

Product datasheet for **MG222398**

Nqo2 (NM_001163239) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nqo2 (NM_001163239) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nqo2
Synonyms:	NMO2; Nmor2; Ox2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222398 representing NM_001163239 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGTAAGAAAGTGCTCATCGTCTATGCACACCAAGAACCAAGTCCTTCAATGGGTCCTGAAGA
AAGTGGCTGTTGAAGAACTGAGCAAGCAGGGATGCACAGTCAGTGTGTCTGATTTATATAGCATGAAGT
TGAGCCAAGGGCCACAAGAAATGATACACTGGTGCCCTCTAATCCTGACGTCTTCAGTTATGGGATA
GAAACCCATGAAGCCTACAAGAAGAAAGCTCTGACCAGTGATATATTTGAAGAACAGAGAAAGGTGCAAG
AAGCTGATCTTGTGATATTTAGTTTCCACTATACTGGTTCAGCGTTCAGCAATCCTAAAAGGTTGGAT
GGATAGGGTGCTGTGCCGAGGGTTTGCCTTTGATATCCCAGGCTTTTATGACTCTGGTTTTCTCAAGGGT
AAATTAGCTCTCCTTTTCCCTTAACCACGGGAGGTACAGCGGAGATGTACACAAAAGATGGGGTCAGTGGAG
ATTTCCGGTACTTCTGTGGCCACTTCAGCATGGTACACTGCACTTCTGTGGATTTAAAGTCCTTGCCCC
CCAGATCAGTTTTGGTCTTGATGTTTCATCAGAAGAAGAAAGGAAAGTGTGCTGGCATCATGGGCCAG
CGGCTGAAGAGCATCTGGAAGGAAGAACCCATCCACTGCACACCCCTTGGTACTTCCAAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222398 representing NM_001163239
Red=Cloning site Green=Tags(s)

MAGKKVLIVYAHQEPKSFNGSLKKVAVEELSKQGCTVTVSDLYSMNFEPATRNDITGAPSNPDVFSYGI
 ETHEAYKKKALTSDFEEQRKVQEADLVIFQFPLYWFSVPAILKGWMDRVLCRGFAFDIPGFYDSGFLKG
 KLALLSLTTGGTAEMYTKDGVSGDFRYFLWPLQHGTLHFCGFKVLAPQISFGLDVSSEERKVMLASWAQ
 RLKSIWKKEEPIHCTPPWYFQE

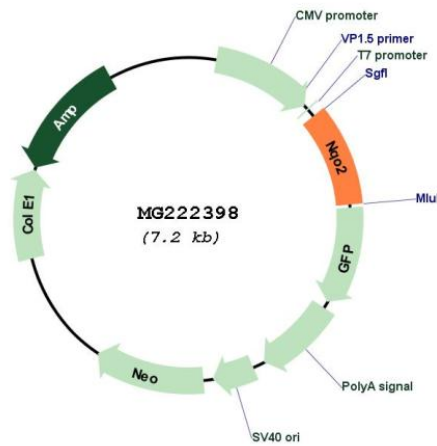
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001163239

ORF Size: 561 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_001163239.1 , NP_001156711.1
RefSeq Size:	3804 bp
RefSeq ORF:	564 bp
Locus ID:	18105
Cytogenetics:	13 14.01 cM
Gene Summary:	The enzyme apparently serves as a quinone reductase in connection with conjugation reactions of hydroquinones 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]