

## Product datasheet for **MR207333**

### **Ggnbp1 (BC054732) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                          |
|---------------------------|------------------------------------------|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Ggnbp1 (BC054732) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                  |
| Symbol:                   | Ggnbp1                                   |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**ORF Nucleotide Sequence:**

>MR207333 representing BC054732  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**

ATGGATGCTTCGACTCCTTTGCCTCCCGCATCCTCATCTCCGAGATGCAACCCAGCCCCACAGACAATCC  
 ACATTGAGTTCCTCATCATAGCTCTTCGCTGCTGGAATCCCTGAACCGCCACAGGCTGGAGGAAAGTT  
 CTGTGATGTGTCCTCCTGGTTCAGGGCAGGGAATTAGGGCTCACAAGCAGTGTGGCTGCTGCCTCT  
 CCTTACTTCCATGACAAGCTGCTTTGGGGGATGCGCCCCGACTGACTTTACCGAATGTCATCGAGGCCG  
 ATGCGTTCGAGGGACTGCTTCAGCTCATTTATTAGGAAGCCTCCACCTGCCGCTGGATGCCCTCCCTGC  
 CCATCTCCTTGTAGCCAGCGCCTTCAGATGTGGCAAGTGGTAGATCGGTGCTCAGAGATTCTTCGAGAA  
 CTAGAAACGTCTGGTGGGATTTAGCCGGTGAAGAGCCTCCAGCCTCACACTTATTTCCACAACATCTT  
 CAGGAGGCTGGTGCATTCGCTCTTCCCCTTTCCAGAACCAGTACGCTCCTCTGCTTCTACAGAGAATTC  
 TGTTCCTCTGAGAGCCCGCTGGAGGGGAGGGGAGTGAAGTGAAGGAATGTTACAGATTACAGGTGAAA  
 GTAGAGGAGGAAGAGGAGCAGGGGTGAGAGCTCACTCTTTCAGACTCCTCAGCCGGAGAGAGTGTCCG  
 GAGGGGTTTCCCAAGCTTGTGGATCCCACCCATTGCCTACACCTGCTCTTCCAGCAAGCCTTCAGAGGA  
 TGAGAGCTCAACAGTAGATCCTCCTGCCCTCCTGTACAAGCTTCCCAAATCTTATATGTGAATCAGGAA  
 AACGTTGAGTGTAAGGAGGAGATAGCAAGAGGCACAAAGGAAAAGACCAAAGTACTATCTGGAGAGGACT  
 CTGAGGAGAAGGAGGAGCTGAGATACTTGTCTGCTCAGGAGGAGGGGAATCGTCTGGGGCAGGAGATCC  
 ATCGTGGAAACAGTGGATCTTCATGGGAATGAAATCCTGTCAGGGGATGGAGGACCTGGAGGAACAGGG  
 CAGGCTATGCATGGGCCGTGAAGCTAGGAGGGACACCCCTGCAGATGGGAAGTGTCTTGTCTTGTCTGT  
 GTGGAAAACGGTTTGCAGTAAAGCCGAAACGAGACCGACACATCATGTTGACGTTACGCTTCGCCCTTT  
 TGGATGTGGCATCTGTAATAAACGTTTCAAGTTGAAGCATCATCTAACAGAGCACATGAAGACCCATGCG  
 AGAGCTCTGCATGCGTGTCCCATTGTGGCCGTGATTCCGTGTCCAGGCCTTCTCCTTCGCCACCGGG  
 ACTTATGCAAGGGCCAGGGCTGGCCCACTTACCACTGGACTTACAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207333 representing BC054732  
 Red=Cloning site Green=Tags(s)

MDASTPLPPASSSPRCNPAPQTIHIEFPHHSSSLLLESLNRHRLGKFCDVSLLVQGRELRAHKAVLAAAS  
 PYFHDKLLLGDAPRLTLPNVIEADAFEGLQLIYSGSLHLPLDALPAHLLVASGLQMWQVVDRCSEILRE  
 LETSGGISAGGRASSLTISTTSSGGWCIRSPFQNPVRSSASTENSVLPESPAGGEGSELEGMLQIQVK  
 VEEEEEQGSAAPLFQTPQPERVSGGVSQACGSHPLPTPALPSKPSEDESSTVDPPAPPVQASQILYVNQE  
 NVECKEEIARGTKEKTKVLSGEDSEEKEELRYLLSSGGESSGAGDPSWKPVDLHGNEILSGDGGPGGTG  
 QAMHGPVKLGGTPPADGKCFACLCGRFAVKPKRDRHIMLTFSLRPFGCGICNKRFLKHHLTEHMKTHA  
 RALHACPHCGRRFRVQAFFLRHRDLCKGQGWPTYHWTYK

**TR**TRPLE**QKLISEEDLAANDILDYKDDDDKV**

**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](#)

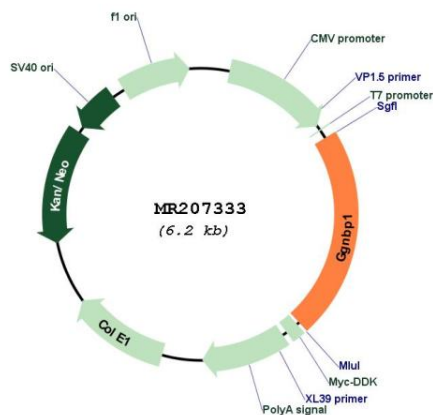
RefSeq Size: 5028 bp

RefSeq ORF: 1379 bp

Locus ID: 70772

|                      |                                                                                                                                                                                              |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cytogenetics:</b> | 17 A3.3                                                                                                                                                                                      |
| <b>MW:</b>           | 184.4 kDa                                                                                                                                                                                    |
| <b>Gene Summary:</b> | 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 MR207333