

Product datasheet for **RR201250**

Nos2 (NM_012611) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nos2 (NM_012611) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nos2
Synonyms:	iNos; Nos2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR201250 representing NM_012611 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTGCCCTGGAAGTTTCTCTTCAGAGTCAAATCCTACCAAGGTGACCTGAAAGAGGAAAAGGACA
TTAACAACAACGTGGAGAAAACCCAGGTGCTATCCCAGCCCAACAACAGGATGACCCTAAGAGTCA
CAAGCATCAAAATGGTTTCCCCAGTTCCTCACTGGGACTGCACAGAATGTTCCAGAATCCCTGGACAAG
CTGCATGTGACTCCATCGACCCGCCACAGCACGTGAGGATCAAAAAGTGGGCAATGGAGAGATTTTTC
ACGACACCCTTACCACAAGGCCACCTCGGATATCTCTTGAAGTCCAAATTATGCATGGGTCCATCAT
GAACTCCAAGAGTTTGACCAGAGGACCCAGAGACAAGCCACCCAGTGGAGGAGCTTTCGCTCAAGCC
ATTGAATTCATTAACCAGTATTATGGCTCCTTCAAAGAGGCAAAAATAGAGGAACATCTGCCAGGCTGG
AAGCCGTAACAAAGGAAATAGAAACAACAGGAACCTACCAGCTCACTCTGGATGAGCTCATCTTTGCCAC
CAAGATGGCCTGGAGGAACGCCCTCGCTGCATCGGCAGGATTCAGTGGTCCAACCTGCAGGTCTTCGAT
GCCCGGAGCTGTAGCACTGCATCAGAAATGTTCCAGCATATCTGCAGACACATACTTTACGCCACTAACA
GTGGCAACATCAGGTCCGCCATTACTGTGTTCCCCAGCGGAGCGATGGGAAGCATGACTTCCGGATCTG
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CATGGAGCATCCCAAGTACGAGTGGTTCAGGAGCTCGGGCTGAAGTGGTATGCGCTGCCTGCCGTGGCC
AACATGCTCCTGGAGGTGGTGGCTCGAGTTCACAGCCTGCCCTTCAATGGTGGTACATGGGCACCG
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TGCAGAATGAGTACCGGGCCGAGGAGGCTGCCCTGCAGACTGGATTTGGCTGGTCCCTCCGGTGTCCGG
GAGCATACCCCTGTGTTCCACCAGGAGATGTTGAACTACGTCTATCTCCATTCTACTACTACCAGATC



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GAGCCCTGGAAGACCCACATCTGGCAGGATGAGAAGCTGAGGCCAGGAGGAGAGATCCGGTTCACAG
TCTTGGTAAAAGCGGTGTTCTTTGCTTCTGTGCTAATGCGGAAGGTCATGGCTTCCCAGCTCAGAGCCAC
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GTCTACGTTCAAGACATCCTGCAGAAAGAGCTGGCCGACGAGGTGTTACGCGTGCTCCACGGGGAGCAGG
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GCACAAGACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201250 representing NM_012611
 Red=Cloning site Green=Tags(s)

MACPWKFLFRVKSQGDLEKEDINNNVEKTPGAIPSPPTQDDPKSHKHQNGFPQFLTGT AQNVPELSDK
 LHVTPSTRPQHVRKKNWNGEIFHDTLHHKATSDISCKSLCMGSI MNSKSLTRGPRDKPTVEELLPQA
 IEFINQYYGSFKEAKIEEHLARLEAVTKEIETTGT YQLTDELIFATKMAWRNAPRCIGRIQWSNLQVFD
 ARSCSTASEMFQHC RHILYATNSGNIRSAITVFPQRS DKGHDFRIWNSQLIRYAGYQMPDGTIRGDPAT
 LEFTQLCIDLGWKPRYGRFDVLPVLVLAHQDPEVFEI PPDLVLEVTMEHPKYEFWQELGLK WYALPAVA
 NMLLEVGGLFEPACPFNGWYMGTEIGVRDFCDTQR YNILEEVGRSMGLETHTLASLWKDRAVTEINA AVL
 HSFQKQNVTIMDHHTASESFMKHMQNEYRARGGCPAD WIWLVPPVSGSITPVFHQEMLN YVLSPFYYQI
 EPWKTHIWQDEKLRPRRREIRFTVLVKAVFFASVLMR KVMASVRATVLFATETGKSEALARDLAALFSY
 AFNTKVVCMQYKANTLEEEQLLLVVTSTFGNGDCPS NQGTLKKS LFMKELGHTFRYAVFGLGSSMYPQ
 FCAFAHDIDQKLSHLGASQLAPTGEDEL SGQEDAFRSWAVQTFRAACETFDVRSKHCIQIPKRYT SNAT
 WEPEQYKLTQSPESLDLNKALSSIHAKNVFTMRLKSL QNLQSEKSSRTLLVQLTFEGSRGPSYLPGEHL
 GIFPGNQTALVQGILERVVDCSSPDQTVCLVLEDES GSYWVKDKRLPPCSLRQALTYFLDITPPTQLQL
 HKLARFATEETHRQRLAALCQPSEYNDWKF SNNPTFLEVLEEFPSLRVPAAFLLQLPILKPRYYSISS
 QDHTPSEVHLTVAVVYTRRDGQGPLHHGVCSTWIN NLKPEDPVPCFVRSVSGFQLPEDPSQPCILIGPG
 TGIAPFRSFWQQLHDSQHRGLKGRMTLVFGCRHP EEDHLYQEEMQEMVRKGVLFQVHTGYSRLPGKPK
 VYVQDILQKELADEVFSVLHGEQGHLVYCGDVRMARDV ATTLKLVAAKLN LSEEQVEDYFFQLKSQKRY
 HEDIFGAVFSYGAKKGNTLEEPKGTRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3368_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

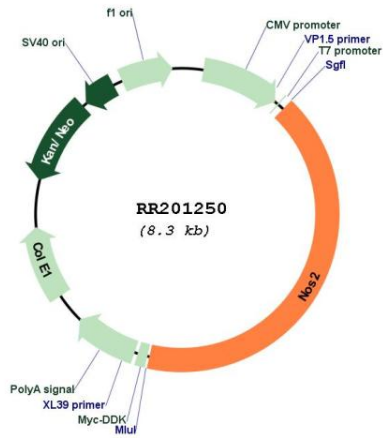


ACCN: NM_012611

ORF Size: 3441 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:	<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_012611.3 , NP_036743.3
RefSeq Size:	3793 bp
RefSeq ORF:	3444 bp
Locus ID:	24599
UniProt ID:	Q06518
Cytogenetics:	10q25
MW:	130.6 kDa
Gene Summary:	cytokine-inducible enzyme involved in nitric oxide (NO) production [RGD, Feb 2006]

Product images:



Circular map for RR201250