

## Product datasheet for **MG210428**

### Jup (NM\_010593) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Jup (NM_010593) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Jup
Synonyms:	Ctnng; D930025P04Rik; PG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG210428 representing NM\_010593  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGTGATGAACCTTATTGAGCAGCCCATCAAGGTGACAGAGTGCCAACAGACATACACCTACGACT  
 CGGGCATCCACTCCGGCGTCAATACCTGTGTGCCCTCTGTAAGCAGCAAGGGCATCATGGATGAGGATGA  
 TGCTTGCAGCAGACAGTACACACTCAAGAAGACTACCACCTATACACAAGGGGTGCCACAGAACCAAGGT  
 GACCTGGAATACCAGATGTCCACAACGGCCAGAGCCAAGCGGGTGCAGGAGGCCATGTGTCCAGGGGTCT  
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 CGAACCATCCCAGTTGCTCAAGTCGGCCATCGTCCATCTCATCACTACCAGGATGATGCAGAGCTGGCC  
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 TACCGCCCATGTACTCCAGCGATGTGCCTCTGGACCCTCTGGACATGCACATGGACCTGGATGGAGACT  
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**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

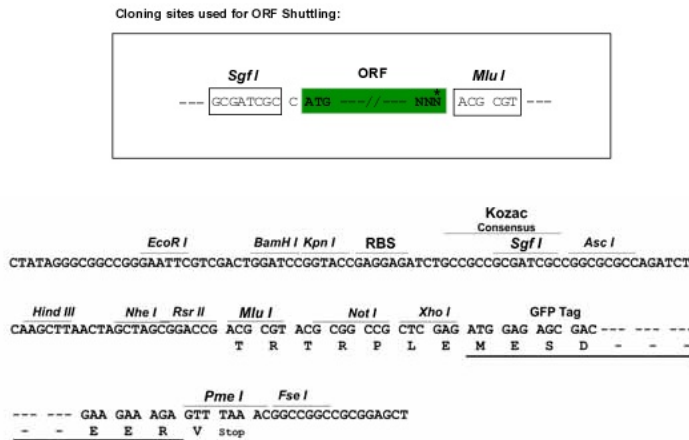
**Protein Sequence:** >MG210428 representing NM\_010593  
 Red=Cloning site Green=Tags(s)

```
MEVMNLIEQPIKVTWEQQTYTYDSGIHSVNTCVPSVSSKGMDEDDACGRQYTLKKTTTYTQGVPPQNG
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NPKFLAITDCLQLLAYGNQESKLIILANGGPQGLVQIMRNYSEKLLWTTSRVLKVLVSVCPNKAIVE
AGGMQALGKHLTSNSPRLVQNCLWTLRNLSDVATKQEGLESVLKILVNQLSVDDVNVLTCAATGTLNLT
NNSKNKTLVTQNSGVEALIHAILRAGDKDDITEPAVCALRHLTSRHEAEMAQNSVRLNYGIPAIVKLLN
QPQWPLVKATIGLIRNLALCPANHAPLQEAIVPRVQLLVKAHQDAQRHVAAGTQQPYTDGVRMEEIV
EGCTGALHILARDPMMRMEIFRLNTIPLFVQLLYSSVENIQRVAAGVLCELAQDKEAADAIDAEGASAPL
MELLHSRNEGATYAAAVLFRISEDKNPDYRKRVSVELTNSLFKHDPAAWEEAAQSMIPINEPYADDMAT
YRPMYSSDVLDPDLMHMDLDGDYPMPTYSDGLRPPYPTADHMLA
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010593

**ORF Size:** 2235 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\\_010593.2](#), [NP\\_034723.1](#)

**RefSeq Size:** 5009 bp

**RefSeq ORF:** 2238 bp

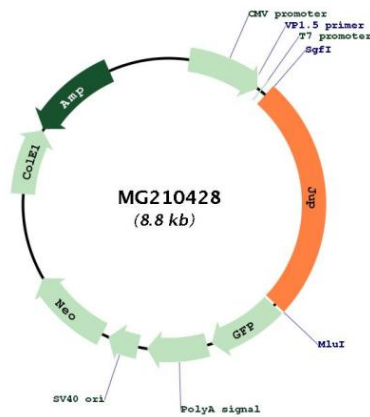
**Locus ID:** 16480

**UniProt ID:** [Q02257](#)

**Cytogenetics:** 11 63.47 cM

**Gene Summary:** Common junctional plaque protein. The membrane-associated plaques are architectural elements in an important strategic position to influence the arrangement and function of both the cytoskeleton and the cells within the tissue. The presence of plakoglobin in both the desmosomes and in the intermediate junctions suggests that it plays a central role in the structure and function of submembranous plaques. Acts as a substrate for VE-PTP and is required by it to stimulate VE-cadherin function in endothelial cells. Can replace beta-catenin in E-cadherin/catenin adhesion complexes which are proposed to couple cadherins to the actin cytoskeleton.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG210428