

Product datasheet for **SC125446**

NDUFS3 (NM_004551) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFS3 (NM_004551) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFS3
Synonyms:	CI-30; MC1DN8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125446 sequence for NM_004551 edited (data generated by NextGen Sequencing)

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ATGGCGGCGCGCGGCTAGCCAGGCTGTGGTGGCGCGGGATCTTGGGGCCTCGGCGCTG
ACCCAGGGGACTGGGCGACCCCTCCGTTCTGTTGCTGCCGGTGAGGCGGGAGAGCGCCGGG
GCCGACACGCGCCCACTGTGACACCACGGAATGATGTGGCCACAAGCAGCTCTCAGCT
TTTGGAGAGTATGTGGCTGAAATCTTGCCCAAGTATGTCCAACAAGTTCAGGTGCTCCTGC
TTCAATGAGTTAGAGGTCTGTATCCATCCTGATGGCGTCATCCCAGTGCTGACTTTCCTC
AGGGATCACACCAATGCACAGTTCAAATCTCTGGTTGACTTGACAGCAGTGGACGTCCTCA
ACTCGGCAAAACCGTTTTGAGATTGTCTACAACCTGTTGTCTCTGCGCTTCAACTCACGG
ATCCGTGTGAAGACCTACACAGATGAGCTGACGCCATTGAGTCTGCTGTCTCTGTGTTT
AAGGCAGCCAACCTGGTATGAAAGGGAGATCTGGGACATGTTTGGAGTCTTCTTTGCTAAC
CACCTGATCTAAGAAGGATCCTGACAGATTATGGCTTCGAGGGACATCCTTTCCGAAA
GACTTTCCTCTATCTGGCTATGTTGAGTTACGTTATGATGATGAAGTGAAGCGGGTGGTG
GCAGAGCCGGTGGAGTTGGCCCAAGAGTTCGCAAAATTTGACCTGAACAGCCCCTGGGAG
GCTTTCAGTCTATCGCCAACCCCGGAGAGTCTCAAGCTTGAAGCCGGAGACAAGAAG
CCTGATGCCAAGTAG
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Clone variation with respect to NM_004551.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004551 unedited
TTCAGGATATTTGTAATACCACTTTCTTATAGGGCGGCACACCACTTCCGCACGAGGGGT
CCGTGCCTTTGGGGCTCCGTGTCCTGCTGCTTTCCGTCCGCTGCCTAATCTGCATCTGA
GTAACATGGCGGGCGGGCGGTAGCCAGGCTGTGGTGGCGGGGATCTTAGGGCCCTCGG
CGCTGACCAGGGGACTGGGCGACCCTCCGTTCTGTTGCTGCCGGTGAGGCGGGAGAGCG
CCGGGGGGGAGACGCGCCCTTTGTTTACCACGGAATGATGTGGCCACAAGCAGCTCTC
AGCTTTTGGAGAGTATGTGGCTGAAATCTTGCCCAAGTATGTCCAACAAGTTCAGGTGTC
CTGCTTCAATGAGTTAGAGGTCTGTATCCATCCTGATGGCGTCATCCCAGTGCTGACTTT
CCTCAAGGATCACACCAATGCACAGTTCAAATCTCTGGTTGACTTGACAGCAGTGAGCGT
CCCAACTCGGCAAAACCGTTTTGAGATTGTCTACAACCTGTTGTCTCTGCGCTTCAACTC
ACGGATCCGTGTGAAGACCTACACAGATGAGCTGACGCCATTGAGTCTGCTGTCTGT
GTTCAAGGCAGCCAACCTGGTATGAAAGGGAGATCTGGGACATGTTGGGAGTCTTCTTTGC
TAACCACCCTGATCTAAGAAAGATCCTGACAGATTATGGGCTTCGAGGGACATCCTTNC
GGAAAGACTTTCTCTATCTGGGCTATGTTGAGGTACGTTATGATGATGAANTGAAACCG
GGTGGTGGCAAANCCGGTGGGAGTGGGCCAGGATTCCCACAATTTGACCTGACACGCC
TGGGAAGCTTTCCAGTCTATCGCAACCCCGGGAGTCTCAAGCTGGAGGCCGGAACAA
GAACCCGGGGGCCAGTAGCTCCGGGGACCCATGGTGGTCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004551 unedited
GAAAAGCACTGGGNAGGGTACAGGGATGCCACCCGGGCTCTGTTCAAGAAAAGCTATG
ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTAAGTCTAAGT
AGGAATTTATTTACACGGACTCAATCATAGATAAGGCGCTGTCTAGGATCCACATGCC
TTCCCTGGAGCTACTTGGCATCAGGCTTCTTGTCTCCGGCTTCAAGCTTGAGACTCTCCG
GGGTTGGCGATAGACTGGGAAAGCCTCCAGGGGCTGTTCAAGTCAAATTTGCGGAACT
CTTGGGCCAACTCCACCGGCTCTGCCACCAACCCGTTCACTTCATCATATAACGTAGAC
TCAACATAGCCAGATAAGAGGAAAGTCTTCCGAAAAGGATGGTCCCCTGGAAACCATA
ATCTGTAGGATCCTTCTTTAAATTCAGAGTTGGTTAACAAGAAGACTCCAAACATGTC
CCAAATCTCCCTTTATACCGGTTGGCTGCCTTGAACACAGAGACAGCGGAATTAATGGG
CGTCAACTCATTGTGTGGGGCTTACACGGATCCCTGGATTTGAAGCCAAAAGAGAACG
GGTTGAAAACAACTCCAAACGGGTTTTCCGAATGGGAAGTCCATGGTGGGCAAGTCC
ACGCGAAAATTTGAACTGGGCATTGGGGGGGATCCCTGGGAAAAGGGTAGACATTGGGG
TGAAACGCCCTAAGAGTGGATACGAGACCCCTTAGCTCTTGAAGCCGGGAACCCCGACT
TGTTGAAAAGTATTGGGCGCAAATTTACGCCAGATGCGCGTCCAAGGCGGAAAATTGCGT
TGGGGGCAACATAAATTCAGGTCGAGAGGAGGGGGCCGTTGTGGCCCCCCC

Restriction Sites:

Please inquire

ACCN:

NM_004551

Insert Size:

900 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:	NM_004551.1 , NP_004542.1
RefSeq Size:	899 bp
RefSeq ORF:	795 bp
Locus ID:	4722
UniProt ID:	O75489
Cytogenetics:	11p11.2
Domains:	complex1_30Kd
Protein Pathways:	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
Gene Summary:	This gene encodes one of the iron-sulfur protein (IP) components of mitochondrial NADH:ubiquinone oxidoreductase (complex I). Mutations in this gene are associated with Leigh syndrome resulting from mitochondrial complex I deficiency.[provided by RefSeq, Apr 2009]