

Product datasheet for SC119599

NQO1 (NM_000903) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NQO1 (NM_000903) Human Untagged Clone
Tag: Tag Free
Symbol: NQO1
Synonyms: DHQU; DIA4; DTD; NMOR1; NMORI; QR1
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_000903 edited
 GAATTCGGCACGAGGCCCTCGTGCCGAATTCGGCACGAGGTTGCAGCCGGAGCCGCCAGC
 TCACCGAGAGCCTAGTTCCGGCCAGGGTCGCCCGGCAACCACGAGCCAGCCAATCAGC
 GCCCCGACTGCACCAGAGCCATGGTCGGCAGAAGAGCACTGATCGTACTGGCTCACTCA
 GAGAGGACGTCCTTCAACTATGCCATGAAGGAGGCTGCTGCAGCGGCTTTGAAGAAGAAA
 GGATGGGAGGTGGTGGAGTCGGACCTCTATGCCATGAACTTCAATCCCATCATTTCCAGA
 AAGGACATCACAGGTAACTGAAGGACCCTGCGAACTTTCAGTATCCTGCCGAGTCTGTT
 CTGGCTTATAAAGAAGGCCATCTGAGCCCAGATATTGTGGCTGAACAAAAGAAGCTGGAA
 GCCGCAGACCTTGTGATATTCCAGTTCCCCTGCAGTGGTTTGGAGTCCCTGCCATTCTG
 AAAGGCTGGTTTGGAGGAGTTCATAGGAGAGTTTGCTTACACTTACGCTGCCATGAT
 GACAAAGGACCCTCCGGAGTAAGAAGGCAGTGTTCATCACCCTGGTGGCAGTGGC
 TCCATGTACTCTCTGCAAGGGATCCACGGGACATGAATGTCATTCTCTGGCCAATTCAG
 AGTGGCATTCTGCATTTCTGTGGCTTCCAAGTCTTAGAACCTCAACTGACATATAGCATT
 GGGCACACTCCAGCAGACGCCCGAATTCAAATCCTGGAAGGATGGAAGAAACGCCTGGAG
 AATATTTGGGATGAGACACCACTGTATTTGCTCCAAGCAGCCTCTTTGACCTAACTTC
 CAGGCAGGATTCTTAATGAAAAAGAGGTACAGGATGAGGAGAAAAACAAGAAATTTGGC
 CTTTCTGTGGGCCATCACTTGGGCAAGTCCATCCCAACTGACAACCAGATCAAAGCTAGA
 AAATGAGATTCCTTAGCCTGGATTTCTTCTAACATGTTATCAAATCTGGGTATCTTTCC
 AGGCTCCCTGACTTGCTTTAGTTTTTAAGATTTGTGTTTTCTTTTTCCACAAGGAATA
 AATGAGAGGGAATCGACTGTAAA
 ACTCGAC



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000903 unedited</p> <pre> ATCGGGATTTGTAACCGACTTATATAGGCGGCCGCGCAATTCGCACGAGGCCTCGTGCCG AATTTCGGCAGCAGGTTGCAGCCGGAGCCGCCAGCTCACCGAGAGCCTAGTTCGGCCAG GGTCGCCCCGGCAACCACGAGCCAGCCAATCAGCGCCCCGGACTGCACCAGAGCCATGG TCGGCAGAAGAGCACTGATCGTACTGGCTCATTAGAGAGGACGTCTTCAACTATGCCA TGAAGGAGGCTGCTGCAGCGGCTTTGAAGAAGAAAGGATGGGAGGTGGTGGAGTCGGACC TCTATGCCATGAACTTCAATCCCATCATTCCAGAAAGGACATCACAGGTAAGTGAAGG ACCCTGCGAACTTTCAGTATCCTGCCGAGTCTGTTCTGGCTTATAAAGAAGGCCATCTGA GCCAGATATTGTGGCTGAACAAAAGAAGCTGGAAGCCGACACCTTGTGATATTCCAGT TCCCCCTGCAGTGGTTTGGAGTCCCTGCCATTCTGAAAGGCTGGTTTGGAGGAGTGTTC TAGGAGAGTTTGCCTTACACTTACGCTGCCATGTATGACAAAGGACCCCTCCGGAGTAAGA AGGCAGTGCTTTCCATCACCCTGGTGGCAGTGGCTCCATGTACTCTGCAAGGGATCC ACGGNGACATGAATGTCATTCTGGCCAATTCAGAGTGGCATTCTGCATTTCTGTGGCT TCCAAGTCTTAGAACCTCAACTGACATATAGCATTGGGCACACTCCAGCAGACGCCCGAA TTCAAATCCTGGNAGGGATGGAAGAACGCCTGGAGAATATTTGGGATGAGACCCACTGT ATTTTGCTCCNAGCAGCCTCTTTGACCTANACTCCCAGNCAGGATTCTTAATGAAAAA GAAGTACAGGATGC </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000903 unedited</p> <pre> GGCCGCAATCTAGAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TAACAGGCGATTCCCTCTCATTTATTCCTTGGGGAAAAAAAAAACACAAATCTTAAAAA CTAAAGCAAGTCAGGGAACCCTGAAAAGATACCCAAATTTGATAACATGTTAAAAGGAAA TCCAGGCTAAGGAATCTCATTCTTAGCTTTGATCTGGTTGTCAGTTGGGATGGACTTGC CCAAGTATGGCCCAAAAAGGCCAAATTTCTGTTTTTCTCCTCATCCTGTACCTTTT TTTTTATTAAAAATCCTGCCTGGAAGTTTAGGTCAAAAAGGCTGCTTGGAGCAAAATACA GGGGGGTCTATCCCAAATATTCTCCAGGCGTTTCTCCATCCTTCCAGGATTTGAATTC GGGCGTCTGCTGGAGTGTGCCAATGCTATATGTCAGTGGAGGTTCTAAAAGTGGAAAGC CACAGAAATGCAAAATGCCACTCTGAATTGGCCAAAAATGACATTATGTCCTCCGTTGGA TCCCTTGCAAAGAGTACATGGAGCCACTGCCACCAGTGGTATGGAAAGCACTGCCTTCT TACTCCGGAAGGGTCTTTGTATACATGGCAGCGTAAGTGTAAAGCAACTCTCCTATGA ACACTCGCTCAAACCAGCCTTTTACAGCTTCTTTTGTTCACCCACAATATCTGGGCTCANA GAATTCACAAGGTCTGCGGCTTACAGCTTCTTTTGTTCACCCACAATATCTGGGCTCANA TGGCCTTCTTTTAAAGCAAAACAGACTCGGCAGATACTTGAAGTGCAGGGCCCTTAGTTA CCTGGATGNCCTTCTGAAAGATGGGATTGAGTTATGCCTANAGGCCGACTCCACCTTC ATCTTTTTTAAAGCGCTGAGACCCTCTATGATTAATGAAGACGTCTTTTAGGAG </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000903
Insert Size:	1120 bp
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).
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_000903.2 , NP_000894.1
RefSeq Size:	2601 bp
RefSeq ORF:	825 bp
Locus ID:	1728
UniProt ID:	P15559
Cytogenetics:	16q22.1
Domains:	Flavodoxin_2
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. This protein's enzymatic activity prevents the one electron reduction of quinones that results in the production of radical species. Mutations in this gene have been associated with tardive dyskinesia (TD), an increased risk of hematotoxicity after exposure to benzene, and susceptibility to various forms of cancer. Altered expression of this protein has been seen in many tumors and is also associated with Alzheimer's disease (AD). Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>