

Product datasheet for **SC304023**

NOX1 (NM_013955) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOX1 (NM_013955) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >SC304023 representing NM_013955.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGAAACTGGGTGGTTAACCACTGGTTTTTCAGTTTTTCTGGTTGTTTGGTTAGGGCTGAATGTT
TTCTGTGTTTGGGATGCCTTCCCGAAATATGAGAAGGCCGACAAATACTACTACACAAGAAAAATCCTT
GGGTCAACATTGGCCTGTGCCCGAGCGTCTGCTCTCTGCTTGAATTTTAAACAGCACGCTGATCCTGCTT
CCTGTGTGTCGCAATCTGCTGCTTCCCTGAGGGGCACCTGCTCATTTCAGCCGCACACTGAGAAAG
CAATTGGATCACAACTCACCTCCACAAGCTGGTGGCCTATATGATCTGCCTACATACAGCTATTAC
ATCATTGCACACCTGTTAACTTTGACTGCTATAGCAGAAGCCGACAGGCCACAGATGGCTCCCTTGCC
TCCATTCTCTCCAGCCTATCTCATGATGAGAAAAAGGGGGTTCTTGGCTAAATCCCATCCAGTCCCGA
AACACGACAGTGGAGTATGTGACATTACCAGCATTGCTGGTCTCACTGGAGTATCATGACAATAGCC
TTGATTCTCATGGTAACTTCAGCTACTGAGTTCATCCGGAGGAGTATTTTGAAGTCTTCTGGTACT
CACCACCTTTTTATCTTCTATATCCTTGGCTTAGGGATTACGGCATTGGTGAATTGTCCGGGGTCAA
ACAGAGGAGAGCATGAATGAGAGTCATCCTCGCAAGTGTGCAGAGTCTTTTGAAGTGTGGGATGATCGT
GACTCCCCTGTAGGCGCCCTAAGTTTGAAGGGCATCCCCTGAGTCTTGAAGTGGATCCTTGACCCG
GTCATTCTTTATCTGTGAAAGGATCCTCCGGTTTTACCCTCCAGCAGAAGGTTGTGATTACCAAG
GTTGTTATGCACCATCCAAAGTTTTGGAATTGCAGATGAACAAGCGTGGCTTACAGATGGAAGTGGGG
CAGTATATCTTTGTTAATTGCCCTCAATCTCTCTCTGGAATGGCATCCTTTTACTTTGACCTCTGCT
CCAGAGGAAGATTTCTTCCATTCATATCCGAGCAGCAGGGGACTGGACAGAAAATCTCATAAGGGCT
TTCGAACAACAATATCCCAATTCCCAGATTGAAGTGGATGGTCCCTTTGGCACAGCCAGTGAAGAT
GTTTTCCAGTATGAAGTGGCTGTGCTGGTTGGAGCAGGAATTGGGGTCAACCCCTTGTCTATCTTG
AAATCCATCTGGTACAAATTCAGTGTGCAGACCACAACCTCAAAACAAAAAAGGTTGGTATGCAGCA
TTAAACTTTGACAAGGCCACTGACATCGTGACAGGTCTGAAACAGAAAACCTCCTTTGGGAGACCAATG
TGGGACAATGAGTTTTCTACAATAGCTACCTCCCACCCCAAGTCTGTAGTGGGAGTTTTCTATGTGGC
CCTCGGACTTTGGCAAAGAGCCTGCGCAAATGCTGTACCAGTATTCAGTCTGGATCCTAGAAAGGTT
CAATTCTACTTCAACAAGAAAAATTTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_013955

Insert Size: 1548 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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none">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_013955.2
RefSeq Size:	2382 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:	59 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2, alternately referred to as NOH-1Lv per PMID: 10615049) lacks an alternate in-frame coding exon, compared to variant 1 (NOH-1L). The resulting isoform (2) has the same N- and C-termini but is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p>