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Product datasheet for MR206559

Alg2 (NM_019998) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg2 (NM_019998) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alg2
Synonyms:	1110018A23Rik; 1300013N08Rik; ALPG2; CDGIi; MNCb-5081
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206559 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGAAAACCTGTACCGAGCCCGTTCCCGGGTTTACAGCCCATCTGTGCTGTTTCTGCACCCAGACA
TGGGTATAGGCGGAGCCGAGCGCCTAGTGCTGGACGCGGCGCTGGCGCTGCAGGAGTACGGCTGTGATGT
GAAGATATGGACCGCGCACTACGACCCGAACCACTGCTTCATCGAGACCCGCGAGCTCTCGGTGCAATGC
GCAGGGGACTGGCTGCCTCGCAGCCTGGGCTGGGGCGGCCGCGGCGCCGCCATCTGCTCCTACGTGCGCA
TGGTCTTTCTGGCGCTCTACGTGCTGTTTCTCTCCGGCGAGGAGTTCGACGTGGTGGTGTGCGACCAGGT
GTCTGCCTGTATCCCGGTGTTCAAACTGGCCAGACGGCGTAAGAGGGTCCTATTTTACTGTCACTTCCCA
GATCTGCTGCTTACTCAGAGAAATTCAGCTCTGAAGAAGTTCTACAGGGCCCCCATCGACTGGATCGAGG
AATACACCACAGGCATGGCAGACCGCATCTTGGTCAACAGCCAGTACACTGCTTCCGTCTTTAAAGAAAC
CTTCAAGACCCTGTCTCACAGAAATCCTGATGTGCTCTACCCATCTCTGAATATCGGCAGCTTTGACTTG
GCTATTCCTGAAAAGATAGATGACCTCGTCCCCAAGGGGAAGCAATTCCTGTTCCTCTCTATCAACCGAT
ACGAAAGGAAGAAAAATCTGCCCTTGGCACTGAGATCCTTGGTGCAGCTTCGGAATCGGTTACCATCTCA
AGAGTGGGATAAGGTTCATCTCTTCATGGCCGGTGGTTATGACGATAGGATCCCGGAGAACGTGGAGCAC
TATAAGGAGTTGAAGAAAATGGTCCAAGAGTCAGACCTTGAGCGTCATGTGACCTTCCTGCGGTCCTTCT
CGGACAGACAGAAGATCTCACTCCTCCACGGCTGCTTGTGTGTGCTCTACACTCCGAGCAACGAGCACTT
TGGCATCGTCCCTCTGGAGGCCATGTACATGCAGTGCCCAGTCATCGCTGTTAATAACGGTGGGCCCCTG
GAGTCCATTGTCCACAAGGTCACGGGGTTCCTGTGTGAGCCAGACCCAGTGCACTTCTCAGAAGCCATGG
AGAAGTTCATCCACAAACCATCCTTAAAAGCCACGATGGGCCTCGCTGGAAAAGCCAGGGTGGCGGAGAA
GTTTTCAGCTGATGCATTTGCAGACCAGCTGTACCAGTATGTCACGAAGCTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

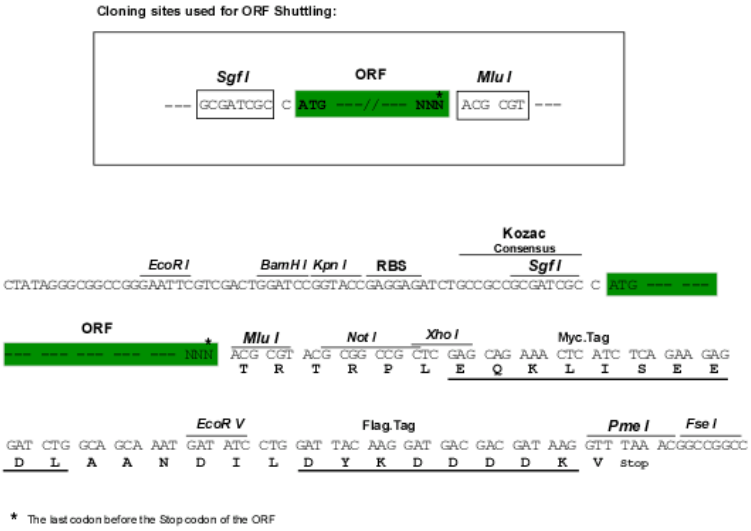
>MR206559 protein sequence
Red=Cloning site Green=Tags(s)

MAENLYRARSRVYSPSVLFLHPDMGIGGAERLVLDAALALQEYGCDVKIWTAHYDPNHCFIETRELSVQC
AGDWLPRSLGWGGRGAAICSYVRMVFLALYVLFLSGEEFDVVVCDQVSACIPVFKLARRRKRVLFYCHFP
DLLLTQRNSALKKFYRAPIDWIEEYTTGMADRILVNSQYTASVFKETFKTLSHRNPDVLYPSLNIGSFDL
AIPEKIDDLVPKGKQFLFLSINRYERKKNLPLALRSLVQLRNRLPSQEWDKVHLFMAGGYDDRIPENVEH
YKELKKMVQESDLERHVTFLRSFSDRQKISLLHGCLCVLYTPSNEHFGIVPLEAMYMQCPVIAVNNGGPL
ESIVHKVTGFLCEPDPVHFSEAMEKFIHKPSLKATMGLAGKARVAEKFSADAFADQLYQYVTKLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019998

ORF Size: 1248 bp

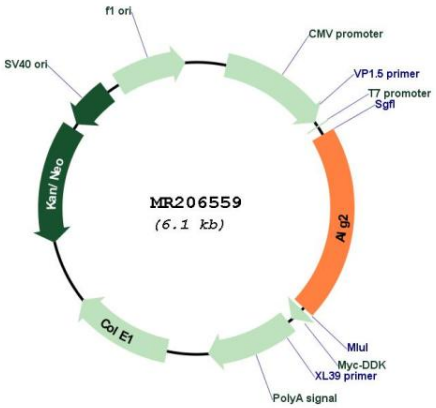
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_019998.3
RefSeq Size:	3062 bp
RefSeq ORF:	1248 bp
Locus ID:	56737
UniProt ID:	Q9DBE8
Cytogenetics:	4 B1
MW:	47.4 kDa
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]

Product images:



Circular map for MR206559