

Product datasheet for **RG204336**

NOSTRIN (NM_052946) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOSTRIN (NM_052946) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NOSTRIN
Synonyms:	DalP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204336 representing NM_052946 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGAAATCCACAGCGGACCTGCATCAAAAACCTGGCAAAGCAATTGAATTGGAAGCAATAAAACCGACTT
 ATCAAGTCCTAAATGTACAAGAGAAGAAGAGAAAATCACTTGACAATGAAGTTGAAAAGACAGCAATCT
 TGTCATTAGCAACTGGAATCAGCAAAATTAAGGCCAAGAAGAAATTAATGGTTAGTACCAAGAAACATGAA
 GCACTTTTCCAGCTTGTAGAAAGCTCCAAGCAATCTATGACTGAGAAGGAGAAGCGGAAGCTCCTCAATA
 AACTGACAAAATCACTGAAAAGTTGAAAAGGAAGATGAAAATTACTACCAAAAAACATGGCGGGTTA
 TTCTACCAGACTGAAATGGGAAAACACACTAGAGAACTGCTACCAGAGCATTCTGGAGCTGGAGAAGGAA
 AGAATTCAACTTTTATGCAATAACTTAAACCAGTACAGCCAACATATTTCTCTTTTGGCCAAACCTGGA
 CCACATGCCACACGCAGATTCACTGTGCCATCAGCAAGATTGACATTGAAAAAGATATCCAGGCTGTAAT
 GGAAGAACTGCAATTTTATCTACAGAAAACAAATCTGAGTTCCTGTTAACGGATTACTTTGAAGAAGAT
 CCTAACAGTGCAATGGATAAAGAGAGACGAAAGTCTTTACTAAAACCAAAATTTAGAGACTGCAGAGAG
 ACATTGAAAAAGCCTCAAAAGACAAGGAAGGCCTGGAACGAATGCTTAAACGTAAGTCCAGCACCTCCTC
 CTTCTCTGATGCAAAGAGCCAGAAAGACACAGCAGCGTTAATGGATGAGAACAATTTGAACTAGACCTT
 TTGGAAGCGAACTCCTACAACTGTCATCAATGTTAGCAGAACTTGAGCAAAGACCTCAACCCAGCCATC
 CTGTAGTAATTCATCTTCAGGTGGAGGAAAAGGAGCATACTCATAGCTATGTGAAAATATCTCGGCC
 TTTTTAATGAAGAGATTAGAGAATATTGTGAGCAAGGCATCTTCTGGTGGGCAGAGCAATCCAGGTTCT
 TCAACTCCAGCCCTGGTGCAGCCAGCTCAGCAGCAGACTTTGCAAGGCCTTGATTCTTTTCAAGCCA
 GGCAAGATGATGAGTTGAATTTGAAAAGGGTGACATTGTGATTATACACGAGAAAAAGAAGGATG
 GTGTTTGGATCTTTGAATGGGAAAAAGGCCATTTCTGCCGCTTATGTGGAGGAGTTACCTTCAAT
 GCTGGCAACACAGCTACAAAGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


[View online »](#)

Protein Sequence: >RG204336 representing NM_052946
 Red=Cloning site Green=Tags(s)

MKSTADLHQKLGKAIIELEAIKPTYQVLNVQEKRRKSLDNEVEKTANLVISNWNQKIKAKKKLMVSTKKHE
 ALFQLVESSKQSMTEKEKRKLLNKLTKSTEKLEKEDENYYQKNMAGYSTRLKWENTLENCYQSILELEKE
 RIQLLCNNLNQYSQHISLFGQTLTTCHTQIHCAISKIDIEKDIQAVMEETAILSTENKSEFLTLDYFEED
 PNSAMDKERRKSLKPKLLRLQRDIEKASKDKEGLERMLKTYSSSTSSFDAKSQKDTAALMDENNLKLDL
 LEANSYKLSMLAELEQRPQPSHPCSNISIFRWREKEHHSYVKISRPFLMKRLNIIVSKASSGGQSNPGS
 STPAPGAQQLSSRLCKALYSFQARQDDELNLEKGDIVIIHEKKEEGWWFGSLNGKKGHFPAAYVEELPSN
 AGNTATKA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_052946.2](#), [NP_443178.1](#)

RefSeq Size: 1588 bp

RefSeq ORF: 1287 bp

Locus ID: 115677

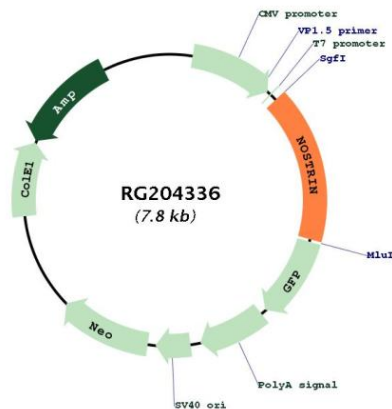
UniProt ID: [Q8IVI9](#)

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]

Product images:



Circular map for RG204336