

## Product datasheet for **RG204220**

### **NOXO1 (NM\_144603) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NOXO1 (NM_144603) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NOXO1
Synonyms:	P41NOX; P41NOXA; P41NOXB; P41NOXC; SH3PXD5; SNX28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204220 representing NM_144603 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGGCCCGATACCCAGTTTCAGTGCAAGGGGCAGCCCTGGTGCAGATCAAGAGGCTCCAAACGT  
TTGCCCTTCTGTGCGCTGGTCAGACGGCAGCGACACCTTCGTGCGCAGGAGTTGGGACGAATTCAGGCA  
GCTCAAGACCCTCAAGGAGACCTTCCCGTGGAGGCGGGCCTGCTGCGGAGATCTGACCGCTTCTCCCA  
AAGCTTCTCGATGCACCACTGTTGGGACGCGTGGGGCGCAGGAGCCGCGCCTGGCGCCCTGCAGCTGT  
TGGAAACCTATTCTCGGAGGCTGCTGGCGACTGCAGAGCGGTGGCAGGAGCCCGACGATCACTGGCTT  
CTTCGCACCGCAACCCCTGGACCTGGAGCCCGCCTGCCACCCGCGAGCCGGGTGATCCTGCCACCCCA  
GAGGAGCAGCCTCTTCTCGCGCTGCGGGCCGCTCTCCATCCACAGTCTGGAGGCTCAGAGCCTGCGCT  
GCCTGCAGCCCTTCTGTACCCAGGACACGCGGATAGGCCTTTTCAGGCGCAGGCCAGGAGAGCCTGGA  
CGTGCTGCTGCGGACCCCTCAGGCTGGTGGTGGTGGAGAACGAAGACCGGCAGACCGCCTGGTTTCCA  
GCGCCCTACCTGGAGGAGCGGCCCGGGCAAGGCCGGGAGGGAGGCCCTCCCTAGGGAGCAGCGGTC  
CCCAGTTCTGTGCTTCCCGCCTACGAGAGCAGCCGCGCAGATGAGCTGTCCGTGCCCGGGGGCGCG  
CGTGCCGTGTTGAAACGTGAGCCGCGGCTGGTGGCTATGCAGGTACGGCGACCGGGCGGGCTACTC  
CCCGCGGTGCTGCTGCGGCCGAAGGGCTGGCGCTCTCCTGAGCGGGACGGGTTCCGTGGAGGAGACG  
ACCGGGCGGTGAGGCCCGGGCTTCCCTGAACCTCCAGGCCACCGCCCTCCCCACCGTGCCAC  
CCGACCTTCGCCGGCGCCATCCAGAGCGCTGCTGCACCGTACACGCAGGGCCCTGGAGCGGGCCCA  
CGGCGCCAGGGCCGCTCGAGGTTGCGTGGACTGTGCCGACCCACGACGGAGCAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204220 representing NM\_144603  
 Red=Cloning site Green=Tags(s)

MAGPRYPVSVQGAALVQIKRLQTFAFSVRWSGSDTFVRRSWDEFRLKTLKETFPVEAGLLRRSDRVLP  
 KLLDAPLLGRVGRTSRGLARLQLLETYSRLLATAERVARSPITIGFFAPQPLDLEPALPPGSRVILPTP  
 EEQPLSRAAGRLSIHSLAQSLRCLQPFCTQDTRDPFQAQAQESLDVLLRHPSGWWLVENEDRQTAWFP  
 APYLEEAAPGQGREGGPSLGSSGPQFCASRAYESSRADEL SVPAGARVRVLETSDRGWWLCRYGDRAGLL  
 PAVLLRPEGLGALLSGTGFRRGGDDPAGEARGFPEPSQATAPPTVPTRPSGAIQSRCCTVTRRALERRP  
 RRQGRPRGCVDSVPHPTTEQ

SGPTRRRLE - GFP Tag - V

**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:** 1587 bp

**RefSeq ORF:** 1113 bp

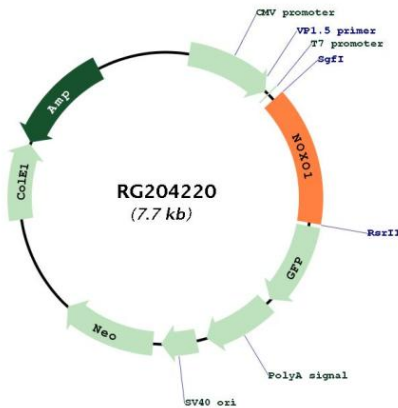
**Locus ID:** 124056

**UniProt ID:** [Q8NFA2](#)

**Cytogenetics:** 16p13.3

**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 RG204220