

## Product datasheet for **RG215330**

### **ALG10B (NM\_001013620) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ALG10B (NM_001013620) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALG10B
Synonyms:	ALG10; KCR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG215330 representing NM\_001013620  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCAGCTAGAGGGTTACTGTTTCTCGGCCGCTTGAAGTGTACCTTTTGTGTCCTGCCTCTCT  
 TCTCCGCCTTCAGCCGGGCGCTGCGAGAGCCCTACATGGACGAGATCTTCCACCTGCCTCAGGCGCAGCG  
 CTAAGTGTGAGGGCCATTTCTCCCTTTCCAGTGGGATCCCATGATTACTACATTACCTGGCTTGTACCTG  
 GTGTCAGTTGGAGTGGTCAAACCTGCCATTTGGATCTTTGGATGGTCTGAACATGTTGTCTGCTCCATTG  
 GGATGCTCAGATTTGTTAATCTTCTCTTCAAGTGTGGCAACTTCTATTTACTATAATTTGCTTTTCCACAA  
 GGTACAACCCAGAAACAAGGCTGCCTCAAGTATCCAGAGAGTCTTGTCAACATTAACACTAGCAGTATTT  
 CCAACACTTTATTTTTTAACTTCCTTTATTATACAGAAGCAGGATCTATGTTTTTACTCTTTTGCAT  
 ATTTGATGTGCTTTATGGAAATCATAAACTTCAGCCTTCTTGGATTTTGTGGCTTCATGTTTCGGCA  
 AACAAATATCATCTGGGCTGTCTTCTGTGCAGGAATGTCATTGCACAAAAGTTAACTGAGGCTTGGAAA  
 ACTGAGCTACAAAAGAAGGAAGACAGACTTCCACCTATTAAGGACCATTTCAGAAATTCAGAAAATTC  
 TTCAGTTTCTTTGGCTTATTCCATGTCCTTTAAAACTTGAGTATGCTTTTCTGTTGACTTGGCCCTA  
 CATCCTTCTGGGATTTCTGTTTTGTGCTTTTGTAGTAGTTAATGGTGAATTGTTATTGGCGATCGGAGT  
 AGTCATGAAGCCTGTCTTCAATTTTCTCAACTATTCTACTTTTTTTCATTTACTCTCTTTTTTCTTTTC  
 CTCATCTCCTGTCTCCTAGCAAAATTAAGACTTTTCTTTCCTTAGTTTGGAAACATGGAATTCTGTTTTT  
 GGTGGTACCTTAGTCTCTGTGTTTTAGTTTGGAAATCACTTATGCTCATAAACTTGTCTAGCAGAC  
 AATAGACATTACTTTCTATGTGTGGAAAAGAGTTTTTCAAAGATATGCAATTCTGAAATATTTGTTAG  
 TTCCAGCCTATATTTGCTGGTTGGAGTATAGCTGACTCATTGAAATCAAAGCCAAATTTTGGAAATTT  
 AATGTTTTTTCATATGCTTGTTCATTGTTATAGTTCCTCAGAAACTGCTGGAATTTTCGTTACTTCAATTTA  
 CCTTATGTCATTTATAGGCTTAACATAACTCTGCCTCCACATCCAGACTTGTGTTGTAAGTGTGCT  
 ATGCAATTGTTAATTTCAACTTTTTACATCTTCTGAACAAGACTTTTTCAGTGGCCAAATAGTCAGGA  
 CATTCAAAGGTTTATGTGG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG215330 representing NM\_001013620  
 Red=Cloning site Green=Tags(s)

MAQLEGYCFSAALSCTFLVSCLLFSAFSRALREPYMDEIFHLPQAQRYCEGHFSLSQWDPMITTLPGLYL  
 VSVGKVPKAIWIFGWSEHVCSIGMLRFVNLFSVGNFYLLYLLFHKVQPRNKAASSIQRVLSTLTLAVF  
 PTLYFFNFLYYTEAGSMFFTLFAYLMCLYGNHKTSAFLGFCGFMFRQTNIIWAVFCAGNVIAQKLTEAWK  
 TELQKKEDRLPPIKGPFAEFRKILQFLAYSMSFKNLSMLFCLTWPYILLGFLFCFVAVVNGGIVIGDRS  
 SHEACLHFPQLFYFFSFTLFFSFPHLLSPSKIKTFLSLVWKHGILFLVTLVSVFLVWKFTYAHKYLLAD  
 NRHYTFYVWKRVFQRYAILKYLLVPAYIFAGWSIADSLKSKPIFWNLMFFICLFIIVVPQKLLLEFRYFIL  
 PVIYIRLNITLPPSRLVCELSYAIIVNFITFYIFLNKTFQWPNSQDIQRFMW

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001013620.3</a> , <a href="#">NP_001013642.1</a>
<b>RefSeq Size:</b>	1623 bp
<b>RefSeq ORF:</b>	1422 bp
<b>Locus ID:</b>	144245
<b>UniProt ID:</b>	<a href="#">Q5I7T1</a>
<b>Cytogenetics:</b>	12q12
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, N-Glycan biosynthesis
<b>Gene Summary:</b>	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]