

Product datasheet for **MG209398**

Alg9 (NM_133981) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg9 (NM_133981) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Alg9
Synonyms:	8230402H15Rik; A1747665; B430313H07Rik; Dibd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209398 representing NM_133981
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGAGCCGAAGGGCCCGCAGCGCCTCAAGGGTGGCGGGCGGTGGCGGGCGGTGGGGATGCGG
 GCCCGGGCGGAGAAAGCTGGAACAGCTCGGCAGCCGGAGGCAGGCGCAGAGCCCGGCCAGAGTCTGG
 AAATAAAGCAGGGCAAGTCTGGGCCCTGAAGGATCCACTGCTTTCAAGTGTCTGCTCTCAGCGAGTTG
 TGCGCAGCCCTTCTGAGCAACATCTCGGACTGTGATGAAACATTCAACTACTGGGAACCAACACTACC
 TCATCTACGGGAAGGATTCCAGACATGGGAATTTCCCCCGTGTATGCCATCCGCTCATATGCTTACCT
 GCTGCTGCACGCCTGGCCAGCTGCATTTTCATGCACGGATTCTGCAGACTAACAAGATTCTTGTATTCTAC
 TTTTTGAGATGTCTCCTGGCTTTTGTGAGCTGTGTTTGTGAACCTTACTTTTATAAGGCTGTGTGAAGA
 AGTTTGGGCTGCATGTGAGTGAATGATGCTGGCCTTCTGGTGTCTCAGCAGGGCATGTTCTGCTCATC
 ATCTGCATTCCTCCCAGCAGCTTCTGCATGTACACCACGCTGATCGCCATGACGGGATGGTATATGGAC
 AAGACACCCATTGCTGTGCTGGGAGTAGCAGCTGGTGCCATCTTAGGGTGGCCGTTTAGTGCAGCTCTTG
 GTTACCACATCGCCTTCGACTTGTGGCCAGGAAGCACAGGTGGAAGAGTTTTCTCTCTGGTCCCTGGT
 GGCCCTGGCTCTCTTCTTGGTGGCCGTGGTGGTATTGACAGCTACTATTACGGGAAGTTGGTGGTTGCC
 CCTCTCAACATTGTTTTGTATAACGCTTTTACGCTCATGGACCTGATCTTTATGGTACAGAACCATGGT
 ATTTCTATTTAATCAATGGATTTCTGAACCTCAATGTTGCCTTTGCTTTGGCTCTTCTGGTTTTGCCACT
 GACTTTCCCTTATGGAGTACCTGCTGCAGAGTTCCATGTTTCAAGATTTAGGACACCCGATTGGCTGACC
 TTGGCGCAATGTATATTTGGTTTATAATTTTCTCATCCAGCCTCATAAAGAAGAGCGCTTTCTCTTCC
 CAGTCTATCCGCTCATATGCCTCTGTGGTGTCTGTTGCTTTTCTGCACCTCAGAAATGCTACCACCTTGT
 GTTTCAACGATACCGCCTGGAGCATTACACGGTGACGTCCAAGTGGCTGGCGCTGGGCACAGTTTTCTCTG
 TTTGGGCTCTTGTGCTTCTCCGCTCTGTGGCTCTGTTTCAAGGATACCGGGCCCTTGATTTATATC
 CAGAATTTTACAGAATTGCCACAGACCCAACTCCACTGTCCAGAAGGCAGGCCCGTGAACGTCTG
 TGTGGGAAAAGAGTGGTATCGATTTCCAGTAGCTTCTTCTGCCTGACAATTGGCAGCTTCAGTTCATT
 CCATCAGAGTTCAGAGGTCAGCTACCAAGCCTTTCGAGAGGGACCCTGGCCACCAGGACTGTTCCCA
 CTCACATGAACGACCAGAACCGAGAGGAGCCTTCCAGATACATTGACATCAGCAATGCCATTACTAGT
 GGATTTGGATACCATGAGAGAAACCTCGGGAGCCAACTACTCATCCACAGAGAAGAGTGGGTCAGC
 CTGGCTCAGACACATTCTGGATGCGTCTAGGCTTCCAAGTGTCTTGGGCATTCTATGTTCCCTTCC
 TGTCAGATCAGTACACGGTGTATGTGAACACACCATCCTGAAGCCTCGAAAGCAAAGCCGAGCAGGAA
 GAAAAGTGGAGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209398 representing NM_133981
 Red=Cloning site Green=Tags(s)

MASRRARQRLKGGGGGGGGDAGPAAEKLEQLGSREAGAEPREPESGNKAGQVWAPEGSTAFKCLLSARL
 CAALLSNISDCDETFNYWEPHTHYLYGKGFQWEYSPVYAIRSYAYLLLHAWPAAFHARILQTNKILVFI
 FLRCLLAFVSCVCELYFYKAVCKKFGFLHVSRRMLAFLVLSGMFCSSSAFLPSSFCEMYTTLIAMTGWYMD
 KTIPIAVLVAAGAILGWPFAALGLPIAFDILLARKHRWKSFLLSLVALALFLVPVVVIDSYYYYGLVVA
 PLNIVLYNVFTSHGPDLYGTEPWYFYLINGFLNFVAFALALLVLPLTFLMEYLLQRFHVQNLGHPYWL
 LAPMYIWFIIFFIQPHKEERFLFPVYPLICLGAVALSALQKCYHFVFQRYRLEHYTVTSNWLALGTVFL
 FGLLSFSSRSVALFRGYHGPLDLYPEFYRIATDPTIHTVPEGRPVNVCVGKEWYRFPSSFLLPDNWQLQFI
 PSEFRGQLPKPFAEGLATRTVPTMNDQREEPSRYIDISKCHYLVDLDTMRETPREPNYSSHREEWVS
 LAHRPFLDASRSSKLLRAFVYVPLSDQYTVVYNYTILKPRKAKPSRKKSGG

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_133981

ORF Size: 2790 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_133981.2](#), [NP_598742.1](#)

RefSeq Size: 2584 bp

RefSeq ORF: 1836 bp

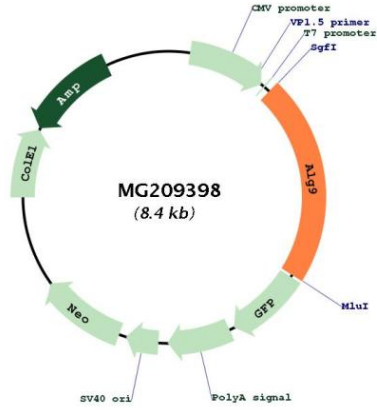
Locus ID: 102580

UniProt ID: [Q8VDI9](#)

Cytogenetics: 9 A5.3

Gene Summary: Catalyzes the transfer of mannose from Dol-P-Man to lipid-linked oligosaccharides. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209398