

Product datasheet for **SC107346**

AMIGO2 (NM_181847) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMIGO2 (NM_181847) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMIGO2
Synonyms:	ALI1; AMIGO-2; DEGA
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181847, the custom clone sequence may differ by one or more nucleotides

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ATGTCGTTACGTGTACACACTCTGCCACCCTGCTTGGAGCCGTCGTCAGACCGGGCTGCAGGGAGCTGC
TGTGTTTGTGATGATCACAGTGACTGTGGCCCTGGTGCCTCTGGGGTGTGCCACCCTTGCATCTG
TGCCACTGACATCGTCAGCTGCACCAACAAAACCTGTCCAAGGTGCCTGGGAACCTTTTCAGACTGATT
AAGAGACTGGACCTGAGTTATAACAGAATTGGGCTTCTGGATTCTGAGTGGATTCCAGTATCGTTTGCAA
AGCTGAACACCCTAATTCTTCGCATAAACACATCACCAGCATTTCACGGGCAGTTTTCCACAACCTCC
AAATTTGAAGTGTCTTGACTTATCGTCCAATAAGCTGAAGACGGTGAAAAATGCTGTATTCCAAGAGTTG
AAGGTTCTGGAAGTGCTTCTGCTTTACAACAATCACATATCCTATCTCGATCCTTCAGCGTTTGGAGGGC
TCTCCCAGTTGCAGAACTCTACTTAAGTGAAATTTTCTCACACAGTTCCGATGGATTGTATGTTGG
AAGGTTCAAGCTGGCAGAACTGATGTTTTAGATGTTTCTATAACCGAATTCCTTCCATGCCAATGCAC
CACATAAATTTAGTGCCAGGAAAACAGCTGAGAGGCATCTACCTTCATGGAAACCCATTTGTCTGTGACT
GTTCCCTGTACTCCTTGTGCTTTTGGTATCGTAGGCCTTTAGCTCAGTGTGGATTTAAGAACGA
TTACACCTGTGCCTGTGGTCTGACTCCAGGCCTCGCGTCAGGTACTTCTGCTCCAGGATAGCTTTATG
AATTGCTCTGACAGCATCAATGGTTTCCTTTCTGTCGCTTGGCTTTATTCATGAGGCTCAGGTCCGGG
AAAGACTGATGGTCCACTGTGACAGCAAGACAGGTAATGCAAATACGGATTTTCATCTGGGTGGGTCGAGA
TAACAGACTGCTAGAGCCGGATAAAGAGATGGAACCTTTTACGTGTTTACAATGGAAGCTGTTTATA
GAAAGCCCTCGTTTTGAGGATGCTGGAGTGATTCTTGTATCGCAATGAATAAGCAACGCCTGTTAAATG
AAACTGTGGACGTCACAATAAATGTGAGCAATTTCACTGTAAGCAGATCCCATGCTCATGAGGCATTTAA
CACAGCTTTTACCCTCTTGTGCTTGCCTGGCCAGTATCGTTTTGGTACTTTTGTACCTCTATCTGACT
CCATGCCCTGCAAGTGTAAAACCAAGAGACAGAAAAATATGCTACACCAAGCAATGCCATTTCATCGA
TTCTCAGTCTGGCCCCGCTAGTGATGCCTCCGCTGATGAACGGAAGGCAGGTGCAGGTAAGAGTGGT
GTTTTTGAACCCCTGAAGGATACTGCAGCAGGGCAGAACGGGAAAGTCAGGCTCTTTCCACGCGAGGCA
GTGATAGCTGAGGCATCCTAAAGTCCACGAGGGGAAATCTGACTCAGATTTCAGTCAATTCAGTGTCTT
CTGACACACCTTTTGTGGCTCCACTTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_181847 unedited
 AAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTGCCGCCGG
 GCTGCTTGAAACTCCTCAAAGTTGAGAGCCGGCTAGAGGGTGCCGCCCGCCGGGAGCCGG
 AGGGAAAGGAAGTCGGAAGGTGCAAGAGTGACAGACACGGACAGACGGACGCGCAGACCT
