

Product datasheet for **RG208004**

AMIGO2 (NM_181847) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMIGO2 (NM_181847) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMIGO2
Synonyms:	ALI1; AMIGO-2; DEGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208004 representing NM_181847
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTTACGTGTACACTCTGCCACCTGCTGGAGCCGTCGTAGACCGGGTGCAGGGAGCTGC
 TGTGTTTGTGATGATCACAGTACTGTGGCCCTGGTGCTCTGGGGTGTGCCACCCTGGATCTG
 TGCCACTGACATCGTCAGCTGCACCAACAAAACTGTCCAAGGTGCTGGGAACCTTTTCAGACTGATT
 AAGAGACTGGACCTGAGTTATAACAGAATTGGGCTTCTGGATTCTGAGTGGATTCCAGTATCGTTTGCAA
 AGCTGAACACCCTAATTCTTCGCATAACAACATCACCAGCATTCCACGGGCAGTTTTCCACAACCTC
 AAATTTGAAGTGTCTTGACTTATCGTCCAATAAGCTGAAGACGGTAAAAATGCTGTATTCCAAGAGTTG
 AAGTTTCTGGAAGTGTCTGCTTTACAACAATCACATATCCTATCTCGATCCTTCAGCGTTTGGAGGGC
 TCTCCAGTTGCAGAACTCTACTTAAGTGAAATTTCTCACACAGTTCCGATGGATTGTATGTTGG
 AAGTTCAAGCTGGCAGAACTGATGTTTTAGATGTTTCTATAACCGAATTCCTCCATGCCAATGCAC
 CACATAAATTTAGTGCCAGGAAAACAGCTGAGAGGCATCTACCTTCATGAAACCCATTTGTCTGTGACT
 GTTCCCTGACTCCTTGCTGGTCTTTTGGTATCGTAGGCACTTTAGCTCAGTGTGGATTTAAGAACGA
 TTACACCTGTCGCCTGTGGTCTGACTCCAGGCACTCGCGTCAGGTAATTCGCTCCAGGATAGCTTTATG
 AATTGCTCTGACAGCATCAATGGTTCCTTCGTGCGCTTGGCTTTATTCATGAGGCTCAGGTCGGGG
 AAAGACTGATGGTCCACTGTGACAGCAAGACAGGTAATGCAAATACGGATTTTCATCTGGTGGTCCAGA
 TAACAGACTGCTAGAGCCGGATAAAGAGATGAAAACTTTACGTGTTTCAATGGAAGTCTGGTTATA
 GAAAGCCCTCGTTTTGAGGATGCTGGAGTGTATCTTGTATCGCAATGAATAAGCAACGCCTGTTAAATG
 AAATCTGGGACGTCACAATAAATGTGAGCAATTCAGTGAAGCAGATCCCATGCTCAGGCAATTTAA
 CACAGCTTTTACCACTCTTGTGCTTGGCGTGGCCAGTATCGTTTTGGTACTTTTGTACCTCTATCTGACT
 CCATGCCCTGCAAGTGTAAAACCAAGAGACAGAAAAATATGCTACACCAAGCAATGCCATTCATCGA
 TTCTCAGTCTGGCCCTGCTAGTGTGCTCCGCTGATGAACGGAAGGCAGGTGCAGGTAAGAGTGGT
 GTTTTTGGAACCCCTGAAGGATACTGCAGCAGGGCAGAACGGGAAAGTCAGGCTCTTTCCAGCGAGGCA
 GTGATAGCTGAGGGCATCTAAAGTCCACGAGGGGAAATCTGACTCAGATTCAATTCAGTGT
 CTGACACACCTTTTGTGGCTCCACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208004 representing NM_181847
 Red=Cloning site Green=Tags(s)

MSLRVHTLPTLLGAVVRPGCRELLCLLMITVTVGPGASGVCPTACICATDIVSCTNKNLSKVPGNLFRLI
 KRLDLSYNRIGLLDSEWIPVSFAKLNTLILRHNNITSISTGSFSTPNLKCLDLSSNKLKTVKNAVFQEL
 KVLEVLLLYNNHISYLDPSAFGGLSQLQKLYLSGNFLTQFPMDLYVGRFKLAELMFLDVSYNRIP SMPMH
 HINLVPKQLRGIYLGHPFVDCSLYSLLVFWYRRHFSVMDFKNDYTCRLWSDSRHSRQVLLQLQDSFM
 NCSDSIINGSFRALGFIHEAQVGERLMVHCDSKTNANTDFIWVGPDNRLLLEPKEMENFYVFHNGSLVI
 ESPRFEDAGVYSCIAMNKQRLLNETVDVTINVSNFTVSRSHAHEAFNTAF TTTAACVASIVLVLLYLYLT
 PCPCKCKTKRQKNMLHQSNHSSILSPGPASDASADERKAGAKRNVFLEPLKDTAAGQNGKVRLEPSEA
 VIAEGLKSTRGKSDSDSVNSVSDTPFVAST

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_181847

ORF Size: 1566 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_181847.1](#)

RefSeq Size: 3769 bp

RefSeq ORF: 1569 bp

Locus ID: 347902

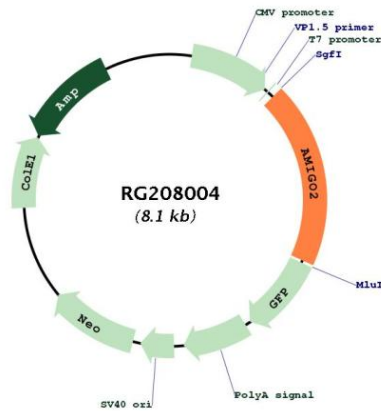
UniProt ID: [Q86SJ2](#)

Cytogenetics: 12q13.11

Protein Families: Druggable Genome, Transmembrane

Gene Summary: Required for depolarization-dependent survival of cultured cerebellar granule neurons. May mediate homophilic as well as heterophilic cell-cell interaction with AMIGO1 or AMIGO3. May contribute to signal transduction through its intracellular domain. May be required for tumorigenesis of a subset of gastric adenocarcinomas.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208004