

## Product datasheet for **MR215778**

### **Amigo2 (NM\_001164563) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Amigo2 (NM_001164563) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amigo2
Synonyms:	AI415330; Ali1; AMIGO-2; AW208913
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR215778 representing NM\_001164563  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCGTTAAGGTTCCACACACTGCCACCTGCCTAGAGCTGTCAAACCGGGTTCAGAGAGCTGCTGT  
 GTCTGTTGGTGATCGCAGTGATGGTGAGCCCCAGCGCCTCAGGAATGTGCCCCACTGCTTGATCTGTGC  
 CACCGACATTGTGAGCTGACCAACAACAACTATCTAAGGTGCCGGGAACCTTTTCAGACTGATTA  
 AGACTGGATCTGAGCTATAACAGAATCGGACTGTTGGATGCCGACTGGATCCCGGTGTCGTTTGTCAAGC  
 TGAGCACCTTAATTCTTCGCCACAACAACATCACCAGCATCTCCACGGGCAGTTTCTCCACAACCCAAA  
 TTTAAAGTGTCTGGACTTATCATCCAATAGGCTGAAGTCGGTAAAGAGTGCCACATTCCAAGAGCTGAAG  
 GCTCTGGAAGTACTGCTGCTGTACAACAACCACATTTCTATCTGGACCCCGCAGCGTTCGGGGGGCTTT  
 CCCACTGCAGAACTCTATCTGAGTGGAACTTTCTCACACAGTTCCTATGGATTTGTATACTGGGAG  
 GTTCAAGCTGGCTGATCTGACATTTTTAGATGTTTCTATAATCGAATCCCTTCCATACCGATGCACCAT  
 ATAAACTTAGTGCCGGGAGACAGCTGAGAGGCATCTACCTTACGGGAACCCATTTGTATGTGACTGTT  
 CTCTGACTCGTTGCTGATCTTTTGGTACCGTAGGCACTTTAGCTCCGTGATGGATTTAAGAATGACTA  
 TACCTGTCGCCTGTGGTCTGACTCCAGGCACTCCACAGCTGCAGCTGCTCCAGGAGAGCTTTCTGAAC  
 TGTTCACACGCTTATCAACGGCTCCTCCACGCACTTGGCTTTATCCACGAGGCTCAGGTTGGGGAGA  
 GGGCGATCGTCCACTGTGACAGCAAGACTGGCAATGGAATACTGATTTTCATCTGGTCCGGTCCCGATA  
 CAGGCTGCTGGAGCCAGATAAAGACATGGGAACTTTCTGTGTGTTTACAACGGAAGTCTGGTCATAGAG  
 AACCTGGCTTTGAGGACGCCGGGTATATTCTGTATCGCAATGAACAGGCAGCGGCTGTTAAACGAGA  
 CGGTGGATATCATGATCAACGTGAGCAATTTCCACATAAACAGATCCCACGCCACGAGGCGTAAACAC  
 GGCTTTTACCACCCTGGCTGCCTGCGTGGCCAGTATAGTTCTAGTGCTACTGTATCTGTACCTGACGCCG  
 TGCCCATGCAAAATGCAAAGCCAAGAGACAGAAAAACACGCTGAGCCAAAGCAGTGCCCACTCGTCCATTC  
 TCAGTCTGGCCCACTGGCGATGCCTCTGCTGACGATCGGAAGGCAGGTAAGAGAGTCTGTTTCTGGA  
 GCCCTGAAGGACACGGCGCCGGACAGAAATGGCAAAGTCAAGCTTTTCCCAGTGAGACCGTTATAGCC  
 GAGGGCATCTAAAGTCCACCAGGGCAAAGTCTGACTCAGACTCAGTCAATTCGTGTTCTCAGACACAC  
 CCTTTGTGGCATCCACT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR215778 representing NM\_001164563  
 Red=Cloning site Green=Tags(s)

MSLRFHTLPTLPRAVKPGCRELLCLLVIAVMVSPSASGMCPACICATDIVSCTNKNLSKVPGNLFRLIK  
 RLDLSYNRIGLLDADWIPVSFVKLSTLILRHNNITSISTGSFSTPNLKCLDLSSNRLKSVKSATFQELK  
 ALEVLLLYNNHISYLDPAAFGGLSHLQKLYL SGNFLTQFPMDLYTGRFKLADLTFLDVSYNRIPSIPMHH  
 INLVPGRQLRGIYLGHPFVDCSLYSLLIFWYRRHFSSVMDFKNDYTCRLWSDSRHSHQLQLLQESFLN  
 CSYSVINGSFHALGFIHEAQVGERAIVHCDKSTGNGNTDFI WVGPDRNLLLEPKDMGNFRVYNGSLVIE  
 NPGFEDAGVYSCIAMNRQRLNETVDIMINVSNTINRSHAHEAFNTAFTTLAACVASIVLVLVLYLTP  
 CPCKCKAKRQKNTLSQSSAHSSILSPGPTGDASADDRKAGKRVVLEPLKDTAAGQNGKVKLFPSETVIA  
 EGILKSTRAKSDSDSVNSVFSDFPFVAST

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001164563

**ORF Size:** 1557 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001164563.1](#), [NP\\_001158035.1](#)

**RefSeq Size:** 2871 bp

**RefSeq ORF:** 1560 bp

**Locus ID:** 105827

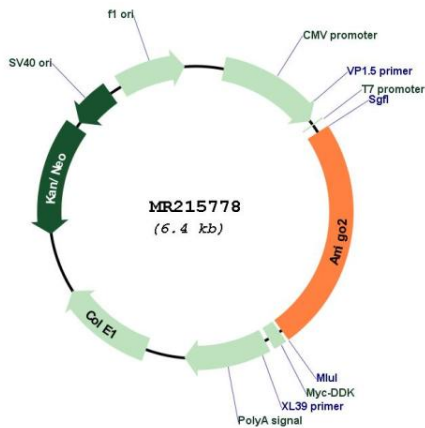
**UniProt ID:** [Q80ZD9](#)

**Cytogenetics:** 15 F1

**MW:** 57.6 kDa

**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]

**Product images:**



Circular map for MR215778