

Product datasheet for **RC215330**

ALG10B (NM_001013620) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG10B (NM_001013620) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALG10B
Synonyms:	ALG10; KCR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC215330 representing NM_001013620
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCAGCTAGAGGGTTACTGTTTCTCGGCCGCTTGAGCTGTACCTTTTGTGTCCTGCCTCCTCT
 TCTCCGCCTTCAGCCGGGCGCTGCGAGAGCCCTACATGGACGAGATCTTCCACCTGCCTCAGGCGCAGCG
 CTAAGTGTGAGGGCCATTTCTCCCTTTCCAGTGGGATCCCATGATTACTACATTACCTGGCTTGTACCTG
 GTGTCAGTTGGAGTGGTCAAACCTGCCATTTGGATCTTTGGATGGTCTGAACATGTTGTCTGCTCCATTG
 GGATGCTCAGATTTGTTAATCTTCTCTTCACTGTTGGCACTTCTATTTACTATATTTGCTTTTCCACAA
 GGTACAACCCAGAAACAAGGCTGCCTCAAGTATCCAGAGAGTCTTGTCAACATTAACACTAGCAGTATTT
 CCAACACTTTATTTTTAACTTCCTTTATTATACAGAAGCAGGATCTATGTTTTTACTCTTTTGCAT
 ATTTGATGTGCTTTATGGAAATCATAAACTTCAGCCTTCTTGGATTTTGTGGCTTCATGTTTCGGCA
 AACAAATATCATCTGGGCTGTCTTCTGTGCAGGAATGTCATTGCACAAAAGTTAACTGAGGCTTGAAA
 ACTGAGCTACAAAAGAAGGAAGACAGACTTCCACCTATTAAGGACCATTTCAGAAATTCAGAAAATTC
 TTCAGTTTCTTTGGCTTATTCCATGTCCTTTAAAACTTGAGTATGCTTTTCTGTTGACTTGGCCCTA
 CATCCTTCTGGGATTTCTGTTTTGTGCTTTTGTAGTAGTAAATGGTGAATTGTTATTGGCGATCGGAGT
 AGTCATGAAGCCTGTCTTCAATTTCTCACTATTTCTACTTTTTTCACTTACTCTTTTTTCTTTTCT
 CTCATCTCCTGTCTCCTAGCAAAATTAAGACTTTTCTTCTTAGTTTGGAAACATGGAATTCTGTTTTT
 GGTGGTACCTTAGTCTCTGTGTTTTAGTTTGGAAATCACTTATGCTCATAAACTTGTCTAGCAGAC
 AATAGACATTACTTTCTATGTGTGAAAAGAGTTTTTCAAAGATATGCAATTCTGAAATTTTGGAAAT
 TTCCAGCCTATATTTGCTGGTTGGAGTATAGCTGACTCATTGAAATCAAAGCCAAATTTTGGAAAT
 AATGTTTTTTCATATGCTTGTTCATTGTTATAGTTCCTCAGAAACTGCTGGAATTCGTTACTTCAATTTA
 CCTTATGTCATTTATAGGCTTAACATAACTCTGCCTCCACATCCAGACTTGTGTTGAACTGAGTTGCT
 ATGCAATTGTTAATTTCAAACTTTTACATCTTCTGAACAAGACTTTTCACTGGCCAAATAGTCAGGA
 CATTCAAAGGTTTATGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215330 representing NM_001013620
 Red=Cloning site Green=Tags(s)

MAQLEGYCFSAALSCTFLVSCLLFSAFSRALREPYMDEIFHLPQAQRYCEGHFSLSQWDPMITTLPLGLYL
 VSVGVVKPAIWIIFGWSEHVCSIGMLRFVNLLFSVGNFYLLYLLFHKVQPRNKAASSIQRVLSTLTLAVF
 PTLYFFNFLYYTEAGSMFFTLFAYLMCLYGNHKTSAFLGFCGFMFRQTNIIWAVFCAGNVIAQKLTEAWK
 TELQKEDRLPPIKGPFAEFRKILQFLAYSMSFKNLSMLFCLTWPYILLGFLFCFVNVGGIVIGDRS
 SHEACLHFPQLFYFFSFTLFFSFPHLLSPSKIKTFLSLVWKHGILFLVVTLVSVFLVWKFTYAHKYLLAD
 NRHYTFYVWKRVFQRYAILKYLVPAYIFAGWSIADSLKSKPIFWNLMFFICLFIIVIPQKLLFRYFIL
 PVIYIURLNITLPPSRLVCELSCYAIVNFITFYIFLNKTFQWPNSQDIQRFMW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8004_f01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001013620

ORF Size: 1419 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_001013620.3](#), [NP_001013642.1](#)

RefSeq Size: 1623 bp

RefSeq ORF: 1422 bp

Locus ID: 144245

UniProt ID: [Q5I7T1](#)

Cytogenetics: 12q12

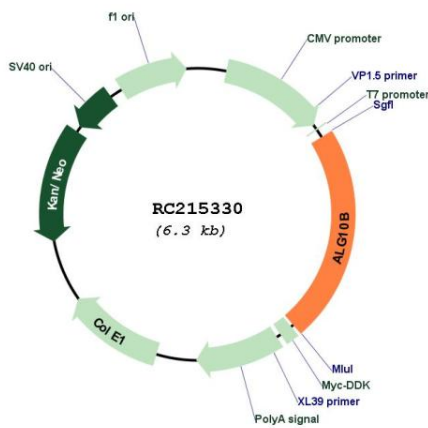
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

MW: 55.3 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 (PubMed:14525949). Has a role in maintenance of cochlear outer hair cell function (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC215330