

## Product datasheet for **MR226022**

### **Nox1 (NM\_172203) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nox1 (NM_172203) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nox1
Synonyms:	GP91-2; MOX1; NOH-1; NOH1; Nox; Nox-1; NOX1a; NOX1alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226022 representing NM\_172203  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGAAACTGGCTGGTTAACCACTGGCTCTCAGTTTTGTTTCTGGTTTCTGGTTGGGGCTGAACATTT  
 TTCTGTTTGTGTATGCCTTCTGAATTATGAGAAGTCTGACAAGTACTATTACACGAGAGAAATCTTGG  
 GACTGCCTTGGCCTTGGCCAGAGCATCTGCTCTGTGCTTGAATTTAACAGCATGATGATCCTGATTCTCT  
 GTGTGTCGAAATCTGCTGTCTTCTTGGAGGGCACCTGCTCATTTTGAACCGTACACTGAGAAAGCCAT  
 TGGATCACAACCTCACCTTCCATAAGCTGGTGGCATATATGATCTGCATATTCACAGTTATTCATATCAT  
 TGCACACCTATTTAACTTCGAACGCTACAGAAGAAGCCAAACAGGCCATGGATGGATCTCTCGTTCTGTT  
 CTCTCCAGCCTATCTCATCCTGAGAAAGAAGATTCTGGCTAAATCCCATCCAGTCTCCAAACATGACAG  
 TGATGTATGCAGCATTTACCAGTATTGCTGGCCTTACTGGAGTGATTGCCACTGTAGCTTTGGTTCTCAT  
 GGTAACGTCAGCTATGGAGTTTATCCGCAGGAATTATTTTGGCTTTTTGGTATACACATCACCTTTTT  
 ATCGTCTATATCATCTGCTTAGGGATCCATGGCCTGGGTGGGATTGTCCGGGGTCAAACAGAGGAGAGCT  
 TGGGTGAAAGCCATCCTCACAATTGTTCCCATCTTTTTACGAGTGGGATGACCATAAAGGGGAGTTGCAG  
 GCATCCTCATTTTGGGGGACCCCTGAGTCTTGAAGTGGATCCTTGCACCGATTGCTTTTTATATA  
 TTTGAAAGGATCCTTCGCTTTTATCGCTCCCAGCAGAAGTCTGATTACCAAGTTGTCATGCACCCAT  
 CTAATGTTTTGGAATTGCAGATGAGGAAGCAGGCTTTAGCATGGAAGTAGGACAGTATATTTGTAAA  
 TTGCCCTCCATTTCTTCTGGAGTGGCATCCCTTCACTCTGACTTCTGCTCCAGAGGAAGAATTTTTC  
 TCCGTTTCATATTCGAGCAGCAGGGGACTGGACACGAAATCTCATAAGGACATTTGAACAACAGCACTCAC  
 CAATGCCAGGATCGAGGTGGACGGTCCCTTTGGCACAGTCAGTGAGGATGTTTTCCAGTATGAAGTGGC  
 TGTAAGTGGTGGGGCAGGATTGGGGTCACTCCCTTTGCTTCCATCTTGAATCTATCTGGTACAATTC  
 CAGCGTGGCGACAACAAGCTCAAAACACAAAAGATCTATTTCTACTGGATCTGTAGAGAGACAGGTGCCT  
 TTGCCTGGTTCAACAACCTATTGAATCCCTGGAACAAGAGATGGAGGAATTAGGCAAAATGGATTTTCT  
 AAACCTACCGTCTCTTCTCACTGGCTGGGATAGCAACATTGCTGGTCTGCAGCATTAACTTTGACAGA  
 GCCACTGACATCCTGACAGGTCTGAAGCAGAAAACCTTCTTTGGGAGACCAATGTGGGACAATGAGTTTT  
 CTAGAATAGTACTGCCACCCCAAGTCTGCGGTGGGGTTTTCTATGTGGCCCTGGACTTTGGCAAA  
 AAGCCTGCGCAAACGCTGTCAGCGATACTCGAGTCTGGATCCTAGGAAGTTGAGTCTACTTCAACAAA  
 GAAACGTTCT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226022 representing NM\_172203  
 Red=Cloning site Green=Tags(s)

MGNWLVNHWLSVLFVSWLGLNIFLVYAFVFLNYEKSDKYYTRELGTALALARASALCLNFNSMMILIP  
 VCRNLLSFLRGTCFSFNRTRLRKPLDHNLFHKLVAYMICIFTVIHIIAHLFNFERYRRSQQAMDGSLASV  
 LSSLSHPEKEDSWLNPIQSPNMTVMYAFTSIAGLTGVIATVALVLMVTSAMEFIRRNYFELFWYTHHLF  
 IVYIICLGIHGLGGIVRGQTEESLGESHPHNCSHSFHEWDDHKGSCRHPHFAGHPPESSWKWILAPIAFYI  
 FERILRFYRSQQKVVITKVMHPSNVLELQMRKRGFSMEVGQYIFVNCPSISFLEWHPF TLTSAPEEEEFF  
 SVHIRAAGDWTRNLIRTFEQHSPMPRIEVDGPFGTVSEDFVQYEVAVLVGAGIGVTPFASILKSIWYKF  
 QRADNKLKTQKIYFYWICRETGAFAWFNLLNSLEQEMEELGKMDFLNYRFLFTGWDSNIAGHAALNFDR  
 ATDILTGLKQKTSFGRPMWDNEFSRIATAHPKSAVGVFLCGPRTLAKSLRKRCQRYSSLDPRKVQFYFNK  
 ETF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9015\\_b11.zip](https://cdn.origene.com/chromatograms/mm9015_b11.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_172203

**ORF Size:** 1689 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](mailto: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.

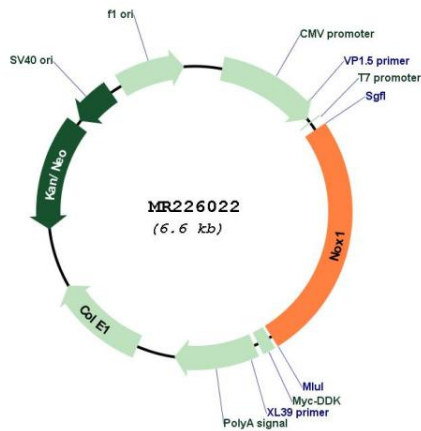
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_172203.2, NP\\_757340.1](#)  
**RefSeq Size:** 1692 bp  
**RefSeq ORF:** 1692 bp  
**Locus ID:** 237038  
**UniProt ID:** [Q8CIZ9](#)  
**Cytogenetics:** X E3  
**MW:** 65.6 kDa

**Gene Summary:** This gene encodes a subunit of the NADPH oxidase enzyme, which is a membrane-bound, multisubunit protein. This complex catalyzes the transfer of electrons from NADPH to molecular oxygen to produce superoxide or hydrogen peroxide and may have a role in antimicrobial killing and cell signaling. This protein binds other subunits in order to produce superoxide. In mouse, deficiency of this enzyme may be associated with changes in blood pressure. [provided by RefSeq, Jun 2013]

**Product images:**



Circular map for MR226022