

Product datasheet for **RN201250**

Nos2 (NM_012611) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nos2 (NM_012611) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nos2
Synonyms:	iNos; Nos2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN201250 representing NM_012611 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTGCCCTGGAAGTTTCTCTTCAGAGTCAAATCCTACCAAGGTGACCTGAAAGAGGAAAAGGACA
TTAAACAACACGTGGAGAAAACCCAGGTGCTATTCAGCCCAACAACACAGGATGACCCTAAGAGTCA
CAAGCATCAAAATGGTTTCCCCAGTTCCTCAGTGGACTGCACAGAATGTTCCAGAATCCCTGGACAAG
CTGCATGTGACTCCATCGACCCGCCACAGCACGTGAGGATCAAAAAGTGGGCAATGGAGAGATTTTTC
ACGACACCCCTTACCACAAGGCCACCTCGGATATCTCTTGCAAGTCCAAATTATGCATGGGGTCCATCAT
GAACTCCAAGAGTTTGACCAGAGGACCCAGAGACAAGCCACCCAGTGGAGGAGCTTCTGCCTCAAGCC
ATTGAATTCATTAACAGTATTATGGCTCCTTCAAAGAGGCAAAAATAGAGGAACATCTGGCCAGGCTGG
AAGCCGTAAACAAGGAAATAGAAACAACAGGAACCTACCAGTCACTCTGGATGAGCTCATCTTTGCCAC
CAAGATGGCTGGAGGAACGCCCTCGCTGCATCGGCAGGATTCAGTGGTCCAACCTGCAGGTCTTCGAT
GCCCCGAGCTGTAGCACTGCATCAGAAATGTTCCAGCATATCTGCAGACACATACTTTACGCCACTAACA
GTGGCAACATCAGTTCGGCCATTACTGTGTTCCCCAGCGAGCGATGGGAAGCATGACTCCGGATCTG
GAATTCAGCTCATCCGGTACGCTGGCTACCAGATGCCGATGGCACCATCAGAGGGGATCCTGCCACC
TTGGAGTTCACCCAGTTGTGCATCGACCTGGGCTGGAAGCCCGCTATGGCCGCTTCGATGTGCTGCCTC
TGGTCTGCAGGCTCACGGTCAAGATCCAGAGGCTTTTGAATCCCTCCTGATCTTGTGCTGGAGGTGAC
CATGGAGCATCCAAGTACGAGTGGTTCAGGAGCTCGGGCTGAAGTGGTATGCGCTGCCTGCCGTGGCC
AACATGCTCCTGGAGGTGGTGGCTCGAGTTCACGCTGCCCTTCAATGGTTGGTACATGGGCACCG
AGATTGGAGTCCGAGACTTCTGTGACACACAGCGCTACAACATCCTGGAGGAAGTGGCAGGAGCATGGG
CCTGGAGACCCACACTGGCCTCCCTCTGAAAGACCGGGCTGTCACCGAGATCAATGCAGCTGTGCTC
CATAGTTTTCAGAAGCAGAATGTGACCATCATGGACCACACAGCCTCAGAGTCTTTCATGAAGCACA
TGCAGAATGAGTACCGGGCCCGAGGAGGCTGCCCTGCAGACTGGATTTGGCTGGTCCCTCCGGTGTCCGG
GAGCATCACCCCTGTGTTCCACCAGGAGATGTTGAACTACGTCTATCTCCATTCTACTACTACCAGATC
GAGCCCTGGAAGACCCACATCTGGCAGGATGAGAAGCTGAGGCCAGGAGGAGAGATCCGGTTCACAG



