

## 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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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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  
 CCTGTCACTCGGAACTTCGTTTCACTGGTGGAGGAAACGAGCGTGTGCTGTAGAGGACCGTGGAGACGGC  
 AACTAGACAAAAACCTCAAGTCCACAAGCTCGTTGCCTACGGGATAGCTGTTAATTCAGTTATCCACAT  
 TGTGGCACACTTGTCAACCTGGAGCGTTATCACCTGGTTCAGGCAAGGATGCTGAAGGGCTGCTGGCT  
 GCGTTTTCCAACCTGGCAATGCCCAAATGAAAGCTACCTCAATCCGGTCCGCACCTTGTATACGGGTA  
 CAACCACTCAGCTAATAATGACAGTCTCCGGAATTACTGGCTGGTGTCTCTCTGGCTTTGATATTGAT  
 CATGACCTCTTCAACTGAGTTTATCAGGAGTCTCTTATGAGCTATTCTGGTACACACACCATATCTTC  
 ATCTTCTCTTATCAGTCTGGCCATCCACGGAGGAGTCCGATCATTCCAGGTCAAACTCCAGAGAGTC  
 TCCGGCTGCACAATGTCACCTTCTGCAGAGACCACTTCGACGAATGGCAGGAAGCTGCCTCGTGCCTGT  
 ACCTCAATTTTCTGGCAAGGAGCCGTCCGCCTGGAAATGGACTTTGGCCCTGTGGTCTTGTATGCGTGT  
 GAAATAATAATTAGGTTCTGGAGATCTACCAAGAAGTTGTCATTACCAAGTGGTGGTACCCCATCTG  
 CAGTCTTGGAACTTCACATGAAGAAGCGTGACTTCAAGATGGCGCCCGGACAGTACATCTTTATCCAGTG  
 CCCATCCATCTCCCGCTGGAGTGGCACCCCTTCACTCTCACGTCTGCTCCCAAGGAGGACTTCTCAGT  
 GTACACATCCGAGCCTCAGGAGACTGGACAGAGGCGTTACTGAAGGCATTTGGAGCAGAGGGACAGGCTC  
 CCAGTGAGCTCTGTAGCATGCCGAGACTGGCAGTGGACGGGCCCTTCGGAGGCTCTTGGCAGATGTATT  
 TCACTACCCTGTGAGCGTGTGCATTGCAACAGGAATTGGAGTACCCCTTCGCCTCTCTTCTGAAGTCT  
 GTGTGGTATAAGTGTGTGAATCACAGAGTCTGCCTGGACTGAGCAAGGTGACTTCTACTGGATCTGCC  
 GGGATGCTGCAGCCTTTGAGTGGTTTGGCGATCTGTTACTTTCACTGGAAACACAGATGAGTGAACAAGG  
 GAAGGCTCATTTGCTGAGTTACCACATATATCTCACTGGCTGGGATGAATACCAGGCAATTCACATAGCT  
 TTACACTGGGATGAAAGTCTGGATGTGATTACAGGCTTAAAGCAGAAGACCTTCTATGGGCGACCCAAT  
 GGAATGAGGAATCAAGCAGATTGCCTACAATCACCTAGCAGCAGCATTGGCGTGTCTCTGTGGACC  
 CAAAGCCATGTCAAAGACTCTTCAAAGATGTGCCGTTTGTACTCATCTCAGATCTAGGGCGTTTCAT  
 TTCTATTACAACAAGGAAAACCTTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 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]