

Product datasheet for **RN214060**

Nox3 (NM_001004216) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nox3 (NM_001004216) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nox3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN214060 representing NM_001004216
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGACGTGCTGGATTTTGAACGAGAGTGTGTCTTCTGTTGCTCTCTTGTGGCTGGCAATAATA
 TCTATCTGTTTATTGACACGTTCTGCTGGTATGCTGAAGAGGAGTCTTTCTTTTATACACGAGTTATTCT
 GGGTCCGCATTGGCATGGGCCCGGCATCTGCCGTGTGCCTGAATTTAACTGCATGCTAATTCTGTTA
 CCTGTCACTCGGAACTTCGTTTCACTGGTGTAGAGGAACGAGCGTGTGCTGTAGAGGACCGTGGAGACGGC
 AACTAGACAAAAACCTCAAGTCCACAAGCTCGTTGCCTACGGGATAGCTGTTAATTCAGTTATCCACAT
 TGTGGCACACTTGTCAACCTGGAGCGTTATCACCTGGTCAGGCCAAGGATGCTGAAGGGCTGCTGGCT
 GCGTTTTCCAACCTGGCAATGCCCAAATGAAAGCTACCTCAATCCGGTCCGCACCTTGTATACGGGTA
 CAACCACTCAGCTAATAATGACAGTCTCCGGAATTACTGGCCTGGTGTATCTCTGGCTTTGATATTGAT
 CATGACCTCTTCAACTGAGTTTATCAGGCAGTCTCTTATGAGCTATTCTGGTACACACACCATATCTTC
 ATCTTCTCTTATCAGTCTGGCCATCCACGGAGGAGTCCGATCATTCCAGGTCAAACTCCAGAGAGTC
 TCCGGCTGCACAATGTCACCTTCTGCAGAGACCACTTCGACGAATGGCAGGAAGCTGCCTCGTGCCTGT
 ACCTCAATTTTCTGGCAAGGAGCCGTCCGCCTGGAAATGGACTTTGGCCCTGTGGTCTTGTATGCGTGT
 GAAATAATAATTAGGTTCTGGAGATCTACCAAGAAGTTGTCATTACCAAGTGGTGTGAGTACCCATCTG
 CAGTCTGGAACTTCACATGAAGAAGCGTGACTTCAAGATGGCGCCCGGACAGTACATCTTATCCAGTG
 CCCATCCATCTCCCGCTGGAGTGGCACCCCTTCACTCTACGTCTGCTCCCAAGGAGGACTTCTCAGT
 GTACACATCCGAGCCTCAGGAGACTGGACAGAGGCGTTACTGAAGGCATTTGGAGCAGAGGGACAGGCTC
 CCAGTGAGCTCTGTAGCATGCCGAGACTGGCAGTGGACGGGCCCTTCGGAGGCTCTTGGCAGATGTATT
 TCACTACCCTGTGAGCGTGTGCATTGCAACAGGAATTGGAGTACCCCTTCGCCTCTCTTCTGAAGTCT
 GTGTGGTATAAGTGTGTGAATCACAGAGTCTGCCTGGACTGAGCAAGGTGACTTCTACTGGATCTGCC
 GGGATGCTGCAGCCTTTGAGTGGTTTGGCGATCTGTTACTTTCACTGGAAACACAGATGAGTGAACAAGG
 GAAGGCTCATTTGCTGAGTTACCACATATATCTCACTGGCTGGGATGAATACCAGGCAATTCACATAGCT
 TTACACTGGGATGAAAGTCTGGATGTGATTACAGGCTTAAAGCAGAAGACCTTCTATGGCGACCCAACT
 GGAATGAGGAATCAAGCAGATTGCCTACAATCACCTAGCAGCAGCATTGGCGTGTCTCTGTGGACC
 CAAAGCCATGTCAAAGACTCTTCAAAGATGTGCCGTTTGTACTCATCTCAGATCTAGGGCGTTTCAT
 TTCTATTACAACAAGGAAAACCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001004216

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_001004216.1](#), [NP_001004216.1](#)

RefSeq Size: 1707 bp

RefSeq ORF: 1707 bp

Locus ID: 292279

UniProt ID: [Q672K1](#)

Cytogenetics: 1q11

Gene Summary: NADPH oxidase which constitutively produces superoxide upon formation of a complex with CYBA/p22phox. Plays a role in the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity (By similarity).
[UniProtKB/Swiss-Prot Function]