

Product datasheet for **MC228075**

Nox4 (NM_001285835) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nox4 (NM_001285835) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nox4
Synonyms:	A1648021
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228075 representing NM_001285835
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCCGGACAGTCCTGGCTTATCTTCGAGGATCACAGAAGTCCCTAGCAGGAGAACAAGAAGATTGT
 TGGATAAAGCAAGACTCTACACATCACATGTGGTGAACATCTGTATTTCTCAGGTGTGCATGTAGC
 CGCCCACTTGGTGAATGCCCTCACTTTTCAGTGAACACAGTGAAGATTTCTTGAACGAATGCAGCA
 AGATACCAGAATGAGGATCCCAGAAAGCTTCTCTTACAACCATTCCTGGTCTGACGGGTGTCTGCATGG
 TGGTGGTATTGTTCTCATGGTTACAGCTTCTACCTACGCAATAAGAGTTTCTAATTATGATATCTTCTG
 GTATACTACAACCTCTTCTTTGTCTTCTACATGCTGCTGCTGTTGCATGTTTCAGGTGGTTTGTGAAG
 TATCAGACAAATGTAGACTCACCTCCTGGCTGCATTAGTCTTAACCAGACATCATCCAGAATATGT
 CCATACCAGACTACGTCTCAGAACATTTTCATGGATCTTGCCTCGAGGGTTTTCAAATAGAAGATCG
 TTACCAGAAAACACTTGTGAAGATTTGCCTGGAAGAACCAAGTTCCAAGCTATTTCCACAGACCTGG
 ATTTGGATTTCTGGACCTTTGTGCCTTTATTGTGCGGAGAGACTTACCGATGCATCAGGAGCAACAAC
 CTGTCAACCATCATCTCAGTCATCAATCATCCCTCTGATGTAATGGAACCTCCGATGATCAAGAAAACCT
 TAAAGCAAGACCTGGCCAGTATATTATTCTCCATTGCCCCAGTGTATCAGCATTAGAAAACCAACCCATTT
 ACTCTCACAATGTGTCCTACTGAAACCAAGCAACATTTGGTGTCCACTTTAAAGTAGTAGGAGACTGGA
 CAGAACGATTCGGGATTTGCTACTGCCTCCATCAAGTCAAGACTCTGAGATTCTGCCCTTCATTCACCTC
 TAGAAATTACCCTAAGTTATACATTGATGGTCCATTTGGAAGCCCATTTGAGGAGTCACTGAACTATGAA
 GTTAGTCTCTGTGTGGCTGGAGGCATTGGAGTCACTCCATTTGCATCGATACTAAACACTCTACTGGATG
 ACTGGAACCATACAAGTTAAGAAGACTGTACTTTATCTGGGTGTCAGAGACATCCAATCATTCCAGTG
 GTTTGCAGATTTACTCTGTGTGTTGCATAACAAGTTTTGGCAAGAAAACAGACCTGACTTTGTGAACATC
 CAGCTGTACCTCAGTCAAACAGATGGGATTCAGAAGATAATTGGAGAAAAATATCACACTGAATTCGA
 GACTTTTCATTGGGCGTCTCGGTGAAACTTTTTATTGATGAAATAGCAAAATGTAACAGAGGGAAAAAC
 AGTTGGAGTTTTCTGCTGTGGACCCAGTTCTATTTCCAAGACTCTTCATAGTTTGAGTAACCGGAACAAC
 TCATATGGGACAAAATTTGAATACAATAAAGAATCCTTCAGCTGA

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001285835
- Insert Size:** 1515 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001285835.1](#), [NP_001272764.1](#)

RefSeq Size: 3756 bp

RefSeq ORF: 1515 bp

Locus ID: 50490

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 lipopolysaccharide-mediated activation of NFKB.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (3) uses an alternate splice junction at the 5' end of an exon compared to variant 1. This difference causes translation initiation at a downstream AUG and results in an isoform (3) with a shorter N-terminus compared to isoform 1.