

Product datasheet for **RR207072**

Alg6 (NM_001033709) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg6 (NM_001033709) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alg6
Synonyms:	MGC124652
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR207072 representing NM_001033709
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAGCTGGACCTGGATGACAGTCGTGGTCTTACTTGGACTCACGGTGCGGTGGACGGTTTCTCTCA
 ATTCTTACTCAGGTGCTGAAAAACCGCCTATGTTTGGTGATTATGAAGCTCAGAGACACTGGCAAGAAAT
 TACCCCTAACTTACCAGTCAAACAATGGTATTTAACAGTAGTGATAACAATTTACAGTACTGGGGATTG
 GATTACCCACCTTACGGCCTATCACAGTCTCTATGTGCATATGTGGCAAAGTTATAAACCCAGACT
 GGGTTGCTCTCCACACATCACGAGGCTATGAGAGTCAGGCACACAAGCTCTTCATGCGTACCACAGTTCT
 CGCTGCTGATTTGCTCATTTATATACCCGAGTCTTTTGTACTGTTACTCCTTAAAAGAAATCTCACCT
 AAGAGAAAGATCGCCAGCGCGCTATGCATATTGCTGTACCCAGGCTCATTCTTATCGACTATGGACATT
 TTCAGTATAATTCTGTAGTCTTGGCTTGTCTGTGGGGTGTCTTGGAGTGTCTTGTGACTGGGACCT
 GCTAGGGTCATTGGCCTTTTGTAGCTCTAAATTATAAACAGATGGAGCTTTACCACTCCCTACCATT
 TTTTGTCTTTTACTTGGCAAATGTTTTAAAAAAGGCCCTCAGAGGAAAGGGGTCTGCATTGTTCAATAGGA
 TAGCCTGTACTGTGCGTGGCCTCCTTCTCTGTGTTGGCTGCCGTTCTTGACAGAAAGGGAGCATGCCCT
 GCAGGTCGTGAGAAGACTCTTCCCTGTTGATCGCGGATTGTTGAGGATAAAGTAGCCAATATTTGGTGC
 AGCCTTAATGTTTTCTGAAGATTAAGACATTTTGCCTCGTCACATCCAGATAGCAATCAGCTTTTGTCT
 TCACATTTTGTAGCTTGTCTTCTGCATGCATAAAGTTGACAGTTCAGCCCTCTGCTAAAGGATTCAGATT
 CACTCTGGTTAGCTGTGCACTATCATTCTTTCTGTTTTCTTCCAAGTACAGGAAAGTCCATTCTCTTG
 GTATCACTACCAGTCTGCTTAGTTTTAACTGAAATTCCTTTCATGTCAACTTGGTTTTTACTAGTTTTCAA
 GTTTTAGCATGCTGCCTTCTATTAAGGACCAACTCCTGCTGCCCTCGGTTGTGACAGTATGGCGCTT
 TTTAATAGCTTGTCCACCTTCTTCCCAATGTTTGAACAACACTTCTGAGGAACAACCTGCAGCTGAAGTCC
 TTTGCCGCTCTGTGAGGAGGCACCTTCCGGGTTTACGTTTTCTCCAGAATTATACAGTGTGTTGTTTC
 TTTCTTACGTCATCACCATGATCCTTCTGACGATTTTGTAGTGTAACTGGACCCTCCTCAGAAATTACC
 AGACTTGTCTTCTGACTTATATGTTTTGTCTGTGTAACACTTGTATTCTTCTTGGTATATTTTAAAC
 ATTGTAATCATGTGGATTCCAAAAATGGAAGAAATCGTAAGAAAATTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207072 representing NM_001033709
 Red=Cloning site Green=Tags(s)

MESWTWMTVVVLLGLTVRWTVSLNSYSGAGKPPMFGDYEQRHWQEITLNLVVKQWYFNSSDNNLQYWGL
 DYPPLTAYHSLLCAYVAKFINPDWVALHTSRGYESQAHKLFMRTTVLAADLLIYIPAVLLYCYSLKEISP
 KRKIASALCILLYPGLILIDYGHFQYNSVSLGFALWGLVGVSCDWDLGSLAFCLALNYQMELYHSLPF
 FCFLGKCFKGLRGKGSALFIRIACVVASFLLCWLPFLTEREHALQVVRRLFPVDRGLFEDKVANIWC
 SLNVFLIKDILPRHIQIAISFCFTFLSLLPACIKLTVQPSAKGFRFTLVSCALSFLLFSFQVHEKSILL
 VSLPVCLVLTETPFMSTWFLLVSTFSLPLLLKDQLLLPSVVTVMAFLIACSTFFPMFENTSEEQLQLKS
 FAVSVRRHLPGFFLPRIIQCLFLSSVITMILLTILSVTLDPQPQLPDFSVLICFVSCVNFVFLVYFN
 IVIMWDSKNGRNRKID

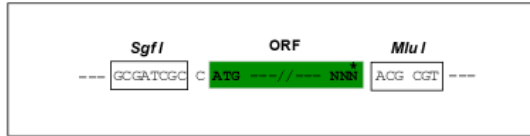
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

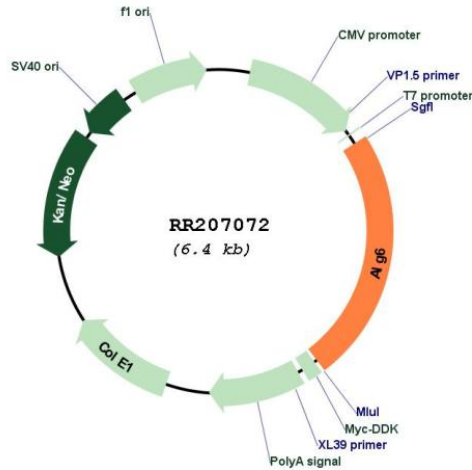
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001033709

ORF Size: 1521 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_001033709.1](#), [NP_001028881.1](#)

RefSeq Size: 3007 bp

RefSeq ORF: 1524 bp

Locus ID: 362547

UniProt ID: [Q3T1L5](#)

Cytogenetics: 5q33

MW: 57.9 kDa

Gene Summary: Adds the first glucose residue to the lipid-linked oligosaccharide precursor for N-linked glycosylation. Transfers glucose from dolichyl phosphate glucose (Dol-P-Glc) onto the lipid-linked oligosaccharide Man(9)GlcNAc(2)-PP-Dol (By similarity).[UniProtKB/Swiss-Prot Function]