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Product datasheet for MR211704

Nos2 (NM_010927) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nos2 (NM_010927) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)

ORF Nucleotide Sequence:

>MR211704 representing NM_010927
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTGCCCCTGGAAGTTTCTCTTCAAAGTCAAATCCTACCAAAGTGACCTGAAAGAGGAAAAGGACA
TTAACAACAACGTGAAGAAAACCCCTTGTGCTGTTCTCAGCCCAACAATACAAGATGACCCTAAGAGTCA
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AAGACCCACATCTGGCAGAATGAGAAGCTGAGGCCCAGGAGGAGAGAGATCCGATTTAGAGTCTTGGTGA
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Protein Sequence:

>MR211704 representing NM_010927
Red=Cloning site Green=Tags(s)

MACPWKFLFKVKSYQSDLKEEKDINNNVKKTPCAVLSPTIQDDPKSHQNGSPQLLTGTAQNVPESLDKLH
VTSTRPQYVRIKNWGSGEILHDTLHHKATSDFTCKSKSCLGSIMNPKSLTRGPRDKPTPLEELLPHAIEF
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CSTAQEMFQHICRHILYATNNGNIRSAITVFPQRSDGKHDFRLWNSQLIRYAGYQMPDGTIRGDAATLEF
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TPSEVHLTVAVVTYRTRDGQGPLHHGVCSTWIRNLKPQDPVPCFVRSVSGFQLPEDPSQPCILIGPGTGI
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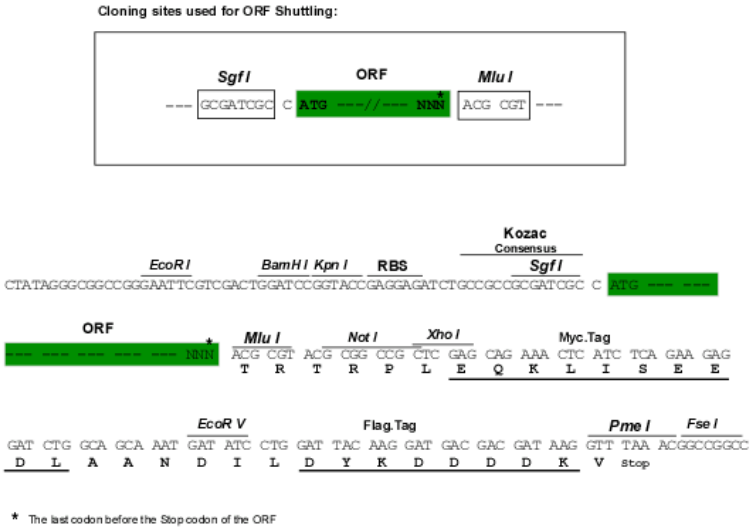
IFGAVFSYGAKKGSALEEPKATRL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9032_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

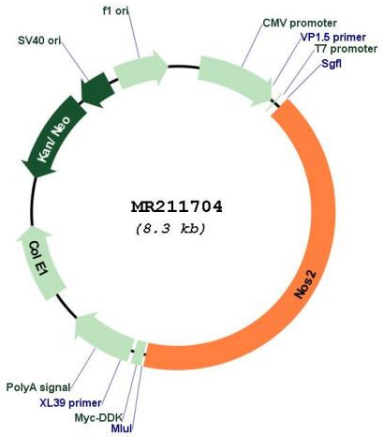


ACCN: NM_010927

ORF Size: 3432 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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:	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_010927.4
RefSeq Size:	3990 bp
RefSeq ORF:	3435 bp
Locus ID:	18126
UniProt ID:	P29477
Cytogenetics:	11 46.74 cM
MW:	131 kDa
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]

Product images:



Circular map for MR211704