

Product datasheet for **RG218890**

ALG11 (NM_001004127) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG11 (NM_001004127) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALG11
Synonyms:	CDG1P; GT8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218890 representing NM_001004127
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGCCGCGAAAGGAGCTGGTGCCTGTGCAAGTTGTTGAGGTTTTTTTATTATTCTTCCCTG
 GGCTCATTGTATGTGGAACCTTATGTGTGTTGGTTCATTGTCCTTTGGGGAATCAGACTGCTGCTACA
 GAGAAAGAAAAATTAGTGTCAACTAGCAGAAATGGGAAAAATCAAATGGTGATTGCATTTTTTCATCCA
 TACTGCAATGCTGGTGGAGGAGAGAAAGATTTTATGGTGTGCTTAAAGAGCCCTGCAGAAAAAGTATC
 CTGAAGCAGTTTATGTTGTTTATACCGCGATGTTAATGTCAACGGTCAACAGATACTAGAAGGTGCTTT
 CAGAAGATTTAACATCAGATTAATCACCCAGTGCAGTTGTTTTTTAAGGAAACGCTATCTTGTGGAA
 GATTCAGTGTATCCTCACTTCACTGCTGGGCCAAAGTCTAGGATCCATTTTTCTTGGCTGGGAAGCTC
 TAATGCAGTGTTCCTGATGTTACATTGATTCAATGGGATACGCTTTTACGCTTCTCTGTTAAGTA
 TATAGGGGTTGCCAAGTTGGAAGCTATGTTTATTCTACTATCAGCACCGACATGCTCTCTGTAGTG
 AAGAATCAAATATTGGATTTAATAATGCAGCCTTCATTACCAGGAATCCTTTTCTCAGCAAAGTAAAGC
 TCATCTACTACTATTTATTTGCTTTTATTATGGACTTGTGGTTCTTGCAGTGTAGTGCATGGTCAA
 TTCTTCTTGGACACTAAACCATATTCTCTCACTATGGAAGTTGGGAATTGCACTAACATTGTTTATCCA
 CCTTGTGATGTGCAGACATTTCTGGACATTCCTTACATGAGAAAAAGATGACCCAGGACATTTGCTGG
 TTTCTGTTGGCCAGTTTAGGCCGAAAAGAAATCATCCATTGCAGATCAGAGCCTTTGCTAAATTGCTGAA
 TAAGAAGATGGTTGAGTCACTCCTTCGCTTAACTTGCCTCATTGGAGTTGTCGTAACAAAGATGAT
 GAACCTAGGGTAAACCACTGAGAAGGCTGTCTGAGGATTTAGGAGTTCAAGAATATGTGGAATTTAAAA
 TAAACATTCATTTGATGAATTAAGAATTTATTTGCTGAAGCAACAATTGGTCTGCATACCATGTTGAA
 CGAGCATTTTGGGATTGGAGTTGTGGAGTGTATGGCAGCTGGCACAATTATCCTTGCACACAATTCGGGG
 GGCCCAAAGCTTGACATTGTGATTCTCACGAAGGAGATATAACTGGCTTTCTGGCTGAGAGTGAAGAAG
 ACTATGCTGAAACTATCGCTCACATTCTTCCATGTCTGCAGAAAAGAGACTCCAATCAGAAAAAGTGC
 TCGTGCATCTGTAAGCAGATTCTCTGATCAGGAATTTGAAGTGACATTCTATCATCTGTGGAAAAGTTA
 TTTAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

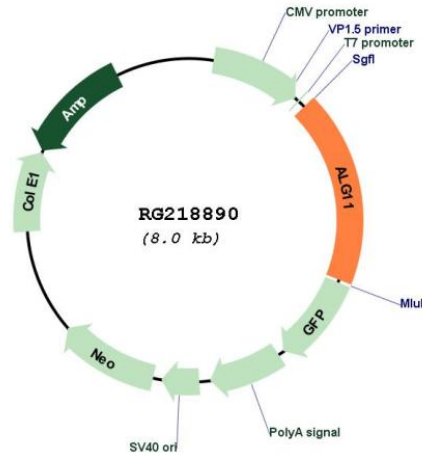
>RG218890 representing NM_001004127
 Red=Cloning site Green=Tags(s)

MAAGERSWCLCKLLRFFYSLFFPGLIVCGTLCVCLVIVLWGIIRLLLQRKKLVSTSRNGKNQMVIAFFHP
 YCNAGGGGERVLWCALRALQKKYPEAVYVVYTGDNVNGQQILEGAFRRFNIRLIHPVQFVFLRKRYLVE
 DSLYPHFTLLGQSLGSIIFLGWEALMQCPDVYIDSMGYAFTLPLFKYIGGCQVGSYVHYPTISTDMLSVV
 KNQNI GFNNAAFITRNPFLSKVKLIYYLFAFIYGLVGSCSDVMVNSSWTLNHILSLWKVGNCTNIVYP
 PCDVQTFLDIPLHEKMTDPGHLVSVGQFRPEKNHPLQIRAFKLLNKKMVESPPSLKLVLIIGGCRNKDD
 ELRVNQLRRLSEDLGVQEYVEFKINIPFDELKNYLSEATIGLHTMWNEHFGIGVVECMAAGTIILAHNSG
 GPKLDIVIPHEGDITGFLAESEEDYAETIAHILSMSAEKRLQIRKSARASVSRFSDQEFVTFLLSVEKLFK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:


ACCN: NM_001004127

ORF Size: 1476 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:	<ol style="list-style-type: none">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:	<u>NM_001004127.1, NP_001004127.1</u>
RefSeq Size:	2585 bp
RefSeq ORF:	1479 bp
Locus ID:	440138
UniProt ID:	<u>Q2TAA5</u>
Cytogenetics:	13q14.3
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	<p>This gene encodes a GDP-Man:Man3GlcNAc2-PP-dolichol-alpha1,2-mannosyltransferase which is localized to the cytosolic side of the endoplasmic reticulum (ER) and catalyzes the transfer of the fourth and fifth mannose residue from GDP-mannose (GDP-Man) to Man3GlcNAc2-PP-dolichol and Man4GlcNAc2-PP-dolichol resulting in the production of Man5GlcNAc2-PP-dolichol. Mutations in this gene are associated with congenital disorder of glycosylation type 1p (CDG1P). This gene overlaps but is distinct from the UTP14, U3 small nucleolar ribonucleoprotein, homolog C (yeast) gene. A pseudogene of the GDP-Man:Man3GlcNAc2-PP-dolichol-alpha1,2-mannosyltransferase has been identified on chromosome 19. [provided by RefSeq, Aug 2010]</p>