

Product datasheet for **MC223705**

Nos2 (NM_010927) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nos2 (NM_010927) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nos2
Synonyms:	i-NOS; iNOS; MAC-NOS; N; No; Nos-2; NOS-II; Nos2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223705 representing NM_010927 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTGCCCTGGAAGTTTCTCTTCAAAGTCAAATCCTACCAAAGTGACCTGAAAGAGGAAAAGGACA
TTAAACAACAACGTGAAGAAAACCCCTTGTGCTGTTCTCAGCCCAACAATACAAGATGACCCTAAGAGTCA
CCAAAAATGGCTCCCCGAGCTCCTCACTGGGACAGCACAGAATGTTCCAGAATCCCTGGACAAGCTGCAT
GTGACATCGACCCGTCCACAGTATGTGAGGATCAAAAACCTGGGGCAGTGGAGAGATTTTGCATGACTC
TTCACCACAAGGCCACATCGGATTTCACTTGAAGTCCAAGTCTTGCTTGGGGTCCATCATGAACCCCAA
GAGTTTGACCAGAGGACCCAGAGACAAGCCTACCCCTCTGGAGGAGCTCCTGCCTCATGCCATTGAGTTC
ATCAACCAAGTATTATGGCTCCTTTAAAGAGGCAAAAATAGAGGAACATCTGGCCAGGCTGGAAGCTGTAA
CAAAGGAAATAGAAAACAAGGAACCTACCAGCTCACTCTGGATGAGCTCATCTTTGCCACCAAGATGGC
CTGGAGGAATGCCCTCGCTGCATCGGCAGGATCCAGTGGTCCAACCTGCAGGTCTTTGACGCTCGGAAC
TGTAGCACAGCACAGGAAATGTTTCAGCACATCTGCAGACACATACTTTATGCCACCAACAATGGCAACA
TCAGGTCCGCCATCACTGTGTTCCCCAGCGGAGTGACGGCAAACATGACTTCAGGCTCTGGAATCACA
GCTCATCCGGTACGCTGGCTACCAGATGCCCGATGGCACCATCAGAGGGGATGCTGCCACCTTGGAGTTC
ACCCAGTTGTGCATCGACCTAGGCTGGAAGCCCCGCTATGGCCGCTTTGATGTGCTGCCTCTGGTCTTGC
AAGCTGATGGTCAAGATCCAGAGGCTTTTGAAATCCCTCCTGATCTTGTGTTGGAGGTGACCATGGAGCA
TCCCAAGTACGAGTGGTCCAGGAGCTCGGGTTGAAGTGGTATGCACTGCCTGCCGTGGCCAACATGCTA
CTGGAGGTGGGTGGCCTCGAATCCAGCCTGCCCTTCAATGGTGGTACATGGGCACCGAGATTGGAG
TTCGAGACTTCTGTGACACACAGCGCTACAACATCCTGGAGGAAGTGGCCGAAGGATGGCCTGGAGAC
CCACACACTGGCCTCCCTCTGGAAAGACCGGGCTGTCACGGAGATCAATGTGGCTGTGCTCCATAGTTTC
CAGAAGCAGAATGTGACCATCATGGACCACACAGCCTCAGAGTCCTCATGAAGCACATGCAGAATG
AGTACCGGGCCCGTGGAGGCTGCCCGGCAGACTGGATTTGGCTGGTCCCTCCAGTGTCTGGGAGCATCAC
CCCTGTGTTCCACCAGGAGATGTTGAACATGTCTATCTCCATTCTACTACTACCAGATCGAGCCCTGG



