

Product datasheet for **MG209901**

Gtpbp1 (NM_013818) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtpbp1 (NM_013818) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gtpbp1
Synonyms:	AL022987; AW045683; C85212; GP-1; Gtpbp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG209901 representing NM_013818
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCGGAGCGGAGTCTGCCCGGTCGACTCGCCGGTGCCGGCCTCGATGTTCCGCCCCGAGCCTA
GCTCTCCGGGGCGGCTCGGGCCCGCGGCCGCGGCCGACTCCATGGCGGCTTCGATTCTGACTGCAG
CGAGGACGGCGAGGCGCTCAACGGCGAGCCGGAGCTGGACCTACCAGCAAGCTGGTTCTAGTGAGCCCT
ACATCAGAGCAGTATGACAGCCTACTTCGGCAGATGTGGGAGAGGATGGACGAGGGATGCGGAGAGACCA
TATATGTCATTGGGCAGGGATCAGATGGGACTGAGTACGGGCTGAGTGAAGCTGACATGGAGGCCTCCTA
CGCCACCCTGAAGAGCATGGCGGAGCAGATAGAGGCTGACGTATCCTCTTACGAGAACCTCAAGAAGCG
GGCGGCCGTGTGCGTGATTACCTAGTCAGGAAACGAGTTGGAGACAATGACTTCTCGGAGGTGAGGTGG
CAGTGGTGGGCAACGTGGATGCTGGCAAAGCACACTCCTGGGAGTCTAACACACGGGGAGCTGGACAA
TGCCCGTGGCTTTGCCCGCAAAAACCTTTTCGCCACAAAACATGAGATTGAATCTGGTGAACACAGCAGT
GTGGGCAATGACATTCTGGGCTTTGACAGCGAAGCAATGTAGTGAACAACCCGACAGCCATGGTGGCA
GCCTCGAATGGACAAAGATCTGTGAGAAGTCTCTAAAGTGATCACCTTCATCGACTTGGCTGGCCACGA
GAAGTACCTTAAGACCACTGTTTTGGCATGACTGGCCACTTGCCTGACTTCTGCATGCTCATGGTGGGC
AGCAATGCTGGCATTGTGGGGATGACCAAGGAGCATCTGGGCTTGGCATTGGCACTCAATGTACCTGTGT
TTGTGGTTGTACCAAGATTGACATGTGCTCCTGCCAACATCCTTCAAGAAACCCTGAAGCTGCTACAGCG
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GCCTCCAACCTCAGCTCTGAGAGGATGTGCCGATATCCAGATCTCCAATGTACAGGTGAGAACCTTG
ACCTGCTCAAGATGTTCTCAACCTCCTGTCCCCCGCACCAAGTACCGGGAGGAGGACCTGCTGAGTT
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ACTGTGGGAGCATCCGGCAAACAGCTACAATTCTGAGCATGGATAAAGACTGTCTGCGCACAGGAGACAA
GGCCACTGTCCACTTCGCTTCAAGACCCAGAGTATCTGCACATAGACCAGCGTTGGTGTCCGG
GAAGGTGAACCAAGGCTGTTGGCACCATACCAAGCTCCTCCAGACAACCAACAACCTCCCCATGAACT
CCAAGCCCAGCAGATTAATGAGTCCACAAAAAGGGTCCCCTGAGCAAACGAGAGGAAGGAGGTCC
ATGTGGGGTGCCGGCGGAGGGGACCCCGACTGGAGATGAAGTTCCTCACTAGGGACTGCACAGGCT
GCCTCAACAGTGGGCTCCAGCCACAGCCCAAGCCAGCAGTGGGGGCGGGGACGAGGGGGCCAGCGCC
ACAAGGTGAAGTCGGGAGCCTGTGTGACTCCTGCCAGCGGCTGC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG209901 representing NM_013818
 Red=Cloning site Green=Tags(s)

MAAERSRSPVDSVPVASMFAPEPSSPGAARAAAAAARLHGGFSDDCSEGEALNGEPELDLTSKLVLVSP
 TSEQYDSSLRQMWERMDEGCGETIYVIGQGSQDTEYGLSEADMEASYATVKMAEQIEADVILLRERQEA
 GGRVRYDYLVRKRVGDNDLFLEVRVAVVGNVDAGKSTLLGVLTHGELDNRGRFARQKLFRRKHEIESGRTSS
 VGNDILGFDSEGNVNVNKPDSHGGSEWTKICEKSSKVIITFDLAGHEKYLKTTVFGMTGHLPDFCMLMVG
 SNAGIVGMTKEHLGLALALNVPVFVVVTKIDMCPANILQETLKLQRLKSPGCRKIPVLVQSKDDVIVT
 ASNFSSERMCPIFIQISNVTGENLDLLKMFNLNLLSPRTSYREEEPAEFQIDDTYSVPGVGTVVSGTTLRGL
 IKLNDTLLLGPDPDPLGNFLSIAVKSIHRKMPVKEVRGGQTASFALKKIKRSSIRKGMVMVSPRLNPQASW
 EFEAEILVLHPTTISPRYQAMVHCGRQATILSMDKDCLRTGDKATVHFRFIKTPEYLHIDQRLVFR
 EGRTKAVGTITKLLQTTNNSPMNSKPQQIKMQSTKKGPLSKREEGGPCGVPAAAGGPPTGDEASSLGTAAQ
 ASTSGLQPQPKPSSGRRRRGGQRHKVKSGACVTPASGC

TRTRPLE - GFP Tag - V

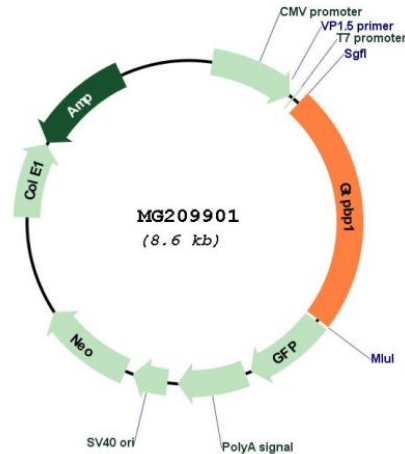
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_013818

ORF Size: 2004 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

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]