

## Product datasheet for **RC228510**

### eNOS (NOS3) (NM\_001160111) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                               |
| Product Name:             | eNOS (NOS3) (NM_001160111) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK   |
| Symbol:                   | eNOS  |
| Synonyms:                 | ECNOS; eNOS                                       |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                              |



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**ORF Nucleotide Sequence:**

>RC228510 representing NM\_001160111  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCAACTGAAGAGCGTGGCCAGGAGCCTGGGCCACCTGCGGCCCTGGGGCTGGGGCTGGGCCTTG  
 GGCTGTGCGGCAAGCAGGGCCAGCCACCCGGCCCTGAGCCAGCCGGGCCAGCATCCCTACTCCC  
 ACCAGCGCCAGAACACAGCCCCGAGCTCCCCGCTAACCCAGCCCCAGAGGGGCCAAGTTCCTCGT  
 GTGAAGAAGTGGGAGTGGGAGCATCACCTATGACACCCTCAGCGCCAGGCGCAGCAGGATGGCCCT  
 GCACCCAAAGACGCTGCCTGGGCTCCCTGGTATTTCCACGGAACTACAGGGCCGGCCCTCCCCGGCC  
 CCCGGCCCTGAGCAGCTGCTGAGTCAGGCCGGGACTTCATCAACCAGTACTACAGCTCCATTAAGAGG  
 AGCGGCTCCAGGCCACGAACAGCGGCTTCAAGAGGTGGAAGCCGAGGTGGCAGCCACAGGCACCTACC  
 AGCTTAGGGAGAGCGAGCTGGTGTTCGGGGCTAAGCAGGCTGGCGCAACGCTCCCCGCTCGTGGGCCG  
 GATCCAGTGGGGGAAGCTGCAGGTGTCGATGCCCGGACTGCAGTCTGCACAGGAAATGTTACCTAC  
 ATCTGCAACCACATCAAGTATGCCACCAACCGGGCAACCTTCGTCGGCCATCACAGTGTCCCGCAGC  
 GCTGCCCTGGCCGAGGAGACTTCCGAATCTGGAACAGCCAGCTGGTGGCTACGCGGGCTACCGGCAGCA  
 GGATGGCTCTGTGCGGGGGACCCAGCCAACTGGAGATCACCGAGCTCTGCATTAGCAGCGCTGGACC  
 CCAGGAAACGGTTCGCTTCGACGTGCTGCCCTGCTGCTGCAGGCCAGATGATCCCCAGAACTTTCC  
 TTCTGCCCCCGAGCTGGTCTTTCAGGTGCCCTGGAGCACCCACGCTGGAGTGGTTTGCAGCCCTGGG  
 CCTGCGCTGGTACGCCCTCCCGCAGTGTCAAACATGCTGCTGGAATTTGGGGCCTGGAGTTCGCCGA  
 GCCCTTCAGTGGTGGTACATGAGCACTGAGATCGGCACGAGGAACCTGTGTGACCCTCACCGCTACA  
 ACATCCTGGAGGATGGCTGTCTGCATGGACCTGGATACCCGGACCACCTCGTCCCTGTGGAAAGACAA  
 GGCAGCAGTGGAAATCAACGTGGCCGTGCTGCACAGTTACCAGCTAGCCAAAGTACCATCGTGGACCAC  
 CACGCCGCCACGGCTCTTTCATGAAGCACCTGGAGAATGAGCAGAAGGCCAGGGGGGGCTGCCCTGCAG  
 ACTGGGCTGGATCGTGCCCCCATCTCGGGCAGCCTCACTCCTGTTTTCCATCAGGAGATGGTCAACTA  
 TTTCTGTCCCCGGCTTCCGCTACCAGCCAGACCCTGGAAGGGGAGTCCGCCAAGGGCACCGGCATC  
 ACCAGGAAGAAGACCTTTAAAGAAGTGGCAACCGGTGAAGATCTCCGCTCGCTCATGGGCACGGTGA  
 TGGCGAAGCGAGTGAAGGCGACAATCCTGTATGGCTCCGAGACCGCCGGGCCAGAGCTACGCACAGCA  
 GCTGGGGAGACTTCCGGAAGGCTTTTGATCCCCGGTCTGTGTATGGATGAGTATGACGTGGTGTCC  
 CTGAACACGAGACGCTGGTGTGGTGAACAGCACATTTGGGAATGGGGATCCCCGGAGAATGGAG  
 AGGGTCTCACTTTGTGGCCAGGCTGGAGTGCAGTGTACAATACGGCTCACTGACGCCTAACCTCCT  
 AGACTCAAGCAATCCTCCCACTTCAACCTCCCAAGTAGTTGGGACTACAGGCGCATGCCATGATGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228510 representing NM\_001160111  
 Red=Cloning site Green=Tags(s)

