

Product datasheet for **MG207333**

Ggnbp1 (BC054732) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ggnbp1 (BC054732) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ggnbp1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG207333 representing BC054732 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGGATGCTTCGACTCCTTTGCCTCCCGCATCCTCATCTCCGAGATGCAACCCAGCCCCACAGACAATCC
ACATTGAGTTCCTCATCATAGCTCTTCGCTGCTGGAATCCCTGAACCGCCACAGGCTGGAGGAAAAGTT
CTGTGATGTGTCCTCCTGGTTCAGGGCAGGGAATTAGGGCTCACAAGCAGTGTGGCTGCTGCCTCT
CCTTACTTCCATGACAAGCTGCTTTGGGGATGCGCCCCGACTGACTTTACCGAATGTCATCGAGGCCG
ATGCGTTCGAGGGACTGCTTCAGCTCATTATTCAGGAAGCCTCCACCTGCCGCTGGATGCCCTCCCTGC
CCATCTCCTTGTAGCCAGCGGCCCTTCAGATGTGGCAAGTGGTAGATCGGTGCTCAGAGATTCTTCGAGAA
CTAGAAACGTCTGGTGGGATTTAGCCGGTGGAAGAGCCTCCAGCCTCACACTTATTTCCACAACATCTT
CAGGAGGCTGGTGCATTGCTCTTCCCCTTTCCAGAACCAGTACGCTCCTCTGCTTCTACAGAGAATTC
TGTTCTCCCTGAGAGCCCCGCTGGAGGGGAGGGGAGTGAAGTGAAGGAATGTTACAGATTACAGGTGAAA
GTAGAGGAGGAAGAGGAGCAGGGGTGAGCAGCTCCACTCTTCAGACTCCTCAGCCGGAGAGAGTGTGCG
GAGGGGTTTCCCAAGCTTGTGGATCCACCCATTGCCTACACCTGCTCTTCCAGCAAGCCTTCAGAGGA
TGAGAGCTCAACAGTAGATCCTCCTGCCCTCCTGTACAAGCTTCCCAAATCTTATATGTGAATCAGGAA
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CAGGCTATGCATGGGCTGTGAAGCTAGGAGGGACACCCCTGCAGATGGGAAGTGTCTTGTGCTTGT
GTGGAAAACGGTTTGCAGTAAAGCCGAAACGAGACCGACACATCATGTTGACGTTACGCCTTCGCCCTTT
TGGATGTGGCATCTGTAATAAACGTTTCAAGTTGAAGCATCATCTAACAGAGCACATGAAGACCATGCG
AGAGCTCTGCATGCGTGTCCCATTTGTGGCCGTCGATTCCGTGTCCAGGCCTTCTTCTTCGCCACCGGG
ACTTATGCAAGGGCCAGGGCTGGCCACTTACCACTGGACTTACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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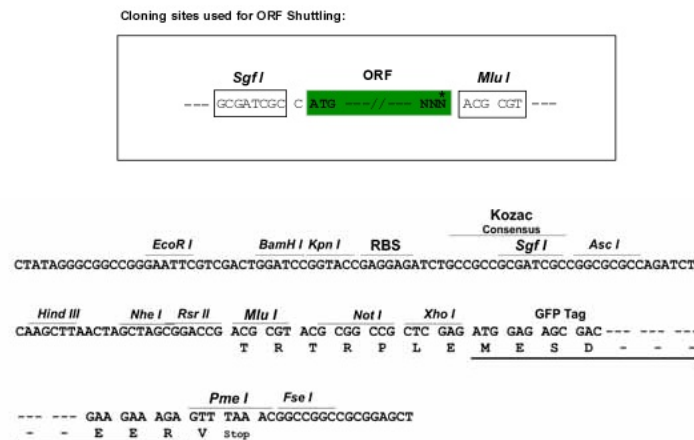
Protein Sequence: >MG207333 representing BC054732
 Red=Cloning site Green=Tags(s)

MDASTPLPPASSSPRCNPAPQTIHIEFPHHSSSLLLESLNRHRLEGKFCDVSLLVQGRELRAHKAVLAAAS
 PYFHDKLLLDGAPRLTLPNVIEADAFEGLLQLIYSGSLHLPLDALPAHLLVASGLQMWQVVDRCSEILRE
 LETSGGISAGGRASSLTISTSSGGWCIRSSPFQNPVRSSASTENSVLPESPAGGEGSELEGMLQIQVK
 VEEEEEQGSAAPLFQTPQPERVSGGVSQACGSHPLPTPALPSKPSEDESSTVDPPAPPVQASQILVYNQE
 NVECKEEIARGTKEKTKVLSGEDSEEKEELRYLLSSGGESSGAGDPSWKPVDLHGNEILSGDGGPGGTG
 QAMHGPVKLGGTPPADGKCFACLCGRFAVKPKRDRHIMLTFSLRPFGCGICNKRFLKHHLTEHMKTHA
 RALHACPHCGRRFRVQAFFLRHRDLCKGQGWPTYHWTYK

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC054732

ORF Size: 1377 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC054732](#)

RefSeq Size: 5028 bp

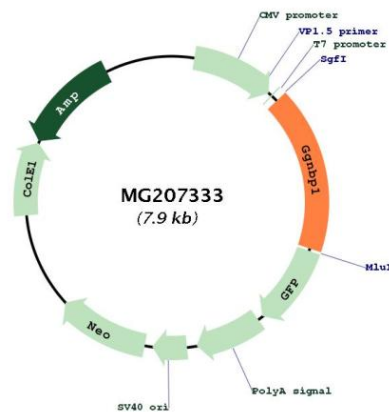
RefSeq ORF: 1379 bp

Locus ID: 70772

Cytogenetics: 17 A3.3

Gene Summary: Induces mitochondrial fragmentation, possibly by promoting DNM1L-dependent fission and may play a role in mitochondrial morphogenesis during spermatogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207333