

## Product datasheet for **RN214764**

### Amigo1 (NM\_206881) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Amigo1 (NM_206881) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Amigo1
Synonyms:	Amigo
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN214764 representing NM\_206881  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAACCCAGCGTGACCTGCGAGGCCTCTGGCTCCTGTGCTCTCCTTGTTCCTGCTTCTCTTTGAGG  
 TAGCTAGGGCAGGCCGACCTGTGGTCAGTTGTCCCGCAATTGCCTGTGCGCCAGCAACATCCTCAGCTG  
 CTCCAAGCAGCAGCTACCCAATGTGCCCAATCTTTGCCGGGCTACACAGCGCTACTGGACCTCAGCCAC  
 AACAACTTGAGCCGGCTGAAGGCTGAGTGGACCCCAACCGTCTGACCAACCTGCACTCCCTGCTGCTGA  
 GCCACAACCACCTGAACCTCATCTCCTCTGAGGCCTTCGTCGCGTACCAACCTTCGGTACCTGGACCT  
 CTCCTCAACCATCTTCACACGCTGGATGAGTTCCTGTTCCAGCGGCTGCAGGCACTGGAAGTGTGCTG  
 CTCTACAATAACACATTGTGGTGGTGGACCGGAATGCCTTCGAGGACATGGCCAGCTGCAGAACTCT  
 ACCTAAGCCAGAATATGATCTCTCGATTTCTCTGGAAGTCAAGGATGCAAACAGATTACCCAACT  
 AACGCTCTGGATCTGTCTCCAACAAGCTGAAGAAGTTGCCCTGACTGACCTGCAGAAATTGCCAGCC  
 TGGGTCAAGAATGGGCTGTACCTGCATAACAACCCCTGGAGTGTGACTGCAAGCTCTACCAGCTCTTTT  
 CACACTGGCAGTACCGGCAGCTGAGTTCCTGTGATGGACTTCCAGGAGGATCTGTATTGCGTGCACCTCAA  
 GAAGCTGCATAACGTCTTCAGTCTGGATTTCTCAATTGCAGCGAGTACAAGGAAAGTGCCTGGGAGGCT  
 CACCTGGGAGACACCTTGACCATCACGTGCGATACCAACAGCAAGGGATGACCAAAGTGTGGGTGACCC  
 CAAGCAATGAGCAGGTGCTAAACCAGGGGGCAATGGCACGGTGACCGTGTCCGAGGATGGCAACCTTCA  
 TTTTAAAGAGGTGAGGTTGAGGATGGGGGTGTGTATACCTGCTATGCCATGGGGGAGACTTTCAACGAA  
 AACTGTCTGTGGAGTTGAAAGTGTATAACTTCACCTGCACGGACACCATGACACCTCAACACAGCCT  
 ATACTACCTGGTGGGCTGCATCCTCAGTGTGGTCTGGTCTCATATACTTGTACCTCACACCTTGCCG  
 CTGCTGGTGGCGGGGTGTGGAGAAGCCTTCCAGCCATCAAGGAGATAGCCTCAGCTCTTCTATGCTCAGT  
 ACCACACCAACCATGACCTATGGCTGGTGGGACAAAGATGATGGTTTTGACCGGCGGGTGGCCCTCC  
 TGGAACCTGCTGGACAGGGCAGGGTCAAATGGCAAACCTCAAGCCAGGCAACACTCTGCCGGTGGCCGA  
 GGCAACAGGCAAGGGCAACGGAGGATGTCAGATCCAGAGTCGGTCAGCTCGGTCTTTTCTGATACACC  
 ATTGTGGT**GTA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_206881

**Insert Size:** 1482 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_206881.1](#), [NP\\_996764.1](#)

**RefSeq Size:** 1482 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 295365

**UniProt ID:** [Q80ZD7](#)

**Cytogenetics:** 2q34

**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 (PubMed:12629050). Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1 (By similarity).[UniProtKB/Swiss-Prot Function]