

Product datasheet for **RC210661**

NOSTRIN (NM_001039724) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOSTRIN (NM_001039724) 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:

>RC210661 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGGACCCACTGACAGATTGTCGGTATAATAAAGTATACAAGAACCTAAAGGAGTTTCTCAAATG
 GAGAGAATTTCTGCAAACAGGTCACATCTGTTCTTCAGCAAAGGGCAAACCTGGAAATTAGCTATGCCAA
 AGGACTTCAGAAACTGGCAAGCAAGCTGAGCAAAGCATTACAGAACACGAGAAAAAGTTGTGTTAGCAGT
 GCCTGGGCTGGGCTCAGAGGGAATGAAATCCACAGCGGACCTGCATCAAAAACCTGGCAAAGCAATTG
 AATTGGAAGCAATAAAACCGACTTATCAAGTCTAAATGTACAAGAGAAGAAGAGAAAAATCACTTGACAA
 TGAAGTTGAAAAGACAGCAAATCTGTCTTAGCAACTGGAATCAGCAAATTAAGCCAAGAAGAAATTA
 ATGTTTAGTACCAAGAAACATGAAGCACTTTCCAGCTGTAGAAAGCTCCAAGCAATCTATGACTGAGA
 AGGAGAAGCGGAAGCTCCTCAATAAACTGACAAAATCAACTGAAAAGTTGAAAAGGAAGATGAAAATTA
 CTACAAAAAACATGGCGGTTATTCTACCAGACTGAAATGGGAAAACACACTAGAGAAGTGTACCAG
 AGCATTCTGGAGCTGGAGAAGGAAAGAATTCAACTTTTATGCAATAACTTAAACAGTACAGCCAACATA
 TTTCTCTTTTGGCCAAACCTGACCACATGCCACACGCAGATTCAGTGTGCCATCAGCAAGATTGACAT
 TGAAAAAGATATCCAGGCTGTAATGGAAGAACTGCAATTTTATCTACAGAAAACAAATCTGAGTTCCTG
 TTAACGGATTACTTTGAAGAAGATCCTAACAGTGAATGGATAAAGAGAGACGAAAGTCTTTACTAAAAC
 CAAAATTATTGAGACTGCAGAGAGACATTGAAAAAGCCTCAAAGACAAGGAAGGCTGGAAACGAATGCT
 TAAAACGTAAGTCCAGCACCTCCTCCTCTCTGTGCAAGAGCCGAAAGACACAGCAGCGTTAATGGAT
 GAGAACAATTTGAAACTAGACCTTTTGAAGCGAACTCTACAACTGTCATCAATGTTAGCAGAAGTTG
 AGCAAAGACCTCAACCCAGCCATCCTTGTAGTAATCCATCTTCAGGTGGAGGAAAAGGAGCATACTCA
 TAGCTATGTGAAAATATCTCGGCCTTTTTAATGAAGAGATTAGAGAATATTGTGAGCAAGGCATCTTCT
 GGTGGGACAGCAATCCAGGTTCTCAACTCCAGCCCCTGGTGCAGCCAGCTCAGCAGCAGACTTTGCA
 AGGCCTTGTATTCTTTCAAGCCAGGCAAGATGATGAGTTGAATTTGAAAAGGGTGACATTGTGATTAT
 ACACGAGAAAAAAGAAGAAGGATGGTGGTTTGGATCTTTGAATGGGAAAAAAGGCCATTTCTCGCCGT
 TATGTGGAGGATTACCTTCAAATGCTGGCAACACAGCTACAAAGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210661 protein sequence
 Red=Cloning site Green=Tags(s)

MRDPLTDCPYNKVYKLNKLFESQNGENFCKQVTSVLQQRANLEISYAKGLQKLASKLSKALQNRKSCVSS
 AWAWASEGMKSTADLHQKLGKAIIELEAIKPTYQVLNVQEKRRKSLDNEVEKTANLVISNWNQQIKAKKKL
 MVSTKKHEALFQLVESSKQSMTEKEKRLLNKLTKSTEKLEKEDENYQKNMAGYSTRLKWENTLENCYQ
 SILELEKERIQLLCNLNQYSQHISLFGQTLTCHTQIHCAISKIDIEKDIQAVMEETAILENENKSEFL
 LTDYFEEDPNSAMDKERRKSLKPKLLRLQRDIEKASKDKEGLERMLKYSSTSSFDAKSQKDTAALMD
 ENNLKLDLLEANSYKLSMLAELEQRPQPSHPCSNSIFRWREKEHHSYVKISRPFLMKRENIVSKASS
 GGQSNPGSSTPAPGAAQLSSRLCKALYSFQARQDELNLEKGDIVIIEHKKEEGWWFGSLNGKKGHPAA
 YVEELPSNAGNTATKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6555_h08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001039724

ORF Size: 1518 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_001039724.2](#)

RefSeq Size: 1947 bp

RefSeq ORF: 1521 bp

Locus ID: 115677

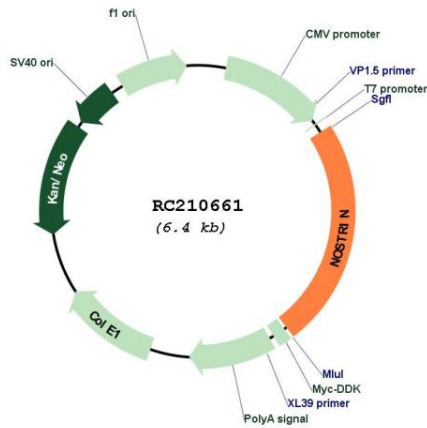
UniProt ID: [Q8IV19](#)

Cytogenetics: 2q24.3

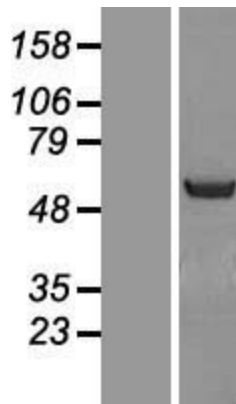
MW: 57.7 kDa

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]

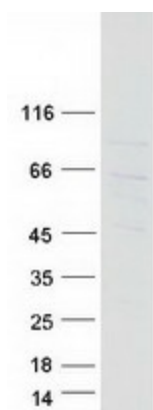
Product images:



Circular map for RC210661



Western blot validation of overexpression lysate (Cat# [LY421819]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210661 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NOSTRIN protein (Cat# [TP310661]). The protein was produced from HEK293T cells transfected with NOSTRIN cDNA clone (Cat# RC210661) using MegaTran 2.0 (Cat# [TT210002]).