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TCTTGGTCAAAGCGGTGTTCTTTGCTTCTGTGCTAATGCGGAAGGTCATGGCTTCCCGCGTCAGAGCCAC
 AGTCCTCTTTGCTACTGAGACAGGAAAGTCGGAAGCGCTAGCCAGGGACCTGGCTGCCTTGTTCAGCTAC
 GCCTTCAACACCAAGGTTGTCTGCATGGAACAGTATAAGGCAAACACCTTGAAGAGGAACAACACTACTGC
 TGGTGGTTACAAGCACATTTGGCAATGGAGACTGCCCCAGCAATGGGCAGACTCTGAAGAAATCTCTGTT
 CATGATGAAAGAACTCGGGCATACTTCAGGTATGCGGTATTTGGCTGGGCTCCAGCATGTACCCTCAG
 TTCTGTGCCTTTGCTCATGACATCGACCAGAACTGTCTACCTGGGAGCCTCCCAGCTTGCCCCAACCG
 GAGAAGGGGACGAACTCAGCGGGCAGGAGGACGCCTTCCGCAAGCTGGGCTGTGCAAACTTCCGGGCAG
 CTGTGAGACGTTTCGATGTTTGAAGCAAACATTGCATTTCAGATCCCGAAACGCTACACTTCCAACGCAACA
 TGGGAGCCAGAGCAGTACAAGCTCACCCAGAGCCAGAGTCTCTAGACCTCAACAAGCTCTCAGCAGCA
 TCCACGCCAAGAAGCTGTTACCATGAGGCTGAAATCCCTCCAGAATCTGCAGAGTGAGAAGTCCAGCCG
 CACCACCCTCCTTGTCAACTCACCTTCGAGGGCAGCCGAGGCCCCAGCTACCTACCTGGGGAACACCTG
 GGGATTTTCCAGGCAACCAGACGGCCCTGGTGAAGGGATCTTGAGCGAGTTGTGGATTGTTCTTCGC
 CAGACAAACTGTGTGCCTGGAGTTCTAGATGAGAGTGGCAGCTACTGGGTCAAAGACAAGAGGCTTCC
 CCCCTGCTCACTCAGGCAAGCCCTCACCTACTTCTGGACATCACTACCCCTCCCACCCAGCTGCAGCTC
 CACAAGCTGGCCCGCTTTGCCACGAAGAGACGCACAGGCAGAGTTGGAGGCCTTGTGTCAGCCCTCAG
 AGTACAACGATTGGAAGTTCAGCAACAACCCAGTTCCTGGAGGTGCTGGAAGAGTTCCCATCATTGCG
 TGTGCCTGCTGCCTTCTGCTGTTGCAGCTCCCCATTCTGAAGCCCCGCTACTACTCCATCAGCTCCTCC
 CAGGACCACACCCCTCGGAGGTCCACCTCACTGTGGCTGTGGTACCTATCGCACCCGAGATGGTCAGG
 GTCCCCTGCACCATGGCGTCTGCAGCACTTGGATCAATAACCTGAAGCCCGAAGACCCAGTGCCTGCTT
 TGTGCGGAGTGTGAGTGGCTTCCAGTCCCTGAGGACCCCTCCCAGCCCTGCATCCTCATTGGGCCCGGT
 ACAGGCATTGCCCCCTCCGAAGTTTCTGGCAGCAGCGGCTCCATGACTCTCAGCACAGAGGGCTCAAAG
 GAGGCCGATGACCTTGGTGTGTTGGGTGCAGGCACCCAGAGGAGGACCACCTCTATCAGGAAGAAATGCA
 GGAGATGGTCCGCAAGGGAGTGTGTTCCAGGTGCACACAGGCTACTCCGGCTGCCGGAAAACCCAAG
 GTCTACGTTCAAGACATCCTGCAGAAAGAGCTGGCCGACGAGGTGTTTCAGCGTGTCCACGGGGAGCAGG
 GCCACCTTTATGTTTGTGGCGATGTGCGCATGGCTCGGGATGTGGCTACCACTTTGAAGAAGCTGGTGGC
 CGCCAAGCTGAACCTGAGTGAGGAGCAGGTTGAGGATTACTTCTTCCAGCTCAAGAGCCAGAAACGTTAT
 CATGAGGATATCTTCGGTGCAGTCTTTTCTATGGAGCAAAAAGGGCAACACCTTGGAGGAGCCCAAG
 GCACAAGACTCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_012611

Insert Size:

3444 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:

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_012611.3](#), [NP_036743.3](#)

RefSeq Size: 3793 bp

RefSeq ORF: 3444 bp

Locus ID: 24599

UniProt ID: [Q06518](#)

Cytogenetics: 10q25

Gene Summary: cytokine-inducible enzyme involved in nitric oxide (NO) production [RGD, Feb 2006]