

## Product datasheet for **SC325158**

### AMIGO2 (NM\_001143668) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMIGO2 (NM_001143668) Human Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >SC325158 representing NM\_001143668.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCGTTACGTGTACACACTCTGCCACCCTGCTTGGAGCCGTCGTGACACCGGGTGCAGGGAGCTG
CTGTGTTTGTGATGATCACAGTACTGTGGCCCTGGTGCCTCTGGGGTGTGCCACCCTTGCATC
TGTGCCACTGACATCGTCAGCTGCACCAACAAAACCTGTCCAAGTGCCTGGGAACCTTTTCAGACTG
ATTAAGAGACTGGACCTGAGTTATAACAGAATTGGGCTTCTGGATTCTGAGTGGATTCCAGTATCGTTT
GCAAAGCTGAACACCCTAATTCTTCGTCAACAAACATCACCAGCATTTCACGGGCAGTTTTCCACA
ACTCCAAATTTGAAGTGTCTTGACTTATCGTCCAATAAGCTGAAGACGGTAAAAATGCTGTATTCCAA
GAGTTGAAGGTTCTGGAAGTGTCTGCTTTACAACAATCACATATCCTATCTCGATCCTTCAGCGTTT
GGAGGGCTCTCCAGTTGCAGAACTCTACTTAAGTGGAAATTTCTCACACAGTTCCGATGGATTG
TATGTTGAAGGTTCAAGCTGGCAGAACTGATGTTTTAGATGTTTCTTATAACCGAATTCCTCCATG
CCAATGCACCACATAAATTTAGTGCCAGGAAAACAGCTGAGAGGCATCTACCTTCATGGAACCCATTT
GTCTGTGACTGTTCCCTGTACTCCTTGCTGGTCTTTTGGTATCGTAGGCATTTAGCTCAGTGGAT
TTAAGAACGATTACACCTGTCGCTGTGGTCTGACTCCAGGCATCGCGTCAGGTAATTCTGCTCCAG
GATAGCTTTATGAATTGCTCTGACAGCATCATCAATGGTTCCTTTTCGTGCGCTTGGCTTTATTCATGAG
GCTCAGGTCGGGAAAGACTGATGGTCCACTGTGACAGCAAGACAGGTAATGCAAAACGGATTTTCATC
TGGGTGGTCCAGATAACAGACTGCTAGAGCCGGATAAAGAGATGGAAAACCTTTACGTGTTTACAAT
GGAAGTCTGGTTATAGAAAGCCCTCGTTTTGAGGATGCTGGAGTATTCTTGTATCGCAATGAATAAG
CAACGCCTGTTAAATGAACTGTGGACGTCACAATAAATGTGAGCAATTTCACTGTAAGCAGATCCCAT
GCTCATGAGGCATTTAACACAGCTTTTACCCTTTGCTGCTTGGTGGCCAGTATCGTTTTGGTACTT
TTGTACCTCTATCTGACTCCATGCCCTGCAAGTGTAAAACCAAGACAGAAAAATATGCTACACCAA
AGCAATGCCCATTCATCGATTCTCAGTCTGGCCCGCTAGTGATGCCTCCGCTGATGAACGGAAGGCA
GGTGCAGGTAAGAGTGGTGTTTTTGGAACCCCTGAAGGATACTGCAGCAGGGCAGAACGGGAAAGTC
AGGCTCTTTCCAGCGAGGCAGTATAGCTGAGGCATCTAAAGTCCACGAGGGGAAATCTGACTCA
GATTTCAGTCAATTCAGTGTCTTCTGACACACCTTTTGTGGCTCCACTTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001143668

**Insert Size:** 1569 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001143668.1</a>
<b>RefSeq Size:</b>	3126 bp
<b>RefSeq ORF:</b>	1569 bp
<b>Locus ID:</b>	347902
<b>UniProt ID:</b>	<a href="#">Q86SJ2</a>
<b>Cytogenetics:</b>	12q13.11
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	57.9 kDa
<b>Gene Summary:</b>	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 (1) includes an alternate exon in the 5' UTR. The same protein is encoded by transcript variants 1-3.