

Product datasheet for **SC329602**

NDUFB5 (NM_001199958) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFB5 (NM_001199958) Human Untagged Clone
Tag: Tag Free
Symbol: NDUFB5
Synonyms: CISGDH; SGDH
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC329602 representing NM_001199958.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGCGCCATGAGTTTGTTCGGCGGGTTTCGGTACTGCGGTGGCAGCTCTGTCTGGCCGCCCTT
 GGCCTCGCTCGGATTTGGGGCTTCTCACTCGTGGCTTCCGAAGGCTGCTGCTCTGTTCGACAC
 AGTGGAGACCATGGAAAAGACTATTTGTCATCAGACCTCTAGATTCTATGACAGGCGTTTTTGAAG
 TTATTGAGATTCTACATTGCATTGACTGGGATTCCAGTAGCAATTTTCATAACTCTGGTGAATGTATTC
 ATTGGTCAAGCTGAAGTGCAGAAATCCAGAAGGCTATGTCCAGAACACTGGGAATATTATAAGGT
 AAAGGAGCTGGAAGTGCAGAAATTTGATGCATGTGAGAGGAGATGGACCCTGGTATTACTATGA

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001199958



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Insert Size:	408 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:	<u>NM_001199958.1</u>
RefSeq Size:	969 bp
RefSeq ORF:	408 bp
Locus ID:	4711
UniProt ID:	<u>O43674</u>
Cytogenetics:	3q26.33
Protein Families:	Transmembrane
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW:	15 kDa
Gene Summary:	<p>The protein encoded by this gene is a subunit of the multisubunit NADH:ubiquinone oxidoreductase (complex I). Mammalian complex I is composed of 45 different subunits. It locates at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]</p> <p>Transcript Variant: This variant (3) lacks an alternate coding exon compared to variant 1, that causes a frameshift. The resulting isoform (3) has a shorter and distinct C-terminus compared to isoform 1.</p>