

Product datasheet for **RG201511**

ALG6 (NM_013339) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG6 (NM_013339) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALG6
Synonyms:	CDG1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201511 representing NM_013339
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGAATGGTACTTGATGACAGTAGTGGTTTTAATAGGACTAACAGTACGATGGACAGTGTCTCTTA
 ATTCTTATTCAGGTGCTGGTAAACCGCCTATGTTTGGTGATTATGAAGCTCAGAGACACTGGCAAGAAAT
 AACTTTTAATTTACCGGTCAAACAATGGTATTTAACAGCAGTGATAACAATTTACAGTATTGGGGATTG
 GATTACCCACCTTTACAGCTTATCATAGTCTCCTATGTGCATATGTGGCAAAGTTTATAAATCCAGACT
 GGATTGCTCTCCATACATCACGTGGATGAGAGTCAGGCACATAAGCTCTTCATGCGTACAACAGTTTT
 AATTGCTGATCTGCTGATTTACATACCTGCAGTGGTTTTGTACTGTTGTTGCTTAAAAGAAATCTCAACT
 AAGAAAAAGATTGCTAATGCATTATGCATCTTGTGTATCCAGGCCTTATTCTTATAGACTATGGACATT
 TTCAATAAATTCTGTGAGTCTGGCTTTGCTTTGTGGGGTGTCTTGAATATCTTGTGACTGCGACCT
 CCTAGGGTCACTGGCATTGCTTAGCTATAAATTATAAACAGATGGAACCTTACCAGCCTTGCCATTT
 TTTTGCTTTTACTTGGCAAGTGTAAAAAAGGCCTCAAAGGAAAGGGGTTTGTGTTGCTAGTTAAGC
 TAGCTTGTATTGTTGTGGCTTCCTCGTCTCTGCTGGCTGCCATTCTTTACAGAAAGGGAACAAACCT
 GCAGGTTCTAAGAAGACTCTCCCGTTGATCGTGATTATTTGAGGATAAAGTAGCCAATATTTGGTGC
 AGCTTCAATGCTTTCTGAAGATTAAGGATATTTGCCACGTCACATCCAATTAATAAGACTTTTGT
 TTACGTTTTGAGCCTGCTTCTGCATGCATAAATAAATACTTCAGCCCTTCCAAAGGATTCAAATT
 TACACTGGTTAGCTGTGCGCTATCATTCTTTTATTTCTTTCCAAGTACATGAAAAATCCATTCTTTG
 GTGCTACTACCAGTCTGCTTAGTTTAAAGTAAATTCCTTTATGTCTACTTGGTTTTACTTGTGTCAA
 CATTTAGTACCTCTTCTATTGAAGGATGAACCTCAATGCCCTCTGTTGTGACAACAATGGCATT
 TTTTATAGCTTGTGTAACCTCTTTTCAATATTTGAAAAGACTTCTGAAGAAGAAGTGCAGTTGAAATCC
 TTTTCCATTTCTGTGAGGAAATATCTCCATGTTTACATTTCTTTCCAGAATTATAAATATTTGTTTC
 TTATCTCAGTCATCACTATGGTCTTCTGACGTTGATGACTGTCACACTGGATCCTCCTCAGAACTACC
 GGACTTGTCTTCTGTATTGGTGTGTTTGTATCTTGTCTGAACCTCCTGTTCTTCTTGGTATACTTTAAC
 ATTATTATTATGTGGATTCCAAAAGTGAAGAAATCAGAAGAAATCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201511 representing NM_013339
 Red=Cloning site Green=Tags(s)

MEKWYLMTVVVLIGLTVRWTVSLNSYSGAGKPPMFGDYEQRHWQEITFNLVVKQWYFNSSDNNLQYWGL
 DYPPLTAYHSLLCAYVAKFINPDWIALHTSRGYESQAHKLFMRRTVLIADLLIYIPAVVLYCCCLKEIST
 KKKIANALCILLYPLGILIDYGHFYQNSVSLGFALWGVLGISDCDLLGSLAFCLAINYQMELYHALPF
 FCFLLGKCFKGLKGGFVLLVKLACIVVASFVLCWLPFFTEREQTLQVLRRLFPVDRGLFEDKVANIWC
 SFNVFLKIKDILPRHIQLIMSFCFTFLSLLPACIKLILQPSSKGFKFTLVSCALSFLLFSFQVHEKSILL
 VSLPVCLVLEIPFMSTWFLVSTFMSLPLLLKDELLMPSVVTMAFFIACVTSFSIFEKTSSEELQLKS
 FISISVRKYLPCFTFLSRIIQYFLISVITMVLLTMTVTLDPQKLPDLFVSVLVCFVSLNFFLFLVYFN
 IIMWDSKSGRNQKKIS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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. [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_013339.1](#)

RefSeq Size: 3371 bp

RefSeq ORF: 1524 bp

Locus ID: 29929

UniProt ID: [Q9Y672](#)

Cytogenetics: 1p31.3

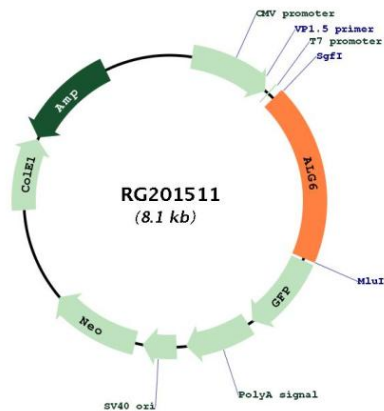
Domains: Alg6_Alg8

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

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 RG201511