

Product datasheet for **RR214764**

Amigo1 (NM_206881) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR214764 representing NM_206881
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAACCCAGCGTGACCTGCGAGGCCTCTGGCTCTGTGCTCTCCTTGTTCCTGCTTCTTTGAGG
 TAGCTAGGGCAGGCCGACCTGTGGTCAGTTGTCCCGCAATTGCCTGTGCGCCAGCAACATCCTCAGCTG
 CTCCAAGCAGCAGCTACCAATGTGCCCAATCTTTGCCGGGCTACACAGCGCTACTGGACCTCAGCCAC
 AACAACTTGAGCCGGCTGAAGGCTGAGTGGACCCACCCGCTCTGACCAACCTGCACTCCCTGCTGCTGA
 GCCACAACCACCTGAACCTCATCTCCTCTGAGGCCTTCGTCGCGTACCAACCTTCGGTACCTGGACCT
 CTCCTCAACCATCTTACACGCTGGATGAGTTCCTGTTGAGCGGCTGCAGGCACTGGAAGTGTGCTG
 CTCTACAATAACCACATTGTGGTGGTGGACCGAATGCCTTCGAGGACATGGCCAGCTGCAGAACTCT
 ACCTAAGCCAGAATATGATCTCTCGATTTCTCTGGAAGTATCAAGGATGCAAACAGATTACCCAACT
 AACGCTCTGGATCTGTCTCCAACAAGCTGAAGAAGTTGCCCTGACTGACCTGCAGAAATTGCCAGCC
 TGGGTCAAGAATGGGCTGTACCTGCATAACAACCCCTGGAGTGTGACTGCAAGCTCTACCGACTCTTTT
 CACACTGGCAGTACCGGAGCTGAGTTCCTGTGATGGACTTCCAGGAGGATCTGTATTGCGTGCACCTCAA
 GAAGCTGCATAACGTCTTCAGTCTGGATTTCTCAATTGCAGCGAGTACAAGGAAAGTGCCTGGGAGGCT
 CACCTGGGAGACACCTTGACCATCACGTGCGATACCAAACAGCAAGGGATGACCAAAGTGTGGGTGACCC
 CAAGCAATGAGCAGGTGCTAAACCAGGGGGCAATGGCACGGTACCCTGTCCGAGGATGGCAACCTTCA
 TTTTAAAGAGGTGACGGTTGAGGATGGGGGTGTGTATACCTGCTATGCCATGGGGGAGACTTTCAACGAA
 AACTGTCTGTGGAGTTGAAAGTGTATAACTTACCTTGCACGGACACCATGACACCCTCAACACAGCCT
 ATACTACCTGGTGGGCTGCATCCTCAGTGTGGTCTGCTCCTCATATACTTGTACCTCACACCTTGCCG
 CTGCTGGTGGCGGGTGTGGAGAAGCCTTCCAGCCATCAAGGAGATAGCCTCAGCTCTTCTATGCTCAGT
 ACCACACCAACCATGACCCTATGGCTGGTGGGACAAAGATGATGGTTTTGACCGGCGGGTGGCCTTCC
 TGGAACTGCTGGACCAGGGCAGGGTCAAATGGCAAACCTCAAGCCAGGCAACACTCTGCCGGTGGCCGA
 GGCAACAGGCAAGGGCAACGGAGGATGTCAGATCCAGAGTCGGTACGCTCGGTCTTTTCTGATACACC
 ATTGTGGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214764 representing NM_206881
 Red=Cloning site Green=Tags(s)

MQPQRDLRGLWLLLLSLFLLLFEVARAGRPVVSCPANCLCASNILSCSKQQLPNVPQSLPGYTALLDLSH
 NNL SRLKAEWTPTRL TNLHSLLLSHNHLNFISSEAFVVPNLRVLDLSSNHLHTLDEF LFSGLQALEVLL
 LYNNHIVVDRNAFEDMAQLQKLYLSQNMISRFPLELIKDANRLPKLTLDLSSNKLKKLPLTDLQKLP
 WVKNGLYLHNNPLECDCKLYQLFSHWQYRQLSSVMDFQEDLYCVHSHKLNHVFSLDFNCSEYKESAWEA
 HLGDTLITCDTKQQGMTKVWVTPSNEQVLNQGANGTVTVSEDNLHFKEVQVEDGGVYTCYAMGETFNE
 TLSVELKYVNF TLHGHD LNTAYTTLVGCILSVVLVLIYLYLTPCRCWCRGVEKPPSSHQDLS SSMLS
 TTPNHDPMAGGDKDDGFDRRVAFLPAGPGQGNGKLPKGNLTPVPEATGKGQRMSDPESVSSVFS DTP
 IVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

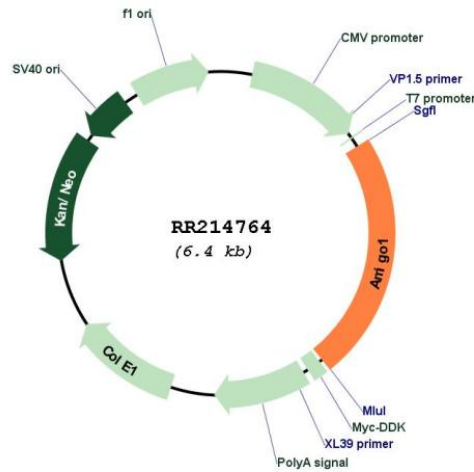
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_206881

ORF Size: 1479 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_206881.1](#), [NP_996764.1](#)

RefSeq Size: 1482 bp

RefSeq ORF: 1482 bp

Locus ID: 295365

UniProt ID: [Q80ZD7](#)

Cytogenetics: 2q34

MW: 55.3 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 (PubMed:12629050). Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1 (By similarity).[UniProtKB/Swiss-Prot Function]