

Product datasheet for **MG206559**

Alg2 (NM_019998) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg2 (NM_019998) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Alg2
Synonyms:	1110018A23Rik; 1300013N08Rik; ALPG2; CDGII; MNCb-5081
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206559 representing NM_019998 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAAAACCTGTACCGAGCCCGTTCCCGGGTTACAGCCCATCTGTGCTGTTTCTGCACCCAGACA
TGGGTATAGGCGGAGCCGAGCGCCTAGTGCTGGACCGGCGCTGGCGCTGCAGGAGTACGGCTGTGATGT
GAAGATATGGACCGGCACTACGACCCGAACCACTGCTTCATCGAGACCCGCGAGCTCTCGGTGCAATGC
GCAGGGGACTGGCTGCCTCGCAGCCTGGCTGGGGCGGCCGCGGCCCATCTGCTCCTACGTGCGCA
TGGTCTTTCTGGCGCTCTACGTGCTGTTTCTCTCCGGCGAGGAGTTCGACGTGGTGGTGTGCGACCAGGT
GTCTGCCTGTATCCCGGTGTTCAAACCTGGCCAGACGGCGTAAGAGGGTCCATTTTACTGTCACTCCCA
GATCTGCTGCTTACTCAGAGAAATTCAGCTCTGAAGAAGTCTACAGGGCCCCATCGACTGGATCGAGG
AATACACCACAGGCATGGCAGACCGCATCTTGGTCAACAGCCAGTACACTGCTCCGTCTTTAAAGAAAC
CTTCAAGACCCTGTCTCACAGAAATCCTGATGTGCTCTACCCATCTCTGAATATCGGCAGCTTTGACTTG
GCTATTCCTGAAAAGATAGATGACCTCGTCCCAAGGGGAAGCAATTCCTGTTCTCTCTATCAACCGAT
ACGAAAGGAAGAAAAATCTGCCCTTGGCACTGAGATCCTTGGTGCAGCTTCGGAATCGGTTACCATCTCA
AGAGTGGGATAAGGTTTCATCTCTCATGGCCGGTGGTTATGACGATAGGATCCCGGAGAACGTGGAGCAC
TATAAGGAGTTGAAGAAAATGGTCCAAGAGTCAGACCTTGAGCGTCATGTGACCTTCCTGCGGCTCTCT
CGGACAGACAGAAGATCTCACTCCTCCACGGCTGCTTGTGTGCTCTACACTCCGAGCAACGAGCACTT
TGGCATCGTCCCTCTGGAGGCCATGTACATGCAGTGCCAGTCATCGCTGTTAATAACGGTGGGCCCTG
GAGTCCATTGTCCACAAGGTCACGGGGTCTGTGTGAGCCAGACCCAGTGCCTTCTCAGAAGCCATGG
AGAAGTTCATCCACAAACCATCCTTAAAAGCCACGATGGGCTCGCTGAAAAGCCAGGTTGGCGGAGAA
GTTTTAGCTGATGCATTTGAGACCAGCTGTACCAGTATGTCACGAAGCTGGTG

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206559 representing NM_019998
 Red=Cloning site Green=Tags(s)

MAENLYRARSRVYSPSVLFLHPDMGIGGAERLVLDAALALQEYGCVDKIWTAHYDPNHCFIETRELSVQC
 AGDWLPRSLGWGGRGAAICSYVRMVFLALYVFLSGEEFDVVCDQVSACIPVFKLARRRKRVLFYCHFP
 DLLLTQRNSALKKFYRAPIDWIEEYTTGMADRILVNSQYASVFKETFKTLSHRNPDLVYPSLNIGSFDL
 AIPEKIDDLVPGKQFLFLSINRYERKKNLPLALRSLVQLRNRLPSQEWDKVLHFMAGGYDDRIPENVEH
 YKELKKMVQESDLERHVTFLRSFSDRQKISLLHGCLCVLYTPSNEHFGIVPLEAMYMQCPVIAVNNGGPL
 ESIVHKVTGFLCEPDPVHFSEAMEKFIHKPSLKATMGLAGKARVAEKFSADAFADQLYQYYTKLV

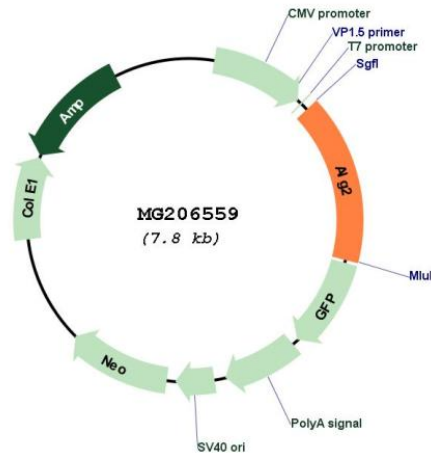
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_019998

ORF Size:	1245 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_019998.3
RefSeq Size:	3013 bp
RefSeq ORF:	1248 bp
Locus ID:	56737
UniProt ID:	Q9DBE8
Cytogenetics:	4 B1
Gene Summary:	Mannosylates Man(2)GlcNAc(2)-dolichol diphosphate and Man(1)GlcNAc(2)-dolichol diphosphate to form Man(3)GlcNAc(2)-dolichol diphosphate.[UniProtKB/Swiss-Prot Function]