

## Product datasheet for **RG201101**

### ALG3 (NM\_005787) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ALG3 (NM_005787) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALG3
Synonyms:	CDG1D; CDGS4; CDGS6; D16ErtD36e; not; Not56; NOT56L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201101 representing NM_005787 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCTGGGCTGCGGAAACGCGCCGGTCCGGTTCGCGGCCAGGCAGAGGGACTCTGCAAGCAAT  
GGCTGCAGCGCCTGGCAAGAGCGGCCCTGCTGCTGCGGGAGCCGCTACACGCTGCTGGTGGCCGC  
CTGCCTCTGCCTGGCGGAGGTGGGCATCACCTTCTGGGTCAATCAGGGTGGCATAACAGAGATTGAC  
TGAAGGCTACATGGCCGAGGTAGAAGCGTCATCAATGGTACCTATGACTATACCAACTGCAGGGT  
ACACCGGACCACTTGTGTACCCAGCTGGTTTCGTGTACATCTTTATGGGTTGTACTATGCCACAGCCG  
AGGCACTGACATCCGCATGGCCAGAACATCTTTGCTGTGCTCTACCTGGCTACCTTGTGCTTGTCTTC  
TTGATCTATCACCAGACCTGCAAGGTACCTCCCTTCGTCTTTTCTTCATGTGCTGCGCCTCTTACCCTG  
TCCACTCCATCTTTGTGCTGCGGCTCTTCAATGACCCAGTGGCCATGGTGTGCTCTTCCCTCAGTATCAA  
CCTCCTGCTGGCCAGCGCTGGGGTGGGGTGTGCTTTTTCAGCCTGGCAGTCTCTGTGAAGATGAAT  
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AGCTGGGAATCTGTGCTGGCCTCAGGTGGTGTGGGGTGCCTTCCTGCTGGAGAACCCAGCGGCTA  
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GTTTCCACCCAGCCCTTACACCAACAGATCGTTTCTACCCTCTTCCCTCCAACTTATTGGCATC  
TGCTTACAGCCGCTCCCTCCACTACCAGTTCTACGTCTGGTATTTCCACACTGCCCTACCTCCTGTGGG  
CCATGCCTGCACGCTGGCTCACACCTGCTCAGGTTGTTGGTGTGGGGCTCATCGAGCTCTCCTGGAA  
CACATACCCTTCCACATCCTGCAGCTCTGCTGCCCTGCACATATGCCATGCCGTATCCTGCTGCAGCTC  
TGGCTGGGCCCGAGCCTTTCCCAAGAGCACCAACACAGCAAGAAAGCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201101 representing NM\_005787  
 Red=Cloning site Green=Tags(s)

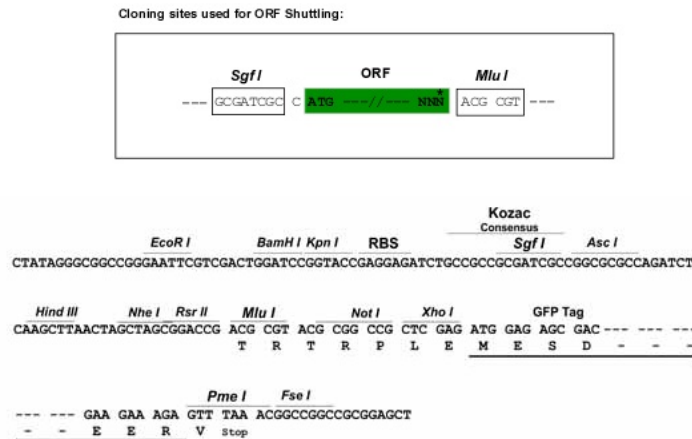
MAAGLRKRGRSGSAAQAEGLCKQWLQRAWQERRLLLREPRYTLLVAACLCLAEVGITFWVIHRVAYTEID  
 WKAYMAEVEGVINGTYDYTQLQGDGTPLVYPAGFVYIFMGLYYATSRGTDIRMAQNI FAVLYLATLLL VF  
 LIYHQTCCKVPPVFFVFFMCCASYRVHSIFVLRLFNDPVAMVLLFLSINLLLAQRWGWGCCFFSLAVSVKMN  
 VLLFAPGLLFLLLTQFGFRGALPKLGICAGLQVVLGLPFLLNPSGYLSRSFDLGRQFLFHWTVNWRFLP  
 EALFLHRAFHLLALLTAHLTLLLLFALCRWHTGESILSLLRDPSKRKVPQPLTPNQIVSTLFTSNFIGI  
 CFSRSLHYQFYVWYFHTLPYLLWAMPARWLTHLLRLLVLGLIELSWNTYPSTSCSSAALHICHAVILLQL  
 WLGPPFPKSTQHSSKAH

TRTRPLE – GFP Tag – V

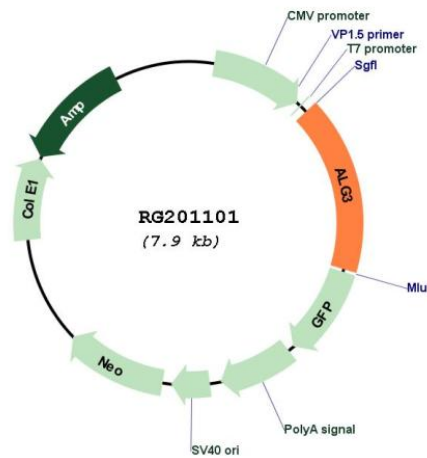
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_005787

<b>ORF Size:</b>	1314 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<a href="#">NM_005787.6</a>
<b>RefSeq Size:</b>	1537 bp
<b>RefSeq ORF:</b>	1317 bp
<b>Locus ID:</b>	10195
<b>UniProt ID:</b>	<a href="#">Q92685</a>
<b>Cytogenetics:</b>	3q27.1
<b>Domains:</b>	ALG3
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Metabolic pathways, N-Glycan biosynthesis
<b>Gene Summary:</b>	This gene encodes a member of the ALG3 family. The encoded protein catalyses the addition of the first dol-P-Man derived mannose in an alpha 1,3 linkage to Man5GlcNAc2-PP-Dol. Defects in this gene have been associated with congenital disorder of glycosylation type Id (CDG-Id) characterized by abnormal N-glycosylation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2008]