

Product datasheet for **MR207092**

Noxa1 (NM_172204) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Noxa1 (NM_172204) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Noxa1
Synonyms:	NY-CO-31; SDCCAG31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207092 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTCTCTAGGGGATCAGATACGGGACTGGCACCGGGGTGTGCTGGCCGTGGCACGCGAAGACTGGG
 ACTCTGCGCTGTGCTTCTCTCAGATGTCCGAGAGCCGCTGGCTAGGATGTACTTTAACAGGGGCTGTGT
 GCATCTGATGGCAGGGGATCCCGAGGCTGCGCTGCGGGCATTGACCAAGCAGTGACTAAGGACACCTGC
 ATGGCTGTTGGCTTCTCCAGCGGGGAGTGGCAAATTTCCAGCTGCAGAGGTTCCAGGAGGCTGTGTCTG
 ACTTCCAGTTGGCCCTGGCACAGCTGAGGGACAATGCTGTATTGACTACACACAAGTGGTCTGAACTT
 CAAATTGCAAGCCTGGGAGGTCCTATAACAATGGCATCAGCACAGTGCCAGGCAGGGCTCTGGACCAAG
 GCTGCCAATACTCTAGTGGAGGCAATCTCCAAATGGCCAGAGGGGCTCAAGACATCCTGGACATTGCCA
 TGGACAAAGTGCAGAAACAGGTACCCCTACAGCTACAGCAAGTGCCAAGGGTGAGGCTTCCAGCCTCC
 CAGGCGATACCTAAAACATCTGGAGCCCATGGATTTCTTGGCAAGGCTAAGGTGGTGGCTTCTGTCTATT
 CCTGATGACCACAACGCCAGCCTCAGCAGAGGTCAGGCGGAGCATGCTGGCCACCAGCCATCCTCAT
 CTACGTGTAAGAGGGTCTGAGCACTACGGGTGGTCACACGAGCCCTGGCCTATATGATAGTTTGTGGC
 ATCTGGAAGGCCTGGTCCAGGCCCTCTGAAGTTTCTCAGGATCTGAGGGAGCAGCTACAAAGGACCTT
 GAATCCTTGGTACTGTCACTGTGCAGTGCCACTTTACTGTGCCCTGAAGTCCCAAGAGGAACTGGCC
 TGTCCAGTTTTGAGACTACTAGTCAAGCCCTCCTTACCAGACGCAGACAGGGCAGCTCAGTTACAA
 AGCCCCAGGAGAGGAGATCCTGGATCCCATCTCCACGGAGGAGTCCCTGCAGAGTATATGGAGGAAT
 GTGCCCCGTGGCCAGGAGGTTGCAGCTCCAGTGCCAGGGGGTCTGGGGCCGGCCAGTCTCTACCAAG
 TAGTAGCTCAGTAACTATCGTGCCCAAAGACCGGAGGATTTGGACTTCCACCAAGGGGACACGGTGG
 TGTCTGTGTGAAGTGGACGAAGCATGGCTGGAGGGACACCGAGATGGCTGCGTTGGCATTTCCTTAAG
 TGCTTTGTGGTCCAGCTGGCGCCTATGTGGAAGCCATGCTTGTACTGGGACCCAGCCAGGAGACCAGA
 AC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207092 protein sequence
 Red=Cloning site Green=Tags(s)

MSSLDQIRDWHRGVLAVAREWDSALCFSDVREPLARMYFNRCVHLMAGDPEAALRAFDQAVTKDTC
 MAVGFLQRGVANFQLQRFQEAVSDFQLALALQLRDNAVITYQLGLNFKLQAWVLYNMAAQCQAGLWTK
 AANTLVEAISKWPEGAQDILDIAMDKVQKQVPLQLQQVPKGEVFPFRRYLKHLEPMDFLGKAKVVASVI
 PDDHNAQPQQRSAEHAGHQPSSTCKRVLSTTGGHTSPGLYDSSLASGRPGPGPSEVSSGSEGAATKDP
 ESLVTVTVQCHFTVPLKVPRTGLSSFQTLAQAALLHQTQTGQLSYKAPGEERSWIPISTEESLQSIWRN
 VPVGGGLQLQCQGVWGRPVLQVVAQYNYRAQRPEDLDFHQGDTVDVLCVDEAWLEGHDRDGCVGIFPK
 CFVVPAGAYVEAMLVLGPQPGDQN

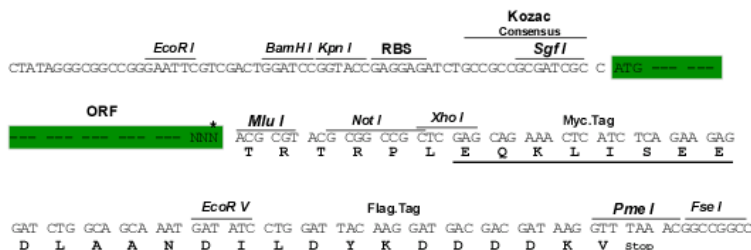
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


ACCN: NM_172204

ORF Size: 1335 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.

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_172204.3](#)
RefSeq Size: 1673 bp

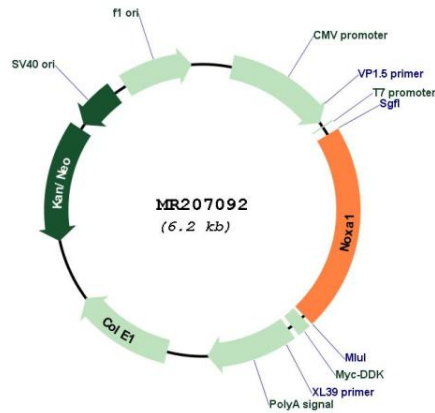
RefSeq ORF: 1335 bp

Locus ID: 241275

UniProt ID: [Q8CJ00](#)

Cytogenetics:	2 A3
MW:	48.8 kDa
Gene Summary:	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]

Product images:



Circular map for MR207092