

## Product datasheet for **MR206977**

### Alg1 (BC011281) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids

Product Name: Alg1 (BC011281) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Alg1

Synonyms: HMT1, HMAT1, MGC18946

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Cell Selection: Neomycin

ORF Nucleotide Sequence: >MR206977 representing BC011281  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR206977 representing BC011281  
Red=Cloning site Green=Tags(s)

MAASCVALLVLALLLVLLLGLWKRGRQTGRARHMVVVVLGDVGRSPRMQYHALSLAQSGFVSTLLGFYT  
GPRILQYGKVVVFQAVYLLWKMMRMDPAAYIFLQNPPLPAIIVCFVGCICGSKLVIDWHNYGYSIMGL  
VHGPRHPIVLLAKWYKFFGRLSHLNLCVTNAMREDLAENWCVRVAVTLYDKPASFFKETPLDLQHELFMK  
LSHTYSPFQSCSDPSHPDTERSAFTERDCQSGVVRRLHGRPALLVSSTWTEDEDFSILLRALEKFEQQA  
LTGDSLPSLVCVITGKGPLREHYRHLISQKHLRHIRFCTPWLEAEDYPLLLGSADLVCLHMSSGLDLP  
MKVVDMFGCHLPVCAVNFKCLHELVRHGENGLVFKDAEELAAQLQMLFSKFPDPAGKLSQFRKKLQESRQ  
QRWDESWQHTVLP LLTHR

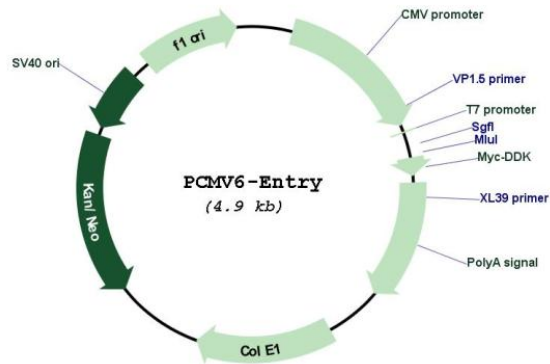
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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**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](#)

<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>	<u><a href="#">BC011281</a></u>
<b>RefSeq Size:</b>	1677 bp
<b>RefSeq ORF:</b>	1316 bp
<b>Locus ID:</b>	208211
<b>Cytogenetics:</b>	16 A1
<b>MW:</b>	61.5 kDa
<b>Gene Summary:</b>	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]