

## Product datasheet for **MG205276**

### Noxo1 (BC019525) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Noxo1 (BC019525) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Noxo1
Synonyms:	Snx28, P41NOX, P41NOXA, P41NOXB, P41NOXC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205276 representing BC019525 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAAGCCCAAGACCCAGTATCAGCCATGCTGTAGCCTTGGTGCAAATGGACCGACTCCAGACAT  
TTGCCTTCTCCGTGTGCTGGTCAGACAACAGTGACACATTTGTACGGAGGAGCTGGGATGAGTTCAGGCA  
GCTCCAGAAGACCCTTAAGAAAACCTTCCAGTGGAGGCAGGCCTGCTACGGAGATCTGAACAAGTTCTT  
CCCAAGCTTCTGATGCTCCATTGCTGACACGTCGGGGGCATACTGGTCGAGGACTGGTACGTTTGGCGC  
TGCTGGACACCTATGTACAGGCATTGCTGGCAACCTCAGAACACATATTGAGGAGTTCAGCACTTACGG  
CTTCTTTGTACCCAAACCTCTGGATCTGGAGCCCATGCTGCCTCCTGGCAGCCTGGTGATCCTGCCTACA  
CCAGAGGAGCCCTTATCCCAACCCAGAGGCAGCCTTGACATTACAGCCTGGAGGCTCAGAGCATTCCCT  
GTGTACAGCCTTCCACACTCTTGACATAAGAGACAGACCTTCCACACCAAGGCTCAAGAAATCTGGA  
CATATTACTACGACATCCTTCAGGCTGGTGGCTGGTGGAGAACAAGGATCAGCAGGTAGCCTGGTTTCCA  
GCTCCCTACCTGGAGGAGGTAGCAACGTGCCAAGGCCAGGAGTCAGGCCTGGCTTTGCAAGGAAGTGGGA  
GGCAGTTCTGCACTACCCAGGCCTACGAGGGCAGTCGCTCTGATGAGCTATCCGTGCCCTCAGGGGCACG  
TGTCATGTGCTGGAGACCTCAGACCGAGGCTGGTGGCTGTGCAGGATAAATGGCCGACAGGCCTACTC  
CCTGCAATGTCGCTGCAACCTGAAGGGCTGGGCTCACTCCTGGCAGGCCAGGGTTCCAGACAGTGTG  
GGCAGACAAGGTGGCTGAGGACAGAACCATTCCCCTGTAGTACCAACTCGTCCCTGTATGAGTGCCAT  
CCAGAGTCGATGCTGCTCCATTACCCGAGGGCACTGGCACAGGAACAAGGGACTCGGGTCCCCGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205276 representing BC019525  
 Red=Cloning site Green=Tags(s)

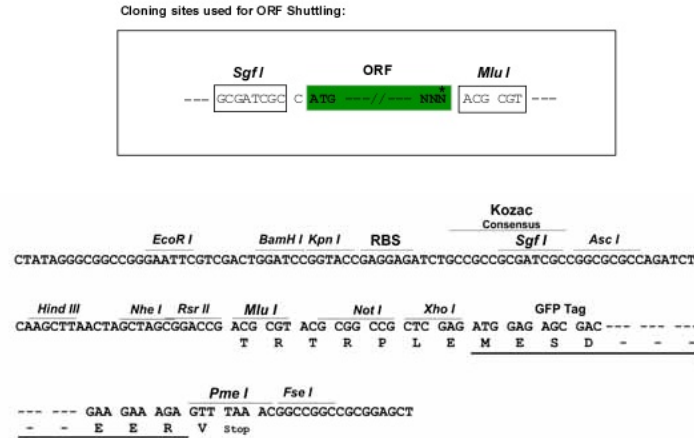
MASPRHPVSAHAVALVQMDRLQTFASFVCWSDNSDTFVRRSWDEFRLQKTLKKTFFVEAGLLRRSEQVL  
 PKLPDAPLLTRRGHTGRGLVRLRLLDITYVQALLATSEHILRSSLHGFFVPKPLDLEPMLPPGSLVILPT  
 PEEPLSQPRGSLDIHSLAQSIQPCVQPFHTLDIRDRPFHTKAQEILDILLRHPSGWWLVENKDQQVAWFP  
 APYLEEVATCQQQESGLALQSGRQFCTTQAYEGSRSELSVPSGARVHVLETSDRGWWLCRYNGRTGLL  
 PAMSLQPEGLSLLGRPGFPDSAGADKVAEDRTIPPVVPTRPCMSAIQSRCCSITRRALAEQGTVPVR

TRTRPLE - GFP Tag - V

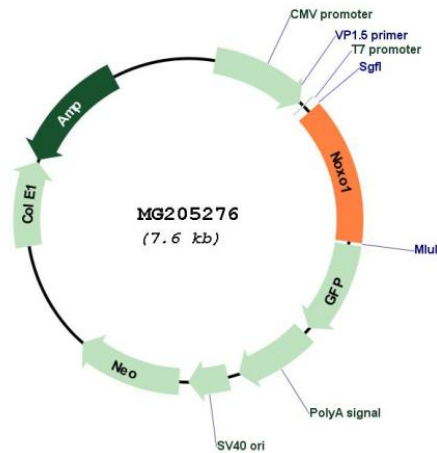
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC019525

ORF Size: 1049 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC019525</a> , <a href="#">AAH19525</a>
<b>RefSeq Size:</b>	1260 bp
<b>RefSeq ORF:</b>	1049 bp
<b>Locus ID:</b>	71893
<b>Cytogenetics:</b>	17 12.49 cM
<b>Gene Summary:</b>	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]