

Product datasheet for RC204220

NOXO1 (NM_144603) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOXO1 (NM_144603) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NOXO1
Synonyms:	P41NOX; P41NOXA; P41NOXB; P41NOXC; SH3PXD5; SNX28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204220 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCAGGCCCGATACCCAGTTTCAGTGCAAGGGGCAGCCCTGGTGCAGATCAAGAGGCTCCAAACGT
TTGCCTTCTGTGCGCTGGTCAGACGGCAGCGACACCTTCGTGCGCAGGAGTTGGGACGAATTCAGGCA
GCTCAAGACCCTCAAGGAGACCTTCCCGGTGGAGGCGGGCCTGCTGCGGAGATCTGACCGCTTCTCCCA
AAGCTTCTCGATGCACCACTGTTGGGACCGTGGGGCGCAGGAGCCGCGCCTGGCGCCCTGCAGCTGT
TGGAAACCTATTCTCGGAGGCTGCTGGCGACTGCAGAGCGGTGGCAGGAGCCCGACGATCACTGGCTT
CTTCGCACCGCAACCCCTGGACCTGGAGCCCGCCTGCCACCCGCGAGCCGGGTGATCCTGCCACCCCA
GAGGAGCAGCCTCTTCTCGCGCTGCGGGCCGCTCTCCATCCACAGTCTGGAGGCTCAGAGCCTGCGCT
GCCTGCAGCCCTTCTGTACCCAGGACACGCGGATAGGCCTTTTCAGGCGCAGGCCAGGAGAGCCTGGA
CGTGCTGCTGCGGACCCCTCAGGCTGGTGGTGGTGGAGAACGAAGACCGGCAGACCGCCTGGTTTCCA
GCGCCCTACCTGGAGGAGGCGGCCCGGGCAAGGCCGGGAGGGAGGCCCGTCCCTAGGGAGCAGCGTC
CCCAGTTCTGTGCTTCCCGCCTACGAGAGCAGCCGCGCAGATGAGCTGTCCGTGCCCGGGGGCGCG
CGTGCCGTGTTGAAACGTGAGCCGCGCTGGTGGCTATGCAGGTACGGCGACCGGGCGGCTACTC
CCCGCGGTGCTGCTGCGGCCGAAGGGCTGGCGCTCTCCTGAGCGGGACGGGTTCCGTGGAGGAGAGC
ACCGGGGGTGGAGCCCGGGCTTCCCTGAACCTCCAGGCCACCGCCCTCCCCACCGTGGCCAC
CCGACCTTCGCCGGCGCCATCCAGAGCCGCTGCTGCACCGTACACGCAGGGCCCTGGAGCGGGCCCA
CGGCGCCAGGGCCGCTCGAGGTTGCTGGACTCTGTGCCGACCCACGACGGAGCAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204220 protein sequence
Red=Cloning site Green=Tags(s)

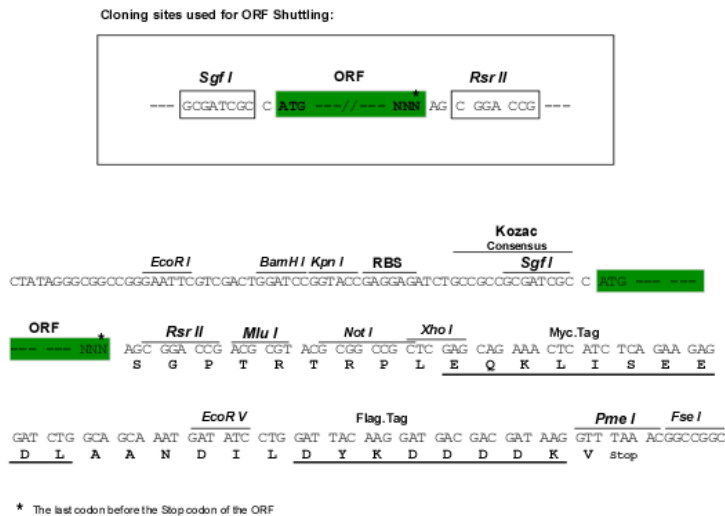
MAGPRYPVSVQGAALVQIKRLQTFASFVRWSDGSDTFVRRSWDEFRLKTLKETFPVEAGLLRRSDRVLP
 KLLDAPLLGRVGRTSRGLARLQLLETYSRLLATAERVARSPITGFFAPQPLDLEPALPPGSRVILPTP
 EEQPLSRAAGRLSIHSLAQSLRCLQPFCTQDTRDRPFAQAQESLDVLLRHPSGWWLVENEDRQTAWFP
 APYLLEEAAPGQGREGGPSLGSSGPQFCASRAYESSRADELSPAGARVRVLETSDRGWWLCRYGDRAGLL
 PAVLLRPEGLGALLSGTGFRGGDDPAGEARGFPEPSQATAPPPTVPTRPSPGAIQSRCTVTRRALERRP
 RRQGRPRGCVDSVPHPTTEQ

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6190_a10.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_144603

ORF Size: 1110 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_144603.4](#)

RefSeq Size: 1636 bp

RefSeq ORF: 1113 bp

Locus ID: 124056

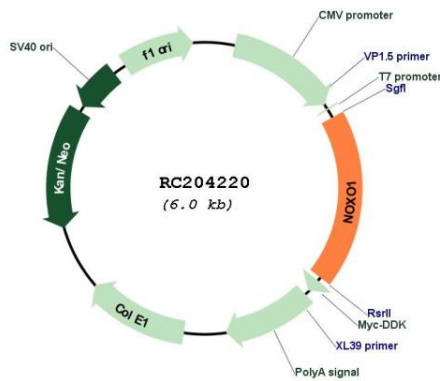
UniProt ID: [Q8NFA2](#)

Cytogenetics: 16p13.3

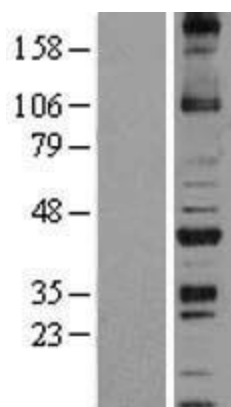
MW: 40.7 kDa

Gene Summary: This gene encodes an NADPH oxidase (NOX) organizer, which positively regulates NOX1 and NOX3. The protein contains a PX domain and two SH3 domains. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RC204220



Western blot validation of overexpression lysate (Cat# [LY403398]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204220 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).