OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC320283

NDUFS2 (NM_004550) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFS2 (NM_004550) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFS2
Synonyms:	CI-49; MC1DN6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

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>OriGene sequence for NM_004550.3
GCCCCAGGAGAGGCAGAGAGTGAGGGAAAGGGCCTGGCCGGCATGCACAGATAGGATCAC
GGTCCTGGGAGAATTCCTGCTCTTATAGTCTAACCTACCATGGCTTCTCTTTTCTCAAGG
CTCCCTCATGCTGCCCTTTGGCCCTAGTGGCTGGTTTCCAGGGCTGAGGGGACTGAGTGA
GCTGCCTGAGAAAAGAGGGTAGGGAACAGAAAAGCCAGCCAGGAGCTGTGGGAGGAAACG
CCCTCAGTAAAGATGACCGCGGTCACTGTTATCTAAACGCAAGTGAAGCCGAGTCACAGG
ACCCGGATGTTGTCAGTTCGACGGTAAACGACCCTGCCAGCTTCCAAGAGGGCGGCTTCA
CTGTGCGAATAGGTGAGAAGCCAAGAAGGAGGCGCGCTGGAGTTACTTCCGCCCGGTTCT
CCTTCCCGCAGTCTGCAGCCGGAGTAAGATGGCGGCGCTGAGGGCTTTGTGCGGCTTCCG
GGGCGTCGCGGCCCAGGTGCTGCGGCCTGGGGCTGGAGTCCGATTGCCGATTCAGCCCAG
CAGAGGTGTTCGGCAGTGGCAGCCAGATGTGGAATGGGCACAGCAGTTTGGGGGAGCTGT
TATGTACCCAAGCAAAGAAACAGCCCACTGGAAGCCTCCACCTTGGAATGATGTGGACCC
TCCAAAGGACACAATTGTGAAGAACATTACCCTGAACTTTGGGCCCCAACACCCAGCAGC
GCATGGTGTCCTGCGACTAGTGATGGAATTGAGTGGGGAGATGGTGCGGAAGTGTGATCC
TCACATCGGGCTCCTGCACCGAGGCACTGAGAAGCTCATTGAATACAAGACCTATCTTCA
GGCCCTTCCATACTTTGACCGGCTAGACTATGTGTCCATGATGTGTAACGAACAGGCCTA
TTCTCTAGCTGTGGAGAAGTTGCTAAACATCCGGCCTCCTCCTCGGGCACAGTGGATCCG
AGTGCTGTTTGGAGAAATCACACGTTTGTTGAACCACATCATGGCTGTGACCACACATGC
CCTGGACCTTGGGGCCATGACCCCTTTCTTCTGGCTGTTTGAAGAAAGGGAGAAGATGTT
TGAGTTCTACGAGCGAGTGTCTGGAGCCCGAATGCATGCTGCTTATATCCGGCCAGGAGG
AGTGCACCAGGACCTACCCCTTGGGCTTATGGATGACATTTATCAGTTTTCTAAGAACTT
CTCTCTTCGGCTTGATGAGTTGGAGGAGTTGCTGACCAACAATAGGATCTGGCGAAATCG
GACAATTGACATTGGGGTTGTAACAGCAGAAGAAGCACTTAACTATGGTTTTAGTGGAGT
GATGCTTCGGGGCTCAGGCATCCAGTGGGACCTGCGGAAGACCCAGCCCTATGATGTTTA
CGACCAGGTTGAGTTTGATGTTCCTGTTGGTTCTCGAGGGGACTGCTATGATAGGTACCT
GTGCCGGGTGGAGGAGATGCGCCAGTCCCTGAGAATTATCGCACAGTGTCTAAACAAGAT
GCCTCCTGGGGAGATCAAGGTTGATGATGCCAAAGTGTCTCCACCTAAGCGAGCAGAGAT
GAAGACTTCCATGGAGTCACTGATTCATCACTTTAAGTTGTATACTGAGGGCTACCAAGT
TCCTCCAGGAGCCACATATACTGCCATTGAGGCTCCCAAGGGAGAGTTTGGGGTGTACCT
GGTGTCTGATGGCAGCAGCCGCCCTTATCGATGCAAGATCAAGGCTCCTGGTTTTGCCCA
TCTGGCTGGTTTGGACAAGATGTCTAAGGGACACATGTTGGCAGATGTCGTTGCCATCAT
AGGTACCCAAGATATTGTATTTGGAGAAGTAGATCGGTGAGCAGGGGAGCAGCGTTTGAT
CCCCCCTGCCTATCAGCTTCTTCTGTGGAGCCTGTTCCTCACTGGAAATTGGCCTCTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTGTATGTTCGTGTACACTTGGCTGTCAGGCTTTC
TGTGCATGTACTAAAAAAGGAGAAATTATAATAAATTAGCCGTCTTGCGGCCCCTAGGCC
TAAAAAAAAAAAAAAAAAAAA
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Restriction Sites: Please inquire

ACCN: NM_004550

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.

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:	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_004550.3, NP_004541.1
RefSeq Size:	2061 bp
RefSeq ORF:	1392 bp
Locus ID:	4720
UniProt ID:	O75306
Cytogenetics:	1q23.3
Domains:	complex1_49Kd
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary:	The protein encoded by this gene is a core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (complex I). Mammalian mitochondrial complex I is composed of at least 43 different subunits, 7 of which are encoded by the mitochondrial genome, and the rest are the products of nuclear genes. The iron-sulfur protein fraction of complex I is made up of 7 subunits, including this gene product. Complex I catalyzes the NADH oxidation with concomitant ubiquinone reduction and proton ejection out of the mitochondria. Mutations in this gene are associated with mitochondrial complex I deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Oct 2009] Transcript Variant: This variant (1) encodes the longer isoform (1).