

## Product datasheet for **MG217727**

### A4galt (NM\_001004150) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** A4galt (NM\_001004150) 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:** >MG217727 representing NM\_001004150  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCATCTCCTGTTCCCATCTGGAGGAGACCATGTCCAAGCCCCCGACTGCCTGCTGCGGATGCTCA  
GGGGCACCCCCAGACAGCGGGTCTTCACCTTCTTCATCATCAGCTTCAAGTTCATGTTCTTGATCTCCAT  
CCTGATCTACTGGCACACTGTGGGTGCACCCAAGGACCAAGAGAGATATAGCCTGCCAGTAGACTTCTCC  
TGCCCCAGCTGGCCTTTCCTAGAGTCTCTGCCAGGCAACATCTTCTCCTAGAGACATCGGACAGGA  
CCAGTCCCAACTTCTATTTATGTGTTCTGTGGAATCAGCTGCCAGGGCACACCCTGAATCCCAGGTGGT  
TGTGCTGATGAAAGGGCTGCCTAGGGACACCACAGCTCAGCCCCGGAACCTCGGCATCTCTCTTCTGAGC  
TGTTTTCTAATGTCTGGATACGACCTCTGGACTTGCAAGAAGTGTGAGGACACACCACTGGCAGCCT  
GGTACTCGGAGGCACGGCACAGATGGGAGCCCTACCAGTTGCCCGTACTGTCTGATGCTTCCAGGATCGC  
ACTCCTCTGGAAGTTTGGTGGGATCTACCTGGACACAGACTTCATCGTCCTCAAGAACCTGCTCAACCTG  
ACCAACACGCTGGGCATCCAATCCCCTATGTCCTCAACGGTGCCTTCTAGCCTTCGAGCGCAAGCATG  
AGTTCTTGGCACTGTGTCTACATGACTTCGTGGCCAACAATGTTGGATTGGGGTACCAGGGCCC  
CCAAGTCTTACCCGAGTCTTCAAGAAGTGGTGTCCATCAAAGCCTGAAAAGAGCCATGCTTCCGT  
GGGGTCACTGCCCTGCCCCCCGAGGCCTTCTACCCATCCCCTGGCAGAAGTGAAGAAATACTTTGAAG  
ACATCAGCCCCGAGGAGCTGACCAGCTGCTCAATGCCACCTATGCTGTTTCATGTGTGGAACAAGAAAAG  
TCAGGGTACACACCTAGAGGCCACATCCAAGGCTCTGCTGGCCCAGCTACATGCCCGCTATTGCCCTACG  
ACACATAGAGCCATGAAGATGTACTTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG217727 representing NM\_001004150  
 Red=Cloning site Green=Tags(s)

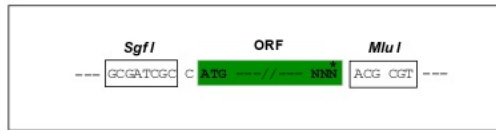
MGISCSHLEETMSKPPDCLLRMLRGTQRVFTFFIISFKFMFLISILYWHYVTVGAPKDQREYSLPVDFS  
 CPQLAFPRVSAPGNIFFLETSDRTSPNFLMCSVESAAAHAPESQVVVLMKGLPRDTTAQPRNLGISLLS  
 CFPNVWIRPLDLQELFEDTPLAAWYSEARHRWEPYQLPVLSDASRIALLWKFGGIYLDTFIVLKNLLNL  
 TNTLGIQSRYVLNGAFLAFERKHEFLALCLHDFVANYNGWIWGHQGPQLLTRVFKKWCISIQSLEKSHACR  
 GVTALPPEAFYPIPWQNWKKYFEDISPEELTQLLNATYAVHVWNKKSQGTHLEATSKALLAQLHARYCPT  
 THRAMKMYL

TRTRPLE - GFP Tag - V

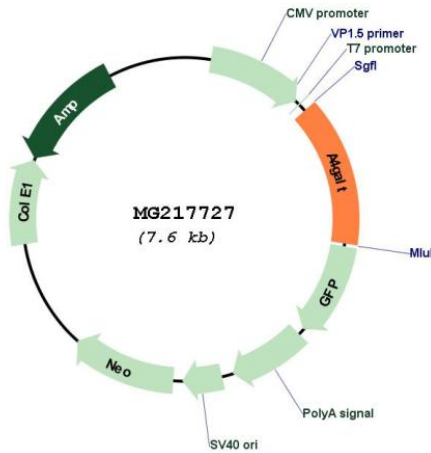
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001004150

<b>ORF Size:</b>	1077 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001004150.3</a> , <a href="#">NP_001004150.1</a>
<b>RefSeq Size:</b>	2105 bp
<b>RefSeq ORF:</b>	1047 bp
<b>Locus ID:</b>	239559
<b>UniProt ID:</b>	<a href="#">Q67BJ4</a>
<b>Cytogenetics:</b>	15 E1
<b>Gene Summary:</b>	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]