

## Product datasheet for **SC320828**

### NDUFS4 (NM\_002495) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFS4 (NM_002495) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFS4
Synonyms:	AQDQ; CI-18; CI-18 kDa; CI-AQDQ; MC1DN1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_002495.1  
ATCCTGGCGTTTTGCCTGCAGCAAGATGGCGGCGGTCTCAATGTCAGTGGTACTGAGGCAG  
ACGTTGTGGCGGAGAAGGGCAGTGGCTGTAGCTGCCCTTCCGTTTCCAGGGTCCGACC  
AGGTCGTTGAGGACTTCCTCATGGAGATTGGCACAGGACCAGACTCAAGACACAACACTC  
ATAACAGTTGATGAAAAATTGGATATCACTACTTTAACTGGCGTTCAGAAAGAGCATATA  
AAAAGTAGAAAAGTCAGGATCTTTGTTCTGCTCGCAATAACATGCAGTCTGGAGTAAAC  
AACACAAAGAAATGGAAGATGGAGTTTGATACCAGGGAGCGATGGGAAAAATCCTTTGATG  
GGTTGGGCATCAACGGCTGATCCCTTATCCAACATGGTTCTAACCTTCAGTACTAAAGAA  
GATGCAGTTTCTTTGCAGAAAAAATGGATGGAGCTATGACATTGAAGAGAGGAAGGTT  
CCAAAACCAAGTCCAAGTCTTATGGTGCAAACCTTTCTTGAACAAAAGAACAAGAGTA  
TCCACAAAATAGTTGGCACTGACTATATCTCTGCTTGACTGTGAATAAAGTCAGCTATG  
CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_002495

**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).

**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.



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<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_002495.1</a></u> , <u><a href="#">NP_002486.1</a></u>
<b>RefSeq Size:</b>	668 bp
<b>RefSeq ORF:</b>	528 bp
<b>Locus ID:</b>	4724
<b>UniProt ID:</b>	<u><a href="#">O43181</a></u>
<b>Cytogenetics:</b>	5q11.2
<b>Domains:</b>	ETC_CI_21
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>Gene Summary:</b>	<p>This gene encodes an nuclear-encoded accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (complex I, or NADH:ubiquinone oxidoreductase). Complex I removes electrons from NADH and passes them to the electron acceptor ubiquinone. Mutations in this gene can cause mitochondrial complex I deficiencies such as Leigh syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>