

Product datasheet for MC207709

Noxo1 (NM_027988) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Noxo1 (NM_027988) Mouse Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>MC207709 representing NM_027988 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAAGCCCAAGACCCAGTATCAGCCATGCTGTAGCCTTGGTGCAAATGGACCGACTCCAGACAT
TTGCCCTTCCGTGTGCTGGTCAGACAACAGTGACACATTTGTACGGAGGAGCTGGGATGAGTTCAGGCA
GCTCCAGAAGACCCTTAAGAAAACCTTCCAGTGGAGGCAGGCCCTGCTACGGAGATCTGAACAAGTTCTT
CCCAAGCTTCTGATGCTCCATTGCTGACACGTCGGGGGCATACTGGTCGAGGACTGGTACGTTTGGCGC
TGCTGGACACCTATGTACAGGCATTGCTGGCAACCTCAGAACACATATTGAGGAGTTCAGCACTTACCGG
CTTCTTTGTACCCAAACCTCTGGATCTGGAGCCCATGCTGCCTCCTGGCAGCCTGGTGATCCTGCCTACA
CCAGAGGAGCCCTTATCCCAACCCAGAGGCAGCCTTGACATTACAGCCTGGAGGCTCAGAGCATTCCCT
GTGTACAGCCTTCCACACTCTTGACATAAGAGACAGACCTTCCACACCAAGGCTCAAGAAATCTGGA
CATATTACTACGACATCCTTCAGGCTGGTGGCTGGTGGAGAACAAGGATCAGCAGGTAGCCTGGTTTCCA
GCTCCCTACCTGGAGGAGGTAGCAACGTGCCAAGGCCAGGAGTCAGGCCTGGCTTTGCAAGGAAGTGGGA
GGCAGTTCTGCACTACCCAGGCCTACGAGGGCAGTCGCTCTGATGAGCTATCCGTGCCCTCAGGGGCACG
TGTCATGTGCTGGAGACCTCAGACCGAGGCTGGTGGCTGTGCAGGATAAATGGCCGACAGGCCTACTC
CCTGCAATGTCGCTGCAACCTGAAGGGCTGGGCTCACTCCTGGCAGGCCAGGTTCCAGACAGTGTCTG
GGCAGACAAGGTGGCTGAGGACAGAACCATTCCCCTGTAGTACCAACTCGTCCCTGTATGAGTGCCAT
CCAGAGTCGATGCTGCTCCATTACCCGCAGGGCACTGGCACAGGAACAAGGGACTCGGGTCCCCGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1687_b10.zip



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_027988
Insert Size:	1050 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	BC019525 , AAH19525
RefSeq Size:	2239 bp
RefSeq ORF:	1050 bp
Locus ID:	71893
UniProt ID:	Q8VCM2
Cytogenetics:	17 12.49 cM
Gene Summary:	<p>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]</p>