

## Product datasheet for **MR208706**

### Ajuba (NM\_010590) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ajuba (NM_010590) Mouse 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)



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**ORF Nucleotide Sequence:**

>MR208706 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAACGGTTAGGGGAGAAAGCCAGTCGTCTGCTAGAAAAGTTGAGACTCTCGACTCCGGCAGCGCCA  
 AGTTTCGGCCGCAGAAAGGGCGAAGCGAGCCGATCTGGGTCTGATGGGACCCCGGAGCAGCAAGGGACG  
 CTTAAGCGGGTTGGGGGACCTAGGAAGTCAGGACACCCGTGGAGCGAATGGTGGGCTGGAGATGAACCT  
 TTGAACCGGCCAGGGAGCAAGGGCCCTGGACGCCGAGCGAACGCACGCGGCTCCTTTGAAGCGCAGC  
 GCTTCGAAGGGTCTTTCCGGGGGGCCGCCGCCACTCGAGCCCTGCCTCTGCCTCTGCTGCTCGCTCC  
 TGATTTTCGGCTGGAGACCAGGCTCCAGCCCTTAGCCCTCGCTCCAGCTTCGCCAGTAGCTCGGCCAGC  
 GATGCGAGCAAGCCATCTAGCCCCGGGGCAGCCTGCTGCTGGACGGAGCGGGGGCCAGCGGAGCCGGAG  
 GTAGCCGGCCGTGCAGCAATCGGACCAGCGGCATCAGCATGGGCTACGACCAGCGCCACGGGAGCCCGCT  
 GCCCGCGGGCCGTGCCTATTCGGCTCCCGCTGACCCTGCTCTCGGGCTACCCAGGAGGGGCTCCG  
 TCCGCCTACCCGAGCTCCACGCTGCCCTGGACCGACTATGTGCTCATCGGTCCGTGGGATTCGGCTGCC  
 AGGAGAGCCGTCCTCGTACCCCGGCCCTGGGCAGCCCGGAGCTCTAACCGGAGCCGTGGTGGGAAC  
 AGCGGGTCTTTGGAGAGACGTGGGGCGCAACCCGGACGACACTCGGTTACAGGCTACGGGGACTGCGCC  
 GCGGGGGCCGTTACCAGGACGAGCTAACAGCATTGCTGCGTTTGACCGTGGCTACCGGTGGCGGAGAAG  
 CCGGTGCTCGCGGGAACCCTCGGGATTGAGCCGTGGGTCTGGAGGAGTCTCCTGGTCCCTTCGTTCC  
 AGAGGCCCTCCCGATCACGGATACGGGAGCCAGAGGCCAGAGAAGATTACTTTGGCACCTGTATCAAGTGC  
 AACAAAGTATCTATGGGCAGAGCAATGCCTGCCAGGCCCTGGACAGCCTCTACCACCCAGTGCCTTTG  
 TCTGCTCTCTGTGGACGAACTTGCGGTGCAAGGCTTTCTACAGCGTCAATGGCTCTGCTACTGTGA  
 GGAAGACTATCTGTTTTAGGGTTTCAGGAGGCAGCTGAGAAGTGTGTCTGTGGCCACTTGATTCTA  
 GAGAAGATCCTCCAGCCATGGGGAAGTCTATACCCGGGCTGCTTCCGATGCATCGTATGTAACAAGT  
 GCCTGGACGGCTCCCCTTCACTGTGGACTTCTCAACCAGGTGTACTGTGTACCGACTACCACAAAA  
 TTACGCCCCGAAATGTGCAGCCTGCGGACAACCCATCCTCCCCTCAGAGGGCTGTGAGGACATTGTGAGG  
 GTGATATCCATGGACCGTATTACTTTGAGTGTACTACTGTGAGGACTGCCGCATGCAGCTGAGTG  
 ACGAGGAAGTTGCTGCTGTTTCCCTTTGATGGACATTTGCTCTGCCACGGCTGCACATGCAGCGCT  
 CAGTGCCCGCAGCCCTCTACCAACTATATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208706 protein sequence  
 Red=Cloning site Green=Tags(s)

MERLGEKASRLLEKLRLSDSGSAKFGRKGEASRSGSDGTPGAGKGRLSGLGGPRKSGHRGANGGPGDEP  
 LEPAREQGPLDAERNARGSF EAQRFEFSFPGPPPTRALPLPLSSPPDFRLETTAPALSPRSSFASSAS  
 DASKPSSPRGSLLLDGAGASGAGSRPCS NR TSGISMGYDQRHGSPLPAGPCLFGLPLTTAPAGYPPGAP  
 SAYPELHAALDRLCAHRVSGFQESRHSYPPALGSPGALTGAVVGTAGPLERRGAQPGRHSVTGYGDCA  
 AGARYQDEL TALLRLTVATGGREAGARGEPSGIEPSGLEESPPGFVPEASRSRIREPEAREDYFGTCIKC  
 NKGIYQSNACQALDSL YHTQCFVCCSCGRTL RCKAFYSVNGSVYCEEDYLFSGFQEA AEKCCVCGHLIL  
 EKILQAMGKSYHPGCFRCIVCNKCLDGVPTVDFSNQVYCVTDYHKNYAPKCAACGQPILPSEGCEIVR  
 VISMDRDYHFECYHCEDCRMQLSDEEGCCFPLDGHLCHGCHMQRLSARQPSTNYI

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_010590

**ORF Size:** 1644 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\\_010590.3](#)

**RefSeq Size:** 3503 bp

**RefSeq ORF:** 1644 bp

**Locus ID:** 16475

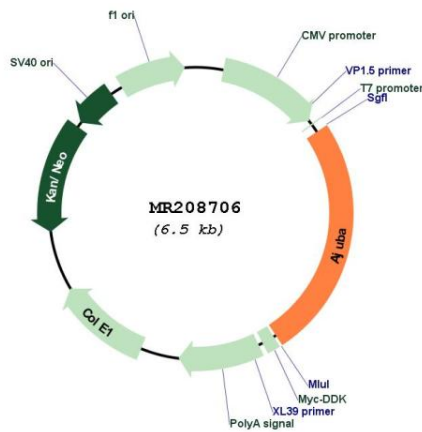
**UniProt ID:** [Q91XC0](#)

**Cytogenetics:** 14 C2

**MW:** 57.9 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 GF11 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 MR208706