

Product datasheet for **RG230143**

NOSTRIN (NM_001171632) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOSTRIN (NM_001171632) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NOSTRIN
Synonyms:	DaIP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230143 representing NM_001171632
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGGACCCACTGACAGATTGTCGGTATAATAAAGTATACAAGAACCTAAAGGAGTTTCTCAAATG
 GAGAGAATTTCTGCAAACAGGTCACATCTGTTCTTCAGCAAAGTTGTGTTAGCAGTGCCTGGCCTGGGC
 CTCAGAGGGAATGAAATCCACAGCGACCTGCATCAAAAATTGGCAAAGCAATTGAATTGGAAGCAATA
 AAACCGACTTATCAAGTCTAAATGTACAAGAGAAGAAGAGAAAACTACTTGACAATGAAGTTGAAAAGA
 CAGCAAATCTTGTCATTAGCAACTGGAATCAGCAAATTAAGGCCAAGAAGAAATTAATGGTTAGTACCAA
 GAAACATGAAGCACTTTCCAGCTTGTAGAAAGCTCCAAGCAATCTATGACTGAGAAGGAGAAGCGGAAG
 CTCCTCAATAAACTGACAAAATCAACTGAAAAGTTGGAAAAGGAAGATGAAAATTACTACCAAAAAACA
 TGGCGGGTTATTCTACCAGACTGAAATGGGAAAACACACTAGAGAAGTCTACCAGAGCATTCTGGAGCT
 GGAGAAGGAAAGAATTCAACTTTTATGCAATAACTTAAACCAAGTACAGCCAACATATTTCTTTTTGGC
 CAAACCTGACCACATGCCACACGAGATTCACGTGCCATCAGCAAGATTGACATTGAAAAAGATATCC
 AGGCTGTAAATGGAAGAACTGCAATTTTATCTACAGAAAACAAATCTGAGTTCCTGTTAACGGATTACTT
 TGAAGAAGATCCTAACAGTGCAATGGATAAAGAGAGACGAAAAGTCTTACTAAAACAAAATTTAGAGA
 CTGCAGAGAGACATTGAAAAAGCCTCAAAAGACAAGGAAGGCCTGGAACGAATGCTTAAAACGACTCCA
 GCACCTCCTCCTCTCTGATGCAAAGAGCCAGAAAAGACACAGCAGCGTTAATGGATGAGAACAATTTGAA
 ACTAGACCTTTTGAAGCGAACTCTACAACTGTCATCAATGTTAGCAGAACTTGAGCAAAGACCTCAA
 CCCAGCCATCCTTGTAATTCATCTCAGGTGGAGGGAAAAGGAGCATACTCATAGCTATGTGAAAA
 TATCTCGGCCTTTTTAATGAAGAGATTAGAGAATATTGTGAGCAAGGCATCTTCTGGCGCAGACAA
 TCCAGGTTCTTCAACTCCAGCCCTGGTGCAGCCAGCTCAGCAGCAGACTTTGCAAGGCCTTGATTCT
 TTTCAAGCCAGGCAAGATGATGAGTTGAAATTTGAAAAGGTGACATTGTGATTATACACAGAAAAAAG
 AAGGAGGATGGTGGTTGGATCTTTGAATGGGAAAAAGGCCATTTCTGCCGCTTATGTGGAGGAGTT
 ACCTTCAATGCTGGCAACACAGCTACAAAGGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230143 representing NM_001171632
 Red=Cloning site Green=Tags(s)

MRDPLTDCPYNKVYKLNKLEFSQNGENFCKQVTSVLQQSCVSSAWAWASEGMKSTADLHQKLGKAIIELEAI
 KPTYQVLNVQEKRRKSLDNEVEKTANLVISNWNQIKAKKLMVSTKKHEALFQLVESSQSMTEKEKRR
 LLNKLTKSTEKLEKEDENYQKNMAGYSTRKLENTLENCYQSILELEKERIQLLNNLNQYSQHISLFG
 QTLTTCHTQIHCAISKIDIEKDIQAVMEETAILSTENKSEFLLTDYFEEDPNSAMDKERRKSLKPKLLR
 LQRDIEKASKDKEGLERMLKTYSSSTSSFDAKSQKDTAALMDENNLKLDLLEANSYKLSMLAELEQRPO
 PSHPCSNSIFRWREKEHSHSYVKISRPFLMKRLENIVSKASSGGQSNPGSSPTAPGAAQLSSRLCKALYS
 FQARQDDELNLEKGDIVIIHEKKEGGWFGSLNGKKGHFPAAAYVEELPSNAGNTATKA

TRTRPLE – GFP Tag – V

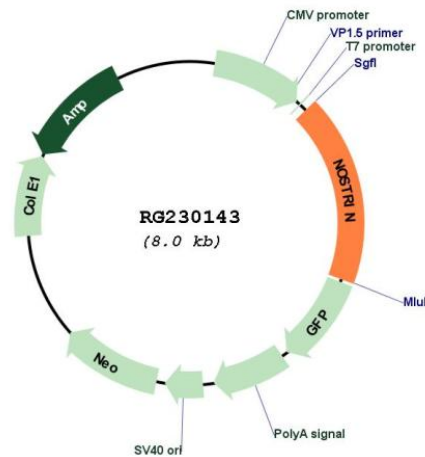
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001171632

ORF Size: 1434 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_001171632.1](#), [NP_001165103.1](#)

RefSeq Size: 1863 bp

RefSeq ORF: 1437 bp

Locus ID: 115677

UniProt ID: [Q8IIV9](#)

Cytogenetics: 2q24.3

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]