

Product datasheet for **MG226022**

Nox1 (NM_172203) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nox1 (NM_172203) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nox1
Synonyms:	GP91-2; MOX1; NOH-1; NOH1; Nox; Nox-1; NOX1a; NOX1alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226022 representing NM_172203
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAACTGGCTGGTTAACCACTGGCTCTCAGTTTTGTTTCTGGTTTCTGGTTGGGGCTGAACATTT
 TTCTGTTTGTGTATGCCTTCTGAATTATGAGAAGTCTGACAAGTACTATTACACGAGAGAAATCTTGG
 GACTGCCTTGGCCTTGGCCAGAGCATCTGCTCTGTGCTTGAATTTAACAGCATGATGATCCTGATTCTCT
 GTGTGTCGAAATCTGCTGTCTTCTTGGAGGGCACCTGCTCATTTTGAACCGTACACTGAGAAAGCCAT
 TGGATCACAACCTCACCTTCCATAAGCTGGTGGCATATATGATCTGCATATTCACAGTTATTCATATCAT
 TGCACACCTATTTAACTTCGAACGCTACAGAAGAAGCCAAACAGGCCATGGATGGATCTCTCGTTCTGTT
 CTCTCCAGCCTATCTCATCCTGAGAAAGAAGATTCTTGGCTAAATCCCATCCAGTCTCCAAACATGACAG
 TGATGTATGCAGCATTTACCAGTATTGCTGGCCTTACTGGAGTGATTGCCACTGTAGCTTTGGTTCTCAT
 GGTAACGTCAGCTATGGAGTTTATCCGCAGGAATTATTTTGGCTCTTTTGGTATACACATCACCTTTTT
 ATCGTCTATATCATCTGCTTAGGGATCCATGGCCTGGGTGGGATTGTCCGGGGTCAAACAGAGGAGAGCT
 TGGGTGAAAGCCATCCTCACAATTGTTCCCATCTTTTACAGAGTGGGATGACCATAAAGGGGAGTTGCAG
 GCATCCTCATTTTGGGGGACCCCTTGGAGTCTTGAAGTGGATCCTTGCACCGATTGCTTTTTATATA
 TTTGAAAGGATCCTTCGCTTTTATCGCTCCCAGCAGAAGTCTGATTACCAAGTTGTCATGCACCCAT
 CTAATGTTTTGGAATTGCAGATGAGGAAGCAGGCTTTAGCATGGAAGTAGGACAGTATATTTGTA
 TTGCCCTCCATTTCTTCTGGAGTGGCATCCCTTCACTCTGACTTCTGCTCCAGAGGAAGAATTTTTC
 TCCGTTTCATATTCGAGCAGCAGGGGACTGGACACGAAATCTCATAAGGACATTTGAACAACAGCACTCAC
 CAATGCCAGGATCGAGGTGGACGGTCCCTTTGGCACAGTCAGTGAGGATGTTTTCCAGTATGAAGTGGC
 TGTAAGTGGTGGGGCAGGGATTGGGGTCACTCCCTTTGCTTCCATCTTGAATCTATCTGGTACAATTC
 CAGCGTGGCGACAACAAGCTCAAAACACAAAAGATCTATTTCTACTGGATCTGTAGAGAGACAGGTGCCT
 TTGCCTGGTTCAACAACCTATTGAATCCCTGGAACAAGAGATGGAGGAATTAGGCAAAATGGATTTTCT
 AAACCTACCGTCTCTTCTCACTGGCTGGGATAGCAACATTGCTGGTCTGCAGCATTAACTTTGACAGA
 GCCACTGACATCCTGACAGGTCTGAAGCAGAAAACCTTCTTTGGGAGACCAATGTGGGACAATGAGTTTT
 CTAGAATAGTACTGCCACCCCAAGTCTGCGGTGGGGTTTTCTATGTGGCCCTGGACTTTGGCAAA
 AAGCCTGCGCAAACGCTGTCAGCGATACTCGAGTCTGGATCCTAGGAAGTTGAGTCTACTTCAACAAA
 GAAACGTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG226022 representing NM_172203
 Red=Cloning site Green=Tags(s)

MGNWLVNHWLSVLFVSWLGLNIFLVYAFVFLNYEKSDKYYTREILGTALALARASALCLNFNSMMLIP
 VCRNLLSFLRGTCFSFCNRTLRLKPLDHNLFHKLVAYMICIFTVIHIIAHLFNFERYSQQAMDGSLASV
 LSSLSHPEKEDSWLNPIQSPNMTVMYAAFTSIAGLTGVIATVALVLMVTSAMEFIRRNYFELFWYTHHFL
 IYVYIICLGIHGLGGIVRGQTEESLGESHPHNCSHSFHEWDDHKGSCRPHFAGHPPESWKWLAPIAFYI
 FERILRFYRSQQKVVITKVMHPSNVLELQMRKRGFSMEVGQYIFVNCPSISFLEWHPFTLTSAPPEEFF
 SVHIRAAGDWTRNLIRTFEQHSPMPRIEVDGPFQVSEDFQYEVAVLVGAGIGVTPFASILKSIWYKF
 QRADNKLKTKIYFYWICRETGAFAWFNLLNSLEQEMEELGKMDFLNYRFLFTGWDSNIAGHAALNFDR
 ATDILTGLKQKTSFGRPMWDNEFSRIATAHPKSAVGVFLCGPRTLAKSLRKRCQRYSSLDPKQVYFNFK
 ETF

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1896_a08.zip

Restriction Sites:

SgfI-MluI

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 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.

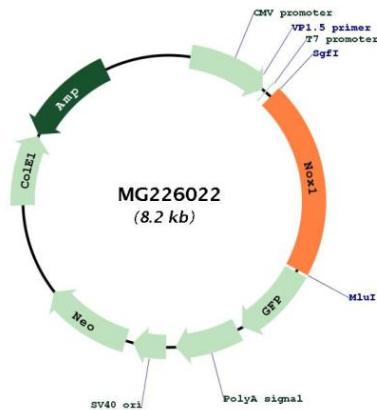
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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

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 MG226022