

Product datasheet for MR211798

Nos3 (BC052636) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nos3 (BC052636) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nos3
Synonyms:	eNOS, ecNOS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211798 representing BC052636 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCAACTTGAAGAGTGTGGGCCAGGAGCCTGGGCCACCCTGTGGCCTAGGGCTCGGGCTGGGTTT
GGCTGTGCGGCAAGCAGGGCCCAGCCTCTCCAGCACCGGAGCCTAGCCAGGCGCCAGCACCCCGTCCCC
AACCCGACCAGCACCAGACCACAGCCCCCGCTAACCCGGCCCCAGACGGACCCAGGTTTCTCGAGTA
AAGAATTGGGAAGTGGGCAGCATCACCTACGACACCCTCAGTGCCAGGCTCAGCAGGATGGGCCCTGTA
CCTCAAGACGCTGCTTGGGATCCCTGGTGTTC AAGGAAGTTACAGAGCCGGCCACCCAGGGCCCTTC
ACCCACTGAGCAGCTATTGGGTCAAGCCCGGACTTCATCAATCAGTACTATAACTCCATCAAAGGAGT
GGCTCCCAGGCTCATGAGCAGCGCTTCAGGAAGTGGAGGCTGAGGTGGCAGCCACAGGCACCTACCAGC
TCCGGGAGAGCGAGCTGGTGTGGGGCCAAGCAGGCCTGGCGCAATGCTCCCCGCTGTGTGGGCCGGAT
CCAGTGGGGAAAGCTGCAGGTAATTTGATGCTCGGGACTGCAGGACTGCACAGGAAATGTTACCTACATC
TGTAACCACATTAATAACGCAACAAATAGAGGCAATCTTCGTTACGCCATCACAGTGTCCCCCAGCGCT
GCCCTGGCCGGGAGACTTCCGGATCTGGAACAGCCAGCTGATACGCTATGCGGGCTATAGGCAGCAGGA
TGGCTCCGTGCGAGGGGACCCCGCAACGTGGAGATCACTGAGCTCTGTATCAAACATGGCTGGACCCCA
GGAAATGGCCGCTTTGATGTGCTGCCCTGTTACTCCAGGCTCCTGATGAGCCCCAGAACTCTTCACTC
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GCGCTGGTATGCCCTCCAGCTGTGTCCAACATGCTGCTAGAAAATCGGGGCTGGAGTTTCTGTGTC
CCTTTCAGCGGCTGGTACATGAGTTCAGAGATTGGCATGAGGGACCTGTGTGACCCTCACCGCTACAACA
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AGGAAGAAGACCTTTAAGGAAGTAGCCAATGCAGTGAAGATCTCTGCCTCACTCATGGGCACGGTGATGG
 CGAAGCGTGTGAAGGCAACCATTTCTGTATGGCTCTGAGACTGGCCGGGCCAGAGCTACGCACAGCAGCT
 GGAAGACTCTCCGGAAGGCGTTTGTATCCCGGGTCTGTGCATGGATGAGTATGATGTGGTGTCCCTA
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 TCCAGCCCGGTACTACTCTGTCAAGTTCAGCACCCAGCGCCACCCAGGAGAGATCCACCTACCCATAGC
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 GGAGGTTACCGTGTGCTGTGCCTTGGCAAGGACATATGTTTGTCTGCGGCGATGCTACTATGGCAACC
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 TCCTTTGACCCGCTGGCCAGAAATACCTGTTCC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR211798 representing BC052636
 Red=Cloning site Green=Tags(s)

MGNLKSVMGQEPGPPCGLGLGLGLGLCGKQGPASPAPEPSQAPAPPSPTRPAPDHSPLTRPPDGPRFPRV
 KNWEVGSITYDTLSAQAQQDGPCTSRRLGSLVFPRKLQSRPTQGPSPTEQLLQQARDFINQYNSIKRS
 GSQAHEQRLQEVEAEVAATGTYYLRESELVFGAKQAWRNAPRCVGRIQWGLQVFDARDCRTAQEMFTYI
 CNHIKYATNRGNLRSAITVFPQRCPPGRGDFRIWNSQLIRYAGYRQQDGSVVRGDPANVEITELCIQHWTP
 GNGRFDVLPDLLQAPDEPELFTLPPEMVLVPLEHPTLEWFAALGLRWYALPAVSNMLLEIGGLEFPAA
 PFGSWYMSSEIGMRDLCDPHRYNILEDVAVCMDLDRTRTSSLWKDKAAVEINVAVLHSYQLAKVTIVDHH
 AATASFMKHLENEQKARGGCPADWAWIVPPISSGLTPVVFHQEMVNYFLSPAFRYQDPWKGSAKAGGIT
 RKKTFKEVANAVKISASLMGMTVMARVKATILYGSETGRAQSYAQLGRLFRKAFDPRVLCMDEYDVVSL
 EHEALVLVVTSTFGNDPPENGESFAAALMEMSGPYNSSPRPEQHKSYKIRFNSVSCSDPLVSSWRRKRK
 ESSNTDSAGALGTLRFVGLGSRAYPHFCAFARAVDTRLEELGGERLLQLGQDEL CGQEEAFRWQAQA
 AFQAACETFCVGEDAKAAARDIFSPKRSWKQRQYRLSTQAESLQLLPGLTHVHRRKMFQATILSVENLQS
 SKSTRATILVRLDTGGQEGLYQPGDHIGVCPNRPGLVEALLSRVEDPPPSTEPVAVEQLEKGGSPGGPP
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 LEVLEQFPSVALPAPLILTQLPLLQPRYYSSAPSAPHPGEIHLTIAVLAYRTQDGLGPLHYGVCSTWMS
 QLKAGDPVPCFIRGAPSFRLPPDPNLPCILVPGGTGIAPFRGFWDRLHDIEIKLQPAPMTLVFGCRCS
 QLDHLYRDEVLDAQQRGVFGQVLTAFSRDPGSPKTYVQDLLRTELAEEVHRVLCLEQGHMFVCGDVTMAT
 SVLQTVQRILATEGGMELDEAGDVIGVLRDQQRHYHEDIFGLTLRTQEVTSRIRTSQSFSLQERQLRGAVPW
 SFDPPGPEIPGS

TRTRPLEQKLISEEDLAANDILDYKDDDDK

Chromatograms: https://cdn.origene.com/chromatograms/mm9032_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

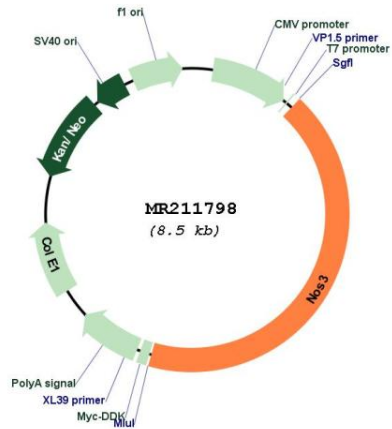


ACCN: BC052636

ORF Size: 3606 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:	BC052636.1
RefSeq Size:	3982 bp
RefSeq ORF:	3608 bp
Locus ID:	18127
Cytogenetics:	5 11.32 cM
MW:	146 kDa
Gene Summary:	Produces nitric oxide (NO) which is implicated in vascular smooth muscle relaxation through a cGMP-mediated signal transduction pathway. NO mediates vascular endothelial growth factor (VEGF)-induced angiogenesis in coronary vessels and promotes blood clotting through the activation of platelets. May play a significant role in normal and abnormal limb development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211798