

Product datasheet for RC200620

NQO1 (NM_000903) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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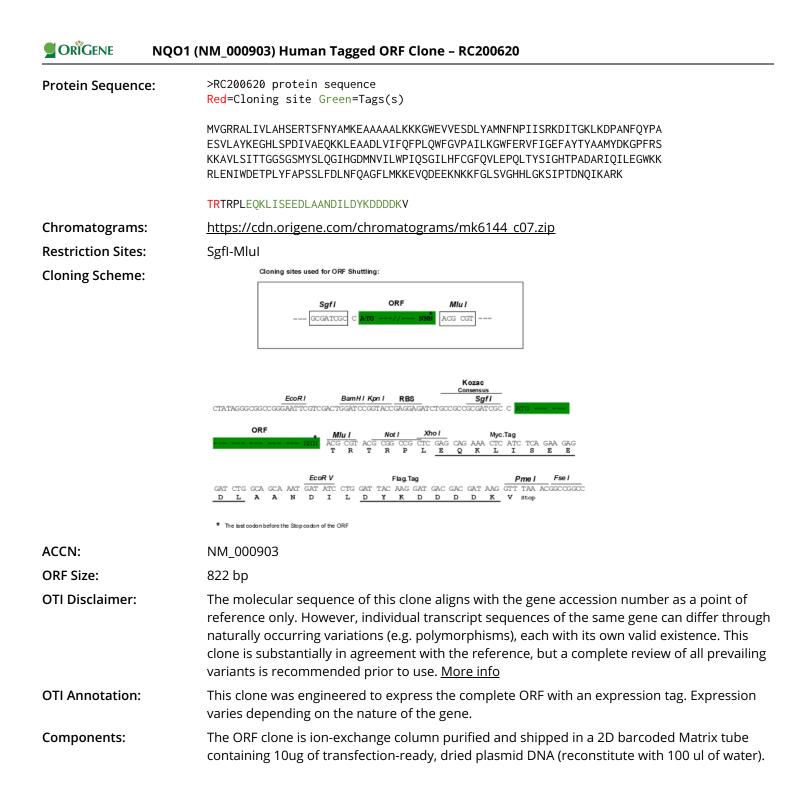
Product Type:	Expression Plasmids
Product Name:	NQO1 (NM_000903) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NQO1
Synonyms:	DHQU; DIA4; DTD; NMOR1; NMORI; QR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC200620 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGGTCGGCAGAAGAGCACTGATCGTACTGGCTCACTCAGAGAGGACGTCCTTCAACTATGCCATGAAGG AGGCTGCTGCAGCGGCTTTGAAGAAGAAAGGATGGGAGGTGGTGGAGTCGGACCTCTATGCCATGAACTT CAATCCCATCATTTCCAGAAAGGACATCACAGGTAAACTGAAGGACCCTGCGAACTTTCAGTATCCTGCC GAGTCTGTTCTGGCTTATAAAGAAGGCCATCTGAGCCCAGATATTGTGGCTGAACAAAAGAAGCTGGAAG CCGCAGACCTTGTGATATTCCAGTTCCCCCTGCAGTGGTTTGGAGTCCCTGCCATTCTGAAAGGCCGTGGT TGAGCGAGTGTTCATAGGAGAGTTTGCTTACACTTACGCTGCCATGTATGACAAAGGACCCTTCCGGAGT AAGAAGGCAGTGCTTTCCATCACCACTGGTGGCGCGTGCCATGTATGACAAAGGACCCTTCCGGAGT CAACTGACTGTCCTCTGGCCATTCAGAGTGGCCTCCATGTATGACAAAGGACCCTTCCGGAGG ACATGAATGTCATTCTCTGGCCAATTCAGAGTGGCATTCTGCATTCTGTGGCTTCCAAGTGAAGAA CGCCTGGAGAATATTGGGCACACTCCAGCAGACGCCCGAATTCAAATCCTGGAAGGATGGAAGAA CGCCTGGAGAATATTTGGGATGAGACACCACTGTATTTTGCTCCAAGCAGCCTCTTTGACCTAAACTTCC AGGCAGGATTCTTAATGAAAAAGAGGTACAGGATGAGGAGAAAAACAAGAAATTTGGCCTTTCTGTGGG CCATCACTTGGGCAAGTCCATCCCAACTGACAACCAGATCAAAGCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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ORIGENE NQO1 (NM_000903) Human Tagged ORF Clone – RC200620

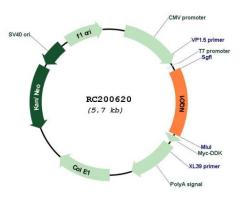
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 000903.3</u>
RefSeq Size:	2601 bp
RefSeq ORF:	825 bp
Locus ID:	1728
UniProt ID:	<u>P15559</u>
Cytogenetics:	16q22.1
Domains:	Flavodoxin_2
Protein Families:	Druggable Genome
MW:	30.9 kDa
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]

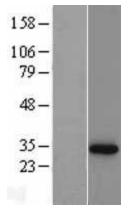
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Product images:



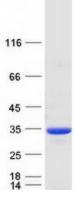
Circular map for RC200620



Western blot validation of overexpression lysate (Cat# [LY400327]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200620 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified NQO1 protein (Cat# [TP300620]). The protein was produced from HEK293T cells transfected with NQO1 cDNA clone (Cat# RC200620) using MegaTran 2.0 (Cat# [TT210002]).

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