

Product datasheet for **MR215774**

Alg1 (NM_145362) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg1 (NM_145362) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alg1
Synonyms:	HMAT1; HMT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR215774 representing NM_145362
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCGTCTGCGTGGCGCTGCTGGTTCTGGCGCTGCTGTTGCTGGTCTGCTGCTGGGCTTGTGGA
 AGCGTGGGCGGCAAACGGGCAGGGCCCGGCACATGGTCGTCGTTGCTGGGCGAGTGGGCCGAGCCC
 CCGCATGCAGTACCACGCGCTGTCATTGGCCAGAGCGGCTTTTCGGTGACGCTGCTGGGTTCTACAAC
 TCCAAACCTCGAGATGAACTCTTGCAGAAATGATAGGATTCGGATTGTGAAGTTGACAGATCTGCGGGCC
 TGGGAGCTGGGCCCGAATTCTCCAGTATGGAGTCAAGTTGATTTTCAGGCAGTGTACTTGTGTGAA
 GATGATGCGCATGGACCCTGCAGCCTACATCTTCTCCAGAACCTCCAGGTCTGCCTGCTATTGCCGTC
 TGCTGGTTTGTGGGCTGCATTTGTGGGAGCAAATTTGGTCATCGACTGGCACAATATGGCTACTCCATCA
 TGGGCTTGGTCCATGGCCCCGCCACCCATTGTGCTGCTGGCCAAATGGTATGAGAAGTTCTTCGGGCG
 CCTGTCCACCTGAACCTGTGTGTGACCAATGCTATGCGGGAGGACCTGGCAGAGAAGTGGTGTGTCAGG
 GCTGTGACGCTCTACGACAAGCCAGCATCTTTCTTAAGGAGACACCCCTGGACCTGCAGCATGAACTCT
 TTATGAAGCTGAGCCACACGTACTCTCCTTTCCAGAGCTGCTCAGATCCCTCACATCCTGACACAGAGAG
 GTCGGCCTTCACTGAGAGGGATTGTGAGAGCGGGTGTGAGGCGTCTGCATGGGCGCCAGCACTGCTC
 GTGAGCAGCACAAGCTGGACAGAGGACGAGGACTTCTCCATCCTGCTTCGAGCATTAGAAAAGTTTGTGAGC
 ACAAGCACTCACTGGAGACAGCCTCCCTTCCCTCGTCTGTGTGATAACAGGGAAGGGACCGCTCAGAGA
 GCACTACCGCCACCTCATCAGCCAGAAGCACCTCAGCACGTCCGGTTCGCACCCCATGGCTGGAAGCC
 GAGGACTACCCACTGCTTCTAGGGTCAGCGGATCTGGGTGTCTGTCTACACATGCTCCTCCAGTGGTCTGG
 ACCTGCCCATGAAGGTGGTGGACATGTTTGGGTGCCACTTGCCTGTGTGCGCGTGAACCTCAAGTGTCT
 GCACGAGCTAGTAAGACATGGAGAGAATGGTCTGGTCTTCAAGGATGCTGAGGAGCTGGCAGCTCAGCTG
 CAGATGCTTTTCTCAAAGTTCCAGACCTGCTGGAAAGCTAAGCCAGTTCGGAAAGAACTGCAGGAGT
 CGGGGAGCAACGCTGGGATGAGAGCTGGCAGCACACTGTGCTCCTCTGCTCGCTCACTCACAGATGAC
 CCCCAGGCCCATCCACCCTGTGGCCACCCTTCTGCCGGGCTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215774 representing NM_145362
 Red=Cloning site Green=Tags(s)

MAASCVALLVLAALLLVLLGLWKRGRQTGRARHMVVVVLGDVGRSPRMQYHALSLAQSGFSVTLGLGFYN
 SKPRDELLQNDIRIRIVKLTDLRGLGAGPRILQYGVKVVQAVYLLWKMMRMDPAAYIFLQNPPLPAIAV
 CWFVGCICGSKLVIDWHNYGYSIMGLVHGPRHPVLLAKWYKFFGRLSHLNLCVTNAMREDLAENWCVR
 AVTLYDKPASFFKETPLDLQHELFMKLSHTYSPFQSCSDPSHPDTERSAF TERDCQSGVRRRHGRFPALL
 VSSTSWTEDEDFSIILLRALEKFEQALTGDSLPSLVCVITGKGPLREHYRHLISQKHLQHVRFCPTWLEA
 EDYPLLLGSADLVCLHMSSGLDLPKVVDMFGCHLPVCAVNFKCLHELVRHGENGLVFKDAEELAAQL
 QMLFSKFPDPAGKLSQFRKQLQESGQQRWDESWQHTVLLAHSQMTPRPHPPCGHPSCRGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_g06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_145362

ORF Size: 1446 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:

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_145362.2](#), [NP_663337.2](#)
RefSeq Size: 1772 bp

RefSeq ORF: 1449 bp

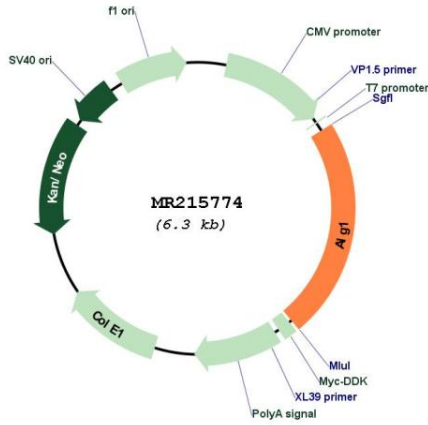
Locus ID: 208211

UniProt ID: [Q921Q3](#)
Cytogenetics: 16 A1

MW: 54.9 kDa

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]

Product images:



Circular map for MR215774