

Product datasheet for **MG208141**

Nostrin (NM_181547) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nostrin (NM_181547) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nostrin
Synonyms:	Daip2; mDalP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208141 representing NM_181547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGGACCCACTGACGGACTGTTCTGACAATAAAGTATACAAGAGCCTGAAAGAGTTTGCCCAACATG
 GAGACAATTTCTGCAAGCAGATCACATCTGTTCTTCAGCAAAGGGCCAACCTGGAGATTAGCTACGCCAA
 AGGGCTTCAGAAACTGGCCGTCAGGCTCAGCAAAGCACTACAGAGCACAAGAAAAACTGTCTCAGCACT
 GCTTGGGCTGGGCTCAGAGAGCATGAAGCTGCAGCAGACCTCCATCAAAAACCTGGCAAAGCAATTG
 AGTTGGAAGCGATAAAGCCAACACACCAGGCTCCTGAGTATGCAAGAGAAGAAGAGAAAGTCGCTTGATAA
 TGAAGTGGAAAAGACAGCAAATCTTGTTAATAAAGTGAATCAGCAAATCAAGGCTAAGAAAAAATTA
 ATGATGAGTACCAAGAAGCATGAAGCACTTTTCCACCTGTAGAAAGCTCCAAGCAATCCCTGACCCAGA
 AGGAGAAGCAGAAGCTCCTCAACAAAAGTAAAAAATCAACTGAAAACTGGAAAAAGAAGATGAAAGTTA
 CTACAAAAAAACATGGCAGGCTATTCTACCAGGCTGAAGTGGGAAAGCACCTGGAAAACTGCTACAAG
 AGCATGCTGGAGCTGGAGAAGGAAAGAATTCACCTTTTATGCAATAACTTAAACAGTACAGCCAACATA
 TTTCTCTTTTGGACAAACGCTGACCACATGCCACACACAGATCCACTGTGCCATCAGCAAGGTTGATGT
 TGAAAAAGATATCCAGGCTCTAATGGAAGAACTGCAATCCTGTCTATAGAAAACAAATCGGAGCTTCTC
 CTGGCTGACTATTTTGAAGAAGATCCAAAGAACCCAATGGACAAAGAGCGACGGAAGTCTTTATTA
 CCAATTTGGGAGACTGCAAAGAGACATTGAAAAGGCCTCAAGAGACAAAGAAGGCTTGGAGCGGAAGCT
 TAAAGCACTCGCCAGCAGCTCCTCCTTTCTGATGCCAAGAGCCAGAAAGACATGGAGACCTAATGGAT
 GAGAACAGTTTGAACCTAGACCTTTTGAAGCGAACTCTACAACTGTGTCAGTGTGGCAGACCTGG
 AGCAACGGCCAAAGCCCTGCCATCCCTGTAGCACCTGCATTTTCAAGTGGAAAGAAAAGGACACTCTCA
 TACTTATGTGAAAATATCCCGGCCTCTTTGACGAAGAGATTAGAGAAAGCTGAGAGCAAAGCACCTGCG
 GGTGGGAGAAACATCCAAGCTTTCACCTCAGGCTCTACTGTGTCCCAAGCCAGCAAGCATCTTTGCA
 AAGCCTTATATACGTTCCAAGCCAGGCAAGATGATGAGTTGAATTTGAAAAAGGAGACATCGTGACCGT
 CCATGAGAAGAAAGAAGAAGGATGGTGGTTCGGCTCTTTAAAAGGGAAGAGAGGCCATTTTCTGCTGCC
 TATGTGGAGGAGTACCTCAAAGGCTGGAAACACAGCTACACAGGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208141 representing NM_181547
 Red=Cloning site Green=Tags(s)

MRDPLTDCSYNKVYKSLKEFAQHGDNFCKQITSVLQQRANLEISYAKGLQKLAVRLSKALQSTKKNCLST
 AWAWASESMKSAADLHQKLGKAIIELEAIKPTHQVLSMQEKKRKSLENEVEKTANLVINNNWQIKAKKKL
 MMSTKKHEALFHLVSSKQSLTQKEKQKLLNKLKSTKLEKEDESYQKNMAGYSTRLKWESTLENCYK
 SMLELEKERIQLLCNNLNQYSQHISLFGQTLTCHTQIHCAISKVDVEKDIQALMEETAILS IENKSELL
 LADYFEEDPKNPMKERRKSLKPKLGRQLRDIKASRDKEGLERKALKALSSSSFDAKSQKDMETLMD
 ENSLKL DLLQANSYKLSVLDLEQRPKPCHPCSTCIFKWKKEHSHTYVKISRPLLTKRLEKAESKAPA
 GGQNNPSSSPSGSTVSQASKHLCKALYTFQARQDELNLEKGDIVTVHEKKEEGWWFGLSKGRGHFPAA
 YVEELPPKAGNTATQA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus
Sgf I
Asc I

EcoR I
BamH I Kpn I
RBS
Sgf I
Asc I

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

Hind III
Nhe I Rsr II
Mlu I
Not I
Xho I
GFP Tag

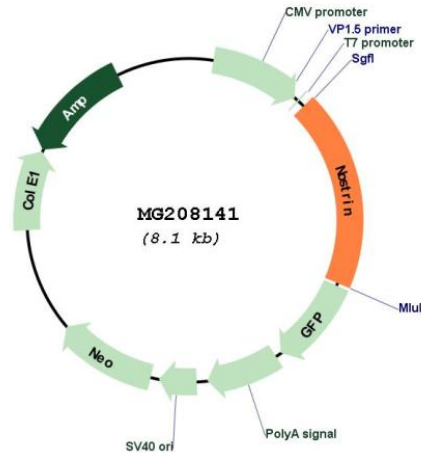
CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

T R T R P L E M E S D - - -

Pme I
Fse I

--- GAA GAA AGA GTT TAA ACGGCCGGCCGGAGCT

- - E E R V Stop

Plasmid Map:


ACCN: NM_181547

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_181547.3](#)

RefSeq Size: 1776 bp

RefSeq ORF: 1521 bp

Locus ID: 329416

UniProt ID: [Q6WKZ7](#)

Cytogenetics: 2 C2

Gene Summary: Multivalent adapter protein which may decrease NOS3 activity by inducing its translocation away from the plasma membrane.[UniProtKB/Swiss-Prot Function]