

## Product datasheet for **MG200586**

### Nppb (NM\_008726) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nppb (NM\_008726) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Nppb  
**Synonyms:** AA408272; BNF; BNP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200586 representing NM\_008726  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGATCTCCTGAAGGTGCTGTCCAGATGATTCTGTTTCTGCTTTTCTTTATCTGTCACCGCTGGGAG  
 GTCACCTCTATCCTCTGGGAAGTCCTAGCCAGTCTCCAGAGCAATTCAAGATGCAGAAGCTGCTGGAGCT  
 GATAAGAGAAAAGTCGGAGGAAATGGCCAGAGACAGCTCTTGAAGGACCAAGGCCTCACAAAAGAACAC  
 CAAAAAGAGTCCTTCGGTCTCAAGGCAGCACCTCCGGGTCCAGCAGAGACCTCAAAATCCAAGGTGA  
 CACATATCTCAAGCTGCTTTGGGCACAAGATAGACCGATCGGATCCGTCAGTCGTTGGGCTGTAAACGC  
 ACTGAAGTTGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200586 representing NM\_008726  
Red=Cloning site Green=Tags(s)

MDLLKVLSQLMILFLLFLYLSPLGGHSYPLGSPSQSPEQFKMQKLELIREKSEEMAQRQLLDQGLTKEH  
 PKRVLRSGSTLRVQRPQNSKYTHISSCFGHKIDRIGSVSRLLGCNALKLL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI


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Cloning Scheme:



ACCN: NM\_008726

ORF Size: 363 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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:** [NM\\_008726.6](#)

**RefSeq Size:** 797 bp

**RefSeq ORF:** 366 bp

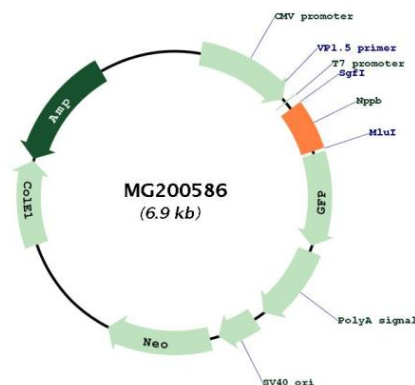
**Locus ID:** 18158

**UniProt ID:** [P40753](#)

**Cytogenetics:** 4 78.57 cM

**Gene Summary:** This gene encodes a secreted protein that belongs to the family of natriuretic peptides. Its precursor protein is processed to generate the active mature peptide. The mature peptide is a cardiac hormone that plays a role in ventricular remodeling as well as blood pressure regulation. Mice lacking this gene exhibit cardiac fibrosis. In humans this gene is associated with congestive heart failure, low bone-mineral density and postmenopausal osteoporosis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2013]

## Product images:



Circular map for MG200586