

Product datasheet for **MR207877**

Amigo1 (NM_001004293) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amigo1 (NM_001004293) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amigo1
Synonyms:	ali2; Amigo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207877 representing NM_001004293
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAACCCAGCGTGACCTGCGAGGCCTCTGGCTCTGTGCTCTCCGTGTTCTGCTTCTTTGAGG
 TAGCCAGGGCCGCCGATCTGTGGTTAGTTGTCCCGCCAACTGCCTGTGCGCCAGCAACATCCTCAGCTG
 CTCCAAGCAGCAGCTGCCAATGTGCCCAATCTTTGCCAGCTACACAGCACTGCTGGACCTCAGCCAC
 AACAACTTGAGCAGGCTGCGGGCCGAGTGGACCCCAACCGGCTGACCAACCTGCACTCCCTGCTGCTGA
 GCCACAACCACCTGAACCTCATCTCCTCCGAGGCCTTCGTCCTCCGTACCAACCTTAGGTAAGTGGACCT
 CTCCTCAACCATCTTACACGCTGGATGAGTTCCTGTTGAGCGACCTGCAGGCGCTGGAAGTGTGTTG
 CTCTACAATAACACATTGTGGTGGTGGACCGAATGCCTTTGAGGACATGGCCAGCTGCAGAACTCT
 ACTTAAGCCAGAATCAGATCTCTCGCTTCTGTGGAAGTCAAGGATGGGAACAAATACCCAACT
 GATGCTCTGGATCTGTCTCCAACAAGCTGAAGAAGTTCGCCCTGACTGACCTGCAGAAATGCCAGCC
 TGGGTCAAGAATGGGCTATACCTGCATAACAACCCCTGGAGTGCAGCTGCAAGCTCTACCGACTCTTTT
 CGCACTGGCAGTACCGGCAGCTGAGCTCTGTGATGGACTTCCAGGAGGACCTGTACTGCATGCACTCCAA
 GAAGCTGCACAACATCTTCAGCCTGGATTTCTCAATTGCAGCGAGTACAAGGAAAGTGCCTGGGAGGCT
 CACCTGGGAGACACCTTGACCATCAGGTGTGACACCAACAGCAAGGCATGACCAAGTGTGGGTGTCCC
 CAAGCAATGAACAGGTGCTAAGTCAGGGGTCCAATGGCTCGGTGAGCGTGAGGAATGGCGACCTTTTTTT
 TAAAAGGTGCAGGTGAGGATGGGGTGTGTATACCTGTTACGCCATGGGGGAGACTTTCAACGAGACA
 CTGTCTGTGGAGTTGAAAGTGTAACTTACCTTGCACGGACACCATGACACCTCAACACAGCCTACA
 CTACCTGGTGGGCTGTATCCTCAGTGTGGTCTGGTCCATATACTTGTACCTCACCCCTTGGCGTGTG
 CTGGTGTGCGGGGTGGAGAAACCTTCCAGCCACCAAGGAGATAGCCTCAGCTCTTCTATGCTCAGTACC
 ACACCAACCACGACCCTATGGCTGGTGGGACAAAGATGATGGTTTTGACCGCGGGTGGCCTTCTGG
 AACCTGTGGACCGGGCAGGTCAAAATGGCAAACCTCAAGCCAGGCAACACTCTGCCGGTGGCCGAAGC
 TACAGGCAAGGGCCAACGGAGGATGTCCGATCCAGAGTCGGTCAGCTCGGTCTTTTCTGATACCCATT
 GTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207877 representing NM_001004293
 Red=Cloning site Green=Tags(s)

MQPFQDLRGLWLLLLSVFLLLFEVARAGRSVVSPPANCLCASNILSCSKQQLPNVPQSLPSYTHLLDLSH
 NNL SRLRAEWTPTRL TNLHSLLLSHNHLNFISSEAFVVPVNLRYLDLSSNHLHTLDEF LFSDLQALEVLL
 LYNNHIVVDRNAFEDMAQLQKLYLSQNQISRFPVELIKDGNKLPKLMLLDLSSNKLKPLPLTDLQKLP
 WVKNGLYLHNNPLECDCKLYQLFSHWQYRQLSSVMDFQEDLYCMHKKLHNIIFSLDFNCSEYKESAWEA
 HLGDTLTIKRDTKQQGMTKVVWVSPSNEQVLSQGSNGSVSVRNGDLFFKKVQVEDGGVYTCYAMGETFNET
 LSVELKVYNTLHGHTLNTAYTTLVGCILSVVLVLIYLYLTPCRCWCRGVEKPSHQGDSLSSMLST
 TPNHDPMAGGDKDDGDFRRVAFLEPAGPGQNGKLPKPGNTLPVPEATGKGQRRMSDPESVSVFSDTPI
 VV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001004293

ORF Size: 1476 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

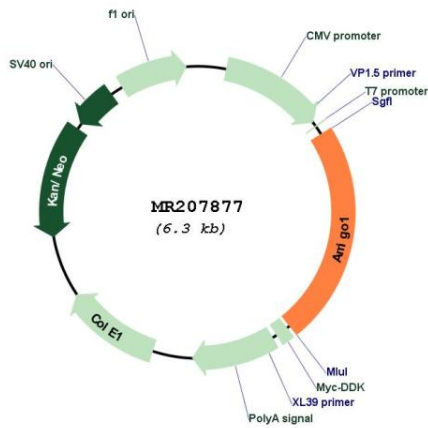
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_001004293.2](#), [NP_001004293.1](#)

RefSeq Size: 5016 bp
 RefSeq ORF: 1479 bp
 Locus ID: 229715
 UniProt ID: [Q80ZD8](#)
 Cytogenetics: 3 F2.3
 MW: 55.8 kDa

Gene Summary: Promotes growth and fasciculation of neurites from cultured hippocampal neurons. May be involved in fasciculation as well as myelination of developing neural axons. May have a role in regeneration as well as neural plasticity in the adult nervous system. May mediate homophilic as well as heterophilic cell-cell interaction and contribute to signal transduction through its intracellular domain (By similarity). Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1 (PubMed:22056818).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207877