

Product datasheet for **RR200990**

Noxa1 (NM_001100171) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Noxa1 (NM_001100171) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Noxa1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200990 representing NM_001100171
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGAGCTCTCTAGGGGATCAGATACGGGACTGGCACCGGGGCGTACTGGCCGTAGCACGCGAAGACTGGG
ACTCTGCACTGTGCTTCTTTTCAGATGTCCGGGAGCCGCTGGCTAAGATGTACTTCAACATGGGCTGCGT
GCACCTGATGGCAGGGGATCCCGAGGCTGCGCTGAGGGCATTGACCAAGCAGTGACCAAGGACACCTGC
ATGGCTGTTGGCTTCTCCAGCGGGGAGTGGCCAATTTCCAGCTGCAGAGGCTCCAGGAGGCTGTGTCCG
ACTTCCAGTTGGCCCTGGCACAGCTGAGGGGCAATGCTGCCATTGACTACACACAAGTGGTCTGGACTT
CAAAGTGAAGCCTGGGAGGTCCTATAAATGCGCATCAGTGCAGTGCCAGGCAGGGCTCTGGACCAAG
GCTGCCAATACTCTAGTAGAAGCAATCTCAAACGGCCAGAGGGGGCCCAAGACACCCTGGAGGCTGCCA
TGGACAAAGTGCAGAAACAGGTACCACTGCAGCTGCGGCAAGTGCCAAGGGGGAGGCTTCCAGCCTCC
TCGGCGATACCTGAAACATCTGGAGCCCATGGATTTCTCGGCAAGGCTAAGGTGGTGGCTTCTGTCATC
CCTGATGACCACAAGTCCGACATCCAGCCTCAGCAGAGCTCCAGGTGGAGCAAGCCGGCCTCCAGTCGT
CCTCACCCGTGTGTAAGAGGGTCTGAGCACAAGGGTGGTCACATGAGCCCTGGCCTATGGGACAGTTT
GCTGGCAACTGGAGGGCCTGTCCCGGGCCCTCTGAAGATTCTCTAGTGTGAGGGAACAGCTACAAGG
GACCCTGAATCCTTGGTACTGTCACTGTGCAAGTCCACTTTACTGTGCCCTGAAGTCCCGAGAGGAA
CTGACCTGTCCAGTTTTCGGACACTACTGTCTCAAGCTCTCCTTCCAGCAGACCCAGAAGGGGAGTTCAG
CTACAAAGCCCGAGGAGAGGACAGAGCCTGGGTCCCACTCCACGGAGGACTACTGCAGAGTGTATGG
AGGAATGTGCCAGTGAGCCCAAGAGGCTTGAGCTCCAGTCCCGGGGGGCTGGGGCCGGCCAGTCTCT
ACCAAGTGGTAGCTCAGTACGACTATCGTGCCAAAGCCGGAGGACTTGGACTTCCGCAAGGGGACAC
AGTGGATGTTCTGTGTAAGTGGACGAAGCATGGCTGGAGGGACACCGAGATGGCCGTGTGGTATTTTC
CCCAAGTCTTTGTAGTCCAGCTGCCACCTGTGTGGAAGCCCTGCCTGTACCTGAACCCAGCCAGGAG
AACAGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200990 representing NM_001100171
 Red=Cloning site Green=Tags(s)

MSSLDGDIQIRWHRGVLAVAREDWDSALCFSDVREPLAKMYFNMGCVHLMAGDPEAALRAFDQAVTKDTC
 MAVGFLQRGVANFQLQRLQEAVSDFQLALALQLRGNAIDYTLGLDFKLQAWLVLNMAVQCQAGLWTK
 AANTLVEAISKRPEGAQDTLEAAMDKVQKQVPLQLRQVPKGEVFQPPRRYLKHLPEPMDFLGKAKVVASVI
 PDDHNSDIQPQQSSQVEQAGLQSSSPVCKRVLSTRGGHMSPGLWDSLLATGGPVPGPSSEDSSEAEGTATK
 DPESLVTVTVQCHFTVPLKVPRTDLSSFRTLLSQALLQQTQKQFQSYKARGEDRAWVPISTEDSLQSVW
 RNVVPSRGLQLQCRGAWRPVLYQVVAQYDYRAQRPEDLDFRQGDVTVLCEVDEAWLEGHRDGRVIGIF
 PKCFVVAATCEALPVPEPQGEQH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

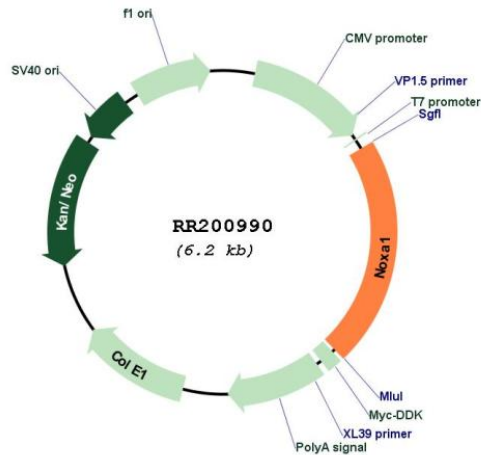
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001100171
ORF Size:	1338 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:	<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:	NM_001100171.1 , NP_001093641.1
RefSeq Size:	1378 bp
RefSeq ORF:	1341 bp
Locus ID:	311793
UniProt ID:	A7E3N7
Cytogenetics:	3p13
MW:	49.2 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 (By similarity).[UniProtKB/Swiss-Prot Function]