

Product datasheet for **MC219182**

Nox4 (NM_015760) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nox4 (NM_015760) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nox4
Synonyms:	A1648021
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_015760, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGTGTCTGGAGGAGCTGGCTGGCCAACGAAGGGGTTAAACACCTCTGCCTGCTCATTGGCTGT
CCCTAAACGTTCTACTTTTCTGGAAAACCTTCCTGCTGTACAACCAAGGGCCAGAATACTACTACATTCA
CCAAATGTTGGGCTAGGATTGTGTTAAGCAGAGCATCTGCATCTGCTGAACCTCAACTGCAGCCTC
ATCCTTTTACCTATGTGCCGGACAGTCCTGGCTTATCTTCGAGGATCACAGAAGGCCCTAGCAGGAGAA
CAAGAAGATTGTTGGATAAAAAGCAAGACTCTACACATCACATGTGGTGAACATCTGTATTTTCTCAGG
TGTGCATGTAGCCGCCCACTTGGTGAATGCCCTCAACTTTTCACTGAACTACAGTGAAGATTTCTTGAA
CTGAATGCAGCAAGATACCAGAATGAGGATCCCAGAAAGCTTCTCTTACAACCATTCCTGGTCTGACGG
GTGTCTGCATGGTGGTATTGTTCTCATGGTTACAGCTTCTACCTACGCAATAAGAGTTTCTAATTA
TGATATCTTCTGGTATACTACAACCTCTCTTTGTCTTCTACATGCTGCTGCTGTTGCATGTTTCAGGT
GGTTTGTGAAGTATCAGACAAATGTAGACTCACCCTCCTGGCTGCATTAGTCTTAACCAGACATCAT
CCCAGAATATGCCATACCAGACTACGTCTCAGAACATTTTCATGGATCTTTCCTCGAGGGTTTTCAA
ATTAGAAGATCGTTACCAGAAAACACTTGTGAAGATTTGCTGGAAGAACCCAAGTTCCAAGCTCATTTT
CCACAGACCTGGATTTGGATTTCTGGACCTTTGTGCCTTTATTGTGCGGAGAGACTTTACCGATGCATCA
GGAGCAACAAACCTGTCACCATCATCTCAGTCATCAATCATCCCTCTGATGTAATGGAACCCGATGAT
CAAAGAAAACCTTAAAGCAAGACCTGGTCAGTATATTATCTCCATTGCCCCAGTGTATCAGCATTAGAA
AACCACCCATTTACTCTACAATGTGTCCTACTGAAACCAAGCAACATTTGGTGTCCATTTAAAGTAG
TAGGAGACTGGACAGAACGATTCGGGATTTGCTACTGCCTCCATCAAGTCAAGACTCTGAGATTCTGCC
CTTCATCTACTAGAAAATACCCTAAGTTATACATTGATGGTCCATTTGGAAGCCCATTTGAGGAGTCA
CTGAACATGAAGTTAGTCTCTGTGTGGCTGGAGGCATTGGAGTCACTCCATTTGCATCGATACTAAACA
CTCTACTGGATGACTGGAACCATACAAGTTAAGAAGACTGTACTTTATCTGGGTGTGCAGAGACATCCA
ATCATTCCAGTGGTTTGCAGATTTACTCTGTGTGTTGCATAACAAGTTTTGGCAAGAAAACAGACCTGAC
TTTGTGAACATCCAGCTGTACCTCAGTCAAACAGATGGGATTCAGAAGATAATTGGAGAAAAATACACA
CACTGAATTCGAGACTTTTCATTGGACGTCCTCGGTGGAACCTTTATTTGATGAAATAGCAAAATGTAA
CAGAGGGAAAACAGTTGGAGTTTCTGCTGTGGACCCAGTTCTATTTCCAAGACTCTTCATAGTTTGAGT
AACCGGAACAACATATGGGACAAAATTTGAATACAATAAGAATCCTTCAGCTGA
    
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Restriction Sites: Sgfl-Mlul

ACCN: NM_015760

Insert Size: 1737 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](#)

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:	BC138918 , AAI38919
RefSeq Size:	2343 bp
RefSeq ORF:	1737 bp
Locus ID:	50490
UniProt ID:	Q9JHI8
Cytogenetics:	7 D3
Gene Summary:	Constitutive NADPH oxidase which generates superoxide intracellularly upon formation of a complex with CYBA/p22phox. Regulates signaling cascades probably through phosphatases inhibition. May function as an oxygen sensor regulating the KCNK3/TASK-1 potassium channel and HIF1A activity. May regulate insulin signaling cascade. May play a role in apoptosis, bone resorption and lipolysaccharide-mediated activation of NFKB.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longest isoform (1).