

Product datasheet for **SC327145**

eNOS (NOS3) (NM_001160111) Human Untagged Clone

Product data:

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



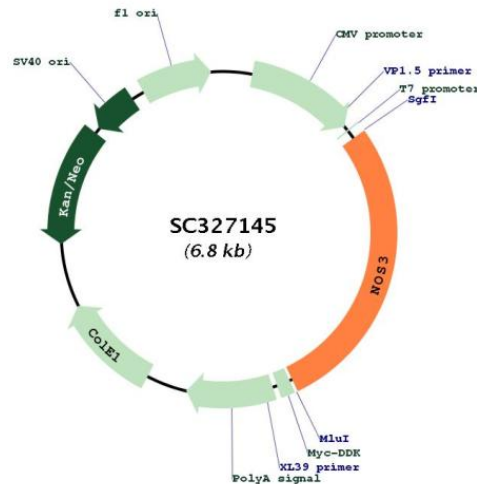
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Fully Sequenced ORF: >SC327145 representing NM_001160111.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCAACTTGAAGAGCGTGGCCAGGAGCCTGGGCCACCCTGCGGCCTGGGGCTGGGGCTGGGCCTT
GGGCTGTGCGCAAGCAGGGCCAGCCACCCCGCCCTGAGCCAGCCGGGCCAGCATCCCTACTC
CCACCAGCGCCAGAACACAGCCCCGAGCTCCCGCTAACCCAGCCCCAGAGGGGCCAAGTTCCCT
CGTGTGAAGAAGTGGGAGGTGGGAGCATCACCTATGACACCCTCAGCGCCAGGCGCAGCAGGATGGG
CCCTGCACCCCAAGAGCGCTGCCTGGGCTCCCTGGTATTTCCACGGAAACTACAGGGCCGGCCCTCCCC
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GCCTCGCTCATGGGCACGGTGTGGCGAAGCGAGTGAAGGCGACAATCCTGTATGGCTCCGAGACCGGC
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ACTACAGGCGCATGCCATGATGCCTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001160111

Insert Size: 1890 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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](#)

RefSeq Size: 2546 bp

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:	69 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4), also known as eNOS13C, uses an alternate 3' exon and poly-adenylation site, compared to variant 1. The resulting isoform (4) has a shorter and distinct C-terminus, compared to isoform 1.</p>