

## Product datasheet for **MC218522**

### **Amigo2 (NM\_001164602) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Amigo2 (NM_001164602) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Amigo2
Synonyms:	AI415330; Ali1; AMIGO-2; AW208913
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218522 representing NM\_001164602  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGTTAAGGTTCCACACACTGCCACCTGCCTAGAGCTGTCAAACCGGGTTCAGAGAGCTGCTGT  
 GTCTGTTGGTGATCGCAGTGATGGTGAGCCCCAGCGCCTCAGGAATGTGCCCCACTGCTTGATCTGTGC  
 CACCGACATTGTGAGCTGACCAACAACAACTATCTAAGGTGCCCGGGAACCTTTTCAGACTGATTA  
 AGACTGGATCTGAGCTATAACAGAATCGGACTGTTGGATGCCGACTGGATCCCGGTGTCGTTTGTCAAGC  
 TGAGCACCTTAATTCTTCGCCACAACAACATCACCAGCATCTCCACGGGAGTTTCTCCACAACCCAAA  
 TTTAAAGTGTCTGGACTTATCATCCAATAGGCTGAAGTCGGTAAAGAGTGCCACATTCCAAGAGCTGAAG  
 GCTCTGGAAGTACTGCTGCTGTACAACAACCACATTTCTATCTGGACCCCGCAGCGTTCGGGGGGCTTT  
 CCCACTGCAGAACTCTATCTGAGTGGAACTTTCTCACACAGTCCCTATGGATTTGTATACTGGGAG  
 GTTCAAGCTGGCTGATCTGACATTTTTAGATGTTTCTATAATCGAATCCCTTCCATACCGATGCACCAT  
 ATAAACTTAGTGCCGGGAGACAGCTGAGAGGCATCTACCTTACGGGAACCCATTTGTATGTGACTGTT  
 CTCTGACTCGTTGCTGATCTTTTGGTACCGTAGGCACCTTAGCTCCGTGATGGATTTAAGAATGACTA  
 TACCTGTCGCCTGTGGTCTGACTCCAGGCACTCCACAGCTGCAGCTGCTCCAGGAGAGCTTTCTGAAC  
 TGTTCTTACACGTTATCAACGGCTCCTTCCACGCACTTGGCTTTATCCACGAGGCTCAGTTGGGGAGA  
 GGGCGATCGTCCACTGTGACAGCAAGACTGGCAATGGAATACTGATTTTCATCTGGGTCGGTCCCGATAA  
 CAGGCTGCTGGAGCCAGATAAAGACATGGGGAACCTTCGTGTGTTTTACAACGGAAGTCTGGTCATAGAG  
 AACCTGGCTTTGAGGACGCCGGGTATATTCTTGATCGCAATGAACAGGCAGCGGCTGTTAAACGAGA  
 CGGTGGATATCATGATCAACGTGAGCAATTTACCATAAACAGATCCCACGCCACGAGGCGTAAACGAGA  
 GGCTTTACCACCCTGGCTGCCTGCGTGGCCAGTATAGTTCTAGTGCTACTGTATCTGTACCTGACGCCG  
 TGCCCATGCAAAATGCAAAGCCAAGAGACAGAAAAACACGCTGAGCCAAAGCAGTGCCCACTCGTCCATTC  
 TCAGTCTGGCCCCACTGGCGATGCCTCTGCTGACGATCGGAAGGCAGGTAAGAGAGTCTGTTTCTGGA  
 GCCCTGAAGGACACGGCGCCGGACAGAAATGGCAAAGTCAAGCTTTTCCCAGTGAGACCGTTATAGCC  
 GAGGGCATCTAAAGTCCACCAGGGCAAAGTCTGACTCAGACTCAGTCAATCCGTGTTCTCAGACACAC  
 CCTTTGTGGCATCCACT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001164602

**Insert Size:** 1560 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\\_001164602.1](#), [NP\\_001158074.1](#)

**RefSeq Size:** 2839 bp

**RefSeq ORF:** 1560 bp

**Locus ID:** 105827

**UniProt ID:** [Q80ZD9](#)

**Cytogenetics:** 15 F1

**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 (By similarity).

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.