

Product datasheet for **RR209963**

Nqo2 (NM_001004214) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nqo2 (NM_001004214) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nqo2
Synonyms: MGC94180
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209963 representing NM_001004214
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGTAAGAAAGTGCTCCTTGCTATGCACACCAAGAACCAAGTCCTTCAATGGGTCCATGAAGC
AAGTGGCTGTTGAAGAACTGAGCAAGCAGGGATGCACAGTCACTGTGTCTGATTTATACACCATGAAGT
CGAGCCAAGGGCCACAAGAAACGATGTTACTGGTGCCCTCTAATCCTGAAGTCTTCAAATATGGGATA
GAAGCCTATGAAGCCTACAAGAAGAAAGCTCTGACCAGTGACATACTTGAAGAGCAGAGAAAGGTGCAAG
AAGCTGATCTAGTGATATTTCAAGTTTCCACTATACTGGTTCAGCGTTCAGCAATCCTAAAAGGCTGGAT
GGATAGGGTGCTGTGCCAAGGGTTTGCCTTCGATGTCCCAGGCTTTTATGACTCTGGTTTTCTCAAGGAT
AACTAGCCCTCCTTTTCCCTTTACCACGGGAGGTACAGCAGAGATGTACACAAAAGCTGGGGTCAATGGAG
ATTTCCGGTACTTCTGTGGCCACTTCAGCATGGTACATTGCACTTCTGTGGATTTAAAGTCTTGCCCC
ACAGATCAGTTTTGGTCTGAAGTTTCATCAGAAGAACAAGAAAAGTGTGCTGGCATCATGGGTCCAG
CGGCTGAAGAGCATCTGGAAGGAAGAACCCATCCACTGCACACCCTTTGGTACTTCCAAGGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209963 representing NM_001004214
Red=Cloning site Green=Tags(s)

MAGKKVLLVYAHQEPKSFNGSMKQVAVEELSKQGCTVTVSDLYTMNFEPATRNDVTGALSNPEVFKYGI
 EAYEAYKKKAL TSDILEEQRKVQEADLVIFQFPLYWFSVPAILKGWMDRVL CQGF AFDVPGFYDSGFLKD
 KLALLSFTTGGTAEMYTKAGVNGDFRYFLWPLQHGTLHF CGFKVLAPQISFGPEVSSEEQRKVM LASWVQ
 RLKSIWKEEPIHCTPSWYFQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

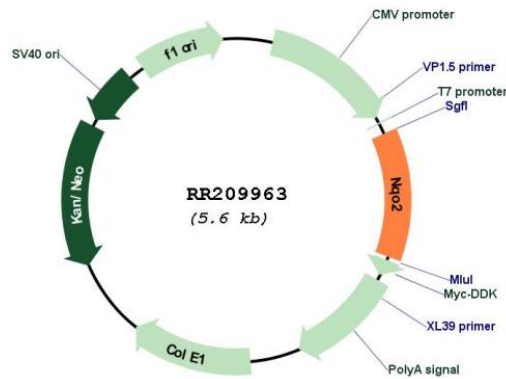
Restriction Sites:

Sgfi-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001004214

ORF Size: 693 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_001004214.1 , NP_001004214.1
RefSeq Size:	1235 bp
RefSeq ORF:	696 bp
Locus ID:	291084
UniProt ID:	Q6AY80
Cytogenetics:	17p12
MW:	26.3 kDa
Gene Summary:	mouse homolog catalyzes the reduction of quinones and quinone derivatives; may protect against development of myelogenous hyperplasia , may contribute to menadione mediated hepatic toxicity [RGD, Feb 2006]