

Product datasheet for **RG208151**

AMIGO1 (NM_020703) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMIGO1 (NM_020703) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMIGO1
Synonyms:	ALI2; AMIGO; AMIGO-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG208151 representing NM_020703
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACCCACCGTGACCCGAGAGGCCTCTGGCTCCTGTGCCCTCTGTCCCTGCTGCTTTTTGAGG
 TGGCCAGAGCTGGCCGAGCCGTTAGCTGTCTGCGCCTGCTTGTGCGCCAGCAACATCCTCAGCTG
 CTCCAAGCAGCAGCTGCCAATGTGCCCATTCCTGCCCAGTTACACAGCACTACTGGACCTCAGTCAC
 AACAACTGAGCCGCTGCGGGCCGAGTGGACCCACGCGCCTGACCAACTGCACTCCCTGCTGCTGA
 GCCACAACCACCTGAACCTCATCTCTCTGAGGCCTTTTCCCGGTACCAACTGCGCTACCTGGACCT
 CTCCTCAACCAGCTGCGTACACTGGATGAGTTCCTGTTCACTGACCTGCAAGTACTGGAGGTGCTGCTG
 CTCTACAATAACCACATCATGGCGGTGGACCGGTGCGCCTTCGATGACATGGCCAGCTGCAGAACTCT
 ACTTGAGCCAGAACCAGATCTCTCGTTCCCTCTGGAAGTGGTCAAGGAAGGAGCAAGCTACCCAACT
 AACGCTCCTGGATCTCTTCTAACAAGCTGAAGAACTGCCATTGCCTGACCTGCAGAAGCTGCCGGCC
 TGGATCAAGAATGGGCTGTACCTACATAACAACCCCTGAACTGCGACTGTGAGCTCTACCAGCTGTTTT
 CACACTGGCAGTATCGGCAGCTGAGCTCCGTGATGGACTTTCAAGAGGATCTGTACTGCATGAACTCCA
 GAAGCTGCACAATGTCTTCAACCTGAGTTTCTCAACTGTGGCGAGTACAAGGAGCGTGCCTGGGAGGCC
 CACCTGGGTGACACCTTGATCATCAAGTGTGACACCAAGCAGCAAGGGATGACCAAGGTGTGGGTGACAC
 CAAGTAATGAACGGGTGCTAGTAGAGGTGACCAATGGCACAGTGAAGTGTCTAAGGATGGCAGTCTTCT
 TTTCCAGCAGGTGCAAGTGCAGGACGGTGGTGTATACCTGCTATGCCATGGGAGAGACTTTCAATGAG
 AACTGTCTGTGGAATTGAAAGTGCACAATTTACCTTGCACGGACACCATGACACCTCAACACAGCCT
 ATACCCTAGTGGGCTGTATCCTTAGTGTGGTCTGCTCATATACCTATACCTACCCCTTGCCG
 CTGCTGGTGCAGGGGTAGAGAAGCCTTCCAGCCATCAAGGAGACAGCCTCAGCTCTTCCATGCTTAGT
 ACCACACCAACCATGATCCTATGGCTGGTGGGACAAAGATGATGGTTTTGACCGGCGGGTGGTTTTCC
 TGGAACTGCTGGACCTGGGAGGGTCAAAGCGGCAAGCTCAAGCCAGGCAACACCCTGCCAGTGCCTGA
 GGCCACAGGCAAGGGCAACGGAGGATGTCGGATCCAGAATCAGTCAGCTCGGTCTTCTGATACGCC
 ATTGTGGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208151 representing NM_020703
 Red=Cloning site Green=Tags(s)

MHPHRDPRGLWLLPSLSLLFEVARAGRAVVSPPAACLCASNILSCSKQQLPNVPHSLPSYTLALLDLSH
 NNL SRLRAEWTPTRLTQLHSLLLSHNHLNFISSEAFSPVFNLRYLDLSSNQLRTLDEFLLFSDLQVLEVLL
 LYNNHIMAVDRCAFDDMAQLQKLYLSQNQISRFPLELVKEGAKLPKLTLLDLSSNKLKNLPLPDLQKLP
 WIKNGLYLHNNPLNCDCELYQLFSHWYRQLSSVMDFQEDLYCMNSKKLHNVNLSFLNCGEYKERAWEA
 HLGDTLIIKCDTKQQGMTKVWVTPSNERVLDEVTNGTVSVSKDGSLLFQQVQVEDGGVYTCYAMGETFNE
 TLSVELKVHNFLLHGHDTLNTAYTTLVGCILSVVLVLIYLYLTPCRCWCRGVEKPSHSHQDLSLSSMLS
 TTPNHDPMAGGDKDDGFDRRVAFLEPAGPGQGQSGKLPKPGNTLPVPEATGKGQRRMSDPESVSSVFS
 SDTP
 IVV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_020703

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_020703.1](#), [NP_065754.1](#)

RefSeq Size: 2469 bp

RefSeq ORF: 1482 bp

Locus ID: 57463

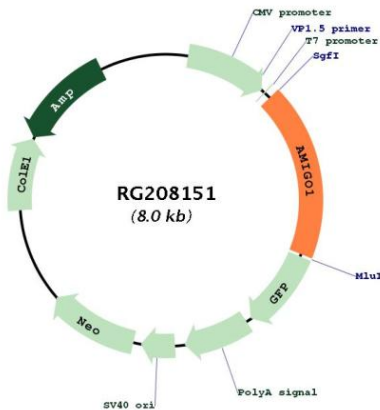
UniProt ID: [Q86WK6](#)

Cytogenetics: 1p13.3

Protein Families: Transmembrane

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. Assembled with KCNB1 modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208151