

## Product datasheet for **RG237775**

### AJUBA (NM\_001289097) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AJUBA (NM_001289097) 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)
ORF Nucleotide Sequence:	>RG237775 representing NM_001289097. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCGGTTAGGAGAGAAAGCCAGTCGCTGCTGGAGAAGTTCGGCCGCAGAAAGGGTGAATCTAGC
CGGTCTGGGTCTGACGGGACCCCGGGCCGGCAAGGGCGCCTAAGTGGTTGGGGGACCTAGGAAG
TCAGGGCCCCGAGGAGCTACTGGGGACCTGGGGATGAGCCGTTGGAGCCGGCCCGGAGCAAGTTCC
CTGGACGCTGAGCGAAATCAGCGCGCTCCTTTGAGGCCCGCGCTACGAAGGCTCTTTCCCGGGG
CCGCCGCCACCCGGCCTTGCTCTACCTCAGTCGTTGCCCGGATTTTCGGCTGGAGCCACGGCC
CCGGCCCTCAGCCCCGCTCTAGCTTCGCCAGTAGCTCGGCCAGCGACGAGCAAGCCGTCAGCCCC
CGGGCAGCCTGCTGCTGGACGGGGCGGGGCTGGCGGAGCTGGAGGTAGCCGGCCCTGCAGCAATCGC
ACCAGCGCATCAGCATGGGCTACGACCAGCGCCACGGGAGCCCTTGCCAGCGGGCCGTGCTGTTT
GGCCACCCCTGGCCGAGCACCGGCAGGCTATTCTCCGGAGGGGTCCCGTCCGCCTACCCGGAGCTC
CACGCCGCTGGACCGATTGTACGCTCAGCGGCCCGGGGTTCCGGCTGCCAGGAAAGCCGCACTCG
TATCCCCGGCCCTGGCAGCCCTGGAGCTTAGCCGGGGCCGGAGTGGGAGCGGGGGCCCTGGAG
AGACGGGGGGCGCAACCCGGACGACTCTGTACCGGCTACGGGACTGCGCCGTGGCGCCCGGTAC
CAGGACGAGCTAACAGCTTTGCTTCGCTGACGGTGGGCACCGGTGGGCGAGAAGCCGGAGCCCGCGG
GAACCCCGGGATTGACCGTCCGGTCTGGAGGAGCCACAGGTCCTTTTCGTTCCGGAGGCCCGCGG
GCCCGGATGCGGGAGCCAGAGGCCAGGGAGGACTACTTCGGAATCATGCTCACATGGTCCCTCTGCAC
GGAGCCCTCTGCCAAGCCAGATCCTTTTCTCCATCCTTGAAGTCTGCAGTGGAGAGAAATCATTCTAT
AAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237775  
 Blue=ORF Red=Cloning site Green=Tag(s)

MERLGEKASRLLEKFRRKGESSRSGSDGTPGPGKGRLSGLGGPRKSGPRGATGGPGDEPLEPAREQGS  
 LDAERNQRGSFEAPRYEGSFAPGPPTRALPLPQSLPPDFRLEPTAPALSPRSSFASSASDASKPSSP  
 RGSLLLDGAGAGGAGGSRPCSNRTSGISMGYDQRHGSPLPAGPCLFGPPLAGAPAGYSPGGVPSAYPEL  
 HAALDRLYAQRPAFGCQESRHSYPPALGSPGALAGAGVGAAGPLERRGAQPRHSVTVGYGDCAVGARY  
 QDEL TALLRLTVGTGGREAGARGEP SGI EPSGL EEPGPFVPEAARARMREPEAREDYFGIMLTWSPLH  
 GALCQARSFSPSLEVCSGEKSFYN  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001289097

**ORF Size:** 1107 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).

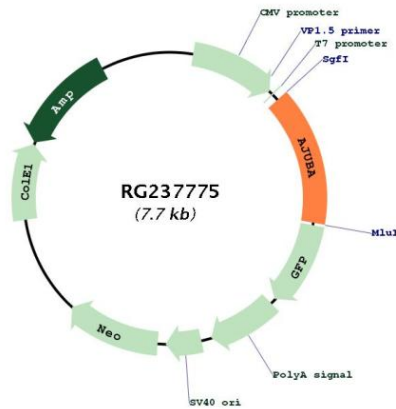
**RefSeq:** [NM\\_001289097.2](#)

**RefSeq Size:** 1807 bp

RefSeq ORF: 1110 bp  
 Locus ID: 84962  
 UniProt ID: [Q96IF1](#)  
 Cytogenetics: 14q11.2  
 MW: 38.3 kDa

**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 RG237775