

Product datasheet for **RC215043**

NOX1 (NM_013955) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | NOX1 (NM_013955) 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) |



[View online »](#)

ORF Nucleotide Sequence:

>RC215043 representing NM_013955
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAAACTGGGTGGTTAACCACTGGTTTTTCAGTTTTGTTCTGGTTGTTGGTTAGGGCTGAATGTTT
 TCCTGTTTGTGGATGCCTTCCTGAAATATGAGAAGGCCGACAAATACTACTACACAAGAAAAATCCTTGG
 GTCAACATTGGCCTGTGCCCGAGCGTCTGCTCTGCTTGAATTTAACAGCACGCTGATCCTGTTCTCT
 GTGTGTCGCAATCTGCTGTCTTCTGAGGGGCACCTGCTCATTTTGCAGCCGCACACTGAGAAAGCAAT
 TGGATCACAACCTCACCTCCACAAGCTGGTGGCCTATATGATCTGCCTACATACAGCTATTACATCAT
 TGCACACCTGTTAACTTTGACTGCTATAGCAGAAGCCGACAGGCCACAGATGGCTCCCTTGCTCCATT
 CTCTCCAGCCTATCTCATGATGAGAAAAAGGGGGTCTTGGCTAAATCCATCCAGTCCCGAAACAGCA
 CAGTGGAGTATGTGACATTCACCAGCATTGCTGGTCTCACTGGAGTATCATGACAATAGCCTTGATTCT
 CATGGTAACTTCAGCTACTGAGTTCATCCGGAGGATTTATTTGAAGTCTCTGGTATACTACCACCTT
 TTTATCTTCTATATCCTTGGCTTAGGGATTACCGCATTGGTGAATTGTCCGGGGTCAAACAGAGGAGA
 GCATGAATGAGAGTCATCCTCGCAAGTGTGCAGAGTCTTTTGAAGTGTGGATGATCGTGACTCCCACTG
 TAGGCGCCCTAAGTTTGAAGGGCATCCCCCTGAGTCTTGGAAAGTGGATCCTTGCACCGGTATTCTTTAT
 ATCTGTGAAAGGATCCTCCGGTTTTACCCTCCAGCAGAAGGTTGTGATTACCAAGGTTGTTATGCACC
 CATCCAAAGTTTTGGAATTCAGATGAACAAGCGTGGCTTCAGCATGGAAGTGGGACAGTATATCTTTGT
 TAATTGCCCTCAATCTCTCTCTGGAATGGCATCCTTTACTTTGACCTCTGCTCCAGAGGAAGATTTCT
 TTCTCCATTATATCCGAGCAGCAGGGGACTGGACAGAAAATCTATAAGGGCTTTCGAACAACAATATT
 CACCAATTCCCAGGATTGAAGTGGATGGTCCCTTTGGCACAGCCAGTGAAGTATTTCCAGTATGAAGT
 GGCTGTGCTGGTTGGAGCAGGAATTGGGGTCAACCCCTTTGCTTCTATCTTGAATCCATCTGGTACAAA
 TTCCAGTGTGCAGACCACAACCTCAAAAACAAAAAGGTTGGTGCATGCAGCATTAACTTTGACAAGGCCA
 CTGACATCGTGACAGGTCTGAAACAGAAAACCTCCTTTGGGAGACCAATGTGGGACAATGAGTTTTCTAC
 AATAGCTACCTCCACCCCAAGTCTGTAGTGGGAGTTTTCTTATGTGGCCCTCGGACTTTGGCAAAGAGC
 CTGCGCAAATGCTGTACCGATATTCCAGTCTGGATCCTAGAAAGGTTCAATTCTACTTCAACAAAGAAA
 ATTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215043 representing NM_013955
 Red=Cloning site Green=Tags(s)

MGNWVVNHWFSVLFVWVWGLNVFLFVDAFLKYEKADKYYYTRKILGSTLACARASALCLNFNSTLILLP
 VCRNLLSFLRGTCFSRTRLRKQLDHNLFHKLVAYMICLHTAIHIIAHLFNFDYRSRQATDGLASL
 LSSLSHDEKKGGSWLNPIQSRNTTVEYVFTSIAGLTGVIMTIALILMVTSAFIRRSYFEVFWYTHHL
 FIFYILGLGIHGIGGIVRGQTEESMNESHPRKCAESFEMWDDRDSHCRRPKFEGHPPESWKWILAPVILY
 ICERILRFYRSQQKVVITKVMHPSKVLLEQMNKRGSMEVQYIFVNCPSISLLEWHPFTLTSAPPEEDF
 FSIHIRAAGDWTENLIRAFEQQYSPIPRIEVDGPFGTASEDVQYEVAVLVGAGIGVTPFASILKSIWYK
 FQCADHNLKTKKVGHAALNFDKATDIVTGLKQKTSFGRPMWDNEFSTIATSHPKSVVGVFLCGPRTLAKS
 LRKCCHRYSSLDPRKVQFYFNKENF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8064_e11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_013955

ORF Size: 1545 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.

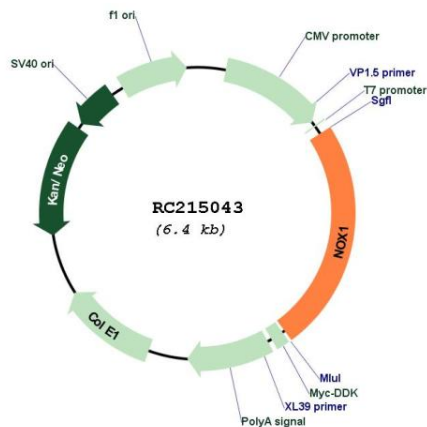
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_013955.3](#)

| | |
|-------------------|--|
| RefSeq Size: | 1734 bp |
| RefSeq ORF: | 1548 bp |
| Locus ID: | 27035 |
| UniProt ID: | Q9Y5S8 |
| Cytogenetics: | Xq22.1 |
| Protein Families: | Druggable Genome, Ion Channels: Other, Transmembrane |
| Protein Pathways: | Leukocyte transendothelial migration |
| MW: | 58.8 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 RC215043