

Product datasheet for **MC224449**

Nos1 (NM_008712) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nos1 (NM_008712) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nos1
Synonyms:	2310005C01Rik; bNOS; N-NOS; NC-NOS; nNOS; NO; NOS; Nos-1; NOS-I
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224449 representing NM_008712 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAAGAGCACACGTTTGGGGTCCAGCAGATCCAACCCAACGTCATTTCTGTCCGTCTCTTCAAACGCA
AAGTGGGAGGTCTGGGCTTCTGGTGAAGGAACGGGTGAGCAAGCCCCGGTGATCATCTCAGATCTGAT
CCGAGGAGGTGCCGCGGAGCAGAGCGGCCCTTATCCAAGCCGGCGACATCATTCTCGCCGTCATGATCGG
CCCTGGTAGACCTCAGCTATGACAGCGCTCTGGAAGTTCTCAGGGGCATTGCCTCTGAGACCCATGTGG
TCCTCATTCTGAGAGGCCTGAGGGCTTTACTACACACCTGGAGACCACCTTACAGGGGATGGAACCC
CAAGACCATCCGTGTGACCCAGCCCTGGGGACACCCACAAAGCTGTCGATCTGTCTCGCCAGCCATCA
GCCAGCAAAGACCAGCCATTAGCAGTAGACAGGGTCCCAGGTCCCAGTAACGGACCTCAGCATGCCAAG
GCCGTGGACAGGGAGCCGGCTCAGTCTCCAGGCTAATGGTGTGGCCATTGACCCACAATGAAAAATAC
CAAGGCCAACCTCCAGGACAGCGGAGAACAGGATGAACTGCTCAAAGAGATAGAACCTGTGTTGAGCATC
CTCACCGGTGGGGAAAAGCAGTCAACAGAGGGGACCAGCCAAAGCAGAGATGAAAGACACAGGAATCC
AGGTGGACAGAGACCTCGACGGCAAAGTGCACAAAGCTCCGCCCTGGCGGGGAGAATGATCGAGTCTT
CAATGATCTGTGGGGAAAGGGCAACGTCCCTGTGGTCTCAACAACCCGATTTCAGAGAACGAACAGTCT
CCCGCCTCGGGCAAACAGTCTCCTACCAAGAATGGCAGTCTTCCAGGTGCCCTCGTCTCCTTAAGGTCA
AGAACTGGGAGACAGATGTGGTCTCACTGACACCCTGCACCTGAAGAGCACGCTGGAAACGGGGTGCAC
AGAGCAGATCTGCATGGGCTCCATCATGCTGCCATCCCACACATACGGAAGTCAGAAGATGTCCGCACC
AAGGACCAGTCTTCCCTTAGCCAAAGAATTTCTCGACCAATACTACTCTCCATTAAGAGTTTGGCT
CCAAGGCCACATGGACAGGCTGGAGGAGTGAACAAGGAGATCGAGAGCACCAGCACCTACCAGCTCAA
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TGTTCCAAGCTGCAGGTGTTGATGCCCCGAGACTGCACCACAGCCATGGGATGTTCAACTACATCTGTA
ACCACGTCAGTACGCCACCAACAAAGGGAACCTCAGGTCCGCCATCACTATATCCCTCAAAGGACTGA
TGGAAGCATGACTTCCGAGTGTGGAACCTGCAGCTCATCCGCTATGCCGGCTACAAGCAGCCAGATGGC
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GAGGCCGGTTCGATGTGCTGCCTCTCCTGCTCCAGGCCAATGGCAATGACCCTGAACTCTTTCAGATCCC
 CCCAGAGCTGGTCTGGAAGTACCCATCAGGCACCCCAAGTTCGACTGGTTAAGGACCTGGGGCTCAAA
 TGGTATGGCCTCCCCGCTGTGTCCAACATGCTGCTGGAGATTGGGGCCTGGAGTTCAGCGCCTGTCCCT
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 ACCCCGTCCTTTGAGTACCAGCCTGATCCATGGAACACCCACGTGTGGAAGGGCACCAATGGGACCCCA
 CGAAGCGGCGAGCCATTGGCTTCAAGAAAATGGCAGAGGCCGTCAAGTTCAGCCAAGCTGATGGGACA
