

Product datasheet for **MC227996**

Amigo1 (NM_146137) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amigo1 (NM_146137) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Amigo1
Synonyms:	ali2; Amigo
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227996 representing NM_146137
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAACCCAGCGTGACCTGCGAGGCCTCTGGCTCCTGTGCTCCTCGTGTTCCTGCTTCTTTGAGG
 TAGCCAGGGCCGGCCGATCTGTGGTTAGTTGTCCCGCCAACTGCCTGTGCGCCAGCAACATCCTCAGCTG
 CTCCAAGCAGCAGCTGCCAATGTGCCCAATCTTTGCCAGCTACACAGCACTGCTGGACCTCAGCCAC
 AACAACTTGAGCAGGCTGCGGGCCGAGTGGACCCCAACCGGCTGACCAACCTGCACTCCCTGCTGCTGA
 GCCACAACCACCTGAACCTCATCTCCTCCGAGGCCTTCGTCCTCCGTACCCAACCTTAGGTAAGTGGACCT
 CTCCTCAACCATCTTCACACGCTGGATGAGTTCCTGTTGAGCGACCTGCAGGCGCTGGAAGTGTGTTG
 CTCTACAATAACACATTGTGGTGGTGGACCGAATGCCTTTGAGGACATGGCCAGCTGCAGAACTCT
 ACTTAAGCCAGAATCAGATCTCTCGCTTTCCTGTGGAAGTCAAGGATGGGAACAAATACCCAACT
 GATGCTCTTGATCTGTCTCCAACAAGCTGAAGAAGTTGCCCTGACTGACCTGCAGAAATGCCAGCC
 TGGGTCAAGAATGGGCTATACCTGCATAACAACCCCTTGAGTGGGACTGCAAGCTCTACCAGCTCTTT
 CGCACTGGCAGTACCGGCAGCTGAGCTCTGTGATGGACTTCCAGGAGGACCTGACTGCATGCACTCCAA
 GAAGCTGCACAACATCTTCAGCCTGGATTTCTCAATTGCAGCGAGTACAAGGAAAGTGCCTGGGAGGCT
 CACCTGGGAGACACCTTGACCATCAGGTGTGACACCAACAGCAAGGCATGACCAAGTGTGGGTGTCCC
 CAAGCAATGAACAGGTGCTAAGTCAGGGGTCCAATGGCTCGGTGAGCGTGAGGAATGGCGACCTTTTTTT
 TAAAAGGTGCAGGTGAGGATGGGGTGTGTATACCTGTTACGCCATGGGGGAGACTTTCAACGAGACA
 CTGTCTGTGGAGTTGAAAGTGTAACTCACCTTGACCGACACCATGACACCTCAACACAGCCTACA
 CTACCTGGTGGGCTGTATCCTCAGTGTGTTCTGGTCTCATATACTTGTACCTCACCCCTTGGCGTGTG
 CTGGTGTGCGGGGTGGAGAAACCTTCCAGCCACCAAGGAGATAGCCTCAGCTCTTCTATGCTCAGTACC
 ACACCCAACCACGACCCTATGGCTGGTGGGACAAAGATGATGGTTTTGACCGCGGGTGGCCTTCTGG
 AACCTGTGGACCGGGCAGGGTCAAAATGGCAAACCTCAAGCCAGGCAACACTCTGCCGGTGCCTGAAGC
 TACAGGCAAGGGCCAACGGAGGATGTCCGATCCAGAGTCGGTCAGCTCGGTCTTTCTGATACCCATT
 GTGGT**GTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_146137

Insert Size: 1479 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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_146137.3 , NP_666249.2
RefSeq Size:	5586 bp
RefSeq ORF:	1479 bp
Locus ID:	229715
UniProt ID:	Q80ZD8
Cytogenetics:	3 F2.3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>