

## Product datasheet for **MG207877**

### Amigo1 (NM\_146137) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Amigo1 (NM_146137) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Amigo1
Synonyms:	ali2; Amigo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG207877 representing NM\_146137  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAACCCAGCGTGACCTGCGAGGCCTCTGGCTCCTGTGCTCCTCGTGTTCCTGCTTCTTTGAGG  
 TAGCCAGGGCCGCCGATCTGTGGTTAGTTGTCCGCCAACTGCCTGTGCGCCAGCAACATCCTCAGCTG  
 CTCCAAGCAGCAGCTGCCAATGTGCCCAATCTTTGCCAGCTACACAGCACTGCTGGACCTCAGCCAC  
 AACAACTTGAGCAGGCTGCGGGCCGAGTGGACCCCAACCGGCTGACCAACCTGCACTCCCTGCTGCTGA  
 GCCACAACCACCTGAACCTCATCTCCTCCGAGGCCTTCGTCCTCCGTAACCAACCTTAGGTAAGTGGACCT  
 CTCCTCAACCATCTTACACGCTGGATGAGTTCCTGTTGAGCGACCTGCAGGCGCTGGAAGTGTGTTG  
 CTCTACAATAACACATTGTGGTGGTGGACCGAATGCCTTTGAGGACATGGCCAGCTGCAGAACTCT  
 ACTTAAGCCAGAATCAGATCTCTCGCTTTCCTGTGGAAGTCAAGGATGGGAACAAATACCCAACT  
 GATGCTCTTGATCTGTCTCCAACAAGCTGAAGAAGTGGCCCTGACTGACCTGCAGAAATGCCAGCC  
 TGGGTCAAGAATGGGCTATACCTGCATAACAACCCCTTGAGTGGGACTGCAAGCTCTACCGACTCTTTT  
 CGCACTGGCAGTACCGGCAGCTGAGCTCTGTGATGGACTTCCAGGAGGACCTGTACTGCATGCACTCCAA  
 GAAGCTGCACAACATCTTCAGCCTGGATTTCTCAATTGCAGCGAGTACAAGGAAAGTGCCTGGGAGGCT  
 CACCTGGGAGACACCTTGACCATCAGGTGTGACACCAACAGCAAGGCATGACCAAAAGTGGGTGTCCC  
 CAAGCAATGAACAGGTGCTAAGTCAAGGGTCCAATGGCTCGGTGAGCGTGAAGGATGGCGACCTTTTTTT  
 TAAAAGGTGCAGGTGAGGATGGGGTGTGTATACCTGTTACGCCATGGGGGAGACTTTCAACGAGACA  
 CTGTCTGTGGAGTTGAAAGTGTAACTTACCTTGCACGGACACCATGACACCTCAACACAGCCTACA  
 CTACCTGGTGGGCTGTATCCTCAGTGTGGTTCCTGGTCCATATACTTGTACCTCACCCCTTGGCGTG  
 CTGGTGTGGGGTGTGGAGAACCTTCCAGCCACCAAGGAGATAGCCTCAGCTCTTCTATGCTCAGTACC  
 ACACCAACCACGACCCTATGGCTGGTGGGACAAAGATGATGGTTTTGACCGCGGGTGGCCTTCTGG  
 AACCTGTGGACCGGGCAGGTCAAAATGGCAAACCTCAAGCCAGGCAACACTCTGCCGGTGGCCGAAGC  
 TACAGGCAAGGGCCAACGGAGGATGTCCGATCCAGAGTCGGTCAGCTCGGTCTTTTCTGATACCCATT  
 GTGGTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207877 representing NM\_146137  
 Red=Cloning site Green=Tags(s)

MQPQDLRGLWLLLLSVFLLLFEVARAGRSVVSPPANCLCASNILSCSKQQLPNVPQSLPSYTLALLDLSH  
 NNL SRLRAEWTPTRL TNLHSLLLSHNHLNFISSEAFVVPVNLRYLDLSSNHLHTLDEFLLFSDLQALEVLL  
 LYNNHIVVVDNRNFAFEDMAQLQKLYLSQNQISRFVVELIKDGNKLPKMLLDLSSNKLKLLPLTDLQKLP  
 WVKNGLYLHNNPLECDCKLYQLFSHWQYRQLSSVMDFQEDLYCMHSHKLNHIFSLDFNCSEYKESAWEA  
 HLGDTLTIRCDTKQQGMTKVWVSPSNEQVLSQGSNGSVSVRNGDLFFKKVQVEDGGVYTCYAMGETFNET  
 LSVELKVYNTLHGHHDTLNTAYTTLVGCILSVVLVLIYLYLTPCRCWCRGVEKPSHQGDSLSSMLST  
 TPNHDPMAGGDKDDGFDRRVAFLPAGPGQGQNGKLPKPGNTLPVPEATGKGQRRMSDPESVSSVSDTPI  
 VV

**TRTRPLE** – GFP Tag – V

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1836\\_a05.zip](https://cdn.origene.com/chromatograms/ja1836_a05.zip)

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_146137

**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](mailto: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.

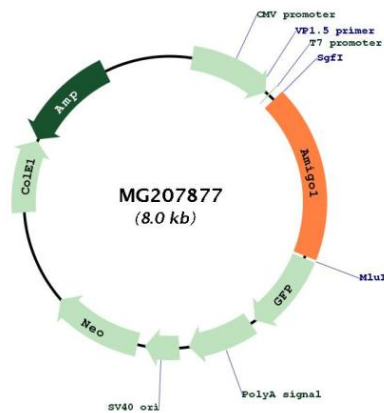
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_146137.3, NP\\_666249.2](#)  
**RefSeq Size:** 5051 bp  
**RefSeq ORF:** 1479 bp  
**Locus ID:** 229715  
**UniProt ID:** [Q80ZD8](#)  
**Cytogenetics:** 3 F2.3

**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 MG207877