

Product datasheet for **SC325193**

NADPH oxidase 4 (NOX4) (NM_001143837) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NADPH oxidase 4 (NOX4) (NM_001143837) Human Untagged Clone
Tag:	Tag Free
Symbol:	NOX4
Synonyms:	KOX; KOX-1; RENOX
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001143837, the custom clone sequence may differ by one or more nucleotides

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ATGAATGCCTGCTTTTCTGGAAAACCTTCTTGCTGTATAACCAAGGGCCAGAGTATCAC
TACCTCCACCAGATGTTGGGGCTAGGATTGTGTCTAAGCAGAGCCTCAGCATCTGTTCTT
AACCTCAACTGCAGCCTTATCCTTTTACCCATGTGCCGAACACTTTGGCTTACCTCCGA
GGATCACAGAAGGTTCCAAGCAGGAGAACCAGGAGATTGTTGGATAAAAGCAGAACATTC
CATATTACCTGTGGTGTACTATCTGTATTTTCTCAGGCGTGCATGTGGCTGCCATCTG
GTGAATGCCCTCAACTTCTCAGTGAATTACAGTGAAGACTTTGTTGAACTGAATGCAGCA
AGATACCGAGATGAGGATCCTAGAAAACCTCTCTTCACAACTGTTCTGGCTGACAGGG
GTCTGCATGGTGGTGGTCTATTCTCATGATCACAGCCTCTACATATGCAATAAGAGTT
TCTAACTATGATATCTTCTGGTATACTCATAACCTCTTCTTTGTCTTCTACATGCTGCTG
ACGTTGCATGTTTCAGGAGGGCTGCTGAAGTATCAAATAATTTAGATACCCACCCTCCC
GGCTGCATCAGTCTTAACCGAACAGCTCTCAGAAATTTCTTACCAGAGTATTTCTCA
GAACATTTTCATGAACCTTTCCCTGAAGGATTTTCAAACCGGCAGAGTTTACCCAGCAC
AAATTTGTGAAGATTTGTATGGAAGAGCCAGATTCCAAGCTAATTTCCACAGACTTGG
CTTTGGATTTCTGGACCTTTGTGCCTGTACTGTGCCGAAAGACTTTACAGGTATATCCGG
AGCAATAAGCCAGTCACCATCATTTCGGTCATAAGTCATCCCTCAGATGTCATGGAAATC
CGAATGGTCAAAGAAAATTTTAAAGCAAGACCTGGTCAGTATATTACTCTACATTGTCCC
AGTGTATCTGCATTAGAAAATCATCCATTTACCCTCACAATGTGTCCAACCTGAAACCAA
GCAACATTTGGGTTTCATCTTAAATAGTAGGAGACTGGACAGAACGATTTGAGATTTA
CTACTGCCTCCATCTAGTCAAGACTCCGAAATTTGCCCCTTCAATCAATCTAGAAATTAT
CCCAAGCTGTATATTGATGGTCTTTTGGAAAGTCCATTTGAGGAATCACTGAACTATGAG
GTCAGCCTCTGCGTGGCTGGAGGATTGGAGTAACTCCATTTGCATCAATACTCAACACC
CTGTTGGATGACTGGAACCATACAAGCTTAGAAGACTATACTTTATTTGGGTATGCAGA
GATATCCAGTCTTCCGTTGGTTTGCAGATTTACTCTGTATGTTGCATAACAAGTTTTGG
CAAGAGAACAGACCTGACTATGTCAACATCCAGCTGTACCTCAGTCAAACAGATGGGATA
CAGAAGATAAATTGGAGAAAATATCATGCACTGAATTCAGACTGTTTATAGGACGTCTT
CGGTGGAACTTTTGTGTTGATGAAATAGCAAAATATAACAGAGGAAAACAGTTGGTGT
TTCTGTTGGACCCAATTCATCAAGACTTTCATAAACTGAGTAACCAAGAACAC
TCATATGGGACAAGATTTGAATACAATAAAGAGTCTTTCAGC

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Restriction Sites:	Please inquire
ACCN:	NM_001143837
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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001143837.1</u> , <u>NP_001137309.1</u>
RefSeq Size:	4615 bp
RefSeq ORF:	1665 bp
Locus ID:	50507
UniProt ID:	<u>Q9NPH5</u>
Cytogenetics:	11q14.3
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and coding region compared to variant 1. These differences cause translation initiation at a downstream AUG and result in a protein (isoform c) with a shorter 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.</p>