

Product datasheet for **RG203236**

ANP (NPPA) (NM_006172) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ANP (NPPA) (NM_006172) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ANP
Synonyms: ANF; ANP; ATFB6; ATRST2; CDD; CDD-ANF; CDP; PND
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203236 representing NM_006172
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTCCTTCTCCACCACCACCGTGAGCTTCTCCTTTTACTGGCATTCCAGCTCCTAGGTCAGACCA
 GAGCTAATCCCATGTACAATGCCGTGTCCAACGCAGACCTGATGGATTTCAAGAATTTGCTGGACCATTT
 GGAAGAAAAGATGCCTTTAGAAGATGAGGTCGTGCCCCACAAGTGCTCAGTGAGCCGAATGAAGAAGCG
 GGGGCTGCTCTCAGCCCCCTCCCTGAGGTGCCTCCCTGGACCGGGGAAGTCAGCCAGCCAGAGAGATG
 GAGGTGCCCTCGGGCGGGCCCCCTGGGACTCCTCTGATCGATCTGCCCTCTAAAAGCAAGCTGAGGGC
 GCTGCTCACTGCCCTCGGAGCCTGCGGAGATCCAGCTGCTTCGGGGCAGGATGGACAGGATTGGAGCC
 CAGAGCGGACTGGGCTGTAAACAGCTTCCGGTACCGAAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203236 representing NM_006172
 Red=Cloning site Green=Tags(s)

MSSFSTTTVSFLLLLAFQLLGQTRANPMYNAVSADLMDFKNLLDHLEEKMPLEDEVPPQVLSEPNEEA
 GAALSPLPEVPPWTGEVSPAQRDGGALGRGPWDSDRSALLKSKLRALLTAPRSLRRSSCFGGRMDRIGA
 QSLGNCNSFRYRR

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_006172

ORF Size: 459 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_006172.1](#), [NP_006163.1](#)

RefSeq Size: 845 bp

RefSeq ORF: 456 bp

Locus ID: 4878

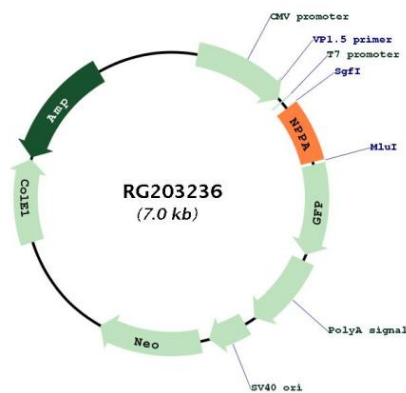
UniProt ID: [P01160](#)

Cytogenetics: 1p36.22

Protein Families: Secreted Protein, Transmembrane

Gene Summary: The protein encoded by this gene belongs to the natriuretic peptide family. Natriuretic peptides are implicated in the control of extracellular fluid volume and electrolyte homeostasis. This protein is synthesized as a large precursor (containing a signal peptide), which is processed to release a peptide from the N-terminus with similarity to vasoactive peptide, cardiodilatin, and another peptide from the C-terminus with natriuretic-diuretic activity. Mutations in this gene have been associated with atrial fibrillation familial type 6. This gene is located adjacent to another member of the natriuretic family of peptides on chromosome 1. [provided by RefSeq, Oct 2015]

Product images:



Circular map for RG203236