

Product datasheet for **MG206977**

Alg1 (BC011281) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg1 (BC011281) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Alg1
Synonyms:	HMT1, HMAT1, MGC18946
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206977 representing BC011281 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCGTCTGCGTGGCGTCTGGTCTGGCGTCTGTTGCTGGTCTGCTGCTGGGCTTGTGGA
AGCGTGGCGGCAAAACGGGCAGGGCCCGGCATATGGTCGTCGTTGCTGGGCGACGTGGCCCGAGCCC
CCGCATGCAGTACCACGCGCTGTCATTGGCCCAGAGCGGCTTTTCGGTGACGCTGCTGGGGTTCTACACT
GGGCCCGAATTCAGTATGGAGTCAAGGTTGATTTTCAGGCAGTGTACTTGTGTGGAAGATGATGC
GCATGGACCCTGCAGCCTACATCTTCTCCAGAACCCTCCAGGTCTGCCTGCTATTGCCGCTGCTGGTT
TGTGGGCTGCATTTGTGGGAGCAAATTTGGTCATCGACTGGCACAACATATGGCTACTCCATCATGGGCTTG
GTCCATGGCCCCCGCCACCCCATTTGTGCTGCTGGCCAAATGGTATGAGAAGTTCTTCGGGCGCCTGTCCC
ACCTGAACCTGTGTGACCAATGCTATGCGGGAGGACCTGGCAGAGAAGTGGTGTGTCAGGGCTGTGAC
GCTCTACGACAAGCCAGCATCTTTCTTTAAGGAGACACCCTGGACCTGCAGCATGAACTCTTTATGAAG
CTGAGCCACACGTACTCTCTTTCCAGAGCTGCTCAGATCCCTCACATCTGACACAGAGAGGTCCGGCT
TCACTGAGAGGGATTGTCAGAGCGGGTGTGAGGCGTCTGCATGGGCGGCCAGCACTGCTCGTGAGCAG
CACAAGCTGGACAGAGGACGAGGACTTCTCCATCTGCTTTCGAGCATTAGAAAAGTTTGAGCAACAAGCA
CTCACTGGAGACAGCCTCCCTCCCTGCTGTGTGATAACAGGGAAGGGACCGCTCAGAGAGCACTACC
GCCACCTCATCAGCCAGAAGCACCTTAGGCACATCCGGTCTGCACCCCATGGCTGGAAGCCGAGGACTA
CCCACTGCTTCTAGGGTCAAGGATCTGGGTGTCTGTCTGCACATGTCCTCCAGTGGTCTGGACCTGCCC
ATGAAGTGGTGGACATGTTGGGTGCCACTTGCCTGTGTGTGCCGTGAACCTCAAGTGTCTGCACGAGC
TTGTAAGACATGGAGAGAATGGTCTGGTCTTCAAGGATGCTGAGGAGCTGGCAGCTCAGTGCAGATGCT
TTTCTCAAAGTCCAGACCCTGCTGGAAAGCTAAGCCAGTTCGGGAAGAACTGCAGGAGTCGAGGCGAG
CAACGCTGGGATGAGAGCTGGCAGCACACTGTCTCCCTCTGCTCACTCACAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206977 representing BC011281
 Red=Cloning site Green=Tags(s)

MAASCVALLVLALLLVLLGLWKRGRQTGRARHMVVVVLGDVGRSPRMQYHALSLAQSGFSVTLLGFYT
 GPRILQYGKVVVFQAVYLLWKMMRMDPAAYIFLQNPPLPAIAVCWVFGCICGSKLVIDWHNYGYSIMGL
 VHGPRHPIVLLAKWYEFKFFGRLSHLNLCTVNAMREDLAENWCVRVATLYDKPASFFKETPLDLQHELFMK
 LSHTYSPFQSCSDPSHPDTERSFAFTERDCQSGVVRRLHGRPALLVSTLWTEDEDFSILLRALEKFEQQA
 LTGDSLPSLVCVITGKGPLREHYRHLISQKHLRHIRFCTPWLEAEDYPLLLGSADLGVCLHMSSSGLDLP
 MKVYDMFGCHLPVCAVNFKCLHELVRHGENGLVFKDAEELAAQLQMLFSKFPDPAGKLSQFRKKLQESRQ
 QRWDESWQHTVLPPLLTHR

TRTRPLE - GFP Tag - V

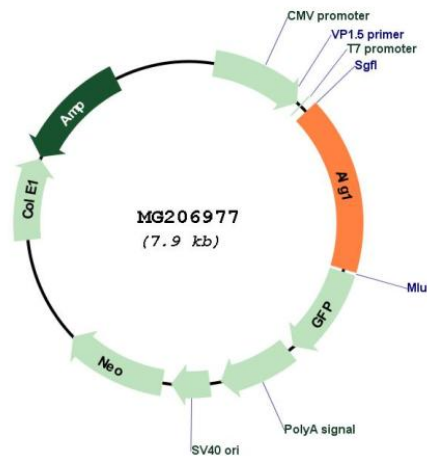
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC011281

ORF Size:	1316 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:	BC011281
RefSeq Size:	1677 bp
RefSeq ORF:	1316 bp
Locus ID:	208211
Cytogenetics:	16 A1
Gene Summary:	Participates in the formation of the lipid-linked precursor oligosaccharide for N-glycosylation. Involved in assembling the dolichol-pyrophosphate-GlcNAc(2)-Man(5) intermediate on the cytoplasmic surface of the ER (By similarity).[UniProtKB/Swiss-Prot Function]