

Product datasheet for **RR207205**

Nox4 (NM_053524) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nox4 (NM_053524) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nox4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR207205 representing NM_053524
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCTGTCTGGAGGAGCTGGCTGGCCAACGAAGGGTTAAACACCTCTGTCTGCTTGTGGCTGT
 CCCTAAATGTCTGCTTTTCTGGAAAACCTTCTGCTGTACAACCAAGGGCCAGAATACTACTACATCCA
 CCAGATGTTGGGCTAGGATTGTGTTTGTAGCAGAGCTTCTGCATCTGTCCTGAACCTCAACTGCAGCCTG
 ATCCTTTTACCCATGTGCCGCACAGTCTGGCTTACCTTCGCGGATCACAGAAGTCCCTAGCAGGAGAA
 CAAGAAGATTGTTGGACAAAAGCAAGACTCTACATATCACCTGTGGCATAACTATTTGTATTTTCTCAGG
 TGTGCATGTAGCTGCCCACTTGGTGAACGCCCTGAACTTCTCAGTGAACATAGTGAACATTTCTTGA
 CTGAATGCAGCAAGATACCAGAATGAGGATCCCAGAAAGCTTCTTTCAACTGTTCCGGGCTGACAG
 GTGTCTGCATGGTGGTATTGTTCTCATGGTTACAGCTTCTACCTATGCAATAAGAGTTTCTAATTA
 TGATATCTTCTGGTATACTCACAACTCTCTTTGTCTTCTACATGCTGCTGCTGCTGATTTTCCGGT
 GGCTTGTGAAGTATCAACCAATTTAGACACTCACCTCCTGGCTGTATCAGTCTTAACCGGACCCCAT
 CTCAGAATATGTCCATAGCAGACTACGTCTCAGAACATTTTCATGGATCTTTGCCTGGAGGGTTTCAAA
 ATTAGAAGATCATTACCAGAAAACACTGGTGAAGATTTGCCTGGAAGAACCAAGTTCCAAGCTCATTTC
 CCACAGACCTGGATTTGGATTTCTGGACCTTTGTGCCTATACTGTGCTGAGAGACTTTACCGATGCATCC
 GGAGCAACAAACCTGTCAACATTATCTCAGTAATCAATCATCCCTCAGATGTCATGGAACCCGTATGAT
 CAAAGAAAACCTTAAAGCAAGACCTGGCCAGTATATTATCTACATTGTCCCAGTGTATCAGCATTAGAA
 AACCCACCTTTACTCTACAATGTGCTCTACTGAAACCAAGCAACATTTGGTGTCCACTTTAAAGTAG
 TAGGAGACTGGACAGAAAGATTCCGAGATTTACTACTGCCTCCATCAAGCCAAGATTCTGAGATTTGCC
 CTTCAATCAATCTAGAACTACCCCAAGTTATACATTGATGGCCATTTGGAAGTCCATTTGAGGAGTCA
 CTGAACTATGAAGTTAGTCTGTGTGGCTGGAGGCAATTGGGGTCACTCCGTTTGCATCGATACTAAACA
 CTCTACTGGATGACTGGAACCATAACAAGTAAGAAGACTGTATTTTATCTGGGTCTGCAGAGACATCCA
 ATCATTCCAGTGGTTTGCAGACTTGCTCTATGTGCTGCATAACAAGTTTGGCAAGAAAACAGACCTGAC
 TTTGTGAACATCCAGCTGTACCTCAGTCAAACAGATGGGATACAGAAGATAATTGGAGAAAAATACCACA
 CATTGAATTCTAGACTTTTTATGGGCGTCTCGGTGGAAGCTTTTATTTGATGAATAGCAAAATGTAA
 CAGAGGAAAACAGTTGGAGTTTCTGCTGTGGACCCAGTCTATTTCCAAGACTCTTCATAATTTGAGT
 AACCGGAACAACATATGGGACAAAATTTGAATACAATAAAGAATCTTTCAGCAACCGGAACAACATCAT
 ATGGGACAAAATTTGAATACAATAAAGAATCTTTCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207205 representing NM_053524
 Red=Cloning site Green=Tags(s)

MALSWRSLANEGVKHLCLLVWLSLNVLLFWKTFLLYNQGPPEYYYIHQMLGLGLCLSRASASVNLNCSL
 ILLPMCRTVLAYLRGSQKVPSRRTRRLDKSKTLHITCGITICIFSGVHVAHLVNALNFSVNYSEHFLA
 LNAARYQNEPRKLLFTTVPGLTGVCMVVFLMVTASTYAIRVSNYDIFWYTHNLFVVFYMLLLLHVSG
 GLLKYQNLDTHTPPGCISLNRTPSQNMSIADYVSEHFHGSPLPGGFSKLEDHYQKTLVKICLEEPKFQAHF
 PQTWIIWISGPLCLYCAERLYRCIRSNKPVTIISVINHPSDVMELRMIKENFKARPGQYIILHCPVSALE
 NHPFTLTMCPTETKATFGVHFVVDWTERFRDLLLPPSSQDSEILPFIQSRNPKLYIDGPFSPFEES
 LNYEVSCLVAGGIGVTPFASILNLTLLDDWKPYLRRLYFIWVCRDIQSFQWFADLLYVLHNKFWQENRPD
 FVNIQLYLSQTDGIQKIIGEKYHTLNSRLFIGRPRWKLDFDEIAKCNRGKTVGVFCGPPSSISKTLHNLS
 NRRNSYGTKFEYNKESFSNRNNSYGTKFEYNKESFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1463_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053524

ORF Size: 1734 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](#)

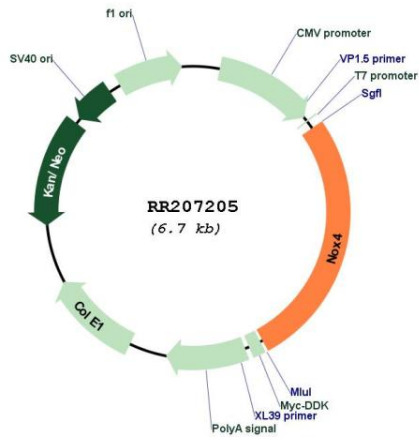
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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 Size:	2176 bp
RefSeq ORF:	1737 bp
Locus ID:	85431
UniProt ID:	Q924V1
Cytogenetics:	1q32
MW:	66.5 kDa
Gene Summary:	enzyme involved in the production of reactive oxygen species in vascular smooth muscle cells [RGD, Feb 2006]

Product images:



Circular map for RR207205