

Product datasheet for **RG215384**

AJUBA (NM_198086) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AJUBA (NM_198086) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AJUBA
Synonyms:	JUB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215384 representing NM_198086
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCGGTTAGGAGAGAAAGCCAGTCGCTGCTGGAGAAGTTCGGCCGCAGAAAGGGTGAATCTAGCC
 GGTCTGGGTCTGACGGGACCCCCGGGCCGGCAAGGGGCCCTAAGTGGGTTGGGGGACCTAGGAAGTC
 AGGGCCCCGAGGAGCTACTGGGGACCTGGGGATGAGCCGTTGGAGCCGCCCGGGAGCAAGGTTCCCTG
 GACGCTGAGCGAAATCAGCGCGGCTCCTTTGAGGCGCCGCTACGAAGGCTCTTTCCCGCGGGCCGC
 CGCCACCCGGGCTTGCTCTACCTCAGTCGTTGCCCCGATTTTCGGCTGGAGCCCAGGCCCGGC
 CCTCAGCCCCGCTCTAGCTTCGCCAGTAGCTCGGCCAGCGACGCGAGCAAGCCGTCAGCCCCGGGGC
 AGCCTGCTGCTGGACGGGGCGGGGCTGGCGGAGCTGGAGGTAGCCGGCCCTGCAGCAATCGCACCAGCG
 GCATCAGCATGGGCTACGACCAGCGCCACGGGAGCCCTTGCCAGCGGGCCGTGCCTGTTGGCCACC
 CCTGGCCGGAGCACCGGCAGGCTATTCTCCGGAGGGTCCCGTCCGCTACCCGGAGCTCCACGCCGCC
 CTGGACCGATTGTACGCTCAGCGCCCGCGGGGTTCCGGCTGCCAGGAAAGCCGCTCCTATCCCCCGG
 CCCTGGGCAGCCCTGGAGCTCTAGCCGGGGCCGGAGTGGGAGCGCGGGGCCCTTGAGAGACGGGGGGC
 GCAACCCGGACGACACTCTGTGACCCGGCTACGGGGACTGCGCCGTGGGCGCCCGGTACCAGGACGAGCTA
 ACAGCTTTGCTTCGCTGACGGTGGGACCCGGTGGGCGAGAAGCCGGAGCCCGGAGAACCCCTCGGGGA
 TTGAGCCGTCGGGTCTGGAGGAGCCACCAGTCTTTTCGTTCCGGAGGCCCGGGCCCGGATGCGGGA
 GCCAGAGGCCAGGAGGACTACTTCGGCACCTGTATCAAGTGAACAAAGGCATCTATGGGAGAGCAAT
 GCCTGCCAGGCCCTGGACAGCCTTACCACACCCAGTCTTTGTTGCTGCTCTGTGGGCAACTTTGC
 TTGCAAGGCTTTCTACAGTGTCAATGGCTCTGTGTACTGTGAGGAAGATTATCTGTTTTAGGGTTTCA
 GGAGGCAGCTGAGAAATGCTGTGCTGTGGTCACTTGATTTGGAGAAGATCCTACAAGCAATGGGGAAG
 TCCTATCATCCAGGCTGTTCCGATGCATTGTTTGAACAAGTGCCTGGATGGCATCCCCCTCACAGTGG
 ACTTCTCCAACCAAGTATACTGTGTACCGACTACCACAAAAATTATGCTCCTAAGTGTGCAGCCTGTGG
 CCAACCCATCCTCCCCTCTGAGGGCTGTGAGGACATCGTGGGGTATATCCATGGACCGGGATTATCAC
 TTTGAGTGTACCACTGTGAGGACTGCCGGATGCAGCTGAGTGTGAGGAAGGCTGCTGCTTTCCCTC
 TGGATGGGCACTTGCTCTGCCATGGTTGCCACATGCAGCGGCTCAATGCCCGACAACCCCTGCCAACTA
 TATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215384 representing NM_198086
 Red=Cloning site Green=Tags(s)

MERLGEKASRLLEKFRRKGESSRSGSDGTPGPKGRLSGLGGPRKSGPRGATGGPGDEPLEPAREQGS
 DAERNQRGSFEAPRYEGSFPAGPPPTRALPLPQSLPPDFRLEPTAPALSPRSSFASSASDASKPSSPRG
 SLLLDGAGAGGAGSRPCSNRTSGISMGYDQRHGSPLPAGPCLFGPPLAGAPAGYSPGGVPSAYPELHAA
 LDRLYAQRPAFGCQESRHSYPPALGSPGALAGAGVGAAGPLERRGAQGRHSVTGYGDCAVGARYQDEL
 TALLRLTVGTGGREAGARGEPGIEPSGLEEPPGPFVPEAARARMREPEAREDYFGTICKNKGIYQSN
 ACQALDSLHYHTQCFVCCSCGRTLKAFYSVNGSVYCEEDYLFSGFQEAEEKCCVCGHLILEKILQAMGK
 SYHPGCFRCIVCNKCLDGIPFTVDFSNQVYCVTDYHKNYAPKCAACGQPILPSEGCEIVRVISMDRDYH
 FECYHCEDCRMQLSDEEGCCCFPLDGHLLCHGCHMQRLNARQPPANYI

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_198086

ORF Size: 1614 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_198086.1](#), [NP_932352.1](#)

RefSeq Size: 3263 bp

RefSeq ORF: 366 bp

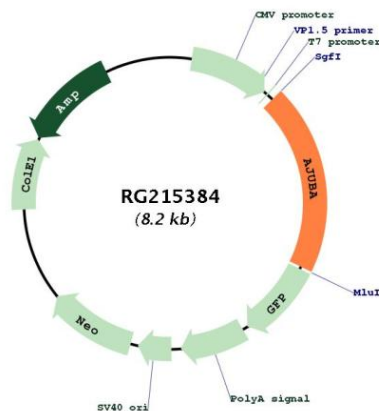
Locus ID: 84962

UniProt ID: [Q96IF1](#)

Cytogenetics: 14q11.2

Gene Summary: Adapter or scaffold protein which participates in the assembly of numerous protein complexes and is involved in several cellular processes such as cell fate determination, cytoskeletal organization, repression of gene transcription, mitosis, cell-cell adhesion, cell differentiation, proliferation and migration. Contributes to the linking and/or strengthening of epithelia cell-cell junctions in part by linking adhesive receptors to the actin cytoskeleton. May be involved in signal transduction from cell adhesion sites to the nucleus. Plays an important role in regulation of the kinase activity of AURKA for mitotic commitment. Also a component of the IL-1 signaling pathway modulating IL-1-induced NFkB1 activation by influencing the assembly and activity of the PRKCZ-SQSTM1-TRAF6 multiprotein signaling complex. Functions as an HDAC-dependent corepressor for a subset of GFI1 target genes. Acts as a transcriptional corepressor for SNAI1 and SNAI2/SLUG-dependent repression of E-cadherin transcription. Acts as a hypoxic regulator by bridging an association between the prolyl hydroxylases and VHL enabling efficient degradation of HIF1A. Positively regulates microRNA (miRNA)-mediated gene silencing. Negatively regulates the Hippo signaling pathway and antagonizes phosphorylation of YAP1.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG215384