

Product datasheet for **SC329101**

NOX5 (NM_001184780) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOX5 (NM_001184780) Human Untagged Clone
Tag:	Tag Free
Symbol:	NOX5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001184780, the custom clone sequence may differ by one or more nucleotides

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ATGGCCTTCGTCTGTGCCGGCTTATCCGACACCATGAGTGCCGAGGAGGATGCCAGGTGG
CTCCGGTGGGTGACTCAGCAGTTTAAGACCATTGCAGGAGAAGATGGGGAGATCAGCCTG
CAAGAATTCAAAGCAGCTCTGCATGTGAAAGAGTCCTTCTTGCAGAGCGATTCTTTGCC
CTATTTGACTCCGATAGAAGTGGCACCATCACCTCCAGGAGCTGCAGGAGGCACTGACC
CTGCTCATCCATGGCAGCCCCATGGACAAACTCAAATTCCTCTTCCAGGTGTATGACATC
GATGGCAGTGGCTCCATTGACCCGGATGAGCTGCGCACTGTGCTGCAAGTGTGTCTGCGC
GAGAGCGCCATCTCGCTGCCTGACGAGAAGCTGGACCAGCTGACGCTGGCGCTCTTCGAA
TCGGCCGACGCGGACGGCAACGGGGCCATCACCTTCGAGGAGCTCCGGGACGAGCTGCAG
CGCTTCCCGGAGTCATGGAGAACCTGACCATCAGCGCTGCCACTGGCTGACGGCCCCC
GCCCCCGCCACGCCCGCGCCGGCCGCGCCAGCTGACCCGCGCCTACTGGCACAACCAC
CGCAGCCAGCTGTTCTGCCTGGCCACCTATGCAGGCCTCCACGTGCTGCTCTTCGGGCTG
GCGGCCAGCGCACCGGACCTCGGGCCAGCGTCATGGTGGCAAGGGCTGCGGCCAG
TGCTCAACTTCGACTGCAGCTTCATCGCGGTGCTGATGCTCAGACGCTGCCTCACCTGG
CTGCGGGCCACGTGGCTGGCTCAAGTCCTACCCTGACCCAGAAACATCCAGTTCCACCAG
CTTATGGGCTACGTGGTAGTGGGGCTGTCCCTCGTGACACCCGTGGCTCACACTGTGAAC
TTTGTACTCCAGGCTCAGGCGGAGGCCAGCCCTTCCAGTTCTGGGAGCTGCTGCTCACC
ACGAGGCTGGCATTGGCTGGGTACACGGTTTCGGCCTCCCGACAGGTGTGCTGCTGCTG
CTGCTGCTCCTCCTCATGTTTCTGCTCCAGTTCCCTGCATCCGAGGAGTGGCCACTTT
GAGGTGTTCTATTGGACTCACCTGTCTACCTCCTCGTGGCTTCTGCTCATCTTTTCT
GGCCCCAACTTCTGGAAGTGGCTGCTGGTGCCTGGAATCTTGTCTTCTGGAGAAGGCC
ATCGGACTGGCAGTGTCCCGCATGGCAGCCGTGTCATCATGGAAGTCAACCTCCTCCCC
TCCAAGGTCACTCATCTCCTCATCAAGCGGCCCTTTTTTTTCACTATAGACCTGGTGAC
TACTTGTATCTGAACATCCCCACCATTGCTCGCTATGAGTGGCACCCCTTACCATCAGC
AGTGCTCCTGAGCAGAAAGACACTATCTGGCTGCACATTCGGTCCCAAGGCCAGTGGACA
AACAGGCTGTATGAGTCTTCAAGGCATCAGACCCACTGGGCCGTGGTTCTAAGAGGCTG
TCGAGGAGTGTGACAATGAGAAAGAGTCAAAGGTCGTCGAAGGGCTCTGAGATACTTTG
GAGAAACACAAATCTGTAACATCAAGTGTACATCGATGGGCCTTATGGGACCCCCACC
CGCAGGATCTTTGCCTCTGAGCATGCCGTGCTCATCGGGCAGGCATCGGCATCACCCCC
TTTGCTTCCATTCTGCAGAGTATCATGTACAGGCACCAGAAAAGAAAGCATACTTGCCCC
AGCTGCCAGCACTCCTGGATCGAAGGTGTCCAAGACAACATGAAGCTCCATAAGGTGGAC
TTTATCTGGATCAACAGAGACCAGCGGTCTTTCGAGTGGTTTGTGAGCCTGCTGACTAAA
CTGGAGATGGACCAGGCCGAGGAGGCTCAATACGGCCGCTTCTGGAGCTGCATATGTAC
ATGACATCTGCACTGGCAAGAAATGACATGAAGGCCATTGGCCTGCAGATGGCCCTTGAC
CTCCTGGCCAACAAGGAGAAGAAAGACTCCATCACGGGGCTGCAGACGCGCACCCAGCCT
GGGCGGCTGACTGGAGCAAGGTGTTCCAGAAAGTGGCTGCTGAGAAGAAGGGCAAGGTG
CAGGTCTTCTTGTGGCTCCCCAGCTTGCCAAAGGTGCTGAAGGGCCATTGTGAGAAG
TTCGGCTTCAGATTTTTCCAAGAGAATTTCTAG
    
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Restriction Sites: Please inquire
ACCN: NM_001184780

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](#)

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:

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_001184780.1](#), [NP_001171709.1](#)

RefSeq Size: 2852 bp

RefSeq ORF: 2193 bp

Locus ID: 79400

UniProt ID: [Q96PH1](#)

Cytogenetics: 15q23

Protein Families: Ion Channels: Other, Transmembrane

Gene Summary:

This gene is predominantly expressed in the testis and lymphocyte-rich areas of spleen and lymph nodes. It encodes a calcium-dependent 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]

Transcript Variant: This variant (3, alternately referred to as v6) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. This variant also uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The encoded isoform (3) has a distinct N-terminus and is shorter than isoform 1.