

Product datasheet for **RC204336**

NOSTRIN (NM_052946) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOSTRIN (NM_052946) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NOSTRIN
Synonyms:	DaIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204336 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAATCCACAGCGGACCTGCATCAAAAATTGGCAAAGCAATTGAATTGGAAGCAATAAAACCGACTT
 ATCAAGTCCTAAATGTACAAGAGAAGAAGAGAAAATCACTTGACAATGAAGTTGAAAAGACAGCAATCT
 TGTCATTAGCAACTGGAATCAGCAAATTAAGGCCAAGAAGAAATTAATGGTTAGTACCAAGAAACATGAA
 GCACTTTTCCAGCTTGTAGAAAGCTCCAAGCAATCTATGACTGAGAAGGAGAAGCGGAAGCTCCTCAATA
 AACTGACAAAACTCAACTGAAAAGTTGGAAAAGGAAGATGAAAATTAACCAAAAAAACATGGCGGGTTA
 TTCTACCAGACTGAAATGGGAAAACACACTAGAGAAGTCTACCAGAGCATTCTGGAGCTGGAGAAGGAA
 AGAATTCAACTTTTATGCAATAACTTAAACCAGTACAGCCAACATATTTCTTTTTGGCCAAACCTCTGA
 CCACATGCCACACGCAGATTCAGTGTCCATCAGCAAGATTGACATTGAAAAGATATCCAGGCTGTAAT
 GGAAGAACTGCAATTTTATCTACAGAAAACAAATCTGAGTTCCTGTTAACGGATTACTTTGAAGAAGAT
 CCTAACAGTGCATGGATAAAGAGAGACGAAAGTCTTTACTAAAACCAAATTTATTGAGACTGCAGAGAG
 ACATTGAAAAAGCCTCAAAGACAAAGGAAGGCCTGGAACGAATGCTTAAAACGACTCCAGCACCTCCTC
 TTCTCTGATGCAAAGAGCCAGAAAAGACACAGCAGCGTTAATGGATGAGAACAATTTGAACTAGACCTT
 TTGGAAGCGAACTCTACAACTGTCAATGTTAGCAGAACTTGAGCAAAGACCTCAACCCAGCCATC
 CTTGTAGTAATCCATCTTCAGGTGGAGGGAAAAGGAGCATACTCATAGCTATGTGAAAATATCTCGGCC
 TTTTTTAATGAAGAGATTAGAGAATATTGTGAGCAAGGCATCTTCTGGTGGGCAGAGCAATCCAGGTTCT
 TCAACTCCAGCCCTGGTGCAGCCAGCTCAGCAGCAGACTTTGCAAGGCCTTGATTCTTTTCAAGCCA
 GGCAAGATGATGAGTTGAATTTGAAAAGGGTGACATTGTGATTATACACGAGAAAAAGAAGAAGGATG
 GTGGTTGGATCTTTGAATGGGAAAAAGGCCATTTCTGCCGCTTATGTGGAGGAGTTACCTTCAAAT
 GCTGGCAACACAGCTACAAGGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204336 protein sequence
 Red=Cloning site Green=Tags(s)

MKSTADLHQKLGKAIIELEAIKPTYQVLNVQEKRRKSLDNEVEKTANLVISNWNQIKAKKKLMVSTKKHE
 ALFQLVESSKQSMTEKEKRKLLNKLTKSTEKLEKEDENYYQKNMAGYSTRKWKWENTLENCYQSILELEKE
 RIQLLCNNLNQYSQHISLFGQTLTTCHTQIHCAISKIDIEKDIQAVMEETAILSTENKSEFLLTDYFEED
 PNSAMDKERRKSLKPKLLRLQRDIEKASKDKEGLERMLKTYSSSTSSFSDAKSQKDTAALMDENNLKLDL
 LEANSYKLSMLAELEQRQPQSHPCNSIFRWREKEHHSYVKISRPFMLKRENIIVSKASSGGQSNPGS
 STPAPGAAQLSSRLCKALYSFQARQDDELNLEKGDIVIIEHKKEEGWFFGSLNGKKGHPAAYVEELPSN
 AGNTATKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6175_g12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_052946

ORF Size: 1284 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_052946.2](#), [NP_443178.1](#)

RefSeq Size: 1854 bp

RefSeq ORF: 1287 bp

Locus ID: 115677

UniProt ID: [Q8IVI9](#)

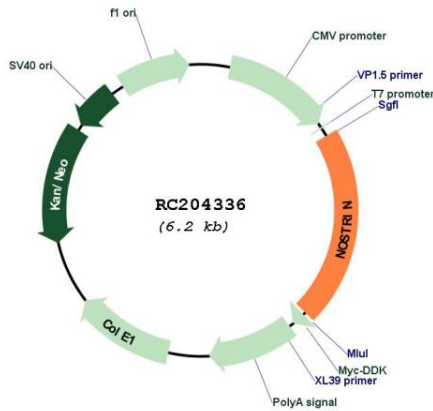
Cytogenetics: 2q24.3

Domains: SH3

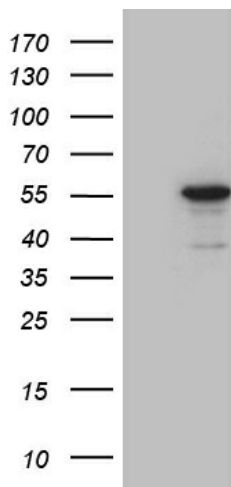
MW: 48.9 kDa

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]

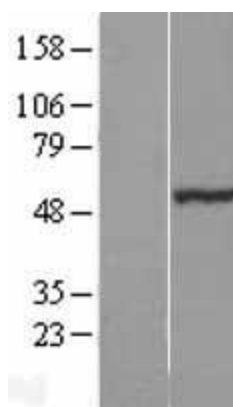
Product images:



Circular map for RC204336



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NOSTRIN (Cat# RC204336, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NOSTRIN (Cat# [TA811010])(1:2000). Positive lysates [LY403273] (100ug) and [LC403273] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403273]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204336 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).