

Product datasheet for **RG227654**

AMIGO2 (NM_001143668) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMIGO2 (NM_001143668) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMIGO2
Synonyms:	ALI1; AMIGO-2; DEGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227654 representing NM_001143668
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGTTACGTGTACACTCTGCCACCTGCTTGGAGCCGTCGTAGACCGGGCTGCAGGGAGCTGC
 TGTGTTTGTGATGATCACAGTACTGTGGCCCTGGTGCTCTGGGGTGTGCCACCCTGGCATCTG
 TGCCACTGACATCGTCAGCTGCACCAACAAAACTGTCCAAGGTGCTGGGAACCTTTTCAGACTGATT
 AAGAGACTGGACCTGAGTTATAACAGAATTGGGCTTCTGGATTCTGAGTGGATTCCAGTATCGTTTGCAA
 AGCTGAACACCCTAATTCTTCGCATAACAACATCACCAGCATTTCACGGGCAGTTTTCCACAACCTCC
 AAATTTGAAGTGTCTTGACTTATCGTCCAATAAGCTGAAGACGGTGAAAAATGCTGTATTCCAAGAGTTG
 AAGTTCTGGAAGTGTCTGCTTTACAACAATCACATATCCTATCTCGATCCTTCAGCGTTTGGAGGGC
 TCTCCAGTTGCAGAACTCTACTTAAGTGAAATTTCTCACACAGTTCCGATGGATTGTATGTTGG
 AAGTTCAAGCTGGCAGAACTGATGTTTTAGATGTTTCTATAACCGAATTCCTCCATGCCAATGCAC
 CACATAAATTTAGTGCCAGGAAAACAGCTGAGAGGCATCTACCTTCATGGAACCCATTTGTCTGTGACT
 GTTCCCTGACTCCTTGCTGGTCTTTTGGTATCGTAGGCACTTTAGCTCAGTGTGGATTTAAGAACGA
 TTACACCTGTCGCCTGTGGTCTGACTCCAGGCACTCGCGTCAGGTAATTCGCTCCAGGATAGCTTTATG
 AATTGCTCTGACAGCATCAATGGTTCCTTCGTGCGCTTGGCTTTATTCATGAGGCTCAGGTCGGGG
 AAAGACTGATGGTCCACTGTGACAGCAAGACAGGTAATGCAAATACGGATTTTCATCTGGTGGTCCAGA
 TAACAGACTGCTAGAGCCGGATAAAGAGATGAAAACTTTACGTGTTTCAATGGAAGTCTGGTTATA
 GAAAGCCCTCGTTTTGAGGATGCTGGAGTGTATCTTGTATCGCAATGAATAAGCAACGCCTGTTAAATG
 AAATGTGGACGTCACAATAAATGTGAGCAATTCAGTGAAGCAGATCCCATGCTCATGAGGCATTTAA
 CACAGCTTTTACCACTCTTGTGCTTGGCGTGGCCAGTATCGTTTTGGTACTTTTGTACCTCTATCTGACT
 CCATGCCCTGCAAGTGTAAAACCAAGAGACAGAAAAATATGCTACACCAAGCAATGCCATTCATCGA
 TTCTCAGTCTGGCCCGCTAGTGATGCCTCCGCTGATGAACGGAAGGCAGGTGCAGGTAAGAGTGGT
 GTTTTTGGAACCCCTGAAGGATACTGCAGCAGGGCAGAACGGGAAAGTCAGGCTCTTTCCAGCGAGGCA
 GTGATAGCTGAGGGCATCCTAAGTCCACGAGGGGAAATCTGACTCAGATTCAATTCAGTGTCTT
 CTGACACACCTTTTGTGGCTCCACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG227654 representing NM_001143668
 Red=Cloning site Green=Tags(s)

MSLRVHTLPTLLGAVVRPGCRELLCLLMITVTVGPGASGVCPTACICATDIVSCTNKLSKVPGNLFRLI
 KRLDLSYNRIGLLDSEWIPVSFAKLNTLILRHNNITSISTGSFSTPNLKCLDLSSNKLKTVKNAVFQEL
 KVLEVLVLLYNNHISYLDPSAFGGLSQLQKLYLSGNFLTQFPMDLYVGRFKLAELMFLDVSYNRIPSPMPH
 HINLVPGKQLRGIYLGHPFVDCSLYSLLVFWYRRHFSVMDFKNDYTCRLWSDSRHSRQVLLQDSFM
 NCSDSIINGSFRALGFIHEAQVGERLMVHCDSKTGNANTDFIWVGPDRLLLEPKEMENFYVFNHNSLVI
 ESPRFEDAGVYSCIAMNKQRLNETVDVTINVSNTVSRSHAHEAFNTAFITLAACVASIVLVLLYLYLT
 PCPCKCKTKRQKMLHQSNHSSILSPGPASDASADERKAGAKRNVFLEPLKDTAAGQNGKVRLEPSEA
 VIAEGLKSTRGKSDSDSVNSVSDTPFVAST

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_001143668
ORF Size:	1566 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_001143668.1 , NP_001137140.1
RefSeq Size:	3126 bp
RefSeq ORF:	1569 bp
Locus ID:	347902
UniProt ID:	Q86SJ2
Cytogenetics:	12q13.11
Protein Families:	Druggable Genome, Transmembrane
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. May be required for tumorigenesis of a subset of gastric adenocarcinomas.[UniProtKB/Swiss-Prot Function]