

Product datasheet for **RC227654**

AMIGO2 (NM_001143668) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMIGO2 (NM_001143668) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMIGO2
Synonyms:	ALI1; AMIGO-2; DEGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227654 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGTTACGTGTACACTCTGCCACCTGCTGGAGCCGTCGTAGACCGGGTGCAGGGAGCTGC
 TGTGTTTGTGATGATCACAGTACTGTGGCCCTGGTGCTCTGGGGTGTGCCACCCTGGCATCTG
 TGCCACTGACATCGTCAGCTGCACCAACAAAACTGTCCAAGGTGCTGGGAACCTTTTCAGACTGATT
 AAGAGACTGGACCTGAGTTATAACAGAATTGGGCTTCTGGATTCTGAGTGGATTCCAGTATCGTTTGCAA
 AGCTGAACACCCTAATTCTTCGCATAACAACATCACCAGCATTCCACGGGCAGTTTTCCACAACCTCC
 AAATTTGAAGTGTCTTGACTTATCGTCCAATAAGCTGAAGACGGTGAAAAATGCTGTATTCCAAGAGTTG
 AAGTTCTGGAAGTGTCTGCTTTACAACAATCACATATCCTATCTCGATCCTTCAGCGTTTGGAGGGC
 TCTCCAGTTGCAGAACTCTACTTAAGTGAAATTTCTCACACAGTTCCGATGGATTGTATGTTGG
 AAGTTCAAGCTGGCAGAACTGATGTTTTAGATGTTTCTATAACCGAATTCCTCCATGCCAATGCAC
 CACATAAATTTAGTGCCAGGAAAACAGCTGAGAGGCATCTACCTTCATGGAAACCCATTTGTCTGTGACT
 GTTCCCTGACTCCTTGCTGGTCTTTGGTATCGTAGGCACTTTAGCTCAGTGTGGATTTAAGAACGA
 TTACACCTGTGCGCTGTGGTCTGACTCCAGGCACTCGCGTCAGGTAATTCGCTCCAGGATAGCTTTATG
 AATTGCTCTGACAGCATCAATGGTTCCTTCGTGCGCTTGGCTTTATTCATGAGGCTCAGGTCGGGG
 AAAGACTGATGGTCCACTGTGACAGCAAGACAGGTAATGCAAATACGGATTTTCATCTGGTGGTCCAGA
 TAACAGACTGCTAGAGCCGGATAAAGAGATGAAAACTTTACGTGTTTCAATGGAAGTCTGGTTATA
 GAAAGCCCTCGTTTTGAGGATGCTGGAGTGTATCTTGTATCGCAATGAATAAGCAACGCCTGTTAAATG
 AAAGTGTGGACGTCACAATAAATGTGAGCAATTCAGTGAAGCAGATCCCATGTCATGAGGCATTAA
 CACAGCTTTTACCACTCTTGCTGCTTGGCGTGGCCAGTATCGTTTTGGTACTTTTGTACCTCTATCTGACT
 CCATGCCCTGCAAGTGTAAAACCAAGAGACAGAAAAATATGCTACACCAAGCAATGCCATTTCATCGA
 TTCTCAGTCTGGCCCGCTAGTGATGCCTCCGCTGATGAACGGAAGGCAGGTGCAGGTAAGAGTGGT
 GTTTTTGGAACCCCTGAAGGATACTGCAGCAGGGCAGAACGGGAAAGTCAGGCTCTTTCCAGCGAGGCA
 GTGATAGCTGAGGGCATCCTAAGTCCACGAGGGGAAATCTGACTCAGATTCAATTCAGTGT
 CTGACACACCTTTTGTGGCTCCACT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227654 protein sequence
 Red=Cloning site Green=Tags(s)

MSLRVHTLPTLLGAVVRPGCRELLCLLMIIVTVGPGASGVCPTACICATDIVSCTNKNLSKVPGNLFRLI
 KRLDLSYNRIGLLDSEWIPVSFAKLNTLILRHNNITISISTGSFSTPNLKCLDLSSNKLKTKVNAVFQEL
 KVLEVLNHNHISYLDPSAFGGLSQLKLYLSGNFLTQFPMDLYVGRFKLAELMFLDVSYNRIPSPMPH
 HINLVPKQLRGIYHGNPFVDCSLYLLVFYRRHFSSVMDFKNDYTCRLWSDSRHSRQVLLQLDSFM
 NCSDSIINGSFRALGFIHEAQVGERLMVHCDSKTNANTDFIIVGPDNRLLLEPKEMENFYVFNHSLVI
 ESPRFEDAGVYSIAMNKQRLNETVDVTINVSNTVSRSHAHEAFNTAFTTLAACVASIVLVLLYLYLT
 PCPCCKTKRQKNMLHQSNHSSILSPGPASDASADERKAGAGKRVVFLKPLKDTAAGQNGKVRVLPSEA
 VIAEGLKSTRGKSDSDSVNSVFSDFPFVAST

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6023_g05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001143668

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_001143668.1](#), [NP_001137140.1](#)

RefSeq Size: 3126 bp

RefSeq ORF: 1569 bp

Locus ID: 347902

UniProt ID: [Q86SJ2](#)

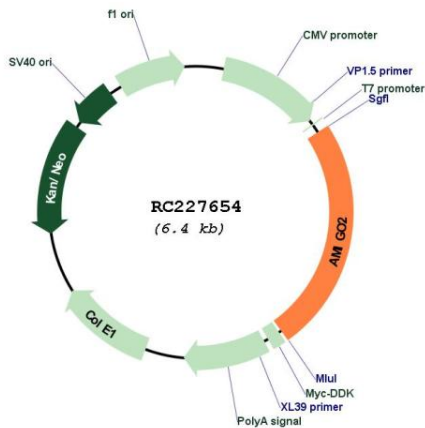
Cytogenetics: 12q13.11

Protein Families: Druggable Genome, Transmembrane

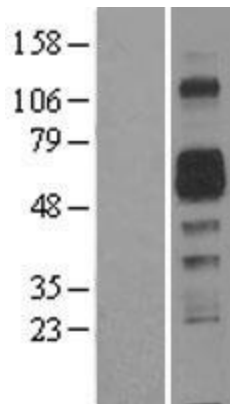
MW: 57.9 kDa

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 RC227654



Western blot validation of overexpression lysate (Cat# [LY428310]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227654 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).