

Product datasheet for **RC232919**

NOX1 (NM_001271815) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOX1 (NM_001271815) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NOX1
Synonyms:	GP91-2; MOX1; NOH-1; NOH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC232919 representing NM_001271815
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAACTGGGTGGTTAACCCTGGTTTTCAGTTTTGTTCTGGTTGTTGGTTAGGGCTGAATGTTT
 TCCTGTTTGTGGATGCCTTCCTGAAATATGAGAAGGCCGACAAATACTACTACACAAGAAAAATCCTTGG
 GTTTTGCAGCCGCACACTGAGAAAAGCAATTGGATCACACCTCACCTTCCACAAGCTGGTGGCCTATATG
 ATCTGCCTACATACAGCTATTCACATCATTGCACACCTGTTAACTTTGACTGCTATAGCAGAAGCCGAC
 AGGCCACAGATGGCTCCCTTGCCTCCATTCTCTCCAGCCTATCTCATGATGAGAAAAAGGGGGTTCTTG
 GCTAAATCCCATCCAGTCCCGAAACACGACAGTGGAGTATGTGACATTACCAGCATTGCTGGTCTCACT
 GGAGTGATCATGACAATAGCCTTGATTCTCATGGTAACTCAGCTACTGAGTTCATCCGGAGGAGTTATT
 TTGAAGTCTTCTGGTATACTACCACCTTTTTATCTTCTATATCCTTGGCTTAGGGATTCACGGCATTGG
 TGGAAATTGTCGGGGTCAAACAGAGGAGAGCATGAATGAGAGTCATCCTCGCAAGTGTGCAGAGTCTTTT
 GAGATGTGGGATGATCGTACTCCCACTGTAGGCGCCCTAAGTTTGAAGGGCATCCCCCTGAGTCTTGGA
 AGTGGATCCTTGACCCGGTCATTCTTTATATCTGTGAAAGGATCCTCCGGTTTTACCGCTCCCAGCAGAA
 GGTTGTGATTACCAAGTTGTTATGCACCCATCCAAAGTTTTGGAATTGCAGATGAACAAGCGTGGCTTC
 AGCATGGAAGTGGGGCAGTATATCTTTGTTAAATGCCCTCAATCTCTCTCTGGAATGGCATCCTTTTA
 CTTTGACCTCTGCTCCAGAGGAAGATTTCTTCTCCATTATATCCGAGCAGCAGGGGACTGGACAGAAAA
 TCTCATAAGGGCTTTGAAACAACAATATCACCAATCCAGGATTGAAGTGGATGGTCCCTTTGGCACA
 GCCAGTGAAGATGTTTCCAGTATGAAGTGGCTGTGCTGGTTGGAGCAGGAATTGGGGTCACCCCCTTTG
 CTCTATCTTGAATCCATCTGGTACAAATCCAGTGTGCAGACCACAACCTCAAAAACAAAAAGATCTA
 TTTCTACTGGATCTGCAGGGAGACAGGTGCCTTTTCTGGTTCAACAACCTGTTGACTTCCCTGGAAACAG
 GAGATGGAGGAATTAGGCAAAGTGGGTTTTCTAAACTACCGTCTCTTCTCACCGGATGGGACAGCAATA
 TTGTTGGTTCATGCAGCATTAACTTTGACAAGGCCACTGACATCGTGACAGGTCTGAAACAGAAAACCTC
 CTTTGGGAGACCAATGTGGGACAATGAGTTTTCTACAATAGCTACCTCCCACCCCAAGTCTGTAGTGGGA
 GTTTTCTTATGTGGCCCTCGGACTTTGGCAAAGAGCCTGCGCAAATGCTGTACCAGATATCCAGTCTGG
 ATCCTAGAAAGGTTCAATTCTACTTCAACAAAGAAAAATTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232919 representing NM_001271815
 Red=Cloning site Green=Tags(s)

MGNWVVNHWFSVLFLVWVWGLNVFLFVDAFLKYEKADKYYYTRKILGFCSRTLKQLDHNLFHKLVAYM
 ICLHTAIHIIAHLFNFDYRSRQATDGLASILSSLSHDEKKGGSWLNPIQSRNTTVEYVFTTSIAGLT
 GVIMTIALILMVTSAFIRRSYFEVFWYTHLFIIFYILGLGIHGIGGIVRGQTEESMNESHPRKCAESF
 EMWDDRDSHCRRPKFEGHPPESWKWILAPVILYICERILRFYRSQQKVVITKVVMMHPSKVLLEQMNKRGF
 SMEVQYIFVNCPSISLLEWHPFTLTSAPPEEDFSIHIRAAGDWTENLIRAFEQQYSPPIPRIEVDGPFGT
 ASEDVFQYEVAVLVGAGIGVTPFASILKSIWYKFCADHNLKTKKIYFYWICRETGFASWFNLLTSLEQ
 EMEELGKVGFLNYRFLFTGWDSNIVGHAALNFDKATDIVTGLKQKTSFGRPMWDNEFSTIATSHPKSVVG
 VFLCGPRTLAKSLRKCHRYSSLDPKQVQFYFNKENF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2674_f01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001271815

ORF Size: 1581 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.

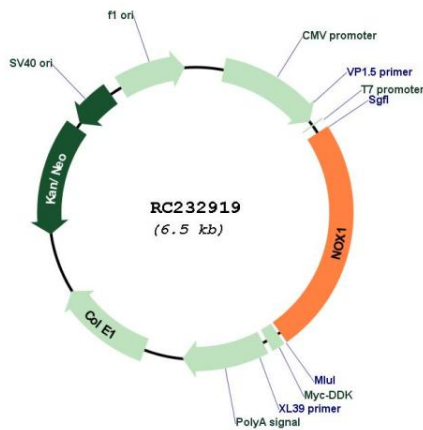
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_001271815.1](#), [NP_001258744.1](#)

RefSeq Size:	2418 bp
RefSeq ORF:	1584 bp
Locus ID:	27035
UniProt ID:	Q9Y5S8
Cytogenetics:	Xq22.1
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
Protein Pathways:	Leukocyte transendothelial migration
MW:	61.4 kDa
Gene Summary:	This gene encodes a member of the NADPH oxidase family of enzymes responsible for the catalytic one-electron transfer of oxygen to generate superoxide or hydrogen peroxide. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RC232919