

## Product datasheet for **MG207092**

### Noxa1 (NM\_172204) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Noxa1 (NM_172204) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Noxa1
Synonyms:	NY-CO-31; SDCCAG31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207092 representing NM\_172204  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCTCTCTAGGGGATCAGATACGGGACTGGCACCGGGGTGTGCTGGCCGTGGCACGCGAAGACTGGG  
 ACTCTGCGCTGTGCTTCTCTCAGATGTCCGAGAGCCGCTGGCTAGGATGTACTTTAACAGGGGCTGTGT  
 GCATCTGATGGCAGGGGATCCCGAGGCTGCGCTGCGGGCATTGACCAAGCAGTGACTAAGGACACCTGC  
 ATGGCTGTTGGCTTCTCCAGCGGGGAGTGGCAAATTTCCAGCTGCAGAGGTTCCAGGAGGCTGTGTCTG  
 ACTTCCAGTTGGCCCTGGCACAGCTGAGGGACAATGCTGTATTGACTACACACAAGTGGTCTGAACTT  
 CAAATTGCAAGCCTGGGAGGTCCTATAACAATGGCATCAGCACAGTGCCAGGCAGGGCTCTGGACCAAG  
 GCTGCCAATACTCTAGTGGAGGCAATCTCAAATGGCCAGAGGGGCTCAAGACATCCTGGACATTGCCA  
 TGGACAAAGTGCAGAAACAGGTACCCCTACAGCTACAGCAAGTGCCAAGGGTGAGGTCTCCAGCCTCC  
 CAGGCGATACCTAAAACATCTGGAGCCCATGGATTTCTTGGCAAGGCTAAGGTGGTGGCTCTGTCTATT  
 CCTGATGACCACAACGCCAGCCTCAGCAGAGGTCAGGCGGAGCATGCTGGCCACCAGCCATCCTCAT  
 CTACGTGTAAGAGGGTCTGAGCACTACGGGTGGTCACACGAGCCCTGGCCTATATGATAGTTTGTGGC  
 ATCTGGAAGGCCTGGTCCAGGCCCTCTGAAGTTTCTCAGGATCTGAGGGAGCAGCTACAAAGGACCT  
 GAATCCTTGGTACTGTCACTGTGCAGTGCCACTTTACTGTGCCCTGAAGGTCCCAAGAGGAAGTGGCC  
 TGTCCAGTTTTCAGACACTACTAGTCAAGCCCTCCTTACCAGACGCAGACAGGGCAGCTCAGTTACAA  
 AGCCCCAGGAGAGGAGAGATCCTGGATCCCATCTCCACGGAGGAGTCCCTGCAGAGTATATGGAGGAAT  
 GTGCCCCGTGGGCCAGGAGGTTGCAGCTCCAGTGCCAGGGGGTCTGGGGCCGGCCAGTCTCTACCAAG  
 TAGTAGCTCAGTATAACTATCGTGCCCAAAGACCGGAGGATTTGGACTTCCACCAAGGGGACACGGTGG  
 TGTCTGTGTGAAGTGGACGAAGCATGGCTGGAGGGACACCGAGATGGCTGCGTTGGCATTTCCTAAG  
 TGCTTTGTGGTCCAGCTGGCGCCTATGTGGAAGCCATGCTTGTACTGGGACCCAGCCAGGAGACCAGA  
 AC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207092 representing NM\_172204  
 Red=Cloning site Green=Tags(s)

MSSLGDQIRDWHRGVLAVAREDWDSALCFSDVREPLARMYFNRCVHLMAGDPEAALRAFDQAVTKDTC  
 MAVGFLQRGVANFQLQRFQEAVSDFQLALALQLRDNAVITYQLGLNFKLQAWEVLYNMAAQCQAGLWTK  
 AANTLVEAISKWPEGAQDILDIAIDKVKQVPLQLQQVPKGEVFPVPRRYLKHLEPMDFLGKAKVVASVI  
 PDDHNAQPQQRSAEHAGHQPSSTCKRVLSTTGGHTSPGLYDSSLASGRPGPGPSEVSSGSEGAATKDP  
 ESLVTVTVQCHFVPLKVPRTGLSSFQTLAQAALLHQTGTGLSYKAPGEERSWIPISTEEESLQSIWRN  
 VPVPGGLQLQCQGVWGRPVLYQVVAQYNYRAQRPEDLDFHQGDTVDVLCVDEAWLEGHRDGCVGIFPK  
 CFVVPAGAYVEAMLVLGPQPDQD

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

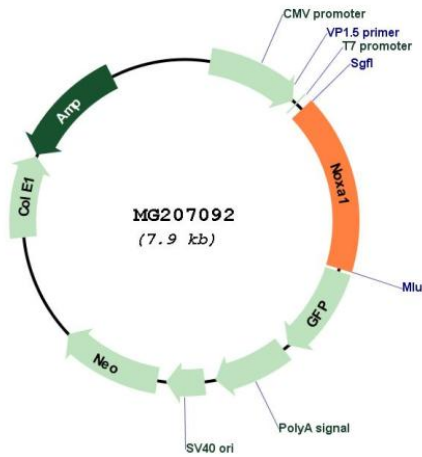
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_172204

ORF Size: 1332 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.

<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>	<u><a href="#">NM_172204.3</a></u>
<b>RefSeq Size:</b>	1680 bp
<b>RefSeq ORF:</b>	1335 bp
<b>Locus ID:</b>	241275
<b>UniProt ID:</b>	<u><a href="#">Q8CJ00</a></u>
<b>Cytogenetics:</b>	2 A3
<b>Gene Summary:</b>	Functions as an activator of NOX1, a superoxide-producing NADPH oxidase. Functions in the production of reactive oxygen species (ROS) which participate in a variety of biological processes including host defense, hormone biosynthesis, oxygen sensing and signal transduction. May also activate CYBB/gp91phox and NOX3.[UniProtKB/Swiss-Prot Function]