

## Product datasheet for **RC236463**

### NQO2 (NM\_001290222) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NQO2 (NM\_001290222) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NQO2  
**Synonyms:** DHQV; DIA6; NMOR2; QR2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236463 representing NM\_001290222  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCAGGTAAGAAAGTACTCATTGTCTATGCACACCAGGAACCAAGTCTTCAACGGATCCTTGAAGA  
ATGTGGCTGTAGATGAACTGAGCAGGCAGGGCTGCACCGTCACAGTGTCTGATTTGTATGCCATGAACCT  
TGAGCCGAGGGCCACAGACAAAGATATCACTGGTACTCTTCTAATCCTGAGGTTTTCAATTATGGAGTG  
GAAACCCACGAAGCCTACAAGCAAAGGTCTCTGGCTAGCGACATCACTGATGAGCAGAAAAAGGTTCCGGG  
AGGCTGACCTAGTGATATTTAGGGTAAACTAGCGCTCCTTTCCGTAACCCACGGGAGGCACGGCCGAGAT  
GTACACGAAGACAGGAGTCAATGGAGATTCTCGATACTTCTGTGGCCACTCCAGCATGGCACATTACAC  
TTCTGTGGATTTAAAGTCCTTGGCCCTCAGATCAGCTTTGCTCCTGAAATTGCATCCGAAGAAGAAAGAA  
AGGGGATGGTGGCTGCGTCCAGAGGCTGCAGACCATCTGGAAGGAAGAGCCCATCCCTGCACAGC  
CCACTGGCACTTCGGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236463 representing NM\_001290222  
Red=Cloning site Green=Tags(s)

MAGKKVLIVYAHQEPKSFNGSLKNVAVDEL SRQGCTVTVSDLYAMNLEPRATDKDITGTLNPEVFNYGV  
ETHEAYQRSLASDITDEQKKVREADLVIFQGKLALLSVTTGGTAEMYTKTGVNGDSRYFLWPLQHGTLH  
FCGFKVLAPQISFAPEIASEEERKGMVAAWSQRLQTIWKEEIPCTAHWHFGQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI





**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\\_001290222.1](#), [NP\\_001277151.1](#)

**RefSeq Size:** 1158 bp

**RefSeq ORF:** 582 bp

**Locus ID:** 4835

**Cytogenetics:** 6p25.2

**MW:** 22 kDa

**Gene Summary:** This gene encodes a member of the thioredoxin family of enzymes. It is a cytosolic and ubiquitously expressed flavoprotein that catalyzes the two-electron reduction of quinone substrates and uses dihydronicotinamide riboside as a reducing coenzyme. Mutations in this gene have been associated with neurodegenerative diseases and several cancers. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]