

Product datasheet for **SC105922**

NQO1 (BC000906) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NQO1 (BC000906) Human Untagged Clone
Tag:	Tag Free
Symbol:	NQO1
Synonyms:	DHQU; DIA4; DTD; NMOR1; NMORI; QR1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF:

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>OriGene sequence for BC000906 edited
GAATTCGGCACGAGGACCCAGGATTCAGGCGTTGGTCCCGCCCTTGTAGGCTGTCCAC
CTCAAACGGGCCGGACAGGATATATAAGAGAGAATGCACCGTGCCTACACACGCGACTC
CCACAAGTTTGCAGCCGGAGCCGCCAGCTCACCAGAGAGCCTAGTTCCGGCCAGGGTCGC
CCCGGCAACCACGAGCCAGCCAATCAGCGCCCGGACTGCACCAGAGCCATGGTCGGCA
GAAGAGCACTGATCGTACTGGCTCACTCAGAGAGGACGTCCTTCAACTATGCCATGAAGG
AGGCTGTCAGCGGCTTTGAAGAAGAAAGGATGGGAGGTGGTGGAGTCGGACCTCTATG
CCATGAACTTCAATCCCATCATTTCAGAAAGGACATCACAGGTAAGTAAAGGACCCCTG
CGAACTTTCAGTATCCTGCCGAGTCTGTTCTGGCTTATAAAGAAGGCCATCTGAGCCAG
ATATTGTGGTGAACAAAAGAAGCTGGAAGCCGACAGCCTTGTGATATCCAGTCCCCC
TGCAGTGGTTTGGAGTCCCTGCCATTCTGAAAGGCTGGTTTGGAGGAGTTCATAGGAG
AGTTTGTCTACACTTACGCTGCCATGTATGACAAAGGACCCTCCGGAGTAAGAAGGCAG
TGCTTCCATCACCCTGGTGGCAGTGGCTCCATGACTCTGCAAGGGATCCACGGGG
ACATGAATGTCATTCTCTGGCAATTCAGAGTGGCATTCTGCATTTCTGTGGCTTCCAAG
TCTTAGAACCTCAACTGACATATAGCATTGGGCACACTCCAGCAGACGCCGAATTCAA
TCTGGAAGGATGGAAGAAGCCCTGGAGAATATTTGGGATGAGACACCCTGTATTTTG
CTCCAAGCAGCCTCTTTGACCTAAACTTCCAGGCAGGATTCTTAATGAAAAAGAGGTAC
AGGATGAGGAGAAAAACAAGAAATTTGGCCTTTCTGTGGGCCATCACTTGGGCAAGTCCA
TCCCAACTGACAACAGATCAAAGCTAGAAAAATGAGATTCCTTAGCCTGGATTTCCCTTCT
AACATGTTATCAAATCTGGGTATCTTTCCAGGCTTCCCTGACTTGCTTTAGTTTTAAGA
TTTGTGTTTTTCTTTTCCACAAGGAATAAATGAGAGGGAATCGACTGTATTCGTGCATT
TTTGGATCATTTTTAACTGATTTATGATTACTATCATGGCATATAACCAAAAATCCGAC
TGGGCTCAAGAGGCCACTTAGGGAAAGATGTAGAAAGATGCTAGAAAAATGTTCTTTAA
GGCATCTACACAATTTAATTCCTCTTTTTAGGGCTAAAGTTTTAGGGTACAGTTTGGCTA
GGTATCATTCAACTCTCAATGTTCTATTAATCACCTCTCTGTAGTTTATGGCAGAAAGG
AATTGCTCAGAGAAGGAAAAGACTGAATCTACCTGCCCTAAGGGACTTAACTTGTGGT
AGTTAGCCATCTAATGCTTGTATGATATTTCTTGCTTTCAATTACAAAGCAGTTACTA
ATATGCCTAGCACAAAGTACCCTTGGTCAGCTTTTGTGTTTATACAGTACACAGA
TACCTTGAAGGAAGAGCTAATAAATCTCTTCTTGTGCAGTCACTACTTTTTTTTTTA
ATTAAAAAAATTTTTTTTTGAAGCAGTCTTGCTCTGTTACCCAGGCTGGAGTGCAGTGG
TGTGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTCCAGCAATTCTCCTGCCTCAGC
CTCCCTAGTAGCTGGGATGACAGGCGCCTGCCATCATGCCTGACTAATTTTTGTATTTT
