

Product datasheet for **SC123954**

NOX5 (NM_024505) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOX5 (NM_024505) Human Untagged Clone
Tag:	Tag Free
Symbol:	NOX5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_024505, the custom clone sequence may differ by one or more nucleotides

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ATGAACACATCTGGAGACCCAGCCAGACGGGCCCTGAAGGCTGTAGAGGCACCATGAGTGCCGAGGAGG
ATGCCAGGTGGCTCCGGTGGGTGACTCAGCAGTTTAAAGACCATTGCAGGAGAAGATGGGGAGATCAGCCT
GCAAGAATTCAAAGCAGCTCTGCATGTGAAAGAGTCCTTCTTTGCAGAGCGATTCTTTGCCCTATTTGAC
TCCGATAGAAGTGGCACCATCACCTCCAGGAGCTGCAGGAGGCACTGACCCTGCTCATCCATGGCAGCC
CCATGGACAAACTCAAATTCCTCTTCCAGGTGTATGACATCGATGTGTGTGCACGGCAGGGGGCGTCTGC
AGGTACAGAGTGGGGTGTGGGGCAGGCCCGCACTGGGCTTCATCCCACTCGGGACAGGCAGTGCTCC
ATTGACCCGGATGAGCTGCGCACTGTGCTGCAGTCGTGTCTGCGCGAGAGCGCCATCTCGCTGCCTGACG
AGAAGCTGGACCAGCTGACGCTGGCGCTTTCGAATCGGCCGACGCGGACGGCAACGGGGCCATCACCTT
CGAGGAGCTCCGGGACGAGCTGCAGCGCTTCCCGGAGTCATGGAGAACCAGCCATCAGCGCTGCCAC
TGGCTGACGGCCCCGCCGCCACGCCCGCGCCGCGCCAGCTGACCCGCGCCTACTGGCACA
ACCACCGCAGCCAGCTGTTCTGCCTGGCCACCTATGCAGGCCCTCCACGTGCTGCTTTCGGGCTGGCGGC
CAGCGCGCACCGGGACCTCGGGCCAGCGTCATGGTGGCCAAGGGCTGCGGCCAGTGCTCAACTTCGAC
TGACAGTTCATCGCGGTGCTGATGCTCAGACGCTGCCTCACCTGGCTGCGGGCCACGTGGCTGGCTCAAG
TCTTACCCTGGACCAGAACATCCAGTTCCACCAGCTTATGGGCTACGTGGTAGTGGGGCTGTCCCTCGT
GCACACCGTGGCTCACACTGTGAACTTTGACTCCAGGCTCAGGCGGAGGCCAGCCCTTTCCAGTTCTGG
GAGCTGCTGCTCACACGAGGCCGGCATTGGCTGGGTACACGGTTCGGCCTCCCCGACAGGTGTCGCTC
TGCTGCTGCTGCTCCTCCTCATGTTTCTGCTCCAGTTCCTGCATCCGAGGAGTGGCCACTTTGAGGT
GTTCTATTGGACTCACCTGTCTACCTCCTCGTGTGGCTTCTGCTCATCTTTCATGGGCCAACTTCTGG
AAGTGGCTGCTGGTGCCTGGAATCTTGTTCCTGGAGAAGGCCATCGGACTGGCAGTGTCCCGCATGG
CAGCCGTGTGCATCATGGAAGTCAACCTCCTCCCTCCAAGGTCATCTCCTCATCAAGCGGCCCCC
TTTTTTCACTATAGACCTGGTACTACTTGTATCTGAACATCCCCACCATTGCTCGCTATGAGTGGCAC
CCCTTACCATCAGCAGTCTCCTGAGCAGAAAGACACTATCTGGCTGCACATTCGGTCCCAAGGCCAGT
GGACAAACAGGCTGTATGAGTCTTCAAGGCATCAGACCCACTGGGCCGTGGTTCTAAGAGGCTGTGAG
GAGTGTGACAATGAGAAAGAGTCAAAGGTCGTCCAAGGGCTCTGAGATACTTTTGGAGAAACACAAATTC
TGTAACATCAAGTGTACATCGATGGGCCTTATGGGACCCCCACCCGAGGATCTTTGCCTCTGAGCATG
CCGTGCTCATCGGGCAGGCATCGGCATCACCCCTTTGCTTCCATTCTGCAGAGTATCATGTACAGGCA
CCAGAAAAGAAAGCATACTTGGCCCAGTGCCAGCACTCCTGGATCGAAGGTGTCCAAGACAACATGAAG
CTCCATAAGGTGGACTTTATCTGGATCAACAGAGACCAGCGGTCTTTCGAGTGGTTTGTGAGCCTGCTGA
CTAAACTGGAGATGGACCAGGCCGAGGAGGCTCAATACGGCCGCTTCTGGAGCTGCATATGTACATGAC
ATCTGCACTGGGCAAGAATGACATGAAGGCCATTGGCCTGCAGATGGCCCTTGACCTCCTGGCCAACAAG
GAGAAGAAAGACTCCATCACGGGGCTGCAGACGCGCACCCAGCCTGGGCGGCCTGACTGGAGCAAGGTGT
TCCAGAAAAGTGGCTGCTGAGAAGAAGGGCAAGGTGCAGGTCTTCTTCTGTGGCTCCCCAGCTCTGGCCAA
