

## Product datasheet for **RG227209**

### **ALG3 (NM\_001006941) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ALG3 (NM\_001006941) 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:** >RG227209 representing NM\_001006941  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGTTCCAGCGCAGGCCAAGGAGAATGCTGGCTTACGCGTTGTGGGGAGACACAGAGATTGACTGGA  
 AGGCTACATGGCCGAGGTAGAAGGCGTCATCAATGGTACCTATGACTATACCCAATGCAGGGTGACAC  
 CGGACCACTTGTGTACCCAGCTGGTTTCGTGTACATCTTTATGGGGTTGACTATGCCACCAGCCGAGGC  
 ACTGACATCCGCATGGCCAGAACATCTTGTGTGCTCTACCTGGCTACCTTGTGCTTGTCTTCTTGA  
 TCTATCACCAGACCTGCAAGGTACCTCCCTTCGTCTTTTCTTCATGTGCTGCGCCTCTTACCGTGTCCA  
 CTCCATCTTTGTGCTGCGGCTCTCAATGACCCAGTGGCCATGGTGTGCTCTTCCCTCAGTATCAACCTC  
 CTGCTGGCCAGCGCTGGGGCTGGGGTGTGCTTTTTTCAGCCTGGCAGTCTCTGTGAAGATGAATGTGC  
 TGCTCTTCGCCCCGGTTACTGTTTCTCCTCACACAGTTTGGCTTCCGTGGGGCCCTCCCCAAGCT  
 GGGAACTGTGCTGGCCTTACAGTGGTGTGGGGCTGCCCTTCTGCTGGAGAACCCAGCGGCTACCTG  
 TCCCGTCTTTGACCTTGGCCGCAAGTTTCTGTTCCACTGGACAGTGAAGTGGCGCTTCTCCAGAGG  
 CGCTCTTCTGCATCGAGCCTCCACCTGGCCCTGTTGACTGCCACCTCACCTGCTCTGCTGTTTGC  
 CCTCTGCAGTGGCACAGGACAGGGAAAGTATCTTGTGCTGCTGAGGGATCCCTCCAAAGGAAGGTT  
 CCACCCAGCCCCTTACCCCAACCAGATCGTTTCTACCCTTTCACCTCCAATTCAATGGCATCTGCT  
 TCAGCCGCTCCCTCCACTACCAGTCTACGTCTGGTATTTCCACACACTGCCCTACCTCCTGTGGGCCAT  
 GCCTGCACGCTGGCTCACACACCTGCTCAGGTTGTTGGTGTGGGGCTCATCGAGCTCTCCTGGAACACA  
 TACCCCTCCACATCCTGCAGCTCTGCTGCCCTGCACATATGCCATGCCGTATCCTGCTGCAGCTCTGGC  
 TGGGCCCGCAGCCTTTCCCAAGAGCACCAACACAGCAAGAAAGCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227209 representing NM\_001006941  
 Red=Cloning site Green=Tags(s)

MFPAQAKENAGFSGCGGDTEIDWKAYMAEVEGVINGTYDYTLQIQDGTGPLVYPAGFVYIFMGLYYATSRG  
 TDIRMAQNI FAVLYLATLLL VFLIYHQTKVPPFVFFMCCASYRVHSIFVLRFLNDPVAMVLLFLSINL  
 LLAQRWGWGCCFFSLAVSVKMNVLLFAPGLLFLLLTQFGFRGALPKLGICAGLQVVLGLPFLLNPSTGYL  
 SRSFDLGRQFLFHWTNVNWRFLPEALFLHRAFHLALLTAHLTLLLLFALCRWHRTGESILLSLRDPSKRKV  
 PPQPLTPNQIVSTLFTSNFIGICFSRSLHYQFYVYFHTLPYLLWAMPARWLTHLLRLLVLGLIELSWNT  
 YPSTSCSSAALHICHAVILLQLWLGPQFPKSTQHSKKAH

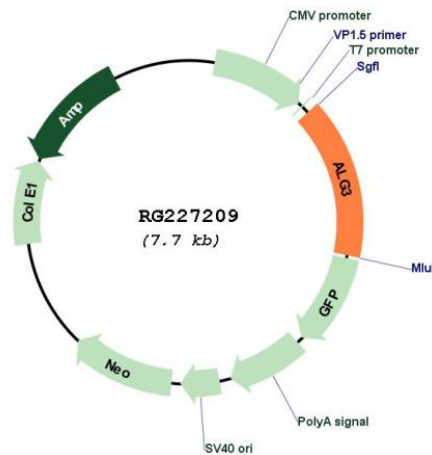
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001006941

<b>ORF Size:</b>	1170 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_001006941.2</a> , <a href="#">NP_001006942.1</a>
<b>RefSeq Size:</b>	1623 bp
<b>RefSeq ORF:</b>	1173 bp
<b>Locus ID:</b>	10195
<b>UniProt ID:</b>	<a href="#">Q92685</a>
<b>Cytogenetics:</b>	3q27.1
<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]