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# Product datasheet for SC122410

## ALG10 (BC070347) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | ALG10 (BC070347) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | ALG10 |
| **Synonyms:** | alpha2-glucosyltransferase; asparagine-linked glycosylation 10 homolog (yeast, alpha-1,2-glucosyltransferase); asparagine-linked glycosylation 10, alpha-1,2-glucosyltransferase homolog (S. p; derepression of ITR1 expression 2 homolog; DIE2; FLJ14751; KCR1 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**Fully Sequenced ORF:**

>OriGene sequence for BC070347 edited
CCGCCTAGCGCGCCCATTTCGAGCCCAAGTTTCCAGCTCGGGTTTCCAGGCTCAGAATTT
TCCAGGAGTAGGTCCTTGGGCAGTGGCTGTGGGAGCTGGAATGGCGCAGCTGGAAGGTTA
CTATTTCTCGGCCGCCTTGAGCTGTACCTTTTTAGTATCCTGCCTCCTCTTCTCCGCCTT
CAGCCGGGCGTTGCGAGAGCCCTACATGGACGAGATCTTCCACCTGCCTCAGGCGCAGCG
CTACTGTGAGGGCCATTTCTCCCTTTCCCAGTGGGATCCCATGATTACTACATTACCTGG
CTTGTACCTGGTGTCAATTGGAGTGATCAAACCTGCCATTTGGATCTTTGGATGGTCTGA
ACATGTTGTCTGCTCCATTGGGATGCTCAGATTTGTTAATCTTCTCTTCAGTGTTGGCAA
CTTCTATTTACTATATTTGCTTTTCTGCAAGGTACAACCCAGAAACAAGGCTGCCTCAAG
TATCCAGAGAGTCTTGTCAACATTAACACTAGCAGTATTTCCAACACTTTATTTTTTTAA
CTTCCTTTATTATACAGAAGCAGGATCTATGTTTTTTACTCTTTTTGCGTATTTGATGTG
TCTTTATGGAAATCATAAAACTTCAGCCTTCCTTGGATTTTGTGGCTTCATGTTTCGGCA
AACAAATATCATCTGGGCTGTCTTCTGTGCAGGAAATGTCATTGCACAAAAGTTAACGGA
GGCTTGGAAAACTGAGCTACAAAAGAAGGAAGACAGACTTCCACCTATTAAAGGACCATT
TGCAGAATTCAGAAAAATTCTTCAGTTTCTTTTGGCTTATTCCATGTCCTTTAAAAACTT
GAGTATGCTTTTGCTTCTGACTTGGCCCTACATCCTTCTGGGATTTCTGTTTTGTGCTTT
TGTAGTAGTTAATGGTGGAATTGTTATTGGCGATCGGAGTAGTCATGAAGCCTGTCTTCA
TTTTCCTCAACTATTCTACTTTTTTTCATTTACTCTCTTTTTTTCCTTTCCTCATCTCCT
GTCTCCTAGCAAAATTAAGACTTTTCTTTCCTTAGTTTGGAAACGTAGAATTCTGTTTTT
TGTGGTTACCTTAGTCTCTGTGTTTTTAGTTTGGAAATTCACTTATGCTCATAAATACTT
GCTAGCAGACAATAGACATTATACTTTCTATGTGTGGAAAAGAGTTTTTCAAAGATATGA
AACTGTAAAATATTTGTTAGTTCCAGCCTATATATTTGCTGGTTGGAGTATAGCTGACTC
ATTGAAATCAAAGTCAATTTTTTGGAATTTAATGTTTTTCATATGCTTGTTCACTGTTAT
AGTTCCTCAGAAACTGCTGGAATTTCGTTACTTCATTTTACCTTATGTCATTTATAGGCT
TAACATACCTCTGCCTCCCACATCCAGACTCATTTGTGAACTGAGCTGCTATGCAGTTGT
TAATTTCATAACTTTTTTCATCTTTCTGAACAAGACTTTTCAGTGGCCAAATAGTCAGGA
CATTCAAAGGTTTATGTGGTAATATCAGTGATATTTCGAACTGTGAAAATGGACTTAATA
ATTAGACCATTTCTACAAAGAACAACTGAATAGGTGGAAAACATGGAATTTCTTTTAGGT
GCAGTGGTGGTCTTCAAATTACATTAGTTTTTTTTATATATATTTTAAACATATGTAAGA
AATTAAGTGGCAAAGAACTGAGAAAGCTTAAGACCTGCTTCAAAAGCCTGAAAAATGGAA
AAATAAAATTGTTTTCAGATATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for BC070347 unedited
NGGTTCAAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCAATCTGGTACCGGTCC
GGAATTCCCGGGATCCGCCTAGCGCGCCCATTTCGAGCCCAACTTTCCAGCTCGGGTTTC
CAGGCTCAGAATTTTCCAGGAGTAGGTCCTTGGGCAGTGGCTGTGGGAGCTGGAATGGCG
CAGCTGGAAGGTTACTATTTCTCGGCCGCCTTGAGCTGTACCTTTTTAGTATCCTGCCTC
CTCTTCTCCGCCTTCAGCCGGGCGTTGCGAGAGCCCTACATGGACGAGATCTTCCACCTG
CCTCAGGCGCAGCGCTACTGTGAGGGCCATTTCTCCCTTTCCCAGTGGGATCCCATGATT
ACTACATTACCTGGCTTGTACCTGGTGTCAATTGGAGTGATCAAACCTGCCATTTGGATC
TTTGGATGGTCTGAACATGTTGTCTGCTCCATTGGGATGCTCAGATTTGTTAATCTTCTC
TTCAGTGTTGGCAACTTCTATTTACTATATTTGCTTTTCTGCAAGGTACAACCCAGAAAC
AAGGCTGCCTCAAGTATCCAGAGAGTCTTGTCAACATTAACACTAGCAGTATTTCCAACA
CTTTATTTTTTTAACTTCCTTTATTATACAGAAGCAGGATCTATGTTTTTTACTCTTTGT
GCGTATTTGATGTGTCTTTATGGGAATCATANGACTTCAGCCTTCCTTGGATTATGTGGC
TTCATGTTTCGGCAAACAAATATCATCTGGGCTGTCTTCTGTGCANGANATGTCATTGCT
CNACAGTTAACGGGAGCTTGGAAAACTGAGCTACAAAGAAGGAGACAGACTTCACCTATT
ATAGACCATTGCAGAGTCAGAAAATTCGTCAGTTTCGTTTGGCCTATCCATGTCCTTTAA
AAACTGATATGCTTTTGCTT

**Restriction Sites:**

Please inquire

| | |
|---|---|
| **ACCN:** | BC070347 |
| **Insert Size:** | 1820 bp |
| **OTI Disclaimer:** | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | BC070347.1, AAH70347.1 |
| **RefSeq Size:** | 1794 bp |
| **RefSeq ORF:** | 1419 bp |
| **Locus ID:** | 84920 |
| **Cytogenetics:** | 12p11.1 |
| **Protein Families:** | Transmembrane |
| **Protein Pathways:** | Metabolic pathways, N-Glycan biosynthesis |
| **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] |