GGTGCTGAAGGGCCATTGTGAGAAGTTCGGCTTCAGATTTTTCCAAGAGAATTTCTAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024505 unedited
 NATTCAGCCCCTATCGGGCAGGCATCGGCATCACCCCCTTTGCTTCCATTCTGCAGAGT
 ATCATGTACAGGCACCAGAAAAGAAAGCATACTTGCCCCAGCTGCCAGCACTCCTGGATC
 GAAGGTGTCCAAGACAACATGAAGCTCCATAAGGTGGACTTTATCTGGATCAACAGAGAC
 CAGCGGTCTTTCGAGTGGTTTGTGAGCCTGCTGACTAACTGGAGATGGACCAGGCCGAG
 GAGGCTCAATACGGCCGCTTCTCGAGTGCATATGTACATGACATCTGCACTGGGCAAG
 AATGACATGAAGGCCATTGGCCTGCAGATGGCCCTTGACCTCCTGGCCAACAAGGAGAAG
 AAAGACTCCATCACGGGGCTGCAGACGCGCACCCAGCCTGGGCGGCTGACTGGAGCAAG
 GTGTTCCAGAAAGTGGCTGCTGAGAAGAAGGGCAAGGTGCAGGTCTTCTCTGTGGCTCC
 CCAGCTCTGGCCAAGGTGCTGAAGGGCCATTGTGAGAAGTTCGGCTTCCAGATTTTTCCAA
 GAGAATTTCTAGCCTCACCTCTCCAAGCTCTGCCCAAGTCCACACCATGGGTCTGCTTC
 ATCGCATTAGTATAAATGCCCCACAGGGACCAGCCTCAGATGACCCACCCAATAAGAAC
 AAGCCTATGGACCCCCTATCCTGCTCAACGAGAGGACAAGAGAACCCAAGGGCAATGA
 ACTTCCCTAGACCCNGGAAGGGACANTGCTTGTAAATCTGCGGAGATTCTGGGTCTT
 GAAATTAAGAACCAAGTGGTCCGGGACTTGGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024505 unedited
 NATACCCCGTTGCCGTCCGCGTCGGCCGATTCTGAAGAGCGCCAGCGTCAGCTGGTCCAGC
 TTCTCGTCAGGCAGCGAGATGGCGCTCTCGCGCAGACACGACTGCAGCACAGTGCAGCAGC
 TCATCCGGGTCAATGGAGCCACTGCCTGTCCCGAGTGGGGATGAAGCCCAGTGCGGGCT
 GCCCAGCACCCACTCTGTACCTGCAGACGCCCTGCCGTGCACACACATCGATGTCA
 TACACCTGGAAGAGGAATTTGAGTTTGTCCATGGGGCTGCCATGGATGAGCAGGGTCACT
 GCCTCCTGCAGCTCCTGGAGGGTATGGTGCCACTTCTATCGGAGTCAAATAGGGCAAAG
 AATCGCTCTGCAAGAAGGACTTTTCACATGCAGAGCTGCTTTGAATTCTTGCAGGCTG
 ATCTCCCATCTTCTCCTGCAATGGTCTTAAACTGCTGAGTACCCACCGGAGCCACCTG
 GCATCCTCCTCGGCACTCATGGTGCCTCTACAGCCTTCAGGGCCCGTCTGGGCTGGGTCT
 CCAGCTCGTGCCGAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATCTGACGGT
 TCACTAAACGAGCTCTGCTTATATAGACCTCCACCGTACACGCTACCGCCATTTGCG
 TCAACGGGGCGGGTTATTACGACATTTTGAAAGTTCGGTTGATTTTGTGCCAAACAA
 AACTCCCATGGCCTCATGGGGTTGAAACCTGGAATATCCTGTGTTAAAATTTCCGCC
 CATTGGTCTGCCAAACCCCTTCCCTGGTATAGCGTTATAATT

Restriction Sites:

NotI-NotI

ACCN:

NM_024505

Insert Size:

3200 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_024505.1</u> , <u>NP_078781.1</u>
RefSeq Size:	2809 bp
RefSeq ORF:	1698 bp
Locus ID:	79400
UniProt ID:	<u>Q96PH1</u>
Cytogenetics:	15q23
Protein Families:	Ion Channels: Other, Transmembrane
Gene Summary:	<p>This gene is predominantly expressed in the testis and lymphocyte-rich areas of spleen and lymph nodes. It encodes a calcium-dependen NADPH oxidase that generates superoxide, and functions as a calcium-dependent proton channel that may regulate redox-dependent processes in lymphocytes and spermatozoa. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (1, alternately referred to as NOX5 gamma and v3) encodes the longest isoform (1).</p>