AAGACCCACATCTGGCAGAATGAGAAGCTGAGGCCAGGAGGAGAGATCCGATTTAGAGTCTTGGTGA
 AAGTGGTGTCTTTGCTTCCATGCTAATGCGAAAGGTCATGGCTTACGGGTGAGAGCCACAGTCCCTCTT
 TGCTACTGAGACAGGGAAGTCTGAAGCACTAGCCAGGGACCTGGCCACCTTGTTGAGTACGCCTCAAC
 ACCAAGTTGTCTGCATGGACAGTATAAGGCAAGCACCTTGAAGAGGAGCAACTACTGCTGGTGGTGA
 CAAGCACATTTGGGAATGGAGACTGTCCAGCAATGGGACAGCTCTGAAGAAATCTCTGTTGATGCTTAG
 AGAATCAACACACCTTCAGGTATGCTGTGTTGGCTTGGCTCCAGCATGTACCTCAGTCTGCGCC
 TTTGCTCATGACATCGACCAGAAGCTGTCCACCTGGGAGCCTCAGCTTGCCCAACAGGAGAAGGGG
 ACGAACTCAGTGGGACAGGAGGATGCCTTCCGACAGCTGGGCTGTACAAACCTTCCGGGACGCTGTGAGAC
 CTTTGATGTCCGAAGCAAACATCACATTGATCCCGAAACGCTTCACTTCCAATGCAACATGGGAGCCA
 CAGCAATATAGGCTCATCCAGAGCCCGAGCCTTAGACCTCAACAGAGCCCTCAGCAGCATCCATGCAA
 AGAACGTGTTTACCATGAGGCTGAAATCCAGCAGAATCTGCAGAGTGAAGAGTCCAGCCGACCCACCT
 CCTCGTTCAGCTCACCTTCGAGGGCAGCCGAGGGCCAGCTACCTGCCTGGGGAACACCTGGGGATCTC
 CCAGGCAACCAGACCCCTGGTGCAGGAATCTTGGAGCGAGTGTGGATTGCTACACCACACCAAA
 CTGTGTGCTGGAGTTCTGGATGAGAGCGGCAGCTACTGGTCAAAGACAAGAGGCTGCCCCCTGCTC
 ACTCAGCAAGCCCTCACCTACTTCTGGACATTACGACCCCTCCACCCAGCTGCAGCTCCACAAGCTG
 GCTCGCTTTGCCACGGACGAGACGGATAGGCAGAGATTGGAGCCTTGTGTGAGCCCTCAGAGTACAATG
 ACTGGAAGTTCAGCAACAACCCACGTTCTGGAGGTGCTTGAAGAGTCCCTTCCCTGATGTGCCCGC
 TGCTTCTGCTGTGCGAGCTCCCTATCTTGAAGCCCGCTACTACTCCATCAGCTCCTCCAGGACCAC
 ACCCCCTCGGAGGTTACCTCACTGTGGCCGTGGTCACTACCGCACCCGAGATGGTCAGGGTCCCTGC
 ACCATGGTGTCTGCAGCACTTGGATCAGGAACCTGAAGCCCGAGACCCAGTGCCTGCTTTGTGCGAAG
 TGTGAGTGGCTCCAGCTCCCTGAGGACCCCTCCAGCCTTGCATCCTCATTGGGCTGGTACGGGCATT
 GCTCCCTCCGAAGTTTCTGGCAGCAGCGGCTCCATGACTCCAGCACAAGGGCTCAAAGGAGGCGCA
 TGAGCTTGGTGTGGGTGCCGACCCGAGGAGGACCACCTCTATCAGGAAGAAATGCAGGAGATGGT
 CCGCAAGAGAGTGTCTCCAGGTGCACACAGGCTACTCCGGCTGCCCGCAAACCCAAGTCTACGTT
 CAGGACATCCTGCAAAAGCAGCTGGCAATGAGGTACTCAGCGTCTCCACGGGAGCAGGGCCACCTCT
 ACATTTGCGGAGATGTGCGCATGGCTCGGGATGTGGCTACCACATTGAAGAAGCTGGTGGCCACCAAGCT
 GAACCTGAGCGAGGAGCAGGTGGAAGACTATTTCTCCAGCTCAAGAGCCAGAAACGTTATCATGAAGAT
 ATCTTCGGTGCAGTCTTTTCTATGGGGCAAAAAGGGCAGCGCCTTGGAGGAGCCAAAGCCACGAGGC
 TCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3282_d01.zip

Restriction Sites: Sgfl-Mlul

ACCN: NM_010927

Insert Size: 3435 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_010927.3](#), [NP_035057.1](#)

RefSeq Size: 3990 bp

RefSeq ORF: 3435 bp

Locus ID: 18126

UniProt ID: [P29477](#)

Cytogenetics: 11 46.74 cM

Gene Summary: Nitric oxide is a reactive free radical which acts as a biologic mediator in several processes, including neurotransmission and antimicrobial and antitumoral activities. This gene encodes a nitric oxide synthase that is inducible by a combination of lipopolysaccharide and certain cytokines. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.