

Product datasheet for **RR217082**

Gtpbp1 (NM_001199315) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtpbp1 (NM_001199315) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gtpbp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR217082 representing NM_001199315
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGGAGCGGAGTCTCCCGGTGGACTCGCCGGTGCCGGCCTCGATGTTCCGCCCGAGCCCA
 GCTCTCCGGGGCGGCCCGGGCCCGCGGCCCGGGCCGACTCCACGGGGCTTCGACTCCGACTGCAG
 CGAGGACGGCGAGGCGCTCAACGGCGAGCCGGAGCTGGACCTACCAGCAAGCTGGTTCTAGTGAGCCCT
 ACATCAGAGCAGTATGACAGTCTACTTCGGCAGATGTGGGAGAGGATGGACGAGGGATGCGGAGAGACCA
 TATATGTCATTGGGCAGGGATCAGATGGGACTGAGTACGGGCTGAGTGGGCTGACATGGAGGCCTCCTA
 CGCCACAGTGAAGAGCATGGCGGAGCAGATAGAGGCTGACGTATCCTCCTGCGGAACTCAAGAATCG
 GGTGGCCGTGTGCGTACTTAGTCAGGAAACGAGTGGGAGACAATGACTTCTGGAGGTGAGGTGG
 CAGTGGTGGGCAACGTGGATGCTGGCAAAGCACACTCCTGGGAGTCTAACACATGGGGAGCTGGACAA
 TGCCCGGGGCTTTGCCGCCAAAACTCTTTCCGCCAAAAATGAGATTGAATCTGGTGAACACAGCAGC
 GTGGGCAATGACATTCTGGGCTTTGACAGTGAAGCAATGTGGTGAACAAGCCCGACAGCCACGGCGGCA
 GCCTTGAGTGGACAAAGATCTGTGAGAAGTCTCCAAAGTGATCACCTTCATTGACTTGGCTGGCCACGA
 GAAGTACCTTAAGACCACTGTTTTGGCATGACTGGCCATTTGCCTGACTTCTGCATGCTCATGGTGGGC
 AGCAATGCTGGCATCGTGGGGATGACCAAGGAGCACCTGGGCTTGGCACTGGCACTCAATGTACCTGTCT
 TTGTGGTTGTACCAAGATTGACATGTGCTCCTGCCAACATCCTTCAAGAAACCCTGAAGCTGCTACAGCG
 TCTGCTGAAGTACCAGGCTGCCGAAGATCCCTGTCTTGGTGCAGAGCAAGATGATGTATTGTACACA
 GCCTCAACTTCAGCTCTGAGAGGATGTCCCGATATCCAGATCTCCAATGTACAGGTGAGAACCCTTG
 ATCTGCTCAAGATGTTCTCAACCTCCTGTCCCCCGCACCAAGTACAGGGAGGAAGAACCTGCTGAGTT
 CCAGATAGATGATACCTACTCTGTTCTGGTGTGGGGACAGTGGTGTCTGGGACCACACTGCGGGGCTG
 ATCAAAGTGAATGACACACTGCTGCTGGGCCAGACCCTTTGGGTAACCTCCTGTCCATTGCTGTCAAGT
 CGATCCATCGCAAGCGAATGCCTGTCAAGGAGGTACGGGGGGCCAGACAGCCTCCTTGGCACTGAAGAA
 GATCAAGCGCTCATCCATCCGGAAGGCATGGTGTGGTTTCCCGACGCTGAATCCCGAGGCTCCTGG
 GAGTTTGAGGCTGAGATTCTTGTCTCCACCACCCACCACAATTAGTCCACGATACCAAGCCATGGTGC
 ACTGTGGGAGCATCCGGCAGACAGCTACAATTCTGAGCATGGATAAAGACTGTCTGCGCACAGGAGATAA
 AGCCACTGTCCACTTCGCTTCAAGACCCCTGAGTACCTGCACATTGACCAGCGTTGGTGTCCGG
 GAAGGTGAACCAAGGCTGTTGGCACCATCAACCAAGCTCCTCCAGACAACCAACAACCTCCCCATGAACT
 CCAAGCCCGAGCAGATTAATGAGTCCACAAAAAGGGTCCCCTGAGCAACGAGAAGAAGGTGGTCC
 ATCTGGTGTGCCAGCGGAGGGCCCCCTCAACTGGAGATGAGGTTCCCTCGCTAGGGACTACACAAGCT
 GCCACATCCAGTGGTCTCCAGCCACAGCCCAAGCCAGCAGTGGGGGCCGGGACGAGGGGGCCAGCGCC
 ACAAGGTGAAGTCCAGGGGGCTGTGTGACTCCTGCCAGCGGCTGC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217082 representing NM_001199315
Red=Cloning site Green=Tags(s)

MAAERSRSPVDSVPASMFAPPESSPGAARAAAAAARLHGGFSDCSEDGEALNGEPELDLTSKLVLVSP
TSEQYDSSLRQMWERMDEGCGETIYVIGQSDGTEYGLSEADMEASYATVKSMAEQIEADVILLRERQES
GGRVRYDYLVRKRVGDNDLFLEVRVAVVGNVDAGKSTLLGVLTHGELDNRGFRARQKLFRRKHEIESGRTSS
VGNIDILGFDSEGNVVNKPDSHGGSEWTKICEKSSKVIITFDLAGHEKYLKTTVFGMTGHLPDFCMLMVG
SNAGIVGMTKEHLGLALALNVPVFVVVTKIDMCPANILQETLKLQRLKSPGCRKIPVLVQSKDDVIVT
ASNFSSERMCPFIQISNVTGENLDLLKMFNLNLSRPTS YREEEPAEFQIDDTYSVPGVGT VVSGTTLRGL
IKLNDTLLGPDPLGNFLSIAVKS IHRKMPVKEVRGGQTASFALKKIKRSSIRKGMVMVSPRLNPQASW
EFEAEILVLHPTTISPRYQAMVHCGSIRQTATILSMDKDCLRTGDKATVHFRFIKTPEYLHIDQRLVFR
EGRTKAVGTITKLLQTTNNSPMNSKPQQIKMQSTKKGPLSKREEGGPSGVPAAAGPPSTGDEASSLGTQA
ATSSGLQPQPKPSSGRRRRGGQRHKVKVSGACVTPASGC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001199315

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_001199315.1](#), [NP_001186244.1](#)

RefSeq Size: 2647 bp

RefSeq ORF: 2010 bp

Locus ID: 300077

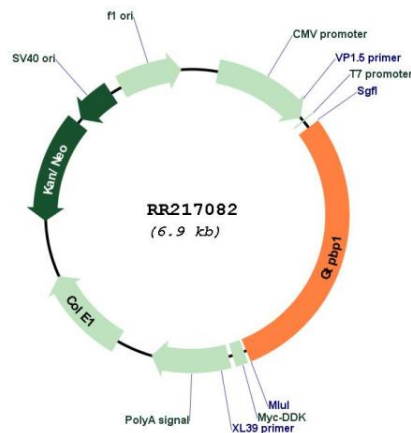
UniProt ID: [D2XV59](#)

Cytogenetics: 7q34

MW: 72.5 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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR217082