

## Product datasheet for **RC201511**

### **ALG6 (NM\_013339) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ALG6 (NM_013339) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALG6
Synonyms:	CDG1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC201511 representing NM\_013339  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGAATGGTACTTGATGACAGTAGTGGTTTTAATAGGACTAACAGTACGATGGACAGTGTCTCTTA  
 ATTCTTATTCAGGTGCTGGTAAACCGCCTATGTTTGGTATTATGAAGCTCAGAGACACTGGCAAGAAAT  
 AACTTTTAATTTACCGGTCAAACAATGGTATTTAACAGCAGTGATAACAATTTACAGTATTGGGGATTG  
 GATTACCCACCTTTACAGCTTATCATAGTCTCCTATGTGCATATGTGGCAAAGTTTATAAATCCAGACT  
 GGATTGCTCTCCATACATCACGTGGATGAGAGTCAGGCACATAAGCTCTTCATGCGTACAACAGTTTT  
 AATTGCTGATCTGCTGATTTACATACCTGCAGTGGTTTTGTACTGTTGTTGCTTAAAAGAAATCTCAACT  
 AAGAAAAAGATTGCTAATGCATTATGCATCTTGTGTATCCAGGCCTTATTCTTATAGACTATGGACATT  
 TTCAATAAATTCTGTGAGTCTTGGCTTGGCTTGTGGGGTGTCTTGAATATCTTGTGACTGCGACCT  
 CCTAGGGTCACTGGCATTGCTTAGCTATAAATTATAAACAGATGGAACCTTACCACGCCTTGCCATTT  
 TTTTGCTTTTACTTGGCAAGTGTAAAAAAGGCCTCAAAGGAAAGGGGTTTGTGTTGCTAGTTAAGC  
 TAGCTTGTATTGTTGTGGCTTCTTCGTTCTGCTGGCTGCCATTCTTTACAGAAAGGGAACAAACCT  
 GCAGGTTCTAAGAAGACTCTCCCGTTGATCGTGGATTATTTGAGGATAAAGTAGCCAATATTTGGTGC  
 AGCTTCAATGCTTTCTGAAGATTAAGGATATTTGCCACGTCACATCCAATTAATAAGAGCTTTTGT  
 CTACGTTTTGAGCCTGCTTCTGCATGCATAAAATAACTTCAGCCCTTCCAAAGGATTCAAATT  
 TACACTGGTTAGCTGTGCGCTATCATTCTTTTATTTCTTCCAAGTACATGAAAAATCCATTCTTTG  
 GTGCTACTACCAGTCTGCTTAGTTTAAAGTAAATTCCTTTATGTCTACTTGGTTTTACTTGTGTCAA  
 CATTATGATGCTACCTCTTCTATTGAAGGATGAACCTCAATGCCCTCTGTTGTGACAACAATGGCATT  
 TTTTATAGCTTGTGTAACCTCTTTTCAATATTTGAAAAGACTTCTGAAGAAGAAGTGCAGTTGAAATCC  
 TTTTCCATTTCTGTGAGGAAATATCTTCCATGTTTACATTTCTTCCAGAATTATAAATATTTGTTTC  
 TTATCTCAGTCATCACTATGGTCTTCTGACGTTGATGACTGTCACACTGGATCCTCCTCAGAACTACC  
 GGACTTGTCTTCTGTATTGGTGTGTTTGTATCTTGTGTAACCTCTGTTCTTCTTGGTATACTTTAAC  
 ATTATTATTATGTGGATTCCAAAAGTGAAGAAATCAGAAGAAATCAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC201511 representing NM\_013339  
 Red=Cloning site Green=Tags(s)

MEKWYLMTVVVLIGLTVRWTVSLNSYSGAGKPPMFGDYEQRHWQEIFNLPVKQWYFNSSDNNLQYWGL  
 DYPPLTAYHSLLCAYVAKFINPDWIALHTSRGYESQAHKLFMRRTVLIADLLIYIPAVVLYCCCLKEIST  
 KKKIANALCILLYPGLILIDYGHFQYNSVSLGFALWVGLISCDCLLGLSLAFCLAINYQMELYHALPF  
 FCFLLGKCFKKGLKGGFVLLVKLACIVVASFVLCWLPFFTEREQTLQVLRRLFPVDRGLFEDKVANIWC  
 SFNVFLKIKDILPRHIQLIMSF CSTFLSLLPACIKLILQPSSKGFKFTLVSCALSFFLFSFQVHEKSILL  
 VSLPVCLVLEIPFMSTWFLLVSTF SMLPLLLKDELLMPSVVTMAFFIACVTSFSIFEKTEEELQLKS  
 FSISVRKYLPCFTFLSRIIQYFLISVITMVLLTLMVTLDPPQKLPDLF SVLVCFVSCLNLFLLVYFN  
 IIMWDSKSGRNQKKIS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8120\\_f09.zip](https://cdn.origene.com/chromatograms/mk8120_f09.zip)

**Restriction Sites:**

SgfI-MluI

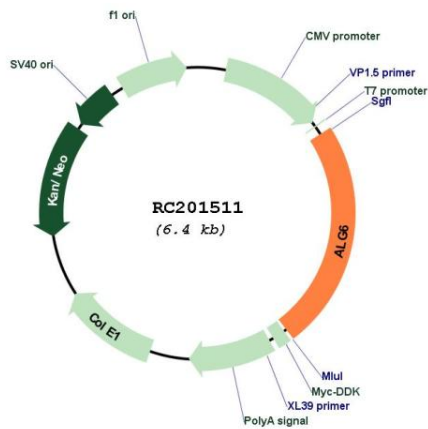
## Cloning Scheme:



ACCN:	NM_013339
ORF Size:	1521 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. <a href="#">More info</a>
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:	<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>
RefSeq:	<a href="#">NM_013339.4</a>
RefSeq Size:	3371 bp
RefSeq ORF:	1524 bp
Locus ID:	29929
UniProt ID:	<a href="#">Q9Y672</a>
Cytogenetics:	1p31.3

**Domains:** Alg6\_Alg8  
**Protein Families:** Druggable Genome, Transmembrane  
**Protein Pathways:** Metabolic pathways, N-Glycan biosynthesis  
**MW:** 58.6 kDa  
**Gene Summary:** This gene encodes a member of the ALG6/ALG8 glucosyltransferase family. The encoded protein catalyzes the addition of the first glucose residue to the growing lipid-linked oligosaccharide precursor of N-linked glycosylation. Mutations in this gene are associated with congenital disorders of glycosylation type Ic. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RC201511