

Product datasheet for **MG215139**

A4gnt (NM_001077424) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: A4gnt (NM_001077424) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: A4gnt
Synonyms: alph; Alpha4gnt; AV080780; Gm798
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG215139 representing NM_001077424
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGAAGGAAATTTATCTCTCCCTGTCCCTGGTCTGGTGTTCCTGTGGCCTGCTGTACCAGCTCA
 CCATGAGGTCTCAGTGCTTCTTTGCCTGCCTGCCTCCTTTCTCATTCCACAGGGACTGGACGGCCTCCT
 GAGGAGTGGACGAAGCATCATGTTTATAGAGACCTCTGAAAGGGTGGAGCCACCTCCGATGGTCTCCTGT
 GCTGTGGAGTCTGCTGCTAAAATCTATCCTGAGCAGCCCATCATCTTCTCATGAAAGGACTCAGGGACT
 CCGTACAGCTGACTTCAAATACCAGTACCCAGCCTTCTCCCTCCTCTCGGCCATTAATAATGTTTTCTT
 TGTGCCTTTGGACATGGAAAGACTGTTCAAAGACACACCTTGTTCGTTGACACAAAAGTCAACAGC
 AGTACAGAGAAACACTGGCTCCACGTACGCTCCGACGCAGCCCGCTGGCCATCATCTGGAAGTACGGAG
 GCATCTACATGGACACTGACGTCACTCCCTTCAGCCCATCCCTGAGGAGAACTTCTGGCAGCCAGGG
 CTCCCGACACTCCAGTAACGGGGTATTTGGGTTCTCCCCACCACCCCTTCTGTGGCCCTGCATGGAG
 AACTTTGTAGAGCACTATGACTCAACATTTGGGGCAACCAAGTCCCGAGTTGATGACAAGGATGTTAC
 GGGTGTGGTGTGCTTTAAAGACTTCCACGGGTGGGTGACCTGAAGTGTGTAATTTCTTTCTTCA
 TCCCCAGAGATTTACCCCATCCCTTATCCACAGTGAAGCGCTACTACCAAGTGTGGGACAAAGAGCCC
 AGCTTCAATGAGTCTACGCACTGCATTTGTGGAATATGAATAAAGAGGGCAAGACTGTGGTTAGAG
 GAAGCAAACTCTGGTGGAAAATCTCTATCAAAAGCACTGTCTAAGACTTATAGGGTTCTGATTC AAGG
 TGCAGAAGGGACAGTGTCCAAGAAGCCAGGCACAGGTTCCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG215139 representing NM_001077424
 Red=Cloning site Green=Tags(s)

MLKEIYLSLSLVLFACGLLYQLTMRSQCFACLPFFSFPQGLDGLLRSGRSIMFIETSERVEPPPMVSC
 AVESAAKIYPEQPIIFFMKGLRDSVQLTSNTSYPAFSLLSAINNVFFVPLDMERLFKDTPLFSWYTKVNS
 STEKHHLHVSSDAARLAIWIKYGGIYMDTDVISLQPIPEENFLAAQSRHSSNGVFGFLPHHPFLWACME
 NFVEHYDSTIWGNQGPQLMTRMLRVWCRCLKDFHGLGDLKCLNISFLHPQRFYPIYPYQWKRYQVVDKEP
 SFNESYALHLWNYMKNKEGKTVVRGSKTLVENLYQKHCPKTYRVLIQGAEGTVSKKPGTGSR

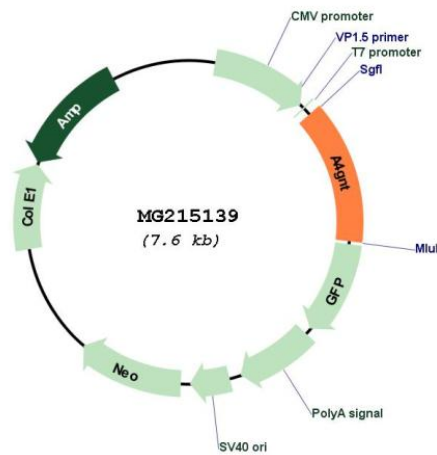
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001077424

ORF Size: 1023 bp

OTI Disclaimer:	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.
	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:	<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_001077424.2 , NP_001070892.1
RefSeq Size:	2757 bp
RefSeq ORF:	1026 bp
Locus ID:	333424
UniProt ID:	Q14BT6
Cytogenetics:	9 E3.3
Gene Summary:	This gene encodes a protein from the glycosyltransferase 32 family. The encoded enzyme catalyzes the transfer of N-acetylglucosamine to alpha-1,4-linked beta-galactose residues. This enzyme is required for type III mucin synthesis and it is largely associated with the Golgi apparatus membrane. The encoded protein appears to be expressed in adenocarcinoma cells of pancreatic, biliary tract and gastric cancers.[provided by RefSeq, Jan 2010]