

Product datasheet for **MG202409**

Alg14 (NM_024178) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Alg14 (NM_024178) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Alg14
Synonyms: 5430428G01Rik; AI854024
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202409 representing NM_024178
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGCATTCTGATTCTAGCTGCTACAGCCGAGGGCTAGTGATCTTGCTATTCCAGCGACTATGGA
CCGTGCTTGGGCCCCATCACGCTACTCCCCGAGAGTCTCTCAGACTCTTGATCGTGGCTGGATCCGGTGG
ACACACCACTGAGATCTTGAGGCTGTTGGAAGCTTGCCAATGCCTATTCACCAAGGCATTATGTCATT
GCTGAGTCTGATGAAATGAGTGCCAAGAAAATCCATTCTCTTGAAGAAGTCTCTCGAGCCCAGAATGACT
CTACTACTGAATACCCCAAGTACCACCTTCACCGAATTCGAGAAGCCGGGAGGTTCCGGCAGTCCCTGGCT
CTCCTCTGTGTTCACTACCTTCTACTCCATGTGGTTCTCCTTCCCACTGGTTCTCCGAATAAAGCCAGAT
TTGGTGTGTGTAATGGACCAGGAACATGCGTCCCTATCTGTGTGTCCGCCCTGTTCTTGGGATACTTG
GAGTGAAGAAAGTGATCATCGTCTATGTGAGAGCATCTGCCGAGTGGAGACGCTATCCCTGTCAGGGAA
GATCCTGAGGCACCTCTCCGACTACTTCATTGTTCAAGTGGCCCACTCTCAAGGAGAAGTACCCCAAGTCT
GTGTACCTGGGGCGAATTGTT

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202409 representing NM_024178
 Red=Cloning site Green=Tags(s)

MLSILILAATAAGLVILLFQRLWTVLGP HHVTPRESLRLLIVAGSGGHTTEILRLVGSLSNAYS PRHYVI
 AESDEMSAKKIHSLEEL SRAQNDSTTEYPKYHLHRIPRSREVRQSWLSSVFTTFYSMWF SFPLVLR IKPD
 LVL CNPGTCVPICVSALLL GILGVKKVIIVYVESICRVETLSLSGKILRHLSDYFIVQWPTLKEKYPKS
 VYLGRIV

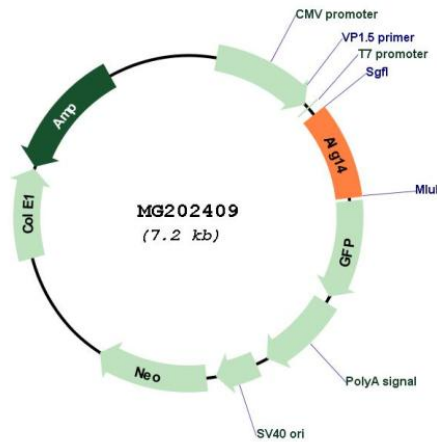
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_024178

ORF Size: 651 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_024178.1 |
| RefSeq Size: | 910 bp |
| RefSeq ORF: | 654 bp |
| Locus ID: | 66789 |
| UniProt ID: | Q9D081 |
| Cytogenetics: | 3 G1 |
| Gene Summary: | Involved in protein N-glycosylation. Essential for the second step of the dolichol-linked oligosaccharide pathway. Anchors the catalytic subunit ALG13 to the ER (By similarity). [UniProtKB/Swiss-Prot Function] |