

Product datasheet for **RC202889**

NQO2 (NM_000904) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NQO2 (NM_000904) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NQO2
Synonyms: DHQV; DIA6; NMOR2; QR2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202889 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGTAAGAAAGTACTCATTGTCTATGCACACCAGGAACCAAGTCTTTCAACGGATCCTTGAAGA
ATGTGGCTGTAGATGAAGTGAAGCAGGCAGGGCTGCACCGTCACAGTGTCTGATTTGTATGCCATGAAGT
TGAGCCGAGGGCCACAGACAAAGATATCACTGGTACTCTTCTAATCCTGAGGTTTTCAATTATGGAGTG
GAAACCCACGAAGCCTACAAGCAAAGGTCTCTGGCTAGCGACATCACTGATGAGCAGAAAAAGTTCCGG
AGGCTGACCTAGTGATATTTAGTTCCTGCTGACTGGTTCAGCGTGCCGCCATCCTGAAGGGCTGGAT
GGATAGGGTGTGTGCCAGGGCTTTGCCTTTGACATCCCAGGATTCTACGATTCCGGTTTGTCCAGGGT
AAACTAGCGCTCCTTTCCGTAACCACGGGAGGCACGGCCGAGATGTACACGAAGACAGGAGTCAATGGAG
ATTCTCGATACTTCTGTGGCCACTCCAGCATGGCACATTACACTTCTGTGGATTTAAAGTCTTGCCTCC
TCAGATCAGCTTTGCTCCTGAAATTGCATCCGAAGAAGAAAGAAAGGGGATGGTGGCTGCGTGGTCCAG
AGGCTGCAGACCATCTGGAAGGAAGAGCCATCCCCTGCACAGCCCACTGGCACTTCGGGCAA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_000904.2](#)

RefSeq Size: 1272 bp

RefSeq ORF: 696 bp

Locus ID: 4835

UniProt ID: [P16083](#)

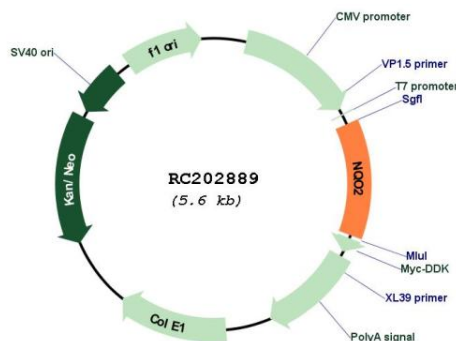
Cytogenetics: 6p25.2

Domains: Flavodoxin_2

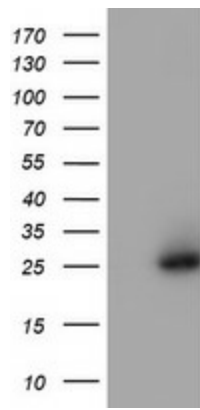
MW: 26 kDa

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]

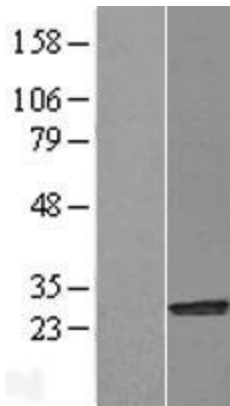
Product images:



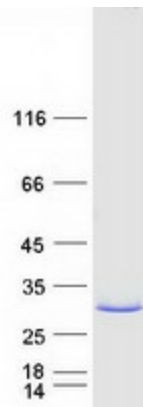
Circular map for RC202889



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NQO2 (Cat# RC202889, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NQO2 (Cat# [TA504781]). Positive lysates [LY424463] (100ug) and [LC424463] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY424463]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202889 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NQO2 protein (Cat# [TP302889]). The protein was produced from HEK293T cells transfected with NQO2 cDNA clone (Cat# RC202889) using MegaTran 2.0 (Cat# [TT210002]).