

Product datasheet for MR227949

Nppb (NM_001287348) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nppb (NM_001287348) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nppb
Synonyms: AA408272; BNF; BNP
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227949 representing NM_001287348
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATCTCCTGAAGGTGCTGTCCAGATGATTCTGTTTCTGCTTTTCCTTTATCTGTCACCGCTGGGAG
 GTCCTCTATCCTCTGGGAAGTCTAGCCAGTCTCCAGAGCAATCAAGATGCAGCTGCTGGAGCTGAT
 AAGAGAAAAGTCGGAGGAAATGGCCAGAGACAGCTCTTGAAGGACCAAGGCCTCACAAAAGAACACCCA
 AAAAGAGTCTTCGGTCTCAAGGCAGCACCTCCGGGTCCAGCAGAGACCTCAAAATTCAGGTGACAC
 ATATCTCAAGCTGCTTTGGGCACAAGATAGACCGGATCGGATCCGTCAGTCGTTTGGGCTGTAACGCACT
 GAAGTTGTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227949 representing NM_001287348
 Red=Cloning site Green=Tags(s)

MDLLKVLQSMILFLLFLYL SPLGGHSYPLGSPSQSPEQFKMQLLELIREKSEEMAQRQLLDQGLTKEHP
 KRVLRVSGSTLRVQRPQNSKVTHISSCFGHKIDRIGSVSRLGCNALKLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

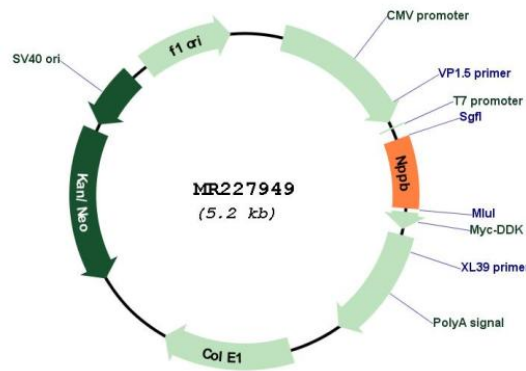


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001287348

ORF Size: 360 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:	<ol style="list-style-type: none">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_001287348.2
RefSeq Size:	778 bp
RefSeq ORF:	363 bp
Locus ID:	18158
UniProt ID:	P40753
Cytogenetics:	4 78.57 cM
MW:	14.1 kDa
Gene Summary:	<p>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]</p>