

## Product datasheet for **RR210772**

### **Nox1 (NM\_053683) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nox1 (NM_053683) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nox1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR210772 representing NM\_053683  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGAAACTGGCTGGTTAACCACTGGCTCTCAGTTTTGTTTCTGGTTTCTGGTTGGGGCTGAACATTT  
 TTCTGTTTGTGTACGTCTTCTGAATTATGAGAAGTCTGACAAGTACTATTACACGAGAGAAATTCGCG  
 AACTGCCTTGGCCTTGGCCAGAGCATCTGCTTTGTGCCTGAATTTAACAGCATGGTGATCCTGATTCTCT  
 GTGTGTCGAAATCTGCTCTCTTCTGAGGGGCACCTGCTCATTTTGCAACCACACGCTGAGAAAGCCAT  
 TGGATCACAACCTCACCTTCCATAAGCTGGTGGCATATATGATCTGCATATTCACAGCTATTCATATCAT  
 TGCACATCTATTTAACTTTGAACGCTACAGTAGAAGCCAACAGGCCATGGATGGATCTCTTGCTCTGTT  
 CTCTCCAGCTATTCCATCCCGAGAAAGAAGATTCTGGCTAAATCCCATCCAGTCTCCAAACGTGACAG  
 TGATGTATGCAGCATTTACCAGTATTGCTGGCCTTACTGGAGTGGTCGCCACTGTGGCTTTGGTTCTCAT  
 GGTAACCTCAGCTATGGAGTTTATCCGAGGAATTATTTTGGCTCTTCTGGTATACACATCACCTTTTC  
 ATCATCTATATCATCTGCTTAGGGATCCATGGCCTGGGGGGGATTGTCCGGGGTCAAACAGAAAGAGAGCA  
 TGAGTGAAGTCAATCCCGCAACTGTTCATACTCTTCCACGAGTGGGATAAGTATGAAAGGAGTTGCAG  
 GAGTCTCATTTTGTGGGGCAACCCCTGAGTCTTGAAGTGGATCCTCGCGCCGATTGCTTTTTATATC  
 TTTGAAAGGATCCTTCGCTTTTATCGCTCCCGGAGAAGGTCTGATTACCAAGTTGTCATGCACCCAT  
 GTAAAGTTTTGGAATGCAGATGAGGAAGCGGGCTTTACTATGGGAATAGGACAGTATATTCGTA  
 TTGCCCTCGATTTCTTCTGGAATGGCATCCCTTTACTCTGACCTCTGCTCCAGAGGAAGAATTTTTC  
 TCCATTCATATTCGAGCAGCAGGGGACTGGACAGAAAACTCATAAGGACATTTGAACAACAGCACTCAC  
 CAATGCCAGGATCGAGGTGGATGGTCCCTTTGGCACAGTCAAGTGGATGTCTTCCAGTACGAAGTGGC  
 TGTAAGTGGTGGGGCAGGGATTGGCGTCACTCCCTTTGCTTCTTGAATCTATCTGGTACAATTC  
 CAGCGTGCACACAACAAGCTGAAAAACAAAAAGATCTATTTCTACTGGATTTGTAGAGAGACGGGTGCCT  
 TTGCTGGTTCAACAACCTATTGAATCCCTGGAACAAGAGATGGACGAATTAGGCAAACCGGATTTCT  
 AAACCTACCGACTCTTCTCACTGGCTGGGATAGCAACATTGCTGGTCAATGCAGCATTAACTTTGACAGA  
 GCCACTGACGCTCTGACAGGTCTGAAACAGAAAACCTCTTTGGGAGACCAATGTGGGACAATGAGTTTT  
 CTAGAATAGTACTGCCACCCCAAGTCTGTGGTGGGGTTTTCTATGCGGCCCTCCGACTTTGGCAA  
 AAGCCTGCGCAAATGCTGTGCGCGGTACTCAAGTCTGGATCCTAGGAAGTTCAATTCTACTTCAACAAA  
 GAAACGTTCGAAACGTTT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR210772 representing NM\_053683  
 Red=Cloning site Green=Tags(s)

MGNWLVNHWLSVLFVSWLGLNIFLVVYVFLNYEKS DKY Y Y Y T R E I L G T A L A L A R A S A L C L N F N S M V I L I P  
 V C R N L L S F L R G T C S F C N H T L R K P L D H N L T F H K L V A Y M I C I F T A I H I A H L F N F E R Y S R S Q Q A M D G S L A S V  
 L S S L F H P E K E D S W L N P I Q S P N V T V M Y A A F T S I A G L T G V V A T V A L V L M V T S A M E F I R R N Y F E L F W Y T H H L F  
 I I Y I I C L G I H G L G G I V R G Q T E E S M S E S H P R N C S Y S F H E W D K Y E R S C R S P H F V G Q P P E S W K W I L A P I A F Y I  
 F E R I L R F Y R S R Q K V V I T K V M H P C K V L E L Q M R K R G F T M G I G Q Y I F V N C P S I S F L E W H P F T L T S A P E E E F F  
 S I H I R A A G D W T E N L I R T F E Q Q H S P M P R I E V D G P F G T V S E D V F Q Y E V A V L V G A G I G V T P F A S F L K S I W Y K F  
 Q R A H N K L K T Q K I Y F Y W I C R E T G A F A W F N N L L N S L E Q E M D E L G K P D F L N Y R L F L T G W D S N I A G H A A L N F D R  
 A T D V L T G L K Q K T S F G R P M W D N E F S R I A T A H P K S V V G V F L C G P P T L A K S L R K C C R R Y S S L D P R K V Q F Y F N K  
 E T F E T F

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1554\\_e04.zip](https://cdn.origene.com/chromatograms/ja1554_e04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_053683

**ORF Size:** 1689 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:**
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\\_053683.1](#), [NP\\_446135.1](#)

**RefSeq Size:** 2577 bp

**RefSeq ORF:** 1692 bp

**Locus ID:** 114243

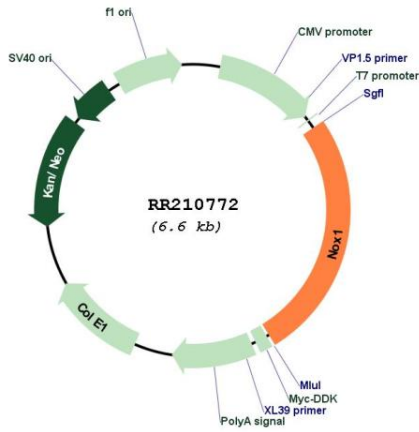
**UniProt ID:** [Q9WV87](#)

**Cytogenetics:** Xq32

**MW:** 65.2 kDa

**Gene Summary:** involved in superoxide generation and serum-stimulated growth [RGD, Feb 2006]

**Product images:**



Circular map for RR210772