

Product datasheet for **RG210661**

NOSTRIN (NM_001039724) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RG210661 representing NM_001039724
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGAGGGACCCACTGACAGATTGTCGTATAATAAAGTATACAAGAACCTAAAGGAGTTTCTCAAAATG
 GAGAGAATTTCTGCAAACAGGTACATCTGTTCTTCAGCAAAGGGCAAACCTGGAAATTAGCTATGCCAA
 AGGACTTCAGAACTGGCAAGCAAGCTGAGCAAAGCATTACAGAACACGAGAAAAAGTTGTGTAGCAGT
 GCCTGGGCTGGGCTCAGAGGGAATGAAATCCACAGCGGACCTGCATCAAAAACCTGGCAAAGCAATTG
 AATTGGAAGCAATAAAACCGACTTATCAAGTCTAAATGTACAAGAGAAGAAGAGAAAAATCACTTGACAA
 TGAAGTTGAAAGACAGCAATCTTGCTATTAGCAACTGGAATCAGCAAAATTAAGGCCAAGAAGAAATTA
 ATGTTAGTACCAAGAAACATGAAGCACTTTCCAGCTTGTAGAAAGCTCCAAGCAATCTATGACTGAGA
 AGGAGAAGCGGAAGCTCCTCAATAAACTGACAAAATCACTGAAAAGTTGAAAAGGAAGATGAAAATTA
 CTACAAAAAACATGGCGGGTTATTCTACCAGACTGAAATGGGAAAACACACTAGAGAAGTCTACCAG
 AGCATTCTGGAGCTGGAGAAGGAAAGAATTCAACTTTTATGCAATAACTTAACCAAGTACAGCCAACATA
 TTTCTCTTTTGGCCAAACCTGACCACATGCCACACGAGATTCACTGTGCCATCAGCAAGATTGACAT
 TGAAAAAGATATCCAGGCTGTAATGGAAGAACTGCAATTTTATCTACAGAAAACAAATCTGAGTTCCTG
 TTAACGGATTACTTTGAAGAAGATCCTAACAGTGAATGGATAAAGAGAGACGAAAGTCTTTACTAAAAC
 CAAAATTATTGAGACTGCAGAGAGACATTGAAAAAGCCTCAAAGACAAGGAAGGCTGGAACGAATGCT
 TAAACGTACTCCAGCACCTCCTCCTCTCTGATGCAAAGAGCCAGAAAGACACAGCAGCGTTAATGGAT
 GAGAACAATTTGAACTAGACCTTTTGAAGCGAACTCTACAACTGTCATCAATGTTAGCAGAACTTG
 AGCAAAGACCTCAACCCAGCCATCCTTGTAGTAATTCATCTTCAGGTGGAGGAAAAGGAGCATACTCA
 TAGCTATGTGAAAATATCTCGGCCTTTTTAATGAAGAGATTAGAGAATATTGTGAGCAAGGCATCTTCT
 GGTGGGACAGCAATCCAGGTTCTTCAACTCCAGCCCCTGGTGCAGCCAGCTCAGCAGCAGACTTTGCA
 AGGCCTTGTATTCTTTCAAGCCAGGCAAGATGATGAGTTGAATTTGAAAAGGGTGACATTGTGATTAT
 ACACGAGAAAAAGAAGAAGGATGGTGGTTTGATCTTTGAATGGGAAAAAGGCCATTTTCTGCCGCT
 TATGTGGAGGAGTTACCTCAAATGCTGGCAACACAGCTACAAAGGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG210661 representing NM_001039724
 Red=Cloning site Green=Tags(s)

MRDPLTDCPYNKVYKLNKEFSQNGENFCKQVTSVLQQRANLEISYAKGLQKLASKLSKALQNTRKSCVSS
 AWAWASEGMKSTADLHQKLGAIELEAIKPTYQVLNVQEKRRKSLDNEVEKTANLVISNWNQIKAKKKL
 MVSTKKHEALFQLVESSKQSMTEKEKRLLNKLTKSTEKLEKEDENYYQKNMAGYSTRLKVENTLENCYQ
 SILELEKERIQLLCNNLNQYSQHISLFGQTLTCHTQIHCAISKIDIEKDIQAVMEETAILSTENKSEFL
 LTDYFEEDPNSAMDKERRKSLLKPKLLRLQRDIEKASKDKEGLERMLKTYSSSTSSSDAKSQQKDTAALMD
 ENNLKLDLLEANSYKLSMLAELEQRPQPSHPCSNSIFRWREKEHHSYVKISRPFLMKRENIVSKASS
 GGQSNPGSSTPAPGAAQLSSRLCKALYSFQARQDELNLEKGDIVIIEHKKEGWWFGSLNGKKGHFPAA
 YVEELPSNAGNTATKA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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.

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

RefSeq: [NM_001039724.2](#)

RefSeq Size: 1635 bp

RefSeq ORF: 1521 bp

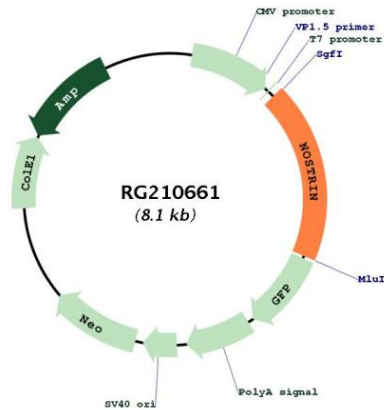
Locus ID: 115677

UniProt ID: [Q8IV19](#)

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]

Product images:



Circular map for RG210661