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Product datasheet for SC316187

NDUFAF7 (NM_001083946) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	NDUFAF7
Synonyms:	C2orf56; MidA; PRO1853
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC316187 representing NM_001083946. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGAGTGTACTGCTGAGGTCAGGTTTGGGGCCGTTGTGTGCCGTGGCGCGCGCAGCCATTCCTTTTATT TGGAGAGGGAAATACTTCAGCTCCGGGAATGAGCCTGCAGAAAACCCGGTGACGCCGATGCTGCGGCAT CTTATGTACAAAATAAAGTCTACTGGTCCCATCACTGTGGCCGAGTACATGAAGGAGGTGTTGACTAAT CCAGCCAAGCTACTAGGTATATGGTTCATTAGTGAATGGATGGCCACTGGAAAAAGCACAGCTTTCCAG CTGGTGGAACTGGGCCCAGGTAGGGGAACCCTCGTGGGAGATATTTTGAGGGTGTTCACTCAACTTGGA TCTGTGCTGAAAAATTGTGACATTTCAGTACATCTGGTAGAGAAAACACCACAGGGATGGCGAGAAGTA TTTGTTGACATTGATCCACAGGTTTCTGATAAACTGAGGTTTGTTTTGGCACCTTCTGCCACCCCAGCA GAAGCCTTCATACAACATGACGAAACAAGGGATCATGTTGAAGTGTGTCCTGATGCTGGTGTTATCATC GAGGAACTTTCTCAACGCATTGCATTAACTGGAGGTGCTGCACTGGTTGCTGATTATGGTCATGATGGA ACAAAGACAGATACCTTCAGAGGGTTTTGCGACCACAAGCTTCATGATGTCTTAATTGCCCCAGGAACA GCAGATCTAACAGCTGATGTGGACTTCAGTTATTTGCGAAGAATGGCACAGGGAAAAGTAGCCTCTCTG GGCCCAATAAAACAACACACATTTTTAAAAAATATGGGTATTGATGTCCGGCTGAAGGTTCTTTTAGAT AAATCAAATGAGCCATCAGTGAGGCAGCAGTTACTTCAAGGATATGATATGTTAATGAATCCAAAGAAG ATGGGAGAGAGATTTAACTTTTTTGCCTTGCTACCTCATCAGAGACTTCAAGGTGGAAGATATCAGAGG AATGCACGTCAGTCAAAACCCTTTGCATCCGTTGTAGCