

Product datasheet for SC333592

NDUFA5 (NM_001282421) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFA5 (NM_001282421) Human Untagged Clone
Tag:	Tag Free
Symbol:	NDUFA5
Synonyms:	B13; CI-13kB; CI-13KD-B; NUFM; UQOR13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333592 representing NM_001282421. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCCTTACCGGACCACTGGCCTTGTGGGATTGGCTGTGTGCAATACTCCTCACGAGAGGCTAAGAATA
TTGTACACAAAGATTCTTGATGTTCTTGAGGAAATCCCTAAAAATGCAGCATATAGAAAGTATACAGAA
CAGATTACAAATGAGAAGCTGGCTATGGTTAAAGCGGAACCAGATGTTAAAAAATTAGAAGACCACTT
CAAGGCGGTCAATTAGAAGAGGTGATTCTTCAGGCTGAACATGAATAAATCTGGCAAGAAAAATGAGG
GAATGGAAACTATGGGAGCCATTAGTGAAGAGCCTCCTGCCGATCAGTGAAATGGCCAATAATA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001282421
Insert Size:	342 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).



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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_001282421.2](#)

RefSeq Size: 5610 bp

RefSeq ORF: 342 bp

Locus ID: 4698

UniProt ID: [Q16718](#)

Cytogenetics: 7q31.32

Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

MW: 13.3 kDa

Gene Summary: This nuclear gene encodes a conserved protein that comprises the B13 subunit of complex I of the mitochondrial respiratory chain. The encoded protein localizes to the inner mitochondrial membrane, where it is thought to aid in the transfer of electrons from NADH to ubiquinone. Alternative splicing results in multiple transcript variants. There are numerous pseudogenes of this gene on chromosomes 1, 3, 6, 8, 9, 11, 12, and 16. [provided by RefSeq, Apr 2014]

Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (4) is shorter than isoform 1 and has a distinct N-terminus. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.