

Product datasheet for MR205276

Noxo1 (NM_027988) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Noxo1 (NM_027988) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Noxo1
Synonyms:	2310034C04Rik; hslt; P41NOX; P41NOXA; P41NOXB; P41NOXC; Snx28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205276 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAGCCCAAGACCCAGTATCAGCCATGCTGTAGCCTTGGTGCAAATGGACCGACTCCAGACAT
TTGCCCTTCCGTGTGCTGGTCAGACAACAGTGACACATTTGTACGGAGGAGCTGGGATGAGTTCAGGCA
GCTCCAGAAGACCCTTAAGAAAACCTTCCAGTGGAGGCAGGCCCTGCTACGGAGATCTGAACAAGTTCTT
CCCAAGCTTCTGATGCTCCATTGCTGACACGTCGGGGGCATACTGGTCGAGGACTGGTACGTTTGGCGC
TGCTGGACACCTATGTACAGGCATTGCTGGCAACCTCAGAACACATATTGAGGAGTTCAGCACTTACGG
CTTCTTTGTACCCAAACCTCTGGATCTGGAGCCCATGCTGCCTCCTGGCAGCCTGGTGATCCTGCCTACA
CCAGAGGAGCCCTTATCCCAACCCAGAGGCAGCCTTGACATTACAGCCTGGAGGCTCAGAGCATTCCCT
GTGTACAGCCTTCCACACTCTTGACATAAGAGACAGACCTTCCACACCAAGGCTCAAGAAATCTGGA
CATATTACTACGACATCCTTCAGGCTGGTGGCTGGTGGAGAACAAGGATCAGCAGGTAGCCTGGTTTCCA
GCTCCCTACCTGGAGGAGGTAGCAACGTGCCAAGGCCAGGAGTCAGGCCTGGCTTTGCAAGGAAGTGGGA
GGCAGTTCTGCACTACCCAGGCCTACGAGGGCAGTCGCTCTGATGAGCTATCCGTGCCCTCAGGGGCACG
TGTCATGTGCTGGAGACCTCAGACCGAGGCTGGTGGCTGTGCAGGATAAATGGCCGGACAGGCCTACTC
CTGCAATGTCGCTGCAACCTGAAGGGCTGGGCTCACTCCTGGCAGGCCAGGGTTCCAGACAGTGTG
GGCAGACAAGGTGGCTGAGGACAGAACCATTCCCCTGTAGTACCAACTCGTCCCTGTATGAGTGCCAT
CCAGAGTCGATGCTGCTCCATTACCCGCAGGGCACTGGCACAGGAACAAGGGACTCGGGTCCCCGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205276 protein sequence
Red=Cloning site Green=Tags(s)

MASPRHPVSAHAVALVQMDRLQTFASFVCWSDNSDTFVRRSWDEFRLQKTLKKTFFVEAGLLRRSEQVL
 PKLPDAPLLTRRGHTGRGLVRLRLLDITYVQALLATSEHILRSSLHGFFVPKPLDLEPMLPPGSLVILPT
 PEEPLSQPRGSLDIHSLAQSIQPCVQPFHTLDIRDRPFHTKAQEILDILLRHPSGWWLVENKDQQVAWFP
 APYLEEVATCQGGESGLALQGSGRQFCTTQAYEGSRSELSVPSGARVHVLETSDRGWWLCRYNGRTGLL
 PAMSLQPEGLGSLLRPGFPPDSAGADKVAEDRTIPPVVVTRPCMSAIQSRCCSITRRALAEQGTTRVPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_027988

ORF Size: 1050 bp

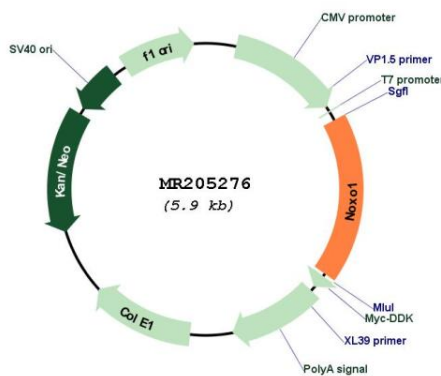
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	<ol style="list-style-type: none"> 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:	<u>NM_027988.3</u> , <u>NM_027988.4</u> , <u>NP_082264.2</u>
RefSeq Size:	2239 bp
RefSeq ORF:	1050 bp
Locus ID:	71893
UniProt ID:	<u>Q8VCM2</u>
Cytogenetics:	17 12.49 cM
MW:	38.8 kDa
Gene Summary:	Constitutively potentiates the superoxide-generating activity of NOX1 and NOX3 and is required for the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity. Isoform 3 is more potent than isoform 1 in activating NOX3. Together with NOXA1, may also substitute to NCF1/p47phox and NCF2/p67phox in supporting the phagocyte NOX2/gp91phox superoxide-generating activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205276