

Product datasheet for **RG211388**

ALG9 (NM_001077692) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG9 (NM_001077692) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALG9
Synonyms:	CDG1L; DIBD1; GIKANIS; LOH11CR1J
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211388 representing NM_001077692 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGCTAGCCTTCTTGGTTCTCAGCACTGGCATGTTTTGTCATCATCAGCATTCCCTCCTAGTAGCT
TCTGTATGTACTACTCGTTGATAGCCATGACTGGATGGTATATGGACAAGACTTCCATTGCTGTGCTGGG
AGTAGCAGCTGGGGCTATCTTAGGCTGGCCATTCACTGCAGCTCTGGTTTACCCATTGCCTTTGATTTG
CTGGTCATGAAACACAGGTGGAAGAGTTTCTTTTCATTGGTCGCTGATGGCCCTCATACTATTTCTGGTGC
CTGTGGTGGTCATTGACAGCTACTATTATGGGAAGTTGGTGATTGCACCACTCAACATTGTTTTGTATAA
TGTCTTTACTCCTCATGGACCTGATCTTTATGGTACAGAACCCTGGTATTTCTATTTAATTAATGGATTT
CTGAATTTCAATGTAGCCTTTGGCTTCTCCTAGTCTACCACTGACTTCTCTTATGGAATACCTGC
TGCAGAGATTTTCAATGTTTCAAGATTTAGGCCACCCGATTTGGCTTACCTGGCTCCAATGTATATTTGGTT
TATAATTTTCTTCATCCAGCCTCACAAGAGGAGAGATTTCTTTCCCTGTGTATCCACTTATATGTCTC
TGTGGCGCTGTGGCTCTCTGCACTTCAGAAATGTTACCACTTTGTGTTTCAACGATATCGCCTGGAGC
ACTATACTGTGACATCGAATTGGCTGGCATTAGGAACTGTCTTCTGTTGGGCTCTTGTCAATTTCTCG
CTCTGTGGCACTGTTTCAAGGATATCACGGGCCCTTGATTTGTATCCAGAATTTTACCGAATGCTACA
GACCCAACCATCCACACTGTCCAGAGGAGGACCTGTGAATGTCTGTGGGAAAAGAGTGGTATCGAT
TTCCCAGCAGCTTCTTCTTCTGACAATTGGCAGCTTCAGTTTCCATCAGAGTTTCAAGGTACAGTT
ACCAAAACCTTTTGCAGAAGGACCTCTGGCCACCCGGATTGTTTCTACTGACATGAATGACCAGAATCTA
GAAGAGCCATCCAGATATATTGATATCAGTAAATGCCATTATTTAGTGGATTTGGACACCATGAGAGAAA
CACCCCGGGAGCCAAAATATTCATCCAATAAAGAAGAATGGATCAGCTTGGCCTATAGACCATTCTTGA
TGCTTCTAGATCTTCAAAGCTGCTGCGGGCATTCTATGTCCCCTTCTGTGATCAGTATACAGTGTAC
GTAAACTACACCATCCTCAAACCCGGAAAGCAAAGCAATCAGGAAGAAAAGTGGAGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211388 representing NM_001077692
 Red=Cloning site Green=Tags(s)

MMLAFLVLSTGMFCSSSAFLPSSFCMYTTLIAMTGWYMDKTSIAVLGVAAGAILGWPFSAALGLPIAFDL
 LVMKHRWKSFFHWSLMALILFLVPVVVIDSYYYGKLVIAPLNIVLYNVFPHGPDLYGTEPWYFYLINGF
 LNFVAFALALLVPLTSLMEYLLQRFHVQNLGHPYWLTLAPMYIWFIIFFIIPHKEERFLFPVYPLICL
 CGAVALSALQKCYHFVFQRYRLEHYTVTSNWLALGTVFLFGLLSFSRSVALFRGYHGPLDLYPEFYRIAT
 DPTIHTVPEGRPVNVCVKEWYRFPSSFLLPDNWQLQFIPSEFRGQLPKPFAEGPLATRIVPTDMNDQNL
 EEPSRYIDISKCHYLVLDLTMRETPREPKYSSNKEEWISLAYRPFLDASRSSKLLRAFYPFLSDQYTVY
 VNYTILKPRKAKQIRKSGG

TRTRPLE - GFP Tag - V

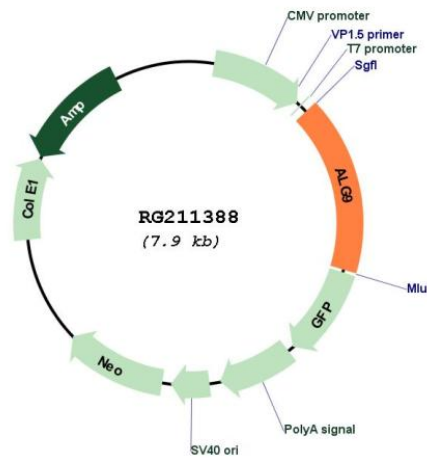
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001077692

ORF Size:	1320 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:	NM_001077692.2
RefSeq Size:	6414 bp
RefSeq ORF:	1323 bp
Locus ID:	79796
UniProt ID:	Q9H6U8
Cytogenetics:	11q23.1
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	This gene encodes an alpha-1,2-mannosyltransferase enzyme that functions in lipid-linked oligosaccharide assembly. Mutations in this gene result in congenital disorder of glycosylation type II. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]