

## **Product datasheet for RC225252**

#### OriGene Technologies, Inc.

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### CAPON (NOS1AP) (NM\_001126060) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: CAPON (NOS1AP) (NM\_001126060) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: CAPON

Synonyms: 6330408P19Rik; CAPON; NPHS22

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC225252 representing NM\_001126060
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTCCCTCTCTCTCTCTGTCCTGTCTTCTCTGCCGCTGCCTTCTCTCTGCAGGTACACTTGCTGAAGG
ACCAGTTGGCTGAGGCTGCGGCGGCGGGCTGGAGGCCCAGGCTCGCTGCATCAGCTTTTGCTGCAGAA
CAAGGACATGCTCCAGCACATCTCCCTGCTGGTCAAGCAGGTGCAAGAGCTGGAACTGAAGCTGTCAGGA
CAGAACGCCATGGGCTCCCAGGACAGCTTGCTGGAGATCACCTTCCGCTCCGGAGCCCTGCCCGTGCTCT
GTGACCCCACGACCCCTAAGCCAGAGGACCTGCATTCGCCGCCGCTGGGCGGGGCTTGGCTGACTTTGC
CCACCCTGCGGGCAGCCCCTTAGGTAGGCGCGACTGCTTGGTGAAGCTGGAGTGCTTTCCTCCG
CCCGAGGACACCCCCCAGCGCAGGGCGAGGGCGTCCTGGGCGGTCTGGAGCTCATCAAGTTCCGAG
AGTCAGGCATCGCCTCGGAGTACGAGTCCAACACGGACGAGAGCGAGGAGCGCGACTCGTGGTCCCAGGA
GGAGCTGCCGCGCCTGCTGAATGTCCTGCAGAGGCAGGAACTGGCCGACGGCCTGGATGATAGAGATCGCC
GTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC225252 representing NM\_001126060

Red=Cloning site Green=Tags(s)

MSLSSLCPVFSAAASSLQVHLLKDQLAAEAAARLEAQARVHQLLLQNKDMLQHISLLVKQVQELELKLSG QNAMGSQDSLLEITFRSGALPVLCDPTTPKPEDLHSPPLGAGLADFAHPAGSPLGRRDCLVKLECFRFLP PEDTPPPAQGEALLGGLELIKFRESGIASEYESNTDESEERDSWSQEELPRLLNVLQRQELGDGLDDEIA V

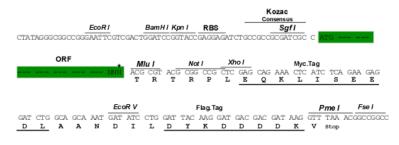
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk8033">https://cdn.origene.com/chromatograms/mk8033</a> b02.zip

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_001126060

ORF Size: 633 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 <a href="mailto:customercom">customercom</a> 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

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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 001126060.1, NP 001119532.2

 RefSeq ORF:
 636 bp

 Locus ID:
 9722

 UniProt ID:
 075052

 Cytogenetics:
 1q23.3

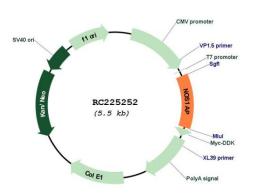
 MW:
 22.8 kDa

**Gene Summary:** This gene encodes a cytosolic protein that binds to the signaling molecule, neuronal nitric

oxide synthase (nNOS). This protein has a C-terminal PDZ-binding domain that mediates interactions with nNOS and an N-terminal phosphotyrosine binding (PTB) domain that binds to the small monomeric G protein, Dexras1. Studies of the related mouse and rat proteins have shown that this protein functions as an adapter protein linking nNOS to specific targets, such as Dexras1 and the synapsins. Alternative splicing results in multiple transcript variants

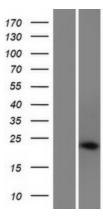
encoding different isoforms. [provided by RefSeq, Sep 2009]

# **Product images:**



Circular map for RC225252





Western blot validation of overexpression lysate (Cat# [LY426640]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225252 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).