

Product datasheet for **SC317226**

NDUFB1 (NM_004545) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFB1 (NM_004545) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFB1
Synonyms:	CI-MNLL; CI-SGDH; MNLL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317226 representing NM_004545. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGATTTGCTGGCGTCACCCCTCTGCTCCGTGCGGGCGCGGCGAATGGCAGGTCCCGAGGTGCGAGCTT
CCACTGGCGGGGTTGAGTTCCTGTTGCCCTTGGTCTCGGGGTGCTGTAGGCGCTGAGGCTGCAGCT
ATCATGGTGAACCTACTTCAGATTGTGCGGGACCACTGGGTTTCATGTTCTTGTCCCTATGGGATTTGTC
ATTGGATGTTATTTAGACAGAAAGAGTGATGAACGGCTAACTGCCTTCCGGAACAAGAGTATGTTATTT
AAAAGGGAATTGCAACCCAGTGAAGAAGTTACCTGGAAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul

Plasmid Map:

ACCN: NM_004545

Insert Size: 318 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).



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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_004545.3
RefSeq Size:	433 bp
RefSeq ORF:	318 bp
Locus ID:	4707
UniProt ID:	O75438
Cytogenetics:	14q32.12
Protein Families:	Transmembrane
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
MW:	11.9 kDa
Gene Summary:	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]