

## Product datasheet for **SC302402**

### **NQO1 (NM\_001025433) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NQO1 (NM_001025433) Human Untagged Clone
Tag:	Tag Free
Symbol:	NQO1
Synonyms:	DHQU; DIA4; DTD; NMOR1; NMORI; QR1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_001025433 edited CAAGGTTGCAGCCGGAGCCGCCAGCTCACCGAGAGCCTAGTTCGGGCCAGGGTCGCCCC GGCAACCACGAGCCAGCCAATCAGCGCCCCGGACTGCACCAGAGCCATGGTCGGCAGAA GAGCACTGATCGTACTGGCTCACTCAGAGAGGAGTCCTTCAACTATGCCATGAAGGAGG CTGCTGCAGCGGCTTTGAAGAAGAAAGGATGGGAGGTGGTGGAGTCGGACCTCTATGCCA TGAACCTCAATCCCATCATTTCCAGAAAGGACATCACAGGTAACTGAAGGACCTGCGA ACTTTTCAGTATCCTGCCGAGTCTGTTCTGGCTTATAAAGAAGGCCATCTGAGCCAGATA TTGTGGCTGAACAAAAGAAGCTGGAAGCCGCAGACCTTGTGATATTCCAGTTCCCCTGC AGTGGTTTGGAGTCCCTGCCATTCTGAAAGGCTGGTTTGAGCGAGTGTCATAGGAGAGT TTGCTTACACTTACGCTGCCATGTATGACAAAGGACCTTCCGGAGTGGCATTCTGCATT TCTGTGGCTTCCAAGTCTTAGAACCTCACTGACATATAGCATTGGGCACACTCCAGCAG ACGCCCGAATTCAAATCCTGGAAGGATGGAAGAAACGCCTGGAGAATATTTGGGATGAGA CACCACGTATTTTGTCCAAGCAGCCTCTTTGACCTAAACTTCCAGGCAGGATTCTTAA TGAAAAAGAGGTACAGGATGAGGAGAAAAACAAGAAATTTGGCCTTTCTGTGGGCCATC ACTTGGGCAAGTCCATCCCAACTGACAACCAGATCAAAGCTAGAAAAATGAGATTCCTTAG CCTGGATTTCTTCTAACATGTTATCAAATCTGGGTATCTTTCCAGGCTTCCCTGACTTG CTTTAGTTTTTAAGATTTGTGTTTTTCTTTTTCCACAAGGAATAAATGAGAGGGAATCGA CAAAAAAAAAAAAAAAAAA
Restriction Sites:	ECORI-NOT
ACCN:	NM_001025433
Insert Size:	1000 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001025433.1.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001025433.1</a></u> , <u><a href="#">NP_001020604.1</a></u>
<b>RefSeq Size:</b>	2499 bp
<b>RefSeq ORF:</b>	723 bp
<b>Locus ID:</b>	1728
<b>UniProt ID:</b>	<u><a href="#">P15559</a></u>
<b>Cytogenetics:</b>	16q22.1
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<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 (2) lacks an alternate in-frame exon, compared to variant 1. The resulting protein (isoform b) is shorter than isoform a.</p>