

## Product datasheet for **RC230471**

### **NOX5 (NM\_001184779) Human Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RC230471 representing NM\_001184779  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAACACATCTGGAGACCCAGCCAGACGGGCCCTGAAGGCTGTAGAGGCACCATGAGTGCCGAGGAGG  
 ATGCCAGGTGGCTCCGGTGGGTGACTCAGCAGTTTAAGACCATTGCAGGAGAAGATGGGGAGATCAGCCT  
 GCAAGAATTCAAAGCAGCTCTGCATGTAAAGAGTCCTTCTTTGCAGAGCGATTCTTTGCCCTATTTGAC  
 TCCGATAGAAGTGGCACCATCACCTCCAGGAGCTGCAGGAGGCACTGACCCTGCTCATCCATGGCAGCC  
 CCATGGACAAACTCAAATTCCTCTCCAGGTGTATGACATCGATGGCAGTGGCTCCATTGACCCGGATGA  
 GCTGCGCACTGTGCTGCAGTCGTGTCTGCGCGAGAGCGCCATCTCGTGCCTGACGAGAAGCTGGACCAG  
 CTGACGCTGGCGCTTTCGAATCGGCCGACGCGGACGGCAACGGGGCCATCACCTTCGAGGAGCTCCGGG  
 ACGAGCTGCAGCGCTTCCCGGAGTCATGGAGAACCTGACCATCAGCGCTGCCACTGGCTGACGGCCCC  
 CGCCCCCGCCACGCCCGCGCCGGCCGCGCCAGCTGACCCGCGCCTACTGGCACAACCACCGCAGCCAG  
 CTGTTCTGCCTGGCCACCTATGCAGGCCTCCACGTGCTGCTCTTCGGGCTGGCGGCCAGCGCACCCGGG  
 ACCTCGGCGCCAGCGTCATGGTGGCCAAGGGCTGCGGCCAGTGCCTCAACTTCGACTGCAGCTTCATCGC  
 GGTGCTGATGCTCAGACGCTGCCTCACCTGGCTGCGGGCCACGTGGCTGGCTCAAGTCTACCACTGGAC  
 CAGAACATCCAGTTCACCAGCTTATGGGCTACGTGGTAGTGGGGCTGTCCCTCGTGACACCCGTGGCTC  
 AACTGTGAACTTTGTACTCCAGGCTCAGGCGGAGGCCAGCCCTTTCCAGTTCGGGAGCTGCTGCTCAC  
 CACGAGGCTGGCATTGGCTGGGTACACGGTTCGGCTCCCGACAGGTGTCGCTCTGCTGCTGCTGCTC  
 CTCCTCATGTTTCTGCTCCAGTTCCTGCATCCGAGGAGTGGCACTTTGAGGTGTTCTATTGGACTC  
 ACCTGCTACCTCCTCGTGTGGCTTCTGCTCATCTTTTTCATGGGCCAACTTCTGGAAGTGGCTGCTGGT  
 GCCTGGAATCTTGTTCCTGGAGAAGGCCATCGGACTGGCAGTGTCCCGCATGGCAGCGTGTGCATC  
 ATGGAAGTCAACCTCCTCCCTCCAAGGTCACCTCATCTCCTCATCAAGCGGCCCTTTTTTTCACTATA  
 GACCTGGTACTACTTGTATCTGAACATCCCCACCATTGCTCGTATGAGTGGCACCCCTTCACCATCAG  
 CAGTGTCTCTGAGCAGAAAGACTATCTGGCTGCACATTCGGTCCCAAGGCCAGTGGACAAACAGGCTG  
 TATGAGTCTTCAAGGCATCAGACCCACTGGGCCGTGGTCTAAGAGGCTGTCGAGGAGTGTGACAAATGA  
 GAAAGAGTCAAAGGTCGTCGAAGGGCTCTGAGATACTTTTGGAGAAACACAAATCTGTAACATCAAGT  
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 GCAGGCATCGGCATCACCCCTTTGCTTCCATTCTGCAGAGTATCATGTACAGGCACCAGAAAAGAAAGC  
 ATACTTGGCCAGCTGCCAGCACTCCTGGATCGAAGGTGTCCAAGACAACATGAAGCTCCATAAGGTGGA  
 CTTTATCTGGATCAACAGAGACCAGCGTCTTTTCGAGTGGTTTGTGAGCCTGCTGACTAAACTGGAGATG  
 GACCAGGCCGAGGAGGCTCAATACGGCCGCTTCTGGAGCTGCATATGTACATGACATCTGCACTGGGCA  
 AGAATGACATGAAGGCCATTGGCTGCAGATGGCCCTTGACCTCTGGCCAACAAGGAGAAGAAAGACTC  
 CATCACGGGGCTGCAGACGCGCACCCAGCCTGGGCGCCTGACTGGAGCAAGGTGTTCCAGAAAGTGGCT  
 GCTGAGAAGAAGGGCAAGGTGCAGGTCTTCTTCTGTGGCTCCCCAGCTCTGGCCAAGGTGCTGAAGGGCC  
 ATGTGAGAAGTTCGGCTTCAGATTTTTTCCAAGAGAATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230471 representing NM\_001184779  
Red=Cloning site Green=Tags(s)

