Locus ID:	239559
UniProt ID:	Q67BJ4
Cytogenetics:	15 E1
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]