

Product datasheet for **SC319846**

NOSTRIN (NM_001039724) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOSTRIN (NM_001039724) Human Untagged Clone
Tag:	Tag Free
Symbol:	NOSTRIN
Synonyms:	DaIP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001039724.1
 CAACATGAGGGACCCACTGACAGATTGTCCGTATAATAAAGTATACAAGAACCTAAAGGA
 GTTTTCTCAAATGGAGAGAATTTCTGCAAACAGGTCACATCTGTTCTTCAGCAAAGGC
 AAACCTGGAAATTAGCTATGCCAAAGGACTTCAGAAACTGGCAAGCAAGCTGAGCAAAGC
 ATTACAGAACACGAGAAAAAGTTGTGTTAGCAGTGCCTGGGCCTGGGCCTCAGAGGGAAT
 GAAATCCACAGCGACCTGCATCAAAAATTGGCAAAGCAATTGAATTGGAAGCAATAAA
 ACCGACTTATCAAGTCCTAAATGTACAAGAGAAGAAGAAAAATCACTTGACAATGAAGT
 TGAAGAAGACAGCAAATCTTGTATTAGCAACTGGAATCAGCAAATTAAGGCCAAGAAGAA
 ATTAATGGTTAGTACCAAGAAACATGAAGCACTTTTCCAGCTTGTAGAAAGCTCCAAGCA
 ATCTATGACTGAGAAGGAGAAGCGGAAGCTCCTCAATAAACTGACAAAATCAACTGAAAA
 GTTGGAAAAGGAAGATGAAAATTACTACCAAAAAAACATGGCGGGTTATTCTACCAGACT
 GAAATGGGAAAACACACTAGAGAACTGCTACCAGAGCATTCTGGAGCTGGAGAAGGAAAG
 AATTCACTTTTATGCAATAACTTAAACCAGTACAGCCAACATATTTCTTTTTGGCCA
 AACCTGACCACATGCCACACGCAGATTCCTGTGCCATCAGCAAGATTGACATTGAAAA
 AGATATCCAGGCTGTAATGGAAGAACTGCAATTTTATCTACAGAAAACAAATCTGAGTT
 CCTGTTAACGGATTACTTTGAAGAAGATCTAACAGTGAATGGATAAAGAGAGACGAAA
 GTCTTTACTAAAACAAAATTATTGAGACTGCAGAGAGACATTGAAAAAGCCTCAAAAGA
 CAAGGAAGGCCTGGAACGAATGCTTAAAACGTAATCCAGCACCTCCTCCTTCTCTGATGC
 AAAGAGCCAGAAAGACACAGCAGCGTAAATGGATGAGAACAATTTGAAACTAGACCTTTT
 GGAAGCGAACTCTACAACTGTCATCAATGTTAGCAGAACTTGAGCAAAGACCTCAACC
 CAGCCATCCTTGTAGTAATTCATCTTCAGGTGGAGGGAAAAGGAGCATACTCATAGCTA
 TGTGAAAATATCTCGGCCTTTTTAATGAAGAGATTAGAGAATATTGTGAGCAAGGCATC
 TTCTGGTGGGAGAGCAATCCAGTTCTTCAACTCCAGCCCTGGTGCAGCCACGCTCAG
 CAGCAGACTTTGCAAGGCCTTGTATTCTTTTCAAGCCAGGCAAGATGATGAGTTGAATTT
 GGAAAAGGGTGACATTGTGATTATACACGAGAAAAAAGAAGGATGGTGGTTTGGATC
 TTTGAATGGGAAAAAAGGCCATTTTCTGCCGCTTATGTGGAGGAGTTACCTTCAATGC
 TGGCAACACAGCTACAAAGGCATAAAACAAGACTCTGAACATACTACCTTCACTACGCT
 AATCAACAATACAGTGTGGTTCAAATAAGAATAAAGTGTCTTACCCAAAAA
 AAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001039724

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_001039724.1](#), [NP_001034813.1](#)

RefSeq Size: 1635 bp

RefSeq ORF: 1521 bp

Locus ID: 115677

UniProt ID: [Q8IVI9](#)

Cytogenetics: 2q24.3

Gene Summary: Nitric oxide (NO) is a potent mediator in biologic processes such as neurotransmission, inflammatory response, and vascular homeostasis. NOSTRIN binds the enzyme responsible for NO production, endothelial NO synthase (ENOS; MIM 163729), and triggers the translocation of ENOS from the plasma membrane to vesicle-like subcellular structures, thereby attenuating ENOS-dependent NO production.[supplied by OMIM, Apr 2004]
Transcript Variant: This variant is a dominant transcript and encodes a 506aa protein (isoform 2).