OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG208706

Ajuba (NM_010590) Mouse Tagged ORF Clone

Product data:

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

>MG208706 representing NM_010590
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAACGGTTAGGGGAGAAAGCCAGTCGTCTGCTAGAAAAGTTGAGACTCTCGGACTCCGGCAGCGCCA
AGTTCGGCCGCAGAAAGGGCGAAGCGAGCCGATCTGGGTCTGATGGGACCCCCGGAGCAGGCAAGGGACG
CTTAAGCGGGTTGGGGGGACCTAGGAAGTCAGGACACCGTGGAGCGAATGGTGGGCCTGGAGATGAACCT
TTGGAACCGGCCAGGGAGCAAGGGCCCCTGGACGCCGAGCGGAACGCACGCGGCTCCTTTGAAGCGCAGC
GCTTCGAAGGGTCCTTTCCCGGGGGGCCGCCGCCCACTCGAGCCCTGCCTCTGCCTCTGTCGTCGCCTCC
TGATTTTCGGCTGGAGACCACGGCTCCAGCCCTTAGCCCTCGCTCCAGCTTCGCCAGTAGCTCGGCCAGC
GATGCGAGCAAGCCATCTAGCCCCCGGGGCAGCCTGCTGCTGGACGGAGCGGGGGCCAGCGGAGCCGGAG
GTAGCCGGCCGTGCAGCAATCGGACCAGCGGCATCAGCATGGGCTACGACCAGCGCCACGGGAGCCCGCT
GCCCGCGGGGCCGTGCCTATTCGGCCTCCCGCTGACCACTGCTCCTGCGGGCTACCCAGGAGGGGCTCCG
TCCGCCTACCCGGAGCTCCACGCTGCCCTGGACCGACTATGTGCTCATCGGTCCGTGGGATTCGGCTGCC
AGGAGAGCCGTCACTCGTACCCCCCGGCCCTGGGCAGCCCCGGAGCTCTAACCGGAGCCGTGGTGGGAAC
AGCGGGTCCTTTGGAGAGACGTGGGGCGCAACCCGGACGACACTCGGTTACAGGCTACGGGGACTGCGCC
GCGGGGGCCCGTTACCAGGACGAGCTAACAGCATTGCTGCGTTTGACCGTGGCTACCGGTGGGCGAGAAG
CCGGTGCTCGCGGGGAACCCTCGGGGATTGAGCCGTCGGGTCTGGAGGAGTCTCCTGGTCCCTTCGTTCC
AGAGGCCTCCCGATCACGGATACGGGAGCCAGAGGCCAGAGAAGATTACTTTGGCACCTGTATCAAGTGC
AACAAAGGTATCTATGGGCAGAGCAATGCCTGCCAGGCCCTGGACAGCCTCTACCACACCCAGTGCTTTG
TCTGCTGCTCCTGTGGACGAACTTTGCGGTGCAAGGCTTTCTACAGCGTCAATGGCTCTGTCTACTGTGA
GGAAGACTATCTGTTTTCAGGGTTTCAGGAGGCAGCTGAGAAGTGCTGTGTCTGTGGCCACTTGATTCTA
GAGAAGATCCTCCAGGCCATGGGGAAGTCCTATCACCCGGGCTGCTTCCGATGCATCGTATGTAACAAGT
GCCTGGACGGCGTCCCCTTCACTGTGGACTTCTCCAACCAGGTGTACTGTGTTACCGACTACCACAAAAA
TTACGCCCCGAAATGTGCAGCCTGCGGACAACCCATCCTCCCCTCAGAGGGCTGTGAGGACATTGTGAGG
GTGATATCCATGGACCGTGATTATCACTTTGAGTGCTACCACTGTGAGGACTGCCGCATGCAGCTGAGTG
ACGAGGAAGGTTGCTGCTGTTTCCCTCTTGATGGACATTTGCTCTGCCACGGCTGTCACATGCAGCGCCT
CAGTGCCCGGCAGCCCTCTACCAACTATATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

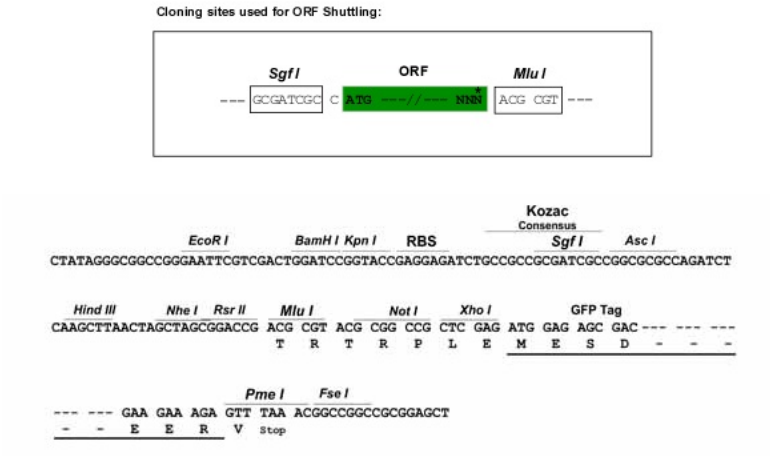
>MG208706 representing NM_010590
Red=Cloning site Green=Tags(s)

MERLGEKASRLLEKLRLSDSGSAKFGRRKGEASRSGSDGTPGAGKGRLSGLGGPRKSGHRGANGGPGDEP
LEPAREQGPLDAERNARGSFEAQRFEGSFPGGPPPTRALPLPLSSPPDFRLETTAPALSPRSSFASSSAS
DASKPSSPRGSLLLDGAGASGAGGSRPCSNRTSGISMGYDQRHGSPLPAGPCLFGLPLTTAPAGYPGGAP
SAYPELHAALDRLCAHRSVGFGCQESRHSYPPALGSPGALTGAVVGTAGPLERRGAQPGRHSVTGYGDCA
AGARYQDELTALLRLTVATGGREAGARGEPSGIEPSGLEESPGPFVPEASRSRIREPEAREDYFGTCIKC
NKGIYGQSNACQALDSLYHTQCFVCCSCGRTLRCKAFYSVNGSVYCEEDYLFSGFQEAAEKCCVCGHLIL
EKILQAMGKSYHPGCFRCIVCNKCLDGVPFTVDFSNQVYCVTDYHKNYAPKCAACGQPILPSEGCEDIVR
VISMDRDYHFECYHCEDCRMQLSDEEGCCCFPLDGHLLCHGCHMQRLSARQPSTNYI

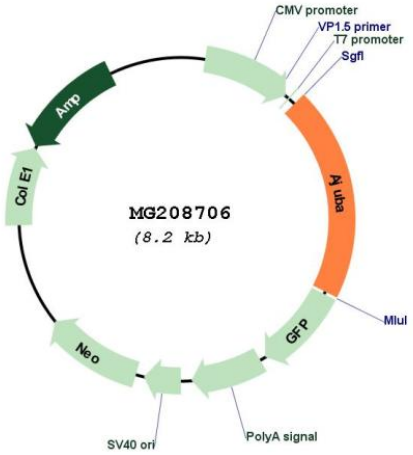
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_010590
ORF Size:	1641 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:	3280 bp
RefSeq ORF:	1644 bp
Locus ID:	16475
UniProt ID:	Q91XC0
Cytogenetics:	14 C2

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]