

Product datasheet for **RG225252**

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:	TurboGFP
Symbol:	NOS1AP
Synonyms:	6330408P19Rik; CAPON; NPHS22
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225252 representing NM_001126060 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCCTCTTCTCTCTGTCTTCTCTGCGCTGCCTCTTCTCTGCAGGTACACTTGCTGAAGG
ACCAGTTGGCTGCTGAGGCTGCGGCGGGCTGGAGGCCAGGCTCGCGTGCATCAGCTTTTGCTGCAGAA
CAAGGACATGCTCCAGCACATCTCCCTGCTGGTCAAGCAGGTGCAAGAGCTGGAAGCTGAAGCTGTCAGGA
CAGAACGCCATGGGCTCCAGGACAGCTTGTGGAGATCACCTTCGGCTCCGGAGCCCTGCCGTGCTCT
GTGACCCACGACCCCTAAGCCAGAGGACCTGCATTTCGGCGCGCTGGGCGGGCTTGGCTGACTTTGC
CCACCCTGCGGGCAGCCCTTAGGTAGGCGGACTGCTTGGTGAAGCTGGAGTGCTTTCGCTTTCTCCG
CCCGAGGACACCCGCCCCAGCGCAGGGCGAGGCGCTCCTGGGCGGTCTGGAGCTCATCAAGTCCGAG
AGTCAGGCATCGCTCGGAGTACGAGTCCAACACGGACGAGAGCGAGGAGCGGACTCGTGGTCCCAGGA
GGAGTGCCGCGCTGCTGAATGCTCCTGCAGAGGCAGGAAGTGGGCGACGGCCTGGATGATGAGATCGCC
GTG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225252 representing NM_001126060
Red=Cloning site Green=Tags(s)

MSLSSSLCPVFSAAASSLQVHLLKDQLAAEAAARLEAQRVHQLLLQNKDMLQHISLLVKQVQVELELKL SG
 QNAMGSQDSLLEITFRSGALPVLCDPTTPKPEDLHSPPLGAGLADFAHPAGSPLGRRDCLVKLECFRFLP
 PEDTPPPAQGEALLGGLLEIKFRESGIASEYESNTDESEERDSWSQEELPRLNLVLRQELGDGLDDEIA
 V

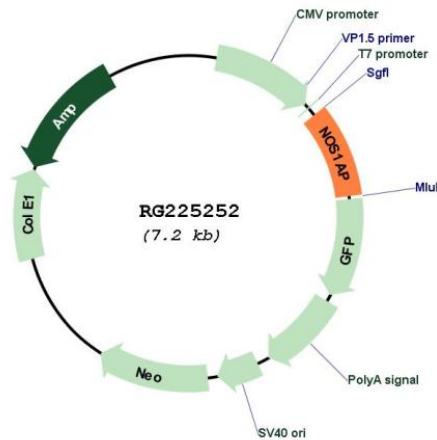
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001126060

ORF Size: 633 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_001126060.1, NP_001119532.2</p>
RefSeq Size:	<p>5559 bp</p>
RefSeq ORF:	<p>636 bp</p>
Locus ID:	<p>9722</p>
UniProt ID:	<p>O75052</p>
Cytogenetics:	<p>1q23.3</p>
Gene Summary:	<p>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, Dexas1. 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 Dexas1 and the synapsins. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2009]</p>