 GGCCATGGCCAAGAGAGTCAAAGCGACCATTCTACGCCACCGAGACAGGCAAAATCCCAAGCCTATGCC
 AAGACCCTGTGCGAGATCTCAAGCATGCCTTCGATGCCAAGGCTATGTCCATGGAGGAATATGACATCG
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 TCTTCAAGGCAGCCTGTGATGTGTTCTGTGTGGGGGATGACGTCAACATTGAGAAGGCGAACAATCCCT
 CATTAGCAATGACCGCAGCTGGAAGAGGAATAAATCCGCCTCACTTATGTGGCAGAAGCTCCAGAGCTG
 ACCCAAGTCTTTCCAATGTTCAAAAAAGCGAGTCTCAGCCGCCGACTCCTCAGCCGCAAAAACCTGC
 AAAGTCTAAATCCAGCCGATCGACCATCTTCGTGCGTCTCCACCAACGGGAATCAGGAGTTGCAGTA
 CCAGCCAGGGGACCACCTGGGTGCTTCCCTGGCAACCATGAGGACCTCGTGAATGCACTATTGAACGG
 CTGGAGGACGCGCCGCTGCCAACCACGTGGTGAAGGTGGAATGCTGGAGGAAAAGGAACACGGCTCTGG
 GTGTCATCAGTAATTGGAAGGATGAATCTCGCCTCCCACCTGCACCATCTTCCAGGCCTTCAAGTACTA
 CCTGGACATCACACGCCGCCACGCCCTGCAGCTGCAGCAGTTCGCTCCCTGGCCACCAATGAGAAA
 GAGAAGCAGCGGCTGCTGGTCTCAGCAAGGGCTTCAGGAATATGAGGAATGGAATGGGGCAAGAACC
 CCACAATGGTGGAGGTGCTGGAGGATTCCTGTCATCCAGATGCCGGCCACACTTCTCCTCACACAGT
 GTCGCTGTACAACCTCGCTACTATTCCATCAGCTCCTCTCCAGACATGTACCCGACGAGGTGCACCTC
 ACCGTGGCCATCGTGTCTACCATACCCGAGATGGAGAAGGACCGGTTACCACGGGGTGTGCTCCTCCT
 GGCTCAACCGAATACAGGCTGACGATGTGTCCTGCTTCGTGAGAGGTGCCCCAGCTTCCACCTGCC
 TCGAAACCCCAAGTGCCTTGATCCTGGTTGGCCCAGGCACCGCATCGCTCCCTCCGAAGTTTTTGG
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 GACAATCCAAGATAGATCATATCTACAGAGAGGAGACCCTGCAGGCCAAGAAACAAGGGCGTCTTCAGAGA
 GCTGTACTACTGCTACTCCCGGGAACCCGACAGGCCAAAGAAAATATGTACAGGACGTGCTGCAGGAACAG
 CTGGCCGAGTCTGTGTACCGGCCCTGAAGGAGCAAGGAGGCCATATTTATGTCTGCGGGGACGTTACCA
 TGGCCGCTGATGCTCCTCAAAGCCATCCAGCGCATAATGACCCAGCAGGGGAACTCTCGGAGGAGGATGC
 TGGTGTGTTTATCAGCAGGCTGAGGGATGACAACCGGTACCACGAGGACATCTTTGGGGTCAACCTCAGA
 ACATATGAAGTGACCAACCGCTTAGATCTGAGTCCATCGCCTTCATTGAAGAGAGCAAAAAAGACACAG
 ATGAGGTTTTTCAGCTCC TAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_008712
 Insert Size: 4290 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_008712.3 , NP_032738.1
RefSeq Size:	9695 bp
RefSeq ORF:	4290 bp
Locus ID:	18125
UniProt ID:	Q9Z0J4
Cytogenetics:	5 57.29 cM
Gene Summary:	Produces nitric oxide (NO) which is a messenger molecule with diverse functions throughout the body. In the brain and peripheral nervous system, NO displays many properties of a neurotransmitter. Probably has nitrosylase activity and mediates cysteine S-nitrosylation of cytoplasmic target proteins such SRR. Isoform NNOS Mu may be an effector enzyme for the dystrophin complex.[UniProtKB/Swiss-Prot Function]