

## Product datasheet for **SC121804**

### 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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC121804 representing NM\_020703.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACCCCCACCGTGACCCGAGAGGCCCTCTGGCTCCTGCTGCCCTCTGTCCCTGCTGCTTTTTGAG
GTGGCCAGAGCTGGCCGAGCCGTGGTTAGCTGTCTGCTGCCGCTGCTTGTGGCCAGCAACATCCTCAGC
TGCTCCAAGCAGCAGCTGCCAATGTGCCCATTCCTTGCCAGTTACACAGCACTACTGGACCTCAGT
CACAACAACCTGAGCCGCTGCGGGCCGAGTGGACCCCAACGCGCCTGACCCAACCTGCACTCCCTGCTG
CTGAGCCACAACCACCTGAACTTCATCTCTCTGAGGCCTTTTCCCGGTACCCAACCTGCGCTACCTG
GACCTCTCCTCCAACCAGCTGCGTACACTGGATGAGTTCTGTTCACTGACCTGCAAGTACTGGAGGTG
CTGCTGCTCTACAATAACCACATCATGGCGGTGGACCGGTGCGCCTTCGATGACATGGCCAGCTGCAG
AAACTCTACTTGAGCCAGAACCAGATCTCTCGCTTCCCTCTGGAAGTGGTCAAGGAAGGAGCCAAGCTA
CCCAAATAACGCTCCTGGATCTCTCTTCTAACAAGCTGAAGAACTTGCCATTGCCTGACCTGCAGAAG
CTGCCGGCTGGATCAAGAAATGGGCTGTACCTACATAACAACCCCTGAACTGCGACTGTGAGCTCTAC
CAGCTGTTTTCACTGGCAGTATCGGCAGCTGAGCTCCGTGATGGACTTCAAGAGGATCTGTACTGC
ATGAACTCCAAGAAGCTGCAATGTCTTCAACCTGAGTTTCTCAACTGTGGCGAGTACAAGGAGCGT
GCCTGGGAGGCCACCTGGGTGACACCTTGATCATCAAGTGTGACACCAAGCAGCAAGGGATGACCAAG
GTGTGGGTGACACCAAGTAAAGAACGGGTGCTAGATGAGGTGACCAATGGCACAGTGAAGTGTCTAAG
GATGGCAGTCTTCTTTCCAGCAGGTGCAGGTGAGGACGGTGGTGTGTATACCTGCTATGCCATGGGA
GAGACTTCAATGAGACTGTCTGTGGAATTGAAAGTGCACAATTTACCTTGCACGGACACCATGAC
ACCCTCAACACAGCCTATACCACCCTAGTGGGCTGTATCCTTAGTGTGGTCTGGTCTCATATACCTA
TACCTACCCCTTGCCGCTGCTGGTGGCGGGGTAGAGAAGCCTCCAGCCATCAAGGAGACAGCCTC
AGCTCTTCCATGCTTAGTACCACACCAACCATGATCCTATGGCTGGTGGGACAAAGATGATGGTTTT
GACCGGGGGTGGCTTCTGGAACCTGCTGGACCTGGGACGGTCAAAACGGCAAGCTCAAGCCAGGC
AACACCCTGCCAGTGCCTGAGGCCACAGGCAAGGGCAACGGAGGATGTCGGATCCAGAATCAGTCAGC
TCGGTCTTCTCTGATACGCCATTGTGGTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3388\\_f08.zip](https://cdn.origene.com/chromatograms/ja3388_f08.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_020703

**Insert Size:** 1482 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:**

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\\_020703.2](#)

**RefSeq Size:** 2501 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 57463

**UniProt ID:** [Q86WK6](#)

**Cytogenetics:** 1p13.3

**Protein Families:** Transmembrane

**MW:** 55.2 kDa

**Gene Summary:** 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]