

Product datasheet for **RG232703**

NOXA1 (NM_001256068) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NOXA1 (NM_001256068) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NOXA1
Synonyms: NY-CO-31; p51NOX; SDCCAG31
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232703 representing NM_001256068
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTCTCTGGGGACCTGGTGCAGCCTGGCACCTGGGCGCGCAGGCTGTGGATCGTGGGACTGGG
 CCCGCGCCTTGACCTCTTCTCGGGCGTCCCGCGCCGCCAGGCTGTGCTTCAACGCGGGTGCCT
 GCACCTGTGGCCGGGACCCCGAGGCCGCGTGCGGCATTGACCAAGCCGTGACCAAGGACACCTGC
 ATGGCGGTTGGCTTCTTCCAGCGAGGAGTGCCAACTTCCAGCTGGCAAGGTTCCAGGAGGCTGTGCTG
 ACTTCTGGCTGGCCCTGGAGCAGCTGAGGGGCCACGCTGCCATCGACTACACGCAGCTGGGCCTGCGGTT
 CAAGCTGCAAGCCTGGGAGGTGCTACACAATGTGGCGTCCGCACAGTGCCAGCTGGGGCTCTGGACAGAG
 GCGGCCAGCAGCCTAAGGGAGGCCATGTCCAAGTGGCCGAGGGGTCCTGAATGGCCTGGACTCAGCCC
 TGGACCAAGTGCAGGGACCAGGAGCGAACCATGATGCCAGGTCCTAATCATGGACTCCCCAAGAGCTGG
 CACCCACAGGGCCCCCTCGATGCAGAGACAGAGGTGGTGTGACCGCTGCACGTGACTGCCTACAG
 GAGCAGAGGGCCAGGTGGAGCAAGTTGGCAAACAGGCTCCTCTCTCCAGGGCTGCCGCAATGGGGG
 GGCCTGGCCCCGGCCCTGTGAGGACCCCGGGTGTGGGGAGCAGGTGCAGGGGGCTCCGAGCCCT
 GGTGACTGTACCGTGCAGTGCCTTCCAGTGGCCCTGAGGGCACGAAGAGGAGCCGACCTGTCCAGC
 CTGCGGGCACTGCTGGGCAAGCCCTCCCTCACCAGGCCAGTTGGGCAACTCAGTTACCTAGCCCCG
 GTGAGGACGGGCACTGGTCCCATCCCCGAGGAGGAGTGCCTGCAGAGGGCCTGGCAGGACGAGCTGC
 CTGCCCAAGGGGCTGCAGCTGCAGTGCAGGGGAGCCGGGGTCCGCGGTCCTTACCAGTGGTGGCC
 CAGCACAGCTACTCCGCCAGGGGCCAGAGGACCTGGGCTCCGACAGGGGGACACGGTGGAGCTCTGT
 GTGAAGAGCCCGATGTCCCCTTGCAGTGGACCAGGCATGGCTGGAGGGCCACTGTACGGCCGATCGG
 CATCTTCCCCAAGTGCTTCTGGTCCCCGCGGCCCTCGGATGTCAGGAGCCCCCGCCGCTGCCCGCA
 TCCAGCAGGGAGATCAGCCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232703 representing NM_001256068
 Red=Cloning site Green=Tags(s)

MASLGDLVRAWHLGAQAVDRGDWARALHLFSGVPAPPARLCFNAGCVHLLAGDPEAALRAFDQAVTKDTC
 MAVGFFQRGVANFQLARFQEALSDFWLALQLRGHAAIDYTQLGLRFKLQAWEVLHNVASAQCQLGLWTE
 AASSLREAMSKWPEGLNGLDSALDQVQPGANHDARSLIMDSPRAGTHQGPLDAETEVGADRCTSTAYQ
 EQRPQVEQVQKQAPLSPGLPAMGGPGPGPCEDPAGAGGAGAGGSEPLVTVTVQCAFTVALRARRGADLSS
 LRALLGQALPHQAQLGQLSYLAPGEDGHVPIPEEESLQRAWQDAACPRGLQLQCRGAGGRPVLVYQVVA
 QHSYSAQGPEDLGFRQGDTVDLCEEPDVPLAVDQAWLEGHCDGRIGIFPKCFVVPAGPRMSGAPGRLPR
 SQQGDQP

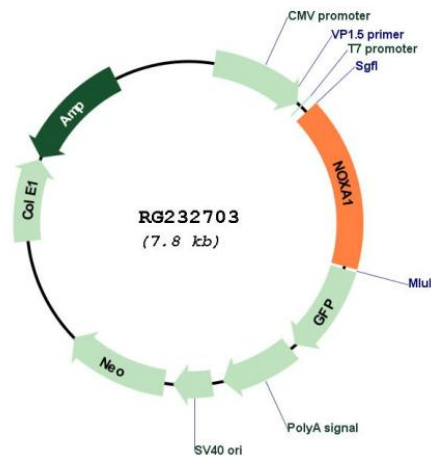
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001256068

ORF Size:	1281 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_001256068.1 , NP_001242997.1
RefSeq Size:	1471 bp
RefSeq ORF:	1284 bp
Locus ID:	10811
UniProt ID:	Q86UR1
Cytogenetics:	9q34.3
Gene Summary:	This gene encodes a protein which activates NADPH oxidases, enzymes which catalyze a reaction generating reactive oxygen species. The encoded protein contains four N-terminal tetratricopeptide domains and a C-terminal Src homology 3 domain. Interaction between the encoded protein and proteins in the oxidase regulatory complex occur via the tetratricopeptide domains. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]