

## Product datasheet for **MR209901**

### **Gtpbp1 (NM\_013818) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gtpbp1 (NM_013818) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gtpbp1
Synonyms:	AL022987; AW045683; C85212; GP-1; Gtpbp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR209901 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGGGAGCGGAGTCTGCCCGGTGCGACTCGCCGGTGCCGGCCTCGATGTTGCCCCCGAGCCTA  
GCTCTCCGGGGGCGGCTCGGGCCCGCGGCCGCGGCCGACTCCATGGCGGCTTCGATTCTGACTGCAG  
CGAGGACGGCGAGGCGCTCAACGGCGAGCCGGAGCTGGACCTACCAGCAAGCTGGTTCTAGTGAGCCCT  
ACATCAGAGCAGTATGACAGCCTACTTCGGCAGATGTGGGAGAGGATGGACGAGGGATGCGGAGAGACCA  
TATATGTCATTGGGCAGGGATCAGATGGGACTGAGTACGGGCTGAGTGAAGCTGACATGGAGGCCTCCTA  
CGCCACCGTGAAGAGCATGGCGGAGCAGATAGAGGCTGACGTATCCTCTTACGAGAACCTCAAGAAGCG  
GGCGGCCGTGTGCGTGATTACCTAGTCAGGAAACGAGTTGGAGACAATGACTTCTCGGAGGTGAGGTGG  
CAGTGGTGGGCAACGTGGATGCTGGCAAAGCACACTCCTGGGAGTCTAACACACGGGGAGCTGGACAA  
TGCCCGTGGCTTTGCCCGCAAAAACCTTTTCGCCACAAAACATGAGATTGAATCTGGTGAACACAGCAGT  
GTGGGCAATGACATTCTGGGCTTTGACAGCGAAGCAATGTAGTGAACAACCCGACAGCCATGGTGGCA  
GCCTCGAATGGACAAAGATCTGTGAGAAGTCTCTAAAGTGATCACCTTCATCGACTTGGCTGGCCACGA  
GAAGTACCTTAAGACCACTGTTTTGGCATGACTGGCCACTTGCCTGACTTCTGCATGCTCATGGTGGG  
AGCAATGCTGGCATTGTGGGGATGACCAAGGAGCATCTGGGCTTGGCATTGGCACTCAATGTACCTGTGT  
TTGTGGTTGTACCAAGATTGACATGTGTCCTGCCAACATCCTTCAAGAAACCTGAAGCTGCTACAGCG  
CCTGCTGAAGTACCAGGCTGCCGAAGATCCCTGTCTGGTGCAGAGCAAGATGATGTGATTGTACACA  
GCCTCAAACCTTCACTCTGAGAGGATGTCCCGATATCCAGATCTCCAATGTACAGGTGAGAACCTTG  
ACCTGCTCAAGATGTTCTCAACCTCCTGTCCCCCGCACCAAGTACCGGGAGGAGGACCTGCTGAGTT  
CCAGATAGATGACACCTACTCTGTCCCTGGCGTGGGGACAGTGGTGTCTGGGACCACCTGCGGGGCTG  
ATCAAACCTGAACGACACACTGCTGCTGGGCCAGACCCCTTGGGAACTTCTGTCCATTGCTGTCAAGT  
CAATCCATCGCAAACGTATGCCAGTCAAGGAGGTGCGCGGGGGCCAGACAGCCTCCTTGGCACTGAAGAA  
GATAAAGCGCTCATCCATCCGAAAGGCATGGTGTGTTTCCACGCTGAATCCCCAGGCTCCTGG  
GAGTTTGAGGCTGAGATCCTTGTCTCCACCACCCACCACAATTAGTCCAGTACCAAGCCATGGTAC  
ACTGTGGGAGCATCCGGCAAACAGCTACAATTCTGAGCATGGATAAAGACTGTCTGCGCACAGGAGACAA  
GGCCACTGTCCACTTCCGCTTCAAGACCCAGAGTATCTGCACATAGACCAGCGTTGGTGTCCGG  
GAAGGTGAACCAAGGCTGTTGGCACCATCACCAGCTCCTCCAGACAACCAACAACTCCCCATGAACT  
CCAAGCCCCAGCAGATTAATGAGTCCACAAAAAGGGTCCCCTGAGCAAACGAGAGGAAGGAGGTCC  
ATGTGGGGTGCCGGCGGAGGGGACCCCGACTGGAGATGAAGTTCCTCACTAGGGACTGCACAGGCT  
GCCTCAACAGTGGGCTCCAGCCACAGCCCAAGCCAGCAGTGGGGGCGGGGACGAGGGGGCCAGCGCC  
ACAAGGTGAAGTCGGGAGCCTGTGTGACTCCTGCCAGCGGCTGC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209901 protein sequence  
Red=Cloning site Green=Tags(s)

```

MAAERSRSPVDSVPVPMFAPEPSSPGAARAAAAAARLHGGFSDDCSEGEALNGEPELDLTSKLVLVSP
TSEQYDSSLRQMWERMDEGCGETIYVIGQGS DGT EYGLSEADMEASYATVKMAEQIEADVILLRERQEA
GGRVRYDYLVRKRVGDNDFLEVRVAVVGNVDAGKSTLLGVLTHGELDNRGFRARQKLF RHKHEIESGRTSS
VGNDILGFDSEGNVVNKPDSHGGSL EWTKICEKSSKVI TFIDLAGHEKYLKTTVFGMTGHLPDFCMLMVG
SNAGIVGMTKEHLGLALALNVPVFVVVTKIDMCPANILQETLKLQRLKSPGCRKIPVLVQSKDDVIVT
ASNFSSERMCP IFQISNVTGENLDLLKMFNLNLLSPRTSYREEPAEFQIDDTYSVPGVGT VVSGTTLRGL
IKLNDTLLGPDPLGNFLSIAVKS IHRKMPVKEVRGGQTASFALKKIKRSSIRKGMVMVSPRLNPQASW
EFEAEILVLHPTTISPRYQAMVHCGSIRQTATILSMDKDCLRTGDKATVHFRFIKTPEYLHIDQRLVFR
EGRTKAVGTITKLLQTTNNSPMNSKPQQIKMQSTKKGPLSKREEGGPCGVPAAAGGPPTGDEASSLGTAAQ
ASTSGLQPQPKPSSGRRRRGGQRHKVKSGACVTPASGC
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013818

**ORF Size:** 2007 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\\_013818.2](#), [NP\\_038846.2](#)

**RefSeq Size:** 3444 bp

**RefSeq ORF:** 2007 bp

**Locus ID:** 14904

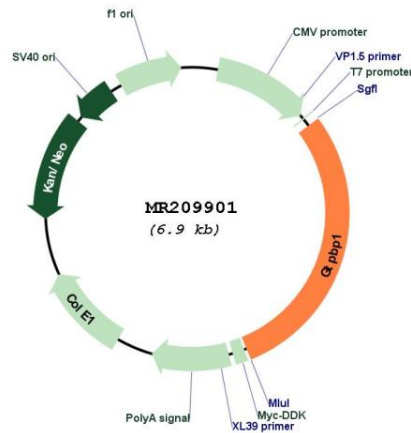
**UniProt ID:** [O08582](#)

**Cytogenetics:** 15 E1

**MW:** 72.3 kDa

**Gene Summary:** Promotes degradation of target mRNA species. Plays a role in the regulation of circadian mRNA stability. Binds GTP and has GTPase activity (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR209901