

Product datasheet for **MG217343**

Amigo2 (NM_178114) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amigo2 (NM_178114) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Amigo2
Synonyms:	AI415330; Ali1; AMIGO-2; AW208913
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG217343 representing NM_178114
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGTTAAGGTTCCACACACTGCCACCTGCCTAGAGCTGTCAAACCGGGTTCAGAGAGCTGCTGT
 GTCTGTTGGTGATCGCAGTGATGGTGAGCCCCAGCGCCTCAGGAATGTGCCCCACTGCTTGCATCTGTGC
 CACCGACATTGTGAGCTGCACCAACAAAACTATCTAAGGTGCCCGGGAACCTTTTCAGACTGATTA
 AGACTGGATCTGAGCTATAACAGAATCGGACTGTTGGATGCCGACTGGATCCCGGTGTCGTTTGTCAAGC
 TGAGCACCTTAATTCTTCGCCACAACAACATCACCAGCATCTCCACGGGCAGTTTCTCCACAACCCAAA
 TTTAAAGTGTCTGGACTTATCATCCAATAGGCTGAAGTCGGTAAAGAGTGCCACATTCCAAGAGCTGAAG
 GCTCTGGAAGTACTGCTGCTGTACAACAACCACATTTCTATCTGGACCCCGCAGCGTTCGGGGGGCTTT
 CCCACTTGCAGAACTCTATCTGAGTGGAACTTTCTCACACAGTTCCTATGGATTTGTATACTGGGAG
 GTTCAAGCTGGCTGATCTGACATTTTTAGATGTTTCTATAATCGAATCCCTTCCATACCGATGCACCAT
 ATAAACTTAGTGCCGGGAGACAGCTGAGAGGCATCTACCTTACGGGAACCCATTTGTATGTGACTGTT
 CTCTGACTCGTTGCTGATCTTTTGGTACCGTAGGCACTTTAGCTCCGTGATGGATTTAAGAATGACTA
 TACCTGTCGCCTGTGGTCTGACTCCAGGCACTCCACAGCTGCAGCTGCTCCAGGAGAGCTTTCTGAAC
 TGTTCACACGCTTATCAACGGCTCCTCCACGCACTTGGCTTTATCCACGAGGCTCAGGTTGGGGAGA
 GGGCGATCGTCCACTGTGACAGCAAGACTGGCAATGGAATACTGATTTTCATCTGGGTCGGTCCCGATA
 CAGGCTGCTGGAGCCAGATAAAGACATGGGAACTTTCTGTGTGTTTACAACGGAAGTCTGGTCATAGAG
 AACCTGGCTTTGAGGACGCCGGGTATATTCTGTATCGCAATGAACAGGACGGCTGTTAAACGAGA
 CGGTGATATCATGATCAACGTGAGCAATTTACCATAAACAGATCCCACGCCACGAGGCGTTAAACAC
 GGCTTTTACCACCTGGCTGCCTGCGTGGCCAGTATAGTTCTAGTGCTACTGTATCTGTACCTGACGCCG
 TGCCCATGCAAAATGCAAAGCCAAGACAGAAAAACACGCTGAGCCAAAGCAGTGCCTACTGCTCCATTC
 TCAGTCTGGCCCACTGGCGATGCCTCTGCTGACGATCGGAAGGCAGGTAAGAGTCTGTTTCTGGA
 GCCCTGAAGGACACGGCGCCGGACAGAAATGGCAAAGTCAAGCTTTTCCCAGTGAGACCGTTATAGCC
 GAGGGCATCTAAAGTCCACCAGGGCAAAGTCTGACTCAGACTCAGTCAATCCGTGTTCTCAGACACAC
 CCTTTGTGGCATCCACT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG217343 representing NM_178114
 Red=Cloning site Green=Tags(s)

MSLRFHTLPTLPRAVKPGCRELLCLLVIAMVSPSASGMCPACICATDIVSCTNKNLSKVPGNLFRLIK
 RLDLSYNRIGLLDADWIPVSFVKLSTLILRHNNITSIISTGFSSTPNLKLCLDLSSNRLKSVKSATFQELK
 ALEVLLLNNHISYLDPAAFGGLSHLQKLYLSGNFLTQFPMDLYTGRFKLADLTFDVSYNRIPSIPMH
 INLVPGRQLRGIYLGHPFVDCSLYSLLIWFYRRHFSVMDFKNDYTCRLWDSRSHQLQLLQESFLN
 CSYSVINGSFHALGFIHEAQVGERAIVHCDSKTGNGNTDFIWWGPDNRLLLEPKDMGNFRVYNGSLVIE
 NPGFEDAGVYSCIAMNRQRLNETVDIMINVSNTINRSHAHEAFNTAFTTLAACVASIVLVLLYLYLTP
 CPCKCKAKRQKNTLSQSSAHSSILSPGPTGDASADDRKAGKRVVLEPLKDTAAGQNGKVKLFPSETVIA
 EGILKSTRAKSDSDSVNSVFSDFPFVAST

TRTRPLE – GFP Tag – V

Restriction Sites:

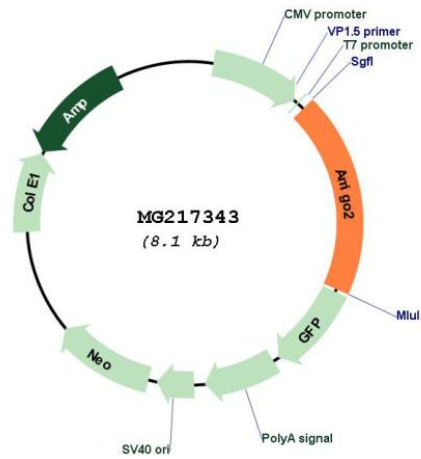
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_178114
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:	<ol style="list-style-type: none">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_178114.4 , NP_835215.1
RefSeq Size:	3214 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]