AGTAGAGACGGGCTTTCACCATGTTGGCCAGGCTGGTCTCAAACCTCTGACCTCAGGTGA
TCCGCCTACCTCAGCCTCCCAAAGTGTGGGATTACAGGCGTGATCCACCACACCTGGCC
CTTGCAATCTTCTACTTTAAGGTTTGCAGAGATAAACCAATAAATCCACACCGTACATCT
GCAATATGAATTAAGAAAGGAAATAGTACCTCAATACTTAAAAATAGTCTTCCACAAA
AAATACTTTATTTCTGATCTATACAAATTTTTCAGAAAGTTATTTTCTTTATCATTGCTAA
ACTGATGACTTACCATGGGATGGGGTCCAGTCCCATGACCTTGGGGTACAATTGTAACCC
TAGAGTTTTATCAACTTTGGTGAACAGTTTTGGCATAATAGTCAATTTCTACTTCTGGAA
GTCATCTCATTCCACTGTTGGTATTATATAATTCAAGGAGAATATGATAAAACACTGCC
TCTTGTGGTGCATTGAAAGAAGAGATGAGAAATGATGAAAAGGTTGCCTGAAAAATGGGA
GACAGCCTCTTACTTGCCAAGAAAATGAAGGATTGGACCGAGCTGAAAAACCTCCTTTA
CCAGATGCTGACTGGCACTGGTGGTTTTTGTCTCTGCAGATATCCACAATAGCTGACGGC
TGGGTGTTTCAGTTTAAAAATTTTTGTTGCCTTCATCTTCACTGCAATTTTGTGTAAT
TTCTCAAAGATCTGAATTAATAAATAAAATTCATTTCTACAGACCCACAAAAA
AAAAAACTCGAC
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC000906 unedited AATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGACCCAGNATTCAGGCGTT GGGTCCC GCCCTTGTAGGCTGTCCACCTCAAACGGGCCGGACAGGATATAAAGAGAGAA TGCACCGTGCCTACACACGCGACTCCCACAAGTTGCAGCCGGAGCCGCCAGCTCACC GAGAGCCTAGTTCCGGCCAGGGTCGCCCCGGCAACCACGAGCCAGCCAATCAGCGCCCC GGACTGCACCAGAGCCATGGTCGGCAGAAGAGCACTGATCGTACTGGCTCACTCAGAGAG GACGCTTCAACTATGCCATGAAGGAGGCTGCTGCAGCGGCTTTGAAGAAGAAAGGATG GGAGGTGGTGGAGTCGGACCTCTATGCCATGAACCTCAATCCCATCATTTCAGAAAGGA CATCACAGGTAAGTGAAGGACCTGCGAACTTTCAGTATCCTGCCGAGTCTGTTCTGGC TTATAAAGAAGGCCATCTGAGCCAGATATTGTGGCTGAACAAAAGAAGCTGGAAGCCGC AGACCTTGTGATATTCCAGTTCCCCTGCAGTGGTTGGAGTCCCTGCCATTCTGAAAGG CTGTTTGGAGCGAGTGTTCATAGGAGAGTTTGCTTACACTTACGCTGCCATGTATGACAA AGGACCTTCCGGAGTAAGAAAGCAGTGTTCATCACCCTGGTGGCAGTGGCTCCAT GTACTCTGTCNAGGGGATCCACGGGACCATGAATGTCATTCTCTGGCCATTGAGAAGT GCATTCTGCAATTTCTGTGGCTTCCAGTCTTANAACCCTCACTGACATATAGCATTGGG CACACTNCAAGCAGACGGCCGATTCAATCCTGNNAGGNATGGAGAAACGCTGNAGAATATT TGGGATGAGACACTGTATTNTTGCTCAGCAGNCTTTGACTAACTNNCAGCNGATCT ATGNAAAAAAGGCCGGGTGAGAGAAACAGAAA
Restriction Sites:	NotI-NotI
ACCN:	BC000906
Insert Size:	2700 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:	BC000906.2
RefSeq Size:	974 bp
RefSeq ORF:	974 bp
Locus ID:	1728
Cytogenetics:	16q22.1
Protein Families:	Druggable Genome

Gene Summary:

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]