

## Product datasheet for **SC324218**

### AMIGO1 (NM\_020703) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMIGO1 (NM_020703) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMIGO1
Synonyms:	ALI2; AMIGO; AMIGO-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_020703.1  
 CCGGCTCCCCGCACCGATCCGCGCCAGGCCTGCGGACCTGGAGGCAGCGACCGCGGTCCGG  
 TGGGCTCCGGCGGGCTCAGCGGTGAGGCGGTGGCAGGGTGAAGCGGAGCGGGGCCCGCA  
 AGTCCCCGGGAGGCGACGGTGCCGGGCGCGGGCCCTGCGTAAGGTGGGCGCAGTGACAG  
 GCCGGCCGGTGAAGCGCCCGGGAGAGGCCGCGACGGAGCTCCAGACCGGCCATGGGC  
 TGAGACACGTCTCGCCGAGCAGTGACCCTTCCGTACCCACCAGAACATGCCCGGTGA  
 CCTCTCCAGATCTTCTTGTGGCCTTCTCGCCCACTCCAGTGACACTATGCACCCCC  
 ACCGTGACCCGAGAGGCCTCTGGCTCTGCTGCGGTCCTTGTCCCTGCTGCTTTTTGAGG  
 TGGCCAGAGCTGGCCGAGCCGTGGTTAGCTGTCCTGCCGCTGCTTGTGCGCCAGCAACA  
 TCCTCAGCTGCTCCAAGCAGCAGCTGCCAATGTGCCCAATCCCTGCCAGTTACACAG  
 CACTACTGGACCTCAGTCACAACAACCTGAGCCGCTGCGGGCCGAGTGGACCCCAACGC  
 GCCTGACCAACTGCACTCCCTGCTGCTGAGCCACAACCACCTGAACTTCATCTCCTCTG  
 AGGCCTTTTCCCGGTACCAACCTGCGCTACCTGGACCTCTCCTCAACCAGCTGCGTA  
 CACTGGATGAGTTCCTGTTCACTGACCTGCAAGTACTGGAGGTGCTGCTGCTTACAATA  
 ACCACATCATGGCGGTGGACCGGTGCGCCTTCGATGACATGGCCAGCTGCAGAACTCT  
 ACTTGAGCCAGAACCAGATCTCTCGCTTCCCTCTGGAAGTGGTCAAGGAAGGAGCCAAGC  
 TACCCAAACTAACGCTCCTGGATCTCTTCTAACAAGCTGAAGAATTGCCATTGCCTG  
 ACCTGCAGAAGCTGCCGGCTGGATCAAGAATGGGCTGTACCTACATAACAACCCCTGA  
 ACTGCGACTGTGAGCTCTACCAGCTGTTTTCACTGGCAGTATCGGCAGCTGAGCTCCG  
 TGATGGACTTTCAAGAGGATCTGTACTGCATGAACTCCAAGAAGTGCACAATGTCTTCA  
 ACCTGAGTTTCTCAACTGTGGCGAGTACAAGGAGCGTGCCTGGGAGGCCACCTGGGTG  
 ACACCTTGATCATCAAGTGTGACACCAAGCAGCAAGGGATGACCAAGGTGTGGGTGACAC  
 CAAGTAAAGCGGGTGTAGATGAGGTGACCAATGGCACAGTGAAGTGTCTAAGGATG  
 GCAGTCTCTTTTCCAGCAGGTGCAAGTGCAGGTGAGGACGGTGGTGTGTATACCTGCTATGCCA  
 TGGGAGAGACTTTCAATGAGACTGTCTGTGGAATTGAAAGTGCACAATTTACCTTGC  
 ACGGACACCATGACACCCTCAACACAGCCTATACCACCCTAGTGGGCTGTATCCTTAGTG  
 TGGTCCTGGTCTCATATACCTATACCTCACCCCTTGCCGCTGCTGGTCCCGGGGTGAG  
 AGAAGCCTTCCAGCCATCAAGGAGACAGCCTCAGCTTCCATGCTTAGTACCACACCCA  
 ACCATGATCCTATGGCTGGTGGGACAAAGATGATGGTTTTGACCGGCGGGTGGCTTTCC  
 TGGAACCTGCTGGACCTGGCAGGGTCAAAGCGCAAGCTCAAGCCAGGCAACACCCTGC  
 CAGTGCCTGAGGCCACAGGCAAGGGCCAAACGGAGGATGTCGGATCCAGAATCAGTCAGCT  
 CGGTCTTCTCTGATACGCCCATTTGTTGGTGTGAGCAGGATGGGTTGGTGGGAGATTCTGC  
 CCCAGGAGAGGTAATGCACCCCTGAAGGATATGAGGGGATGGAAGAGAGGGCTGGCTGCC  
 CAAGGGAATGGATTCTCCTGACCTCAAGGGAATTGGTCCAGGTACAACAGAGAGCAAG  
 ACCCCAAACAGGGCGTGGCTGCCACGATTTTCAAATGGGGTATATTAATCCTCAGGCAA  
 ATGCTACACCCGTACCCAAAGCCCTGCCAATCTCAGTGTGGTAGAGGAAGAGAAGCATG  
 TCTGAGTTGGATGGGAATGAGGAAGGAGTGAAGGGAAGAAGAGATTCCCTAAACTTTCT  
 GAGGTCATCCCTAGCTCCTTAAGAGAAAAACATTTAGAAAAAAAATTTTTCTATCTCT  
 GCCCACCCACACTGTGATGTTGTGTGTTGGGGGAGCTTCCACAGGAGCCACACTGGG  
 GAAAAGCTGTAGTATCTTCTTTGTTTAGCAAGTCAAACCTCACAGCTGGGGAAGTTGAAA  
 ACCTTTGAAAAATGAGTCAGGAAAAGGCTGAGACCTCAATCGGTAACAATTCCCCAAAGC  
 TGTGTAAGACTTGCATTAAAGCCTTCTTTTTCTGAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAA

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_020703

**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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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_020703.1</a> , <a href="#">NP_065754.1</a>
<b>RefSeq Size:</b>	2469 bp
<b>RefSeq ORF:</b>	1482 bp
<b>Locus ID:</b>	57463
<b>UniProt ID:</b>	<a href="#">Q86WK6</a>
<b>Cytogenetics:</b>	1p13.3
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]