

## Product datasheet for **SC320459**

### **NOSTRIN (NM\_052946) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NOSTRIN (NM_052946) Human Untagged Clone
Tag:	Tag Free
Symbol:	NOSTRIN
Synonyms:	DaIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_052946.2  
 CCAGAATGCTGGAGCGTAGGTGAAAGGACAAAAGCCAGACACATTTCAACATGAGGGACC  
 CACTGACAGATTGTCCGGGCAAACCTGGAAATTAGCTATGCCAAAGGACTTCAGAAACTG  
 GCAAGCAAAGCTGAGCAAAGCATTACAGAACACGAGAAAAAGTTGTGTTAGCAGTGCCTGG  
 GCCTGGGCCTCAGAGGGAATGAAATCCACAGCGGACCTGCATCAAAAACCTGGCAAAGCA  
 ATTGAATTGGAAGCAATAAAACCGACTTATCAAGTCCTAAATGTACAAGAGAAGAAGAGA  
 AAATCACTTGACAATGAAGTTGAAAAGACAGCAAATCTTGTCTTAGCAACTGGAATCAG  
 CAAATTAAGGCCAAGAAGAAATTAATGGTTAGTACCAAGAAACATGAAGCACTTTTCCAG  
 CTTGTAGAAAGCTCCAAGCAATCTATGACTGAGAAGGAGAAGCGGAAGCTCCTCAATAAA  
 CTGACAAAATCAACTGAAAAGTTGAAAAGGAAGATGAAAATTACTACAAAAAACATG  
 GCGGGTTATTCTACCAGACTGAAATGGGAAAACACACTAGAGAACTGCTACCAGAGCATT  
 CTGGAGCTGGAGAAGGAAAGAATTCAACTTTTATGCAATAACTTAAACCAGTACAGCCAA  
 CATATTTCTCTTTTGGCCAAACCCTGACCACATGCCACACGCAGATTCACTGTGCCATC  
 AGCAAGATTGACATTGAAAAAGATATCCAGGCTGTAATGGAAGAACTGCAATTTTATCT  
 ACAGAAAACAAATCTGAGTTCCTGTTAACGGATTACTTTGAAGAAGATCCTAACAGTGCA  
 ATGGATAAAGAGAGACGAAAGTCTTTACTAAAACCAAAATTAATTGAGACTGCAGAGAGAC  
 ATTGAAAAGCCCTCAAAAGACAAGGAAGGCCTGGAACGAATGCTTAAAACGTACTCCAGC  
 ACCTCCTCCTTCTCTGATGCAAAGAGCCAGAAAGACACAGCAGCGTTAATGGATGAGAAC  
 AATTTGAAACTAGACCTTTTGGAAAGCGAACTCCTACAACTGTCATCAATGTTAGCAGAA  
 CTTGAGCAAAGACCTCAACCCAGCCATCCTTGTAGTAATCCATCTTCAGGTGGAGGGAA  
 AAGGAGCATACTCATAGCTATGTGAAAATATCTCGGCCTTTTTAATGAAGAGATTAGAG  
 AATATTGTGAGCAAGGCATCTTCTGGTGGCAGAGCAATCCAGGTTCTTCACTCCAGCC  
 CCTGGTGCAGCCAGCTCAGCAGCAGACTTTGCAAGGCCTTGATTCTTTTCAAGCCAGG  
 CAAGATGATGAGTTGAATTTGGAAAAGGTTGACATTGTGATTATACACGAGAAAAAGAA  
 GAAGGATGGTGGTTGGATCTTTGAATGGGAAAAAAGGCCATTTTCTGCCGCTTATGTG  
 GAGGAGTTACCTTCAAATGCTGGCAACACAGCTACAAAGGCATAAAAACAAGACTCTGAAC  
 ATACTACCTTCACACTCGGTAATCAACAATACAGTGTGGTTCAAATAAGAATAAAGTGCT  
 CTTACCTTTAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_052946

**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\\_052946.2](#), [NP\\_443178.1](#)

**RefSeq Size:** 1588 bp

**RefSeq ORF:** 1287 bp

**Locus ID:** 115677

**UniProt ID:** [Q8IIV9](#)

**Cytogenetics:** 2q24.3

**Domains:** SH3

**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 (1) lacks an internal exon in the 5' region, resulting in a downstream AUG start codon, as compared to isoform 2. The resulting isoform (1) has a shorter N-terminus, as compared to isoform 2.