

Product datasheet for **RG214973**

NOXO1 (NM_172167) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NOXO1 (NM_172167) 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:	>RG214973 representing NM_172167 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGCCCCGATACCCAGTTTCAGTGCAAGGGGCAGCCCTGGTGCAGATCAAGAGGCTCCAAACGT
TTGCCTTCTCTGTGCGCTGGTCAGACGGCAGCGACACCTTCGTGCGCAGGAGTTGGGACGAATTCAGGCA
GCTCAAGAAGACCCTCAAGGAGACCTTCCCGTGGAGGCGGCCCTGCTGCGGAGATCTGACCGGTTCTC
CCAAAGCTTCTCGATGCACCACTGTTGGACGCGTGGGGCGCACGAGCCGCGCCCTGGCGCGCTGCAGC
TGTTGAAACCTATTCTCGGAGGCTGCTGGCGACTGCAGAGCGCGTGGCACGGAGCCCGACGATCACTGG
CTTCTTCGCACCCGAACCCCTGGACCTGGAGCCCGCGCTGCCACCCGGCAGCCGGGTGATCCTGCCACC
CCAGAGGAGCAGCCTCTTCTCGCGCTGCGGGCCGCTCTCCATCCACAGTCTGGAGGCTCAGAGCCTGC
GCTGCCTGCAGCCCTTGTACCCAGGACACGCGGGATAGGCCTTTTCAGGCGCAGGCCAGGAGAGCCT
GGACGTGCTGCTGCGGCACCCCTCAGGCTGGTGGCTGGTGGAGAACGAAGACCGGCAGACCCGCTGGTTT
CCAGCGCCCTACCTGGAGGAGCGGCCCGGGCCAAGGCCGGGAGGGAGGCCCGTCCCTAGGGAGCAGCG
GTCCCCAGTCTGTGCTTCCCGCCTACGAGAGCAGCCGCGCAGATGAGCTGTCCGTGCCCGGGGGGCG
GCGCGTGCAGGTTTGGAAACGTCAGACCGCGGCTGGTGGCTATGCAGGTACGGCAGCCGGGCGGGCCTA
CTCCCCCGGTGCTGCTGCGGCCGGAAGGCTGGGCGCTCTCTGAGCGGAGCGGGTCCGTGGAGGAG
ACGACCCGGCGGGTGGAGCCCGGGGCTTCCCTGAACCCTCCAGGCCACCGCCCTCCCCACCGTGCC
CACCCGACCTTCGCCGGGCGCCATCCAGAGCCGCTGCTGCACCGTCACACGCAGGGCCCTGGAGCGGCG
CCACGGCGCCAGGGCCGCTCGAGGGTGGTGGACTCTGTGCCACCCACGACGGAGCAG

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



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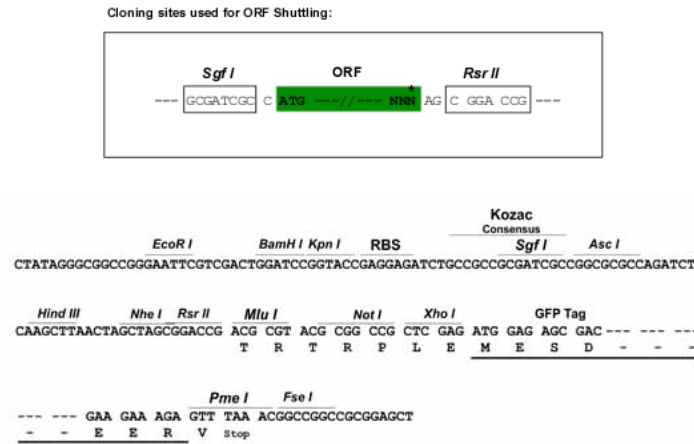
Protein Sequence: >RG214973 representing NM_172167
Red=Cloning site Green=Tags(s)

MAGPRYPVSVQGAALVQIKRLQTFASFVRWSDGSDTFVRRSWDEFRQLKTKLKFVPEAGLLRRSDRVL
 PKLLDAPLLGRVGRTRSRGLARLQLETTYSRLLATAERVARSPITIGFFAPQPLDLEPALPPGSRVILPT
 PEEQPLSRAAGRLSIHSLEAQLRCLQPFCTQDTRDRPFQAQAQESLDVLLRHPSGWLWVENEDRQTAWF
 PAPYLEEAAPGQGREGGPSLGSSGPQFCASRAYESSRADEL SVPAGARVRVLETSDRGWWLCRYGDRAGL
 LPAVLLRPEGLGALLSGTGFRGGDDPAGEARGFPEPSQATAPPPTVPTRPSGAIQSRCCVTVTRRALERR
 PRRQGRPRGCVDSVPHPTTEQ

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_172167

ORF Size: 1113 bp

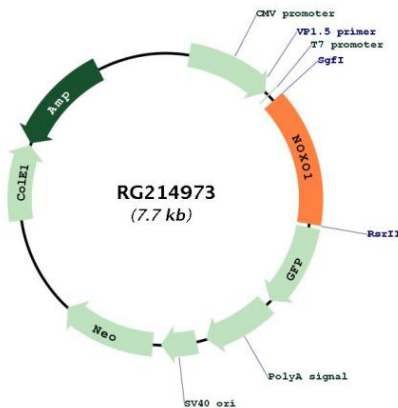
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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_172167.3](#)
- RefSeq Size:** 1639 bp
- RefSeq ORF:** 1116 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 RG214973