MGNLKSVAQEPGPPCGLGLGLGLGLCGKQGPATPAPEPSRAPASLLPPAPEHSPPSSPLTQPPEGPKFPR  
 VKNWEVGSITYDTLSAQAAQDGPCTPRRCLGSLVFPRKLQGRPSGPPAPEQLLSQARDFINQYSSIKR  
 SGSQAHEQRLQEVEAEEAATGTQYQLRESELVFGAKQAWRNAPRCVGRIQWGLQVFDARDCRSAQEMFTY  
 ICNHIKYATNRGNLRSATVFPQRCPGRGDFRIWNSQLVRYAGYRQDGSVRGDPANVEITELCIQHWGT  
 PNGRFDVLPDLLQAPDDPPELFLLPPELVLEVPLEHPTLEWFAALGLRWYALPAVSNMILLEIGGLEFPA  
 APFSGWYMSTEIGTRNLCDPHRYNILEDVAVCMDLDRTRTSSSLWKDKAAVEINAVLHSHYQLAKVTIVDH  
 HAATASFMKHLENEQKARGGCPADWAWIVPPIISGSLTPVFHQEMVNYFLSPAFRYQPDWPWGSAAKGTGI  
 TRKKTFFKEVANAVKISASLMGMTVMKRKATILYGETGRAQSYAQLGRLFRKAFDPRVLCMDEYDVVS  
 LEHETLVLVVSTFTGNGDPPENGEGLTLWPRLECSSTITAHCSLNLLDSSNPPTSTSQVVGTTGACHDA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk8070\\_e08.zip](https://cdn.origene.com/chromatograms/mk8070_e08.zip)  
 Restriction Sites: SgfI-MluI  
 Cloning Scheme:



ACCN: NM\_001160111

ORF Size: 1887 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:
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\\_001160111.1](#), [NP\\_001153583.1](#)

RefSeq ORF: 1890 bp

Locus ID: 4846

UniProt ID: [P29474](#)

Cytogenetics: 7q36.1

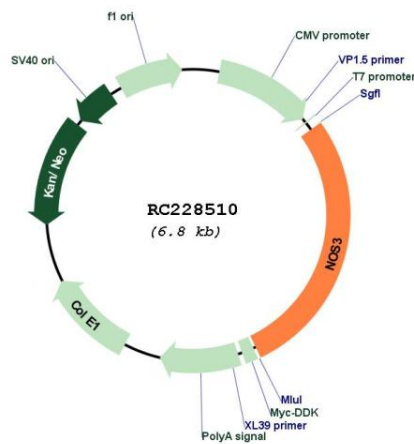
Protein Families: Druggable Genome

Protein Pathways: Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Arginine and proline metabolism, Calcium signaling pathway, Long-term depression, Metabolic pathways, Pathways in cancer, Small cell lung cancer, VEGF signaling pathway

MW: 68.8 kDa

Gene Summary: Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. Nitric oxide is synthesized from L-arginine by nitric oxide synthases. Variations in this gene are associated with susceptibility to coronary spasm. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Oct 2016]

**Product images:**



Circular map for RC228510