

Product datasheet for SC120170

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:	DalP2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC120170 sequence for NM_052946 edited (data generated by NextGen Sequencing)

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ATGAAATCCACAGCGGACCTGCATCAAAAACTTGGCAAAGCAATTGAATTGGAAGCAATA
AAACCGACTTATCAAGTCCTAAATGTACAAGAGAAGAAGAGAAAACTACTTGACAATGAA
GTTGAAAAGACAGCAAATCTTGTCATTAGCAACTGGAATCAGCAAATTAAGGCCAAGAAG
AAATTAATGGTTAGTACCAAGAAACATGAAGCACTTTTCCAGCTTGAGAAAAGCTCCAAG
CAATCTATGACTGAGAAGGAGAAGCGGAAGCTCCTCAATAAACTGACAAAATCAACTGAA
AAGTTGGAAAAGGAAGATGAAAATTAACCAAAAAACATGGCGGGTTATTCTACCAGA
CTGAAATGGGAAAACACACTAGAGAAGCTACCAGAGCATTCTGGAGCTGGAGAAGGAA
AGAATTCAACTTTTATGCAATAACTTAAACCAGTACAGCCAACATATTTCTTTTTGGC
CAAACCTGACCACATGCCACACGCAGATTCACGTGCCATCAGCAAGATTGACATTGAA
AAAGATATCCAGGCTGTAATGGAAGAACTGCAATTTTATCTACAGAAAACAAATCTGAG
TTCTGTTAACGGATTACTTTGAAGAAGATCCTAACAGTGCAATGGATAAAGAGAGACGA
AAGTCTTTACTAAAACAAAATTATTGAGACTGCAGAGAGACATTGAAAAAGCCTCAAAA
GACAAGGAAGGCCTGGAACGAATGCTTAAAACGTACTCCAGCACCTCCTCCTCTCTGAT
GCAAAGAGCCAGAAAAGACACAGCAGCGTTAATGGATGAGAACAATTTGAACTAGACCTT
TTGGAAGCGAACTCCTACAACTGTCATCAATGTTAGCAGAACTTGAGCAAAGACCTCAA
CCCAGCCATCCTTGATAGTAATCCATCTTCAGGTGGAGGGAAAAGGAGCATACTCATAGC
TATGTGAAAATATCTCGGCCTTTTTTAATGAAGAGATTAGAGAATATTGTGAGCAAGGCA
TCTTCTGGTGGGAGAGCAATCCAGTTCTTCACTCCAGCCCCTGGTGCAGCCCAGCTC
AGCAGCAGACTTTGCAAGCCTTGATTCTTTTCAAGCCAGGCAAGATGATGAGTTGAAT
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TCTTTGAATGGGAAAAAGGCCATTTTCTGCCGCTTATGTGGAGGATTACCTTCAAAT
GCTGGCAACACAGCTACAAAGGCATAA

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Clone variation with respect to NM_052946.3
1184 g=>a



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_052946 unedited
 NNNTTGTTACATTTGTAAACGACTCATATAGGCGGCCGCGNAATTCGCACCAGGTATAC
 AAGAACCTAAAGAGTTTTCTCAAATGGAGAGAATTTCTGCAAACAGGTCACATCTGTTC
 TTCAGCAAAGGGCAAACCTGGAATTAGCTATGCCAAAGGACTTCAGAACTGGCAAGCA
 AGCTGAGCAAAGCATTACAGAACACGAGAAAAAGTTGTGTAGCAGTGCCTGGCCTGGG
 CCTCAGAGGGAATGAAATCCACAGCGGACCTGCATCAAAAACCTGGCAAAGCAATTGAAT
 TGGAAAGCAATAAAACCGACTTATCAAGTCCTAAATGTACAAGAGAAGAAGAAAAATCAC
 TTGACAATGAAGTTGAAAAGACAGCAAATCTTGTATTAGCAACTGGAATCAGCAAATTA
 AGGCCAAGAAGAAATTAATGTTAGTACCAAGAAACATGAAGCACTTTTCCAGCTGTAG
 AAAGCTCCAAGCAATCTATGACTGAGAAGGAGAAGCGGAAGCTCCTCAATAAACTGACAA
 AATCAACTGAAAAGTTGGAAAAGGAAGATGAAAATTAACCAAAAAACATGGCGGGTT
 ATTCTACCAGACTGAAATGGGAAAACACACTAGAGAACTGCTACCAGAGCATTCTGGAGC
 TGGAGAAGGAAAGAATCAACTTTTATGCAATAACTTANACCAGTACAGCCAACATATTT
 CTCTTTTTGGCCAAACCCTGACCACATGCCACACGCAGATCACTGTGCCATCAGCAAGA
 TTGACATTGAAAAGAATCCNAGCTGTAATGGAAGAACTGNCATTTATCTACAGAAAACA
 ATCTGAGTTCCTGTTAAACGGATACTTTGAAGAAGATCCCTACAGTGCATGGGATAAAGA
 AGACGAAAAGTCTTACTAAACAAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_052946 unedited
 TANGATCAGTTTTATTTTTTTTTTTTTTAAAGGTAAGAGCACTTATTCTCTATTTGAAC
 CACACTGTATTGTTGATTACCGAGTGTGAAGGTAGTATGTTTCAGAGTCTTGTATGCC
 TTTGTAGCTGTGTGCCAGCATTTGAAGGTAACCTCCACATAAGCGGCAGGAAAATGG
 CCTTTTTTCCCATTCAAAGATCCAAACCACCATCCTTCTCTTTTTTCTCGTGTATAATC
 ACAATGTACCCTTTTCCAAATCAACTCATCTTGCCTGGCTTAAAAGAATACAAG
 GCCTTGCAAAGTCTGCTGCTGAGCTGGGCTGCACCAGGGGCTGGAGTTGAAGAACCTGGA
 TTGCTCTGCCACCAGAAGATGCCTTGCTCACAATATTCTCTAATCTCTTCAAAAAA
 GGCCGAGATATTTTACATAGCTATGAGTATGCTCCTTTCCCTCCACCTGAAGATGGAA
 TTAACAAGGATGGCTGGGTTGAGGTCTTTGCTCAAGTCTGCTAACATTGATGACAGT
 TTGTAGGAGTTCGCTTCCAAAAGGTCTAGTTTCAAATGTTCTCATCCATTAACGCTGCT
 GTGTCTTTCTGGCTCTTGCATCAAAGAAGGAGGAGGTGCTGGAGTACGTTTTAAGCATT
 CGTTCAGGCCTTCCTTGTCTTTGAGGCTTTTTCAATGTCTCTGCACTCAATAAT
 TTTGGTTTTAGTAAAGACTTTCGTCTCTTTACCATTGCATGGTTAGATCTTCTTCAA
 AGTAATCCCGTAACAGGGACTCAGATTTGTTTTCTGTAGATAAAATTGCAGTTTCTTCCA
 TAC

Restriction Sites:

NotI-NotI

ACCN:

NM_052946

Insert Size:

1750 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).

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: [Q8IV19](#)

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.