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Product datasheet for RC237775

AJUBA (NM_001289097) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AJUBA (NM_001289097) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AJUBA
Synonyms:	JUB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC237775 representing NM_001289097
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGGTTAGGAGAGAAAGCCAGTCGCCTGCTGGAGAAGTTCGGCCGCAGAAAGGGTGAATCTAGCC
GGTCTGGGTCTGACGGGACCCCCGGGCCGGGCAAGGGGCGCCTAAGTGGGTTGGGGGGACCTAGGAAGTC
AGGGCCCCGAGGAGCTACTGGGGGACCTGGGGATGAGCCGTTGGAGCCGGCCCGGGAGCAAGGTTCCCTG
GACGCTGAGCGAAATCAGCGCGGCTCCTTTGAGGCGCCGCGCTACGAAGGCTCTTTTCCCGCGGGGCCGC
CGCCCACCCGGGCCTTGCCTCTACCTCAGTCGTTGCCCCCCGATTTTCGGCTGGAGCCCACGGCCCCGGC
CCTCAGCCCCCGCTCTAGCTTCGCCAGTAGCTCGGCCAGCGACGCGAGCAAGCCGTCCAGCCCCCGGGGC
AGCCTGCTGCTGGACGGGGCGGGGGCTGGCGGAGCTGGAGGTAGCCGGCCCTGCAGCAATCGCACCAGCG
GCATCAGCATGGGCTACGACCAGCGCCACGGGAGCCCCTTGCCAGCGGGGCCGTGCCTGTTTGGCCCACC
CCTGGCCGGAGCACCGGCAGGCTATTCTCCCGGAGGGGTCCCGTCCGCCTACCCGGAGCTCCACGCCGCC
CTGGACCGATTGTACGCTCAGCGGCCCGCGGGGTTCGGCTGCCAGGAAAGCCGCCACTCGTATCCCCCGG
CCCTGGGCAGCCCTGGAGCTCTAGCCGGGGCCGGAGTGGGAGCGGCGGGGCCCTTGGAGAGACGGGGGGC
GCAACCCGGACGACACTCTGTGACCGGCTACGGGGACTGCGCCGTGGGCGCCCGGTACCAGGACGAGCTA
ACAGCTTTGCTTCGCCTGACGGTGGGCACCGGTGGGCGAGAAGCCGGAGCCCGCGGAGAACCCTCGGGGA
TTGAGCCGTCGGGTCTGGAGGAGCCACCAGGTCCTTTCGTTCCGGAGGCCGCCCGGGCCCGGATGCGGGA
GCCAGAGGCCAGGGAGGACTACTTCGGAATCATGCTCACATGGTCCCCTCTGCACGGAGCCCTCTGCCAA
GCCAGATCCTTTTCTCCATCCTTGGAAGTCTGCAGTGGAGAGAAATCATTCTATAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

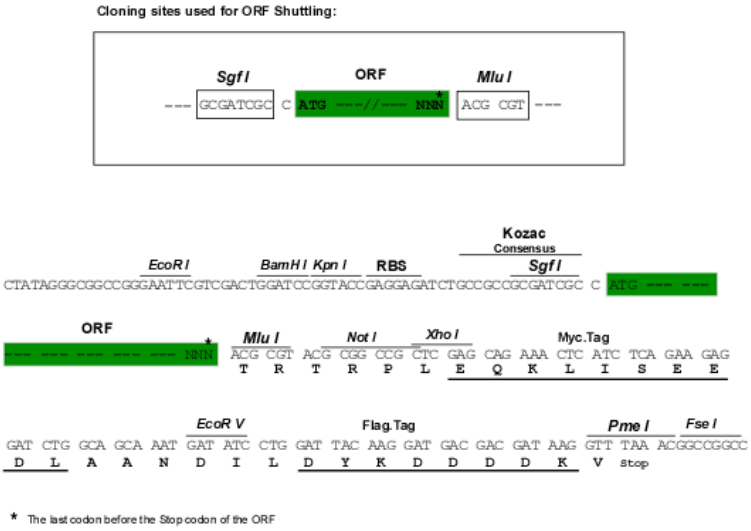
>RC237775 representing NM_001289097
Red=Cloning site Green=Tags(s)

MERLGEKASRLLEKFGRRKGESSRSGSDGTPGPGKGRLSGLGGPRKSGPRGATGGPGDEPLEPAREQGSL
DAERNQRGSFEAPRYEGSFPAGPPPTRALPLPQSLPPDFRLEPTAPALSPRSSFASSSASDASKPSSPRG
SLLLDGAGAGGAGGSRPCSNRTSGISMGYDQRHGSPLPAGPCLFGPPLAGAPAGYSPGGVPSAYPELHAA
LDRLYAQRPAGFGCQESRHSYPPALGSPGALAGAGVGAAGPLERRGAQPGRHSVTGYGDCAVGARYQDEL
TALLRLTVGTGGREAGARGEPSGIEPSGLEEPPGPFVPEAARARMREPEAREDYFGIMLTWSPLHGALCQ
ARSFSPSLEVCSGEKSFYN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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).

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_001289097.2

RefSeq Size: 1807 bp

RefSeq ORF: 1110 bp

Locus ID: 84962

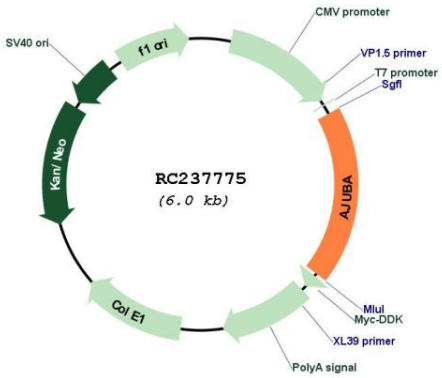
UniProt ID: Q96IF1

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 RC237775