MNTSGDPAQTGPEGCRGTMSAEDARWLRWVTQQFKTIAGEDGEISLQEFKAALHVKESFFAERFFALFD  
SDRSGTITLQELQEAL TLL IHGSPMDKLKFLQVYDIDGSGSIDPDELRTVLQSCRESAISLPDEKLDQ  
LTLALFESADADNGAITFEELRDELQRFPVGMENLTISAAHWL TAPAPRPRPRRPRQL TRAYWHNHRSQ  
LFCLATYAGLHVLLFGLAASAHRLDGASVMVAKGCGCQLNFDCSF IAVLMLRRCLTWLRATWLAQVLPD  
QNIQFHQLMGYVVVGLSLVHTVAHTVNFVLQAQAEASPFQWELLLLTPRIGIGWVHGSASPTGVALLLLL  
LLMFICSSSICIRRSGHFEVFWTHLSYLLVWLLLIFHGPNFWKWLLVPGILFFLEKAIGLAVSRMAAVCI  
MEVNLLPSKVTHLLIKRPPFFHYRPGDYLYLNIPITARYEWHPF TISSAPEQKDTIWLHIRSQGQWTRNL  
YESFKASDPLGRGSKRLRSVTRMRKSQRSSKGSEILLEKHKFCNICKYIDGPYGTPTRRIFASEHAVLIG  
AGIGITPFASILQSIMYRHQKRKHTCPSCQHSWIEGVQDNMKLHKVDFIWINRDQRSFEVFSLLTKLEM  
DQAEEAQYGRFLELHMYMTSALGKNDMKAIGLQMALD LLANKEKKDSITGLQTRTPQGRPDWSKVFQKVA  
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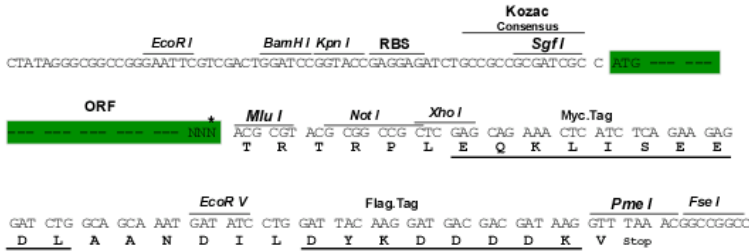
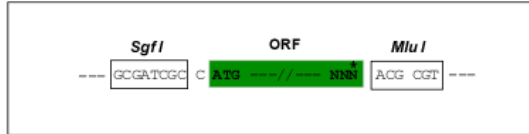
TRTRP LEQK LI SEED LA AND I LDYK D D D D K V

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8007\\_e05.zip](https://cdn.origene.com/chromatograms/mk8007_e05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



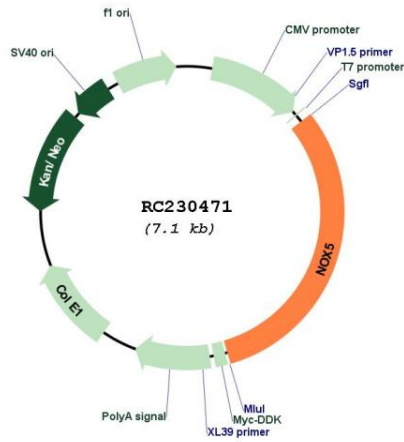
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001184779

**ORF Size:** 2211 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001184779.2</a>
<b>RefSeq ORF:</b>	2214 bp
<b>Locus ID:</b>	79400
<b>UniProt ID:</b>	<a href="#">Q96PH1</a>
<b>Cytogenetics:</b>	15q23
<b>Protein Families:</b>	Ion Channels: Other, Transmembrane
<b>MW:</b>	84.2 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for RC230471