 TCGGAAGGCACCTGCGTAGGCAGCCTCCCCGGAGCCCACGAGGCTCCCCAGCACCGTTTAC
 TGGTGGGAGGCTGAGCCGGTGGAAAAGACACCGGAAGAGACTCAGAGGGCACCATAATG
 TCGTTACGTGTACACACTCTGCCACCCTGCTTGGAGCCGTCGACAGACCGGGCTGCAGG
 GAGCTGCTGTGTTTGTGATGATCACAGTGACTGTGGCCCTGGTGCCTCTGGGGTGTGC
 CCCACCCTTGCATCTGTGCCACTGACATCGTCAGCTGCACCAACAAAACTGTCCAAG
 GTGCCCTGGGAACCTTTTCAGACTGATTAAGAGACTGGACCTGAGTTATAACAGAATTGGG
 CTTCTGGATTCTGAGTGGATTCCAGTATCGTTTGCAAAGCTGACCACCCTAATTCTTCGT
 CATAACCACATCACCAACATTTCCCCGGGCCAGTTTTTCCACACTCCAAATTTGAAGTGT
 TTTGACTATCGTCCATAAGCTGAAGACTGTGAAAAATGCTGTATTCCAAAAAGTGAAGG
 CTCTGGAAGGGCCTTTTGTCTTACAACACTCACCTATCCCTATCTCGAACCTTCAACGGT
 TGGGAGCGCTCTCCAGATGGCAAACTTCTTTAGGGGAAAAATTTCTCTCAACCGTTT
 CGAAGGAATTGGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_181847 unedited
 AGNAAAGCACTGGGNAGGGTCACAGGGATGCCACCCGGTTCTGTTCAGGAAACAGCTA
 TGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCAAGTCACAGATTAC
 ATATATTTACATTAATTCAAATGTCCAAAGCACAGTACAGTAGGGTCTATTTAATAGTTC
 ACATAATTTAAGATTTACATATACACAAGCACATGAACCAATATTAGTTTGCTAGAACAG
 GGATTTAAGAAGTTACTCAGACATTTTGGTATTGACACTTACATATTTATGGCAACAAAT
 TATGATGACTTTAAATTTCAATGAGATCTTTGTACAAGAATACAGAATGGGAAGAATG
 TACAAAATGAAAAGACAGGCAAAACAAATGACTTTCCTTGCACTATTTCTATAACACCAT
 ATAGGATGTGGCATTATCCAGTACATTTATCAGTGTAGTCTATTCAATTCTGGTCTAAAA
 CGGTAATTTTGGCTGAATAACCCCAAACTAAGTTTGTCTTAGGCTTTATAATTAATTG
 ATGCTTGATTCTTTCTACATCTTTTAAAAATGAAATTGGACACTAGTGTCTTTCTTT
 AAAATAACTCTGGTACTAGTAAGTTAGCAAAGTCTATTTTAAAGGACACTAATACATAA
 AGTTTTATTTTTCTTTCAATATCCTAAATAAAGGGACAATGGGAGTCATATCACCTTTGG
 GCCTACTCTGAAATACCAATAGTGCTAAAAGCTAAGATATTGTGATCTAGAACTTAACT
 TTGGAAAACACCCCATCTTTTCTGCACATTGAGGACTGAATACTTTACCTCATTCTAC
 AATCATTTTAAGAGATTTGGTTGTATTA

Restriction Sites:

NotI-NotI

ACCN:

NM_181847

Insert Size:

3800 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:	<ol style="list-style-type: none">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:	<u>NM_181847.2</u> , <u>NP_862830.1</u>
RefSeq Size:	3769 bp
RefSeq ORF:	1569 bp
Locus ID:	347902
UniProt ID:	<u>Q86SJ2</u>
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] Transcript Variant: This variant (2) omits an alternate exon from the 5' UTR. The same protein is encoded by transcript variants 1-3.