

Product datasheet for **MG227047**

Nppa (NM_008725) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Nppa (NM_008725) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Nppa

Synonyms: A; Anf; ANP; CDD; P; Pnd

Mammalian Cell Selection: Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG227047 representing NM_008725
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTCCTTCTCCATCACCTGGGCTTCTTCCTCGTCTTGGCCTTTGGCTTCCAGGCCATATTGGAG
CAAATCCTGTGTACAGTGCAGTGTCCAACACAGATCTGATGGATTCAAGAACCTGCTAGACCACCTGGA
GGAGAAGATGCCGCTAGAAGATGAGGTATGCCCCGAGGCCCTGAGTGAGCAGACTGAGGAAGCAGGG
GCCGCACTTAGCTCCCTCCCGAGGTGCCTCCCTGGACTGGGGAGGTCAACCCACCTCTGAGAGACGGCA
GTGCTCTAGGGCGCAGCCCTGGGACCCCTCCGATAGATCTGCCCTCTTAAAAAGCAAAGTAGGGGCTCT
GCTCGCTGGCCCTCGGAGCCTACGAAGATCCAGCTGCTTCGGGGGTAGGATTGACAGGATTGGAGCCAG
AGTGGACTAGGCTGCAACAGCTTCCGGTACCGAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227047 representing NM_008725
Red=Cloning site Green=Tags(s)

MGSFSITLGFFLVLAFWLPGHIGANPVYSAVSNTDLMDFKNLLDHLEEKMPVEDEVMPQPALSEQTEEAG
AALSSLPEVPPWTGEVNPPLRDGSALGRSPWPSDRSALLKSKLRALLAGPRSLRRSSCFGGRIDRIGAQ
SGLGCNSFRYRR

TRTRPLE - GFP Tag - V

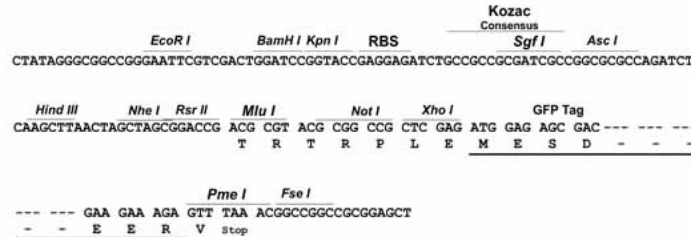
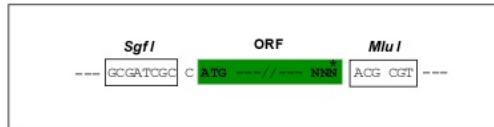
Restriction Sites: SgfI-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_008725

ORF Size: 456 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.

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

RefSeq: [NM_008725.3](#), [NP_032751.1](#)

RefSeq Size: 844 bp

RefSeq ORF: 459 bp

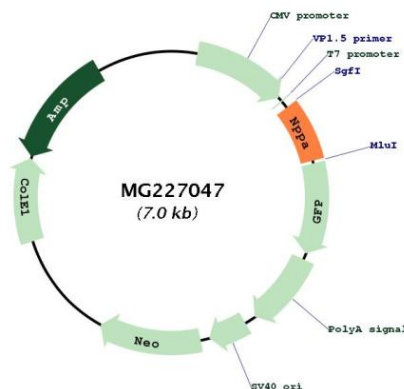
Locus ID: 230899

UniProt ID: [P05125](#)

Cytogenetics: 4 78.66 cM

Gene Summary: This gene encodes members of the natriuretic family of peptides that play an important role in the control of extracellular fluid volume and electrolyte homeostasis. The encoded protein precursor undergoes proteolytic processing to generate multiple functional peptides. Mice lacking the encoded peptides exhibit salt-sensitive hypertension. The transgenic overexpression of the encoded peptides in mice decreases arterial blood pressure without inducing diuresis and natriuresis. This gene is located adjacent to another member of the natriuretic family of peptides on chromosome 4. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MG227047