

Product datasheet for **MG209097**

Pomgnt2 (NM_153540) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pomgnt2 (NM_153540) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pomgnt2
Synonyms:	Ago61; C85492; Gtdc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209097 representing NM_153540
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCACCTCTCTGCCGTATTCAACGCCCTCCTGGTATCAGTGCTGGCTGCGGTCCTGTGGAAGCATGTT
 GGTTGCGGGAGCATGCGGCCACGCTAGAGGAGGAGCTGGCCCTTGACAGCAGTCCCTGGATCCAGTCCT
 AGGACTGAAGATCGACTACCCGAAGGCCCTGCAGATCCTCATGGAGGGCGGCACCCACATGGTGTGCACA
 GGCCGCACCCACACGACCGCATCTGCCGCTTCAAGTGGCTCTGCTACTCCAATGAGGCCGAAGAATTCA
 TCTTTTCCATGGCAACTCATCTGTGATGCTGCCAACCTGGGCTCCCGCGCTTCCAGCCGGCCCTGCT
 GGACCTGTCCACTGTGGAGGACCATAATGCCAGTACTTCAACTTCGTGGAGCTGCCGCTGCAGCCCTG
 CGCTTCATGCCAAAGCCAGTGTTCTGCTGATGTAGCCCTCATCGCAACCGCTTCAACCCGATAACC
 TCATGCACGTCTTTCATGATGACCTGCTCCACTCTTCTACACACTGAGGCAGTTCCTCCGCGCTGGCCCA
 AGAGGCCCGGCTCTTTTTCATGGAGGGATGGGGTGGGCTGGCCACTTTGACCTCTATAAACTCCTCAGC
 CCCAAGCAGCCGCTTCTACGTGCACAGCTCAAGACACTGGGCCGACTGCTCTGCTTTTCCATGCTTTG
 TGGCCTGTCCAAGGTTACCACTGGTACCAATACGGCTTTGTACAGCCCGAGGCCCAAGGCCAAT
 CCTGGTCTCTGGCAATGAGATCCGGCAGTTCACGCGCTTCATGACTGAAAGGCTGAACGTGAGCCACGCG
 GGGGCGCCCTGGGGGAGGAATACATTCGGTCTTCAGTCGCACCCAGAACAGACTCATCCTGAACGAGG
 CAGAGCTGTTGCTGGAGCTGGCACAAGAGTTCAGATGAAGACGGTTACAGTGTCCCTGGAGGACCACAC
 CTTTGTGATGTCGTGCGGCTGGTCAGCAATGCCTCCATGTTGGTCAGCATGCATGGGGCCAGCTGGTT
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 ACACCCCTATAAGACGCTGGCCACACTGCCTGGCATGGACCTGCAGTATGTAGCCTGGCGAAACATGAT
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 GAGCAGGCCCGTATCCTGCAGAGCCGAGAGGTCCCCCGGCATCTCTGTTGCCGGAACCCAGAGTGCTAT
 TCCGAATCTACCAGGACACCAGGTGGACATCCCATCCCTATGCAATCCATTCGCGGTGTGGTGAAGGG
 CCGGCCGGGGCCACGAGGCAGAGGTGGCAATCAGCCTGTACCCGGGCAAGGTGCGGGAGGCTCGATGT
 CAGGCGTCAGTGCAGGTGCCACCGAGGCCCGCTGTCTGTCTTGGCAGATCCCGTGGAACTCAAGT
 ACCTGAAAGTGAGGGAGGTGAAATACGAGGTGTGGCTGCAGGAGCAAGGGGAGAACAGTATGTGCCTTA
 CATGCTGACCCTGCAGAACACACCTTCACAGAGAACATCAAACCTTTTACCACCTACCTGGTGTGGGTC
 CGCTGTATATTTAACAGGAGCCTCCTGGGACCTTTTGCAGATGTGCTGGTGTGCAGCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209097 representing NM_153540
 Red=Cloning site Green=Tags(s)

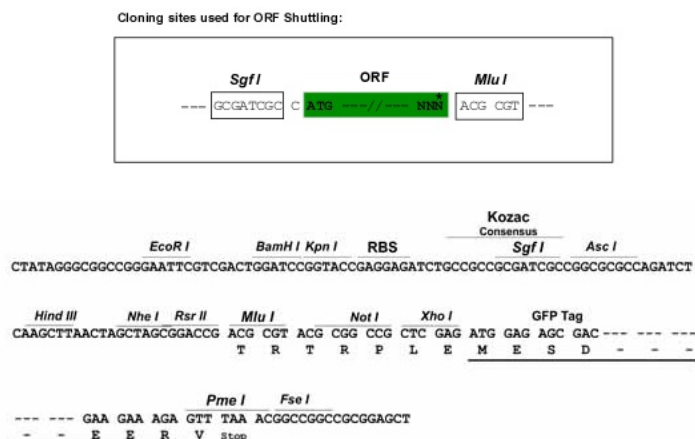
MHLSAVFNALLVSVLA AVLWKHVR LREHAATLEEELALGQQSLDPVLGLKIDYPKALQILMEGGTHMVCT
 GRTHTDRI CRFKWLCYSNEAE EIFFHGNSSV MPNLGSRRFPALLDLSTVEDHNAQYFNFVELPAAAL
 RFMPKPVFVPDVALIANRFNPDNL MHVFHDDLPLFYTLRQFPGLAQEARLFFMEGWEGEAFDLYKLLS
 PKQPLLRAQLKTLGRLLCFSHAFVGLSKVTTWYQYGFVQPQGPKANILVSGNEIRQFTRFMTERLNVSHA
 GAPLGEEYILVFSRTQNRILNEAELLLELAQEFQMKTVTVSLEDHTFADVRLVSNASMLVSMHGAQLV
 TALFLPRGATVVELFPYAVNPDHYTPYKTLATLPGMDLQYVAWRNMIRENTVTHPERPWDQGGITHLDRA
 EQARILQSREVPRLCCRNPEWLFRIYQDTRVDIPSLMQSIRR VVKGRPGRRQRWAI SLYPGVREARC
 QASVQGATEARLSYSWQIPWNLKYLKVREVKYEVWLQE QGENTYVPYMLTLQNHFTENIKPFTTYLVWV
 RCIFNRSL LGGPFADVLVLCST

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM 153540

ORF Size: 1740 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: NM 153540.4, NP 705768.4

RefSeq Size: 2369 bp

RefSeq ORF: 1743 bp

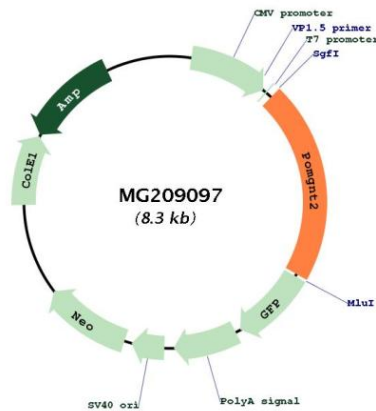
Locus ID: 215494

UniProt ID: [Q8BW41](#)

Cytogenetics: 9 F4

Gene Summary: O-linked mannose beta-1,4-N-acetylglucosaminyltransferase that transfers UDP-N-acetyl-D-glucosamine to the 4-position of the mannose to generate N-acetyl-D-glucosamine-beta-1,4-O-D-mannosylprotein (By similarity). Involved in the biosynthesis of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6-)mannose), a carbohydrate structure present in alpha-dystroglycan (DAG1), which is required for binding laminin G-like domain-containing extracellular proteins with high affinity (PubMed:24256719).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209097