

Product datasheet for **RC223859**

ALG10 (NM_032834) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG10 (NM_032834) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALG10
Synonyms:	ALG10A; DIE2; KCR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC223859 representing NM_032834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGCTGGAAGGTTACTATTTCTCGGCCGCTTGAGCTGTACCTTTTATGATCCTGCCTCCTCT
 TCTCCGCCTTCAGCCGGCGTTGCGAGAGCCCTACATGGACGAGATCTTCCACCTGCCTCAGGCGCAGCG
 CTA CTACTGTGAGGGCCATTTCTCCCTTTCCAGTGGGATCCCATGATTACTACATTACCTGGCTTGTACCTG
 GTGTCAATTGGAGTGATCAAACCTGCCATTTGGATCTTTGGATGGTCTGAACATGTTGTCTGCTCCATTG
 GGATGCTCAGATTTGTTAATCTTCTCTTCACTGTTGGCACTTCTATTTACTATAATTTGCTTTTCTGCAA
 GGTACAACCCAGAAACAAGGCTGCCTCAAGTATCCAGAGAGTCTTGTCAACATTAACACTAGCAGTATTT
 CCAACACTTTATTTTTTAACTTCCTTTATTATACAGAAGCAGGATCTATGTTTTTACTCTTTTTCGCT
 ATTTGATGTGCTTTATGGAAATCATAAACTTCAGCCTTCTTGGATTTTGTGGCTTCATGTTTCGGCA
 AACAAATATCATCTGGGCTGTCTTCTGTGCAGGAAATGTCATTGCACAAAAGTTAACGGAGGCTTGAAA
 ACTGAGCTACAAAAGAAGGAAGACAGACTTCCACCTATTAAGGACCATTTCGAGAATTCAGAAAAATTC
 TTCAGTTTCTTTTGGCTTATTCCATGTCCTTTAAAACTTGAGTATGCTTTTGTCTCTGACTTGGCCCTA
 CATCCTTCTGGGATTTCTGTTTTGTGCTTTTGTAGTAGTTAATGGTGAATTGTTATTGGCGATCGGAGT
 AGTCATGAAGCCTGTCTTCATTTTCTCACTATTTCTACTTTTTTTCATTTACTCTCTTTTTTCTTTTC
 CTCATCTCCTGTCTCCTAGCAAAATTAAGACTTTTCTTTCCTTAGTTTGGAAACGTAGAATTCTGTTTTT
 TGTGGTTACCTTAGTCTCTGTGTTTTAGTTTGGAAATCACTTATGCTCATAAACTTGTCTAGCAGAC
 AATAGACATTACTTTCTATGTGTGGAAAAGAGTTTTTCAAAGATATGAACTGTAATAATTTTGGATTAG
 TTCCAGCCTATATATTTGCTGGTTGGAGTATAGCTGACTCATTGAAATCAAAGTCAATTTTTTGGAAAT
 AATGTTTTTTCATATGCTTGTCTCACTGTTATAGTTCCTCAGAACTGCTGGAATTCGTTACTTCTATTTTA
 CCTTATGTCATTTATAGGCTTAACATACCTCTGCCTCCACATCCAGACTCATTGTGAAGTGAAGTCTGCT
 ATGCAGTTGTTAATTTCACTTTTTTCTCTTTCTGAACAAGACTTTTTCAGTGGCCAAATAGTCAGGA
 CATTCAAAGGTTTATGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223859 representing NM_032834
 Red=Cloning site Green=Tags(s)

MAQLEGYFSAALSCTFLVLSCLLFSAFSRALREPYMDEIFHLPQAQRYCEGHFSLSQWDPMITTLPLGLYL
 VSIGVIKPAIWIWSEHVVCSIGMLRFVNLFSVGNFYLLYLLFCKVQPRNKAASSIQRVLSTLTLAVF
 PTLYFFNFLYYTEAGSMFFTLFAYLMCLYGNHKTS AFLGFCGFMFRQTNIIWAVFCAGNVIAQKL TEAWK
 TELQKEDRLPPIKGPFAEFRKILQFLAYSMSFKNLSMLLLLTPYIILLGFLFCAFVVVNGGIVIGDRS
 SHEACLHFPQLFYFFSFTLFFSFPHLLSPSKIKTFLSLVWKRRILFFVVTLVSVFLVWKFTYAHKYLLAD
 NRHYTFYVWKRVFQRYETVKYLLVPAYIFAGWSIADSLKSKSIFWNLMFFICLFTVIVPQKLLFRYFIL
 PVIYIURLNIPLPPTSRLICELSCYAVVNFITFFIFLNKTFQWPNSQDIQRFMW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6335_h07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_032834

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_032834.4](#)
RefSeq Size: 3143 bp

RefSeq ORF: 1422 bp

Locus ID: 84920

UniProt ID: [Q5BKT4](#)
Cytogenetics: 12p11.1

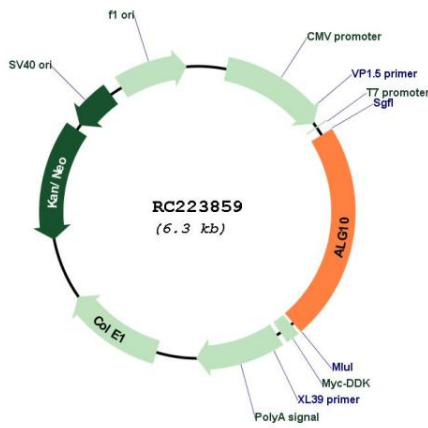
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

MW: 55.4 kDa

Gene Summary: This gene encodes a membrane-associated protein that adds the third glucose residue to the lipid-linked oligosaccharide precursor for N-linked glycosylation. That is, it transfers the terminal glucose from dolichyl phosphate glucose (Dol-P-Glc) onto the lipid-linked oligosaccharide Glc2Man9GlcNAc(2)-PP-Dol. The rat protein homolog was shown to specifically modulate the gating function of the rat neuronal ether-a-go-go (EAG) potassium ion channel. [provided by RefSeq, Jan 2010]

Product images:



Circular map for RC223859