

Product datasheet for **MC219460**

Nox3 (NM_198958) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nox3 (NM_198958) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nox3
Synonyms:	GP91-3; het; nmf25; nmf250
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219460 representing NM_198958
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGGTGTGCTGGATTCTGAACGAGAGTGGGTCTTCGTGGTTGCTCTTTATGGCTGGCAGTAAACG
 CCTATCTGTTTATTGACACATTCTTCTGGTATACTGAAGAGGAGGCTTTCTTTTATACACGAGTTATTCT
 GGGTCCGCATTGGCATGGGCCCGGCATCTGCCGTGTGCCTGAATTTAACTGCATGCTAATTCTGTTA
 CCTGTCACTCGGAACTTCATTTCACTGGTGAAGGAACAAGTGTGTGCTGTAGAGGACCAGGAGAAGAC
 AACTAGACAAAAACCTCAACTCCACAACTCGTTGCCTACGGGATAGCTGTCAATTCAGTTATCCACAT
 TGTGGCACACTTGTCAACCTGGAGCGTTATCACCTGGTCAGGCCAAGGATGCTGAAGGGCTGCTGGCT
 GCACTTTCCAACTTGGCGATGCCCAAATGAGAGCTACCTCAATCCAGTCCGCACCTTTGATATGGGCA
 CAACCACTGAGCTATTGATGACAGTGTGAGGAATTACTGGCCTGGGTATCTCTCTGGCTCTGGTCTTCAT
 CATGACCTCTTCAACGAATTCATCAGAAGTCTCTTATGAGCTCTTCTGGTACACACACCATATCTTT
 GTCTTCTTTCATCAGTCTGGCCATCCACGGAGGAGTGCATCATTCCAGGCCAACTCCAGAGAGTC
 TCCGGCTGCACAATGTCACGTAAGTGCAGAGACCACTATGCTGAATGGCAGGCAGCTGCCTTATGCCCTGT
 ACCTCAATTTTCTGGCAAGGAACCTTCGGCCTGGAAATGGGCTTTGGGTCTGTGGTCTTGTATGCGTGT
 GAAAGAATAATTAGGTTCTGGAGATCTCACAAGAAGTTGTCATTACCAAGTGGTGAGTCAACCATCTG
 CAGTCTTGGAACTTCACATGAAGAAGCGAGACTCAAGATGGCACCTGGACAGTACATCTTCATCCAGTG
 CCCATCTGTCTCCCCCTGGAGTGGCACCCCTTCACTCTCACCTCCGCTCCCCAGGAGGACTTCTCAGT
 GTACACATCAGAGCCTCAGGAGACTGGACAGAGGCGTTATTGAAGGCCTTTAGAGTAGAGGGACAGGCTC
 CCAGTGAGCTCTGTAGCATGCCGAGGCTAGCAGTGGATGGGCCCTTTGGAGGCTCTCTGGCAGATGTATT
 TCACTACCCCGTGAAGCGTGTGCATTGCAACGGGAATTGGAGTCACTCCCTTCGCCTCTTCTGAAGTCT
 GTGTGGTATAAGTGTGAATCACAGAGCCTGCCTGAGCTGAGCAAGGTGACTTCTATTGGATCTGCC
 GGGATGCCGAGCATTGAGTGGTTTGTGATCTGTTACTGTCACTGAAACACGGATGAGTGAACAAGG
 GAAGGCTCATTTACTGAGCTACCATATATCTCACTGGCTGGGATGAAAACAGGCAATTCACATAGCT
 TTACACTGGGATGAAAGTCTGGATGTGATAACAGGCTTAAAGCAGAAGGCTTTCTATGGGCGACCAACT
 GGAACGACGAATCAAGCAGATTGCCTACAATCACCCAGCAGCAGCATTGGCGTGTCTCTGTGGATC
 CAAAGCCATGTCAAAGACTCTTCAAAGATGTGTCGTTTGTACTCATCTGTGGATCCGAGGGGCGTTCAT
 TTCTATTACAACAAGGAAAACCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_198958
- Insert Size:** 1707 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).
- 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_198958.2](#), [NP_945196.2](#)

RefSeq Size: 1792 bp

RefSeq ORF: 1707 bp

Locus ID: 224480

UniProt ID: [Q672J9](#)

Cytogenetics: 17 2.05 cM

Gene Summary: This gene encodes a member of the NOX family of NADPH oxidases. These enzymes catalyze the transfer of electrons from NADPH to molecular oxygen to produce superoxide and other reactive oxygen species (ROS). The ROS generated by family members have been implicated in numerous biological functions including host defense, posttranslational processing of proteins, cellular signaling, regulation of gene expression, and cell differentiation. The protein encoded by this gene is expressed predominantly in the inner ear and is involved in the biogenesis of otoconia, which are crystalline structures of the inner ear involved in the perception of gravity and linear acceleration. In mouse mutations of this gene lead to the absence of otoconia and vestibular dysfunction. [provided by RefSeq, Jun 2013]