

Product datasheet for **MR216801**

Alg10b (NM_001033441) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg10b (NM_001033441) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alg10b
Synonyms:	AA469671; AU045404; AW123895; C85569; Deaf1; Gm917; nse5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216801 representing NM_001033441
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCAGCTGGAGGGCTATTACTTCTCGGCCGCTTGAGCTGCACCTCCTGGTGTCTGCTGCTCT
 TCTCCGCCTTCAGCCGCGCTCTCGGGAGCCGTACATGGACGAGATCTCCACCTGCCGAGGCGCAGCG
 GACTGCGAGGGCCGCTTCTCCCTGTGCGAGTGGGATCCTATGATCACTACATTACCTGGCCTGTATCTG
 GTGTGGTGGTGGTCAAACCTGCCAGCTGGCTCCTTGGATGGTCTGAGCATGTGATCTGCTCCATTG
 GGGTGCTCAGATTTGCAATCTTCTCTCAGCGTTGGCAACTTCTACTTGTCTGATTTGCTCTTCAGGAA
 GGTGCAACCCAGAAACAAGGCTTCTCAAGTATCCAGAGAATCTGTCAACATTAACCTAGCAGTGTTT
 CCAACCTCTATTTTTAACTTCTTTACTATACAGAAGCTGGGTCTGTATTCTCACTTTTTTGCTT
 ATTTGATGTGCTTTATGGCAACCATAGGACCTCGGCCTTGCTTGGATTTTGTGGTTTCATGTTTCGTC
 GACCAACATCATCTGGGCGGCCTTCTGTGACGACACCTCATTGCACAGAAGTGCAGTGAAGCCTGGAAG
 ATTGAGCTGCAGAAGAAGAAGGAGGAGAGGCTTGCGCCACGAAGGGACCCTCTCGGAGCTCAGAAGAG
 TGCTGCAGTTTCTGCTGGTGTACCCATGTCCCTAAAGAACCTGAGAATGCTCTTCTGTTGACCTGGCC
 CTACGTGCTTCTGCTGTTGGCGTCTTTGCCTTTGTTGAGTAAATGGTGGCATTGTTGTTGGTACCGG
 AGTAGTCACGAGGCGCTGTCTCCATTTCTCAGTTGTTCTATTTCTTCTCTTTACTGCCTTTTTCTCT
 TCCCTCACCTACTTTCTCTGACCAAAAGTCAAGACTTTCCCTAGCTTAGTTTGAAGCGTAGAGTCCAGTT
 CTCTGTGGTTACGTTAGTCTCGATACTTTTGGTTTGGAAATCACTTATGTCCATAAGTATTTACTGGCA
 GACAATAGGCATTACACATTTTATGTGTGAAAAGAGTATTTAGAGACATGAAGTTGTCAAATATTTAT
 TAGTCCAGCCTACATTTTTGCTGGTTGGCTATAGCTGACTTTTAAAGGCTAAGTCAATTTTCTGAA
 TTTAATGTTTTTTGTATGCTTGGTTGCTTCTACAGTTCCCTCAGAAACTACTAGAATTCGGTACTTCTCATT
 CTACCATACATTATTTATAGGCTTAACATACCTCTGCCACCCATATCTAGACTCGTTTGTGAAGTGGGT
 GCTATACAGTTGTTAATTTGTAAGTCTTTTATATCTTTCTGAACAAGACTTTTTCAGTGGCCAAATAGTCA
 GGACATCCAAAGGTTTATGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216801 representing NM_001033441
 Red=Cloning site Green=Tags(s)

MAQLEGYFSAALSCTFLVSCLLFSAFSRALREPYMDEIFHLPQAQRYCEGRFSLSQWDPMITTLPLGLYL
 VSVGVVKASWLLGWSEHVICSIGVLRVNLFFSVGNFYLLYLLFRKVQPRNKASSIQRILSTLTLAVF
 PTLYFFNFLYYTEAGSVFFTLFAYLMCLYGNHRTSALLGFCGFMFRQTNIIWA AFCAGHLIAQKCEAWK
 IELQKKKEERLAPTQGPLSELRRVLQFLLVYAMSLKNLRMLFLLWPYVLLLLAFFAFVVVNGGIVVGD
 SSHEACLHFPQLFYFFSFAFFSFPHLLSLTKVKTFLSLVWKRVRVSVVTLVSIILLVWKFTYVHKYLLA
 DNRHYTFYVWKRVFQRHEVVKYLVPAYIFAGWAIADSLKAKSIFWNLMMFFVCLVASTVVPQKLLLEFRYFI
 LPYIIYRLNIPLPISRVLVCELGCYTVVNFVTFYIFLNKTFQWPNSQDIQRFMW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9017_a07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001033441

ORF Size: 1422 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_001033441.3](#), [NP_001028613.1](#)
RefSeq Size: 3727 bp

RefSeq ORF: 1425 bp

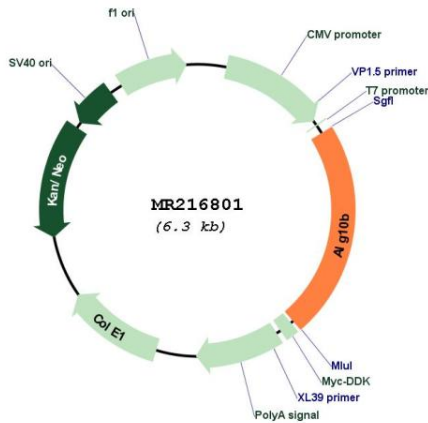
Locus ID: 380959

UniProt ID: [Q3UGP8](#)
Cytogenetics: 15 E3

MW: 55.9 kDa

Gene Summary: Putative alpha-1,2-glucosyltransferase, which adds the third glucose residue to the lipid-linked oligosaccharide precursor for N-linked glycosylation. Transfers glucose from dolichyl phosphate glucose (Dol-P-Glc) onto the lipid-linked oligosaccharide Glc(2)Man(9)GlcNAc(2)-PP-Dol (By similarity). When coupled to KCNH2 may reduce KCNH2 sensitivity to classic proarrhythmic drug blockade, possibly by mediating glycosylation of KCNH2 (By similarity). Has a role in maintenance of cochlear outer hair cell function (PubMed:24303013). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216801