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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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCTCCTGAAGGTGCTGTCCCAGATGATTCTGTTTCTGCTTTTCCTTTATCTGTCACCGCTGGGAG
GTCACTCCTATCCTCTGGGAAGTCCTAGCCAGTCTCCAGAGCAATTCAAGATGCAGAAGCTGCTGGAGCT
GATAAGAGAAAAGTCGGAGGAAATGGCCCAGAGACAGCTCTTGAAGGACCAAGGCCTCACAAAAGAACAC
CCAAAAAGAGTCCTTCGGTCTCAAGGCAGCACCCTCCGGGTCCAGCAGAGACCTCAAAATTCCAAGGTGA
CACATATCTCAAGCTGCTTTGGGCACAAGATAGACCGGATCGGATCCGTCAGTCGTTTGGGCTGTAACGC
ACTGAAGTTGTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG200586 representing NM_008726
Red=Cloning site Green=Tags(s)

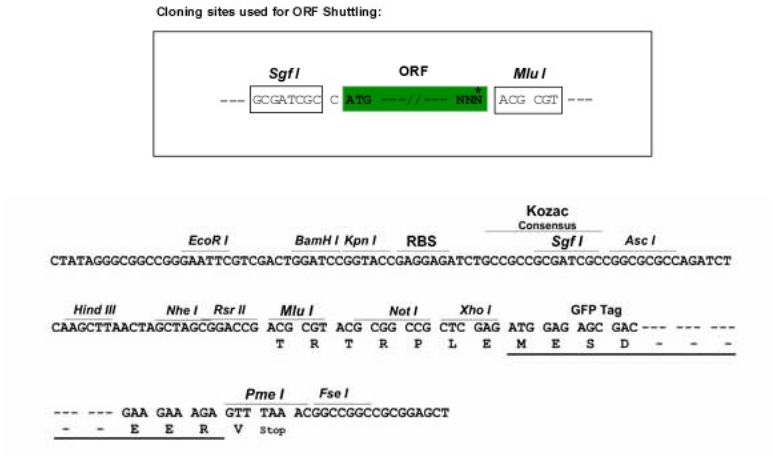
MDLLKVLSQMILFLLFLYLSPLGGHSYPLGSPSQSPEQFKMQKLLELIREKSEEMAQRQLLKDQGLTKEH
PKRVLRSQGSTLRVQQRPQNSKVTHISSCFGHKIDRIGSVSRLGCNALKLL

TRTRPLE - GFP Tag - V

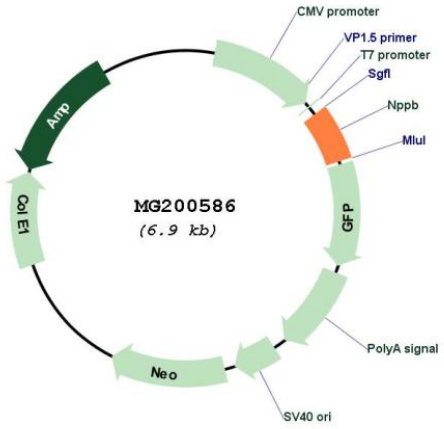
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



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 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.
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]