

Product datasheet for **SC329109**

NOX5 (NM_001184779) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOX5 (NM_001184779) Human Untagged Clone
Tag:	Tag Free
Symbol:	NOX5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001184779, the custom clone sequence may differ by one or more nucleotides

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ATGAACACATCTGGAGACCCAGCCAGACGGGCCCTGAAGGCTGTAGAGGCACCATGAGTGCCGAGGAGG
ATGCCAGGTGGCTCCGGTGGGTGACTCAGCAGTTTAAGACCATTGCAGGAGAAGATGGGGAGATCAGCCT
GCAAGAATTCAAAGCAGCTCTGCATGTGAAAGAGTCTTCTTTGCAGAGCGATTCTTTGCCCTATTTGAC
TCCGATAGAAGTGGCACCATCACCTCCAGGAGCTGCAGGAGGCACTGACCCTGCTCATCCATGGCAGCC
CCATGGACAAACTCAAATTCCTCTTCCAGGTGTATGACATCGATGGCAGTGGCTCCATTGACCCGGATGA
GCTGCGCACTGTGCTGCAGTCGTGTCTGCGCGAGAGCGCCATCTCGTGCCTGACGAGAAGCTGGACCAG
CTGACGCTGGCGCTTTCGAATCGGCCGACGCGGACGGCAACGGGGCCATCACCTTCGAGGAGCTCCGGG
ACGAGCTGCAGCGCTTCCCGGAGTCATGGAGAACCTGACCATCAGCGCTGCCACTGGCTGACGGCCCC
CGCCCCCGCCACGCCCGCGCCGGCCGCGCCAGCTGACCCGCGCCTACTGGCACAACCACCGCAGCCAG
CTGTTCTGCTGGCCACCTATGCAGGCCCTCCACGTGCTGCTTTCGGGCTGGCGGCCAGCGCGCACCGGG
ACCTCGGGCCAGCGTCATGGTGGCCAAGGGCTGCGGCCAGTGCCTCAACTTCGACTGCAGCTTCATCGC
GGTGCTGATGCTCAGACGCTGCCTCACCTGGCTGCGGGCCACGTGGCTGGCTCAAGTCTACCACCTGGAC
CAGAACATCCAGTTCACCAGCTTATGGGCTACGTGGTAGTGGGGCTGTCCCTCGTGCACACCGTGGCTC
ACACTGTGAACTTTGTACTCCAGGCTCAGGCGGAGGCCAGCCCTTTCAGTTCGTTGGGAGCTGCTGCTCAC
CACGAGGCTGGCATTGGCTGGGTACACGGTTCGGCCTCCCCGACAGGTGTGCTGCTGCTGCTGCTC
CTCCTCATGTTTCTGCTCCAGTTCCTGCATCCGAGGAGTGGCCACTTTGAGGTGTTCTATTGGACTC
ACCTGTCTACCTCCTCGTGTGGCTTCTGCTCATCTTTCATGGGCCAACTTCTGGAAGTGGCTGCTGGT
GCCTGGAATCTTGTCTTCTCGTGGAGAAGGCCATCGGACTGGCAGTGTCCCGCATGGCAGCCGTGTGCATC
ATGGAAGTCAACCTCCTCCCTCCAAGTCACTCATCTCCTCATCAAGCGGCCCTTTTTTACTATA
GACCTGGTGACTACTTGTATCTGAACATCCCCACCATTGCTCGCTATGAGTGGCACCCCTTACCACATCAG
CAGTGCTCCTGAGCAGAAAGACTATCTGGTGCACATTGCGTCCCAAGGCCAGTGGACAAACAGGCTG
TATGAGTCCTTAAGGCATCAGACCCACTGGGCCGTGGTTCTAAGAGGCTGTCGAGGAGTGTGACAAATGA
GAAAGAGTCAAAGGTCGTCCAAGGGCTCTGAGATACTTTTGGAGAAACACAAATTCTGTAACATCAAGTG
CTACATCGATGGGCTTATGGGACCCCCACCCGAGGATCTTTCCTCTGAGCATGCCGTGCTCATCGGG
GCAGGCATCGGCATCACCCCTTTGCTTCCATTCTGCAGAGTATCATGTACAGGCACCAGAAAAGAAAGC
ATACTTGCCCCAGCTGCCAGCACTCCTGGATCGAAGGTGTCCAAGACAACATGAAGCTCCATAAGGTGGA
CTTTATCTGGATCAACAGAGACCAGCGTCTTTTCGAGTGGTTTGTGAGCCTGCTGACTAACTGGAGATG
GACCAGGCCGAGGAGGCTCAATACGGCCGCTTCTGGAGCTGCATATGTACATGACATCTGCACTGGGCA
AGAATGACATGAAGGCCATTGGCCTGCAGATGGCCCTTGACCTCCTGGCCAACAAGGAGAAGAAAGACTC
CATCACGGGGCTGCAGACGCGCACCCAGCCTGGGCGGCCTGACTGGAGCAAGGTGTTCCAGAAAGTGGCT
GCTGAGAAGAAGGGCAAGGTGCAGGTCTTCTTCTGTGGCTCCCCAGCTCTGGCCAAGGTGCTGAAGGGCC
ATTGTGAGAAGTTCGGCTTCAGATTTTTTCAAGAGAATTTCTAG
    
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Restriction Sites: Please inquire
ACCN: NM_001184779

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_001184779.1](#), [NP_001171708.1](#)

RefSeq Size: 2725 bp

RefSeq ORF: 2214 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-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]
Transcript Variant: This variant (2, alternately referred to as NOX5 alpha and v1) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.