

Product datasheet for **RC210704**

AMIGO3 (NM_198722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMIGO3 (NM_198722) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMIGO3
Synonyms:	ALI3; AMIGO-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210704 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCTGGTTGGTGCTGCTGGGGACACTGCTCTGCATGCTGCGGTTGGGTTAGGCACCCCGGACTCCG
 AGGGTTTCCCGCCCGTGCCTCCACAACGCCCCACAAATGTATCTGCGCTGCCGACCTGCTAAGCTG
 CACTGGCCTAGGGCTGCAGGACGTGCCAGCCGAGTTACCTGCCGCTACTGCGGACCTCGACCTGAGCCAC
 AACCGCTCCAGCGCTGCGCCCGGCTGGTTGGCGCCCTCTTCCAGCTGCGCGCCTGCACCTAGACC
 ACAACGAAGTAGATGCGCTGGGTCGCGGCTCTTCGTCAACGCCAGCGGCTGAGGCTGCTCGATCTATC
 ATCTAACACGTTGCGGGCGCTTGGCCGCCACGACCTCGACGGCTGGGGCGCTGGAGAAGCTGCTTCTG
 TTCAATAACCGCTTGGTCACTTGGACGAGCATGCCTCCACGGCTGCGCGCTGAGCCATCTCTACC
 TGGGCTGCAACGAAGTGCCTCGTTCTCCTTCGACCACCTGCACGGTCTGAGCGCCACCCACCTGCTTAC
 TCTGGACCTCTCTCAACCGGCTGGGACACATCTCCGTACCTGAGCTGGCCGCGCTGCCGGCCTTCCTC
 AAGAACGGCCTCTACTTGCAACAACCCCTTTCCTTGCCTGCGACTGCCGCCTCTACCACTGCTACAGCGCT
 GGCACAGCGGGCCTGAGCGCGCTGCGCGACTTTGCGCGCGAGTACGTATGCTTGGCCTTCAAGGTACC
 CGCGTCCCGCTGCGCTTCTTCCAGCACAGCCGCTTTCGAGAACTGCTCGTCCGCCCCAGCTCTTGGC
 CTAGAGCGGCCGAAGAGCACCTGTACGCGCTGGTGGGTCGGTCCCTGAGGCTTTACTGCAACACCAGCG
 TCCCGGCCATGCGCATTGCTGGGTTTCGCCGACGAGGAGCTTCTCAGGGCGCCAGGATCCCGCGATGG
 CAGCATCGCGTGTGGCCGACGGCAGCTTGGCCATAGGCAACGTACAGGAGCAGCATGCGGGACTCTTC
 GTGTGCTGGCCACTGGGCCCCGCTGCACCACAACGAGCAGCAGTACAACGTGAGCGTGCACCTTC
 CGCGCCAGAGCCGAGGCTTCAACACAGGCTTCAACCACTGCTGGGCTGTGCCGTGGGCTTGTGCT
 CGTGTGCTCTACCTGTTGCGCCCAACCTGCGCTGCTGCCGCGTGCCTGCCGCTGCCGCGCTGGCCC
 CAAACACCCAGCCGCTCCAAGAGCTGAGCGCACAGTCTCAGTACTCAGCACCAACCGCCAGACGCAC
 CCAGCCGAAGGCCAGCGTCCACAAGCAGTAGTCTTCTGGAGCCAGCCGAGGGGCTCAATGGCCG
 CGTGCAGTGGCAGTAGCTGAGGAATTCGATCTCTACAACCTGGAGGCTGCAGCTGAAGGCTGGCTCT
 GAGTCCGCCAGCTCCATAGGCTCCGAGGCTCCATGACAACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210704 protein sequence
 Red=Cloning site Green=Tags(s)

MTWLVLGLTLLCMLRVGLGTPDSEGFPPRALHNCYPYKCICAADLLSCTGLGLQDVPAELPAATADLDL
 SHNALQRLRPGWLAFLQLRALHLDHNELDALGRGVFNASGLRLDLSSNTLRALGRHLDLGALEKLLL
 FNNRLVHLDEHAFHGLRALSHLYLGCNELASFSDHLHGLSATHLLTDLSSNRLGHISVPELAALPAFL
 KNGLYLHNNPLPCDCRLYHLLQRWHQRGLSAVRDFAREYVCLAFKVPASRVRFQHSRVFENCSSAPALG
 LERPEEHLIALVGRSLRLYCNTSVPAMRIAWVSPQQLRAPGSRDGSIAVLADGSLAIGNVQEQAHLF
 VCLATGPRLHHNQTHEYNVSVHFPRPEAFNTGFTLLGCAVGLVLLVLLYLFAPPCRCRRACRWRP
 QTPSPLQELSAQSSVLSTPPDAPSRKASVHKHVVFLEPGRRGLNGRVQLAVAEEDLYNPGGLQLKAGS
 ESASSIGSEGMTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6544_e02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_198722

ORF Size: 1512 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_198722.3](#)

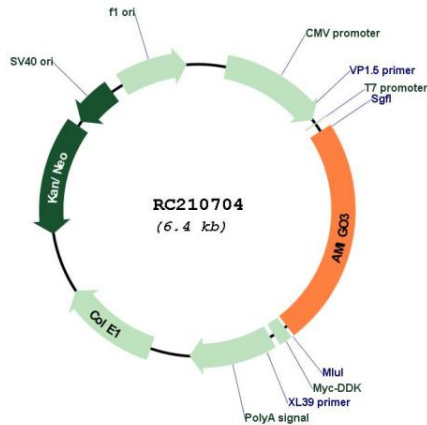
RefSeq Size: 3008 bp

RefSeq ORF: 1515 bp

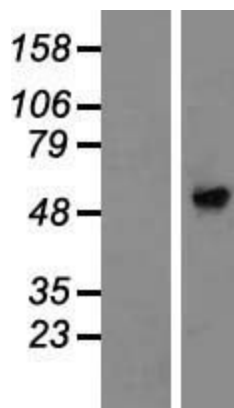
Locus ID: 386724

UniProt ID:	<u>Q86WK7</u>
Cytogenetics:	3p21.31
Protein Families:	Transmembrane
MW:	55.2 kDa
Gene Summary:	May mediate heterophilic cell-cell interaction. May contribute to signal transduction through its intracellular domain (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC210704



Western blot validation of overexpression lysate (Cat# [LY404790]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210704 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).