

Product datasheet for **MR227333**

Nqo1 (NM_008706) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nqo1 (NM_008706) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nqo1
Synonyms:	AV001255; Dia4; Dtd; Nmo-1; Nmo1; Nmor1; Ox-1; Ox1; Qr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227333 representing NM_008706 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCGAGAAGAGCCCTGATTGTAAGGAGGAGGATGGGAGGACTCGAATCTGACCTCTATGCTATGAACTT
CAACCCCATCATTTCCAGAAATGACATCACAGGTGAGCTGAAGGACTCGAAGAATTTTCAGTATCCTTCC
GAGTCATCTCTAGCATATAAGGAAGGACGCCTGAGCCAGATATTGTGGCCGAACAAGAAGCTGGAAG
CTGCAGACCTGGTGATATTTTCAGTTCCATTGCAGTGGTTTGGGGTGCCAGCCATTCTGAAAGGCTGGTT
TGAGAGAGTGCTCGTAGCAGGATTTGCCTACACATATGCTGCCATGTACGACAACGGTCCCTTCCAGAAT
AAGAAGACCTTGCTTTCTATCACCAGTGGGGTAGCGGCTCCATGTAATCTCTTTCAGGGTGTCCACGGGG
ACATGAACGTCATTCTCTGGCCGATTGAGAGTGGCATCCTGCGTTTCTGTGGCTTCCAGGTCTTAGAAC
TCAACTGGTTTACAGCATTGGCCCACTCCACCAGATGCCCGCATGCAGATCCTGGAAGGATGGAAGAAA
CGTCTGGAACCGTCTGGGAGGAGACCCACTCTATTTTGGCTCCAAGCAGCCTGTTTGACCTAACTTTC
AGGCAGGATCTTAATGAAAAAGGAAGTTCAAGAGGAGCAGAAGAACAAGTTTGGCCTCTCTGTGGG
CCATCACCTGGCAAGTCCATTCAGCTGACAACCAGATCAAAGCTAGAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227333 representing NM_008706
Red=Cloning site Green=Tags(s)

MAARRALIVLAHSEKTSFNAMKEAAVEALKKRGWEVLESPLYAMNFNPIISRNDITGELKDSKNFYQPS
 ESSLAYKEGRLSPDIVAEHKKLEAADLVIFQFPLQWFGVPAILKGWFERVLVAGFAYTYAAMYDNGPFQN
 KKTLLSITTTGGSGMYSLQGVHGDMMVILWPIQSGILRFCGQVLEPQLVYSIGHTPPDARMQILEGWKK
 RLETVWEETPLYFAPSSLFDLNFQAGFLMKKEVQEEQKKNKFGLSVGHHLGKSIPADNQIKARK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9034_g08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008706

ORF Size: 822 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_008706.5](#), [NP_032732.3](#)

RefSeq Size: 1552 bp

RefSeq ORF: 825 bp

Locus ID: 18104

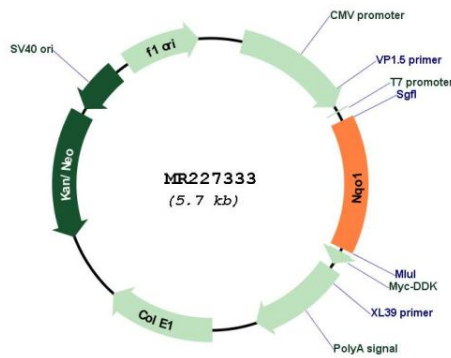
UniProt ID: [Q64669](#)

Cytogenetics: 8 54.08 cM

MW: 31.4 kDa

Gene Summary: The enzyme apparently serves as a quinone reductase in connection with conjugation reactions of hydroquinons involved in detoxification pathways as well as in biosynthetic processes such as the vitamin K-dependent gamma-carboxylation of glutamate residues in prothrombin synthesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227333