

## Product datasheet for **SC117270**

### NDUFC2 (NM\_004549) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFC2 (NM_004549) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFC2
Synonyms:	B14.5b; CI-B14.5b; HLC-1; NADHDH2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117270 sequence for NM_004549 edited (data generated by NextGen Sequencing) ATGATCGCACGGCGGAACCCAGAACCCCTTACGGTTTCTGCCGGATGAGGCCCGGAGCCTG CCCCCGCCAAGCTGACCGACCCGCGGCTCCTCTACATCGGCTTCTTGGGCTACTGCTCC GGCCTGATTGATAACCTGATCCGGCGGAGGCCGATCGCGACGGCTGGTTTGCATCGCCAG CTTCTATATTACGGCCTTTTTTTTTGCTGGATATTATCTTGTAAAACGTGAAGACTAC CTGTATGCTGTGAGGGACCGTAAATGTTTGGATATATGAAATTACATCCAGAGGATTTT CCTGAAGAAGATAAGAAAACATATGGTAAATTTTTGAAAATTCATCCAATACGTTGA
	Clone variation with respect to NM_004549.5 138 a=>g



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004549 unedited  CAAATTTTGTAAACGACTCACTATAGGGCGGCCGCGNATTCGGCACGAGGCAGAGGAGG  AGGAGAAAGCTGACCGCTTAGGCCCGGGTAGTGGTCGTGCTGGTTTTCTTGTAGTTCGT  GGTCTGAGACCAGGCCTCAAGTGGAAACGGCGTCACCATGATCGCACGGCGGAACCCAGA  ACCCTTACGGTTTCTGCCGGATGAGGCCCGGAGCCTGCCCCGCCAAGCTGACCGACCC  GCGGCTCCTCTACATCGGCTTCTTGGGCTACTGCTCCGGCCTGATTGATAACCTGATCCG  GCGGAGGCCGATCGCGACGGCTGGTTTGCATCGCCAGCTTCTATATATTACGGCCTTTTT  TTTTGCTGGATATTATCTTGTAAAACGTGAAGACTACCTGTATGCTGTGAGGGACCGTGA  AATGTTTGGATATATGAAATTACATCCAGAGGATTTTCTGAAGAAGATAAGAAAACATA  TGGTGAATTTTTGAAAAATCCATCCAATACGTTGAAGTCTTAAAAATGCTTGCTCCAG  TTTCACTGATACCTGCTGTTTCTGAATTTGATGGAACATGTTTCTTATGACAGTTGAAGC  TTATGCTAATCTGTATGTTGACACCTTGAATTAATAACGTACCATGAGTACTCTGACT  CTTTATTGTTGAAGAAAAATAGTTCATCATCAGAGAATGGTCAGTTTCCATTACCCAT  CTGAAAGATTNTAAGATGAGGTTGAATTCTAGTTTAGAGTTAGCAGACTACCCAAATCTG  GCCCACTGCCAANTAAGTCTCATTGGGACACAGCCATGCTCATTGTTTACATGTNGNTT  ATGGCGACTGCCATGCTGCGAACAAGAATGAGTAGNTGTGATAGAGACTATGGGCCTGCA  ACCTAATNATATGTAGCCCTTAAAAAGGTNTGCCTGCCCTGTCTATGCAA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004549 unedited  TAGAGTCGAGTTTTTTTTTTTTTTTTTTTGTATTTGTACATCTTTATTATTCTAAAGCAC  TTTCTCAACCTAATTTCAAGTTTTTACAATTGGTACTCAAGAAAATAGAGACAGAAATCA  TTTGATTTTGGCCAGAAACCATGCTTATATTTATAAGGCCACCTAATTTGAAATCACA  TATAGACCAGGCGCGGTGGCTCACGCCTGTAATCCAACACTTTGGAAGGCCAAGGCAGG  TGGATCACAAGGTCAAGAGATTGAGACCATTTGGCCAACATGGTGAAACCCCGTCTGCA  CTAAAAACCAAAAAATCACCTGGGCGTCTGGTATGCCCCCGTATTTTTACCCACTTC  GGCAGGCTGTGCTCGCATACCCCTCTGTCCCCTTAGCCCCGGTCTCCCGTTCCCCCCC  GCCCCCTGAACTAACCCCGTTTACCCTTTTCTACGCCCTTCTCTTTCCCTTTTCCCTC  CCTTCCCTTTCCCTTTCCCGTTCTTCTTTCTTCCCTCCCGATTCTATCTCCCCCA  TTCCCATCCCCATTCTTTTTTTCCCTCCCATCCCCTTCCCCCCTTACTTATACCA  CATCCCCCCTCACTACCGTTCCCTCCTTTTATCCACCTTCTTCCCTGTCTCTCTCAC  TCTATCCCATCCCCCCTATCCCTTTCCCTTCCCTCCATCCATTCTTTCCCTCCCCCT  CTCGATCTCTTTTTTGTCCCTCTTCCCTCCTTTCTCTTTTTTCTTCCCCCCTTTTTT  TTCCCTTTTCCCTCCTTCCCCCGCTCTCCTTCCCTCCCTTTTTCCCGCCTTCTCGTT  TTCTTGTTCCTTCCCCCTCCCCCAATGCCTTTGTCCCCTCTTCTCCCATCCCTCAT  ATCCCTTCGCCATTTTTCTCCATTATCCGCGCCTCCCTCTCCCTCTTCTCTCCCTCA  TGTCCCCAATCCTTAATCCGTCAACCGCTCACGCCACTATTCTCTTCCCATCTCCTTTC  CC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004549
<b>Insert Size:</b>	2190 bp
<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>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_004549.3</a></u> , <u><a href="#">NP_004540.1</a></u>
<b>RefSeq Size:</b>	2159 bp
<b>RefSeq ORF:</b>	360 bp
<b>Locus ID:</b>	4718
<b>UniProt ID:</b>	<u><a href="#">O95298</a></u>
<b>Cytogenetics:</b>	11q14.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>Gene Summary:</b>	<p>Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>