

Product datasheet for **RN209715**

Nos1 (NM_052799) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nos1 (NM_052799) Rat Untagged Clone
Tag: Tag Free
Symbol: Nos1
Synonyms: bNOS
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN209715 representing NM_052799
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGAGAACACGTTTGGGGTTCAGCAGATCCAACCAATGTAATTTCTGTTCTCTTCAAACGCA
AAGTGGGAGTCTGGGCTTCTGGTGAAGGAACGGGTGAGCAAGCCTCCCGTGATCATCTCAGACCTGAT
TCGAGGAGGTGCTGCGGAGCAGAGCGGCCCTTATCCAAGCTGGAGACATCATTCTCGCAGTCAACGATCGG
CCCTTGGTAGACCTCAGCTATGACAGTGCCTGGAGGTTCTCAGGGGCATTGCCTCTGAGACCCAGTG
TCCTCATTCTGAGGGGCCCTGAGGGCTTCACTACACATCTGGAGACCACCTTACAGGGGATGGAACCC
CAAGACATCCGGGTGACCCAGCCCTCGGTCCTCCACCAAAGCCGTCGATCTGTCTCACCAGCCTTCA
GCCAGCAAAGACCAGTCATTAGCAGTAGACAGAGTACAGGTCTGGGTAATGGCCCTCAGCATGCCAAAG
GCCATGGGCAGGGAGCTGGCTCAGTCTCCAAGCTAATGGTGTGGCCATTGACCCACGATGAAAAGCAC
CAAGGCCAACCTCCAGGACATCGGGGAACATGATGAACTGCTCAAAGAGATAGAACCTGTGCTGAGCATC
CTCAACAGTGGGAGCAAAGCCACCAACAGAGGGGACCAGCCAAAGCAGAGATGAAAGACACAGGAATCC
AGGTGGACAGAGACCTCGATGGCAAATCGCACAAGCTCCGCCCTGGGCGGGGACAATGACCCGCTCTT
CAATGACCTGTGGGGGAAGGACAACGTTCTGTGGTCTTAACAACCCGTTTCAGAGAAGGAACAGTCC
CCTACCTCGGGGAAACAGTCTCCACCAAGAACGGCAGCCCTTCCAGGTGCCCCGTTTCTCAAGGTCA
AGAACTGGGAGACGGACGTGGTCTCACCGACACCCTGCACCTGAAGAGCACACTGGAAACGGGGTGCAC
AGAGCACATTTGCATGGGCTCGATCATGCTGCCTTCCAGCACACGCGGAAGCCAGAAGATGTCGCACA
AAGGACCAGCTTCCCTCTAGCCAAAGAATTTCTCGACCAATACTACTCATCCATTAAGAGATTTGGCT
CCAAGGCCACATGGACAGGCTGGAGGAGTGAACAAGGAGATTGAAAGCACCAGCACCTACCAGCTCAA
GGACCCGAGCTCATCTATGGCCCAAGCATGCCTGGCGGAACGCCTCTCGATGTGTGGCAGGATCCAG
TGTTCCAAGCTGCAGGTGTTGATGCCGAGACTGCACCAGCCACGGCATGTTCAACTACATCTGTA
ACCATGTCAAGTATGCCACCAACAAAGGAATCTCAGGTGGCCATCACGATATTCCTCAGAGGACTGA
CGGCAAACATGACTTCCGAGTGTGGAATCTGCAGCTCATCCGCTACGCGGGCTACAAGCAGCCAGATGGC
TCTACCTTGGGGGATCCAGCCAATGTGCAGTTCACGGAGATCTGTATACAGCAGGGCTGGAAGCCCAA



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GAGGCCGCTTCGACGTGCTGCCTCTCCTGCTTCAGGCCAATGGCAATGACCCTGAGCTCTTCCAGATCCC
 CCCAGAGCTGGTGTGGAAGTGCCCATCAGGCACCCCAAGTTGCGACTGGTTAAGGACCTGGGGCTCAAA
 TGGTATGGCCTCCCCGCTGTGTCCAACATGCTGCTGGAGATCGGGGGCCTGGAGTTCAGCGCCTGTCCCT
 TCAGCGGCTGGTACATGGGCACAGAGATCGGCGTCCGTGACTACTGTGACAACTCTCGATACAACATCCT
 GGAGGAAGTAGCCAAGAAGATGGATTTGGACATGAGGAAGACCTCGTCCCTCTGGAAGGACCAAGCACTG
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 CCACGGAGTCCTTCAACAACACATGGAGAATGAATACCGCTGCAGAGGGGGCTGCCCGCCGACTGGGT
 GTGGATTGTCCCTCCATGTCCGGCAGCATCACCCCTGTCTTCCACCAGGAGATGCTCAACTATAGACTC
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 CGAAGCGGCGAGCTATCGGCTTTAAGAAATTGGCAGAGGCGTCAAGTCTCAGCCAAGCTAATGGGGCA
 GGCCATGGCCAAGAGGGTCAAGGCGACCATTTCTACGCCACAGAGACAGGCAAAACACAAGCCTATGCC
 AAGACCCTGTGTGAGATCTCAAGCACGCCTTCGATGCCAAGGCAATGCCATGGAGGAGTATGACATCG
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 CGGGGAGAAAATTCGGCTGTGCTTTAATGGAGATGAGGCACCCCAACTCTGTGCAGGAGGAGAAAATGAC
 CCGGAACCCTTGGTTTTCTTTCCCGTAAAGGGCCTTCCCTCTCCATGTTGACTCTGAAGCCACAGTC
 TGGTTGCTGCCCTGACAGCCAACAGGAGCTACAAGTCCGATTCAACAGCGTCTCCTCTATTCTGA
 CTCCCGAAAGTCATCGGGCGACGGACCCGACCTCAGAGACAACTTTGAAGTACTGGACCCTGGCCAAT
 GTGAGGTTCTCAGTGTTCCGGCTCGGCTCTCGGGCTACCCCACTTCTGTGCCTTTGGGCATGCGGTGG
 ACACCCTCCTGGAGGAAGTGGGAGGGGAGAGGATTCTGAAGATGAGGGAGGGGGATGAGCTTTGCGGACA
 GGAAGAAGCTTTGAGGACTGGGCAAGAAAGTCTTCAAGGCAGCCTGTGATGTGTTCTCGGTGGGGAT
 GACGTCAACATCGAGAAGGCGAACAACCTCCCTATTAGCAATGACCGAAGCTGGAAGAGGAACAAGTTC
 GCCTCACGTATGTGGCGAAGCTCCAGATCTGACCCAAGGTCTTCCAATGTTCAAAAAACGAGTCTC
 GGTGCTCGACTCCTCAGCCGCCAAAACCTGCAAAGCCCTAAGTCCAGCCGATCGACCATCTTCGTGCGT
 CTCCACACCAACGGGAATCAGGAGCTGCAGTACCAGCCAGGGGACCACCTGGGTGTCTTCCCGGCAACC
 ACGAGGACCTCGTGAATGCACTATTGAACGGCTGGAGGATGCACCGCTGCCAACACGTGGTGAAGGT
 GGAGATGCTGGAGGAGAGGAACACTGCTCTGGGTGTCATCAGTAATTGGAAGGATGAATCTCGCCTCCCA
 CCCTGCACCATCTTCCAGGCCTTCAAGTACTACCTGGACATCACACGCGCCACGCCCCTGCAGCTGC
 AGCAGTTCGCCTCTTGCCCAATGAGAAAGAGAAGCAGCGGTTGCTGGTCTCAGCAAGGGGCTCCA
 GGAATATGAGGAGTGAAGTGGGCAAGAACCCCACAATGGTGGAGGTGCTGGAGGAGTCCCGTCCATC
 CAGATGCCGGCTACACTTCTCCTCACTCAGCTGTGCTGCTGCAGCCTCGCTACTACTCCATCAGCTCCT
 CTCAGACATGTACCCCGACGAGGTGCACCTCACTGTGGCCATCGTCTCCTACCACCCGAGACGGAGA
 AGGACCAGTCCACCACGGGGTGTGCTCCTCCTGGCTCAACAGAATACAGGCTGACGATGTAGTCCCTGC
 TTCGTGAGAGGTGCCCTAGCTTCCACCTGCCTCGAAACCCCAAGGTGCCTTGCATCCTGTTGGCCAG
 GCACTGGCATCGCACCTTCCGAAGCTTCTGGCAACAGCGACAATTTGACATCCAACACAAGGAATGAA
 TCCGTGCCCATGGTTCTGGTCTTCGGGTGTCGACAATCCAAGATAGATCATATCTACAGAGAGGAGACC
 CTGCAGGCCAAGAACAAGGGCTCTTCCAGAGAGCTGTACTGTCTATTCCCGGGAACCGGACAGGCCAA
 AGAAATATGTACAGGACGTGCTGCAGGAACAGCTGGCTGAGTCTGTGTACCGGCCCTGAAGGAGCAAGG
 AGGCCACATTTATGTCTGTGGGACGTTACCATGGCCCGCATGCTCTCAAAGCCATCCAGCGCATAATG
 ACCCAGCAGGGGAAACTCTCAGAGGAGGACGCTGGTGTATTCATCAGCAGGCTGAGGGATGACAACCGGT
 ACCCAGGAGACATCTTTGGAGTACCCTCAGAAGTATGAAGTGACCAACCGCCTTAGATCTGAGTCCAT
 CGCCTTCAATCGAAGAGAGCAAAAAAGACGAGATGAGGTTTTTCAGCTCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_052799
 Insert Size: 4392 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:	<u>NM_052799.1</u> , <u>NP_434686.1</u>
RefSeq Size:	4592 bp
RefSeq ORF:	4392 bp
Locus ID:	24598
UniProt ID:	<u>P29476</u>
Cytogenetics:	12q16
Gene Summary:	enzyme that catalyzes the production of nitric oxide [RGD, Feb 2006]