

Product datasheet for SC319150

NQO2 (NM_000904) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | NQO2 (NM_000904) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NQO2 |
| Synonyms: | DHQV; DIA6; NMOR2; QR2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | <p>>OriGene sequence for NM_000904.1</p> <pre>GATTGCTGGACTCGCTGAAGAGAGACTACGCAGGAAAGCCCCAGCCACCCATCAAATCAG AGAGAAGGAATCCACCTTCTTACGCTATGGCAGGTAAGAAAGTACTCATTGTCTATGCAC ACCAGGAACCCAAGTCTTTCAACGGATCCTTGAAGAATGTGGCTGTAGATGAACTGAGCA GGCAGGGTGCACCGTCACAGTGTCTGATTTGTATGCCATGAACTTTGAGCCGAGGGCCA CAGACAAAGATATCACTGGTACTCTTTCTAATCCTGAGGTTTTCAATTATGGAGTGGAAA CCCACGAAGCCTACAAGCAAAGGTCTCTGGCTAGCGACATCACTGATGAGCAGAAAAAGG TTCCGGGAGGCTGACCTAGTGATATTTTCAGTTCCTGCTGTACTGGTTCAGCGTGCCGGCCA TCCTGAAGGGCTGGATGGATAGGGTGTGTGCCAGGGCTTTGCCTTTGACATCCCAGGAT TCTACGATTCGGTTTGTCCAGGGTAACTAGCGCTCCTTTCCGTAACCCAGGGAGGCA CGGCCGAGATGTACACGAAGACAGGAGTCAATGGAGATTCTCGATACTTCTGTGGCCAC TCCAGCATGGCATTACTTCTGTGGATTTAAAGTCCTTGCCCTCAGATCAGCTTTG CTCCTGAAATTGCATCCGAAGAAGAAAGAAAGGGGATGGTGGCTGCGTGGTCCCAGAGGC TGCAGACCATCTGGAAGGAAGAGCCCATCCCCTGCACAGCCCACTGGCACTTCGGGCAAT AACTCTGTGGCACGTGGGCATCAGTAAGCAGCACACTAGGAGGCCAGGGCGAGGCAAA GAGAAGATGGTGTGTCATGAAATAAAATTACAACATAGCTAAAAAAAAAAAAAAAAAAAA A</pre> |
| Restriction Sites: | Please inquire |
| ACCN: | NM_000904 |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |



[View online »](#)

| | |
|-------------------------------|--|
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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: | <u>NM_000904.1</u> , <u>NP_000895.1</u> |
| RefSeq Size: | 976 bp |
| RefSeq ORF: | 696 bp |
| Locus ID: | 4835 |
| UniProt ID: | <u>P16083</u> |
| Cytogenetics: | 6p25.2 |
| Domains: | Flavodoxin_2 |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (3) lacks three exons in the 5' UTR compared to variant 1. Variants 1, 3, and 4 encode the same protein (isoform 1).</p> |