

## Product datasheet for **SC336766**

### **NADPH oxidase 4 (NOX4) (NM\_001291929) Human Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | NADPH oxidase 4 (NOX4) (NM_001291929) Human Untagged Clone |
| Tag:                      | Tag Free   |
| Symbol:                   | NOX4   |
| Synonyms:                 | KOX; KOX-1; RENOX  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)                                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                       |

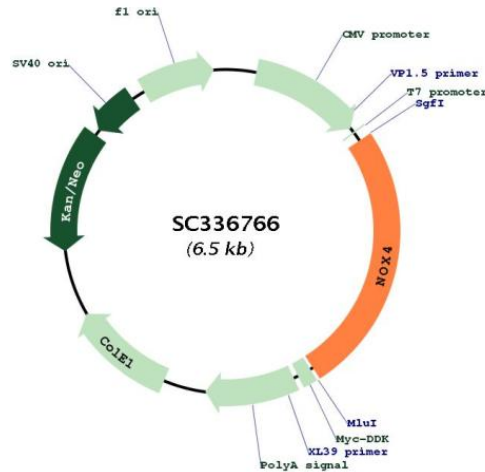


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**Fully Sequenced ORF:** >SC336766 representing NM\_001291929.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTTTCTGCAGTTACTGATTTAGGTTCCATTGAAAGCACTGTGTGCGAAGAATTTACCTGTGGTTTCT
ATTTCATCAGCTAGGATTGTGTCTAAGCAGAGCCTCAGCATCTGTTCTTAACCTCAACTGCAGCCTTATC
CTTTTACCCATGTGCCGAACACTCTTGGCTTACCTCCGAGGATCACAGAAGGTTCCAAGCAGGAGAACC
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TATGATATCTTCTGGTACTCATAACCTCTTCTTGTCTTCTACATGCTGCTGACGTTGCATGTTTCA
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AGCTCTCAGAATATTTCTTACCAGAGTATTTCTCAGAACATTTTCATGAACCTTTCCCTGAAGGATTT
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AATTTTCCACAGACTTGGCTTTGGATTTCTGGACCTTTGTGCCTGTACTGTGCCGAAGACTTTACAGG
TATATCCGGAGCAATAAGCCAGTACCATCATTTCCGGTCATAAGTCATCCCTCAGATGTCATGGAATC
CGAATGGTCAAAGAAAATTTAAAGCAAGACCTGGTCAGTATATTACTCTACATTGTCCCAGTGTATCT
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CTTAAATAGTAGGAGACTGGACAGAACGATTTGAGATTTACTACTGCCTCCATCTAGTCAAGACTCC
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TTTGAGGAATCACTGAAGTATGAGGTCAGCCTCTGCGTGGCTGGAGGCATTGGAGTAACTCCATTTGCA
TCAATACTCAACACCCTGTTGGATGACTGGAAACCATAACAAGCTTAGAAGACTATACTTTATTTGGGTA
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GAGAACAGACCTGACTATGTCAACATCCAGCTGTACCTCAGTCAAACAGATGGGATACAGAAGATAATT
GGAGAAAATATCATGCACTGAATTCAGACTGTTTATAGGACGCTCCTCGGTGGAAGACTTTTGTGTTGAT
GAAATAGCAAAATATAACAGAGGAAAAACAGTTGGTGTCTTCTGTTGTGGACCAATTCATATCCAAG
ACTCTTCATAAACTGAGTAACCAGAACAACCTCATATGGGACAAGATTTGAATAACAATAAAGAGTCTTTC
AGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

**Restriction Sites:** Sgfl-Mlul

**Plasmid Map:**


**ACCN:** NM\_001291929

**Insert Size:** 1662 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\\_001291929.1](#)

**RefSeq Size:** 4122 bp

**RefSeq ORF:** 1662 bp

**Locus ID:** 50507

**Cytogenetics:** 11q14.3

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 63.5 kDa

**Gene Summary:**

This gene encodes a member of the NOX-family of enzymes that functions as the catalytic subunit the NADPH oxidase complex. The encoded protein is localized to non-phagocytic cells where it acts as an oxygen sensor and catalyzes the reduction of molecular oxygen to various reactive oxygen species (ROS). The ROS generated by this protein have been implicated in numerous biological functions including signal transduction, cell differentiation and tumor cell growth. A pseudogene has been identified on the other arm of chromosome 11. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2009]

Transcript Variant: This variant (6) differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (f) has a shorter and distinct N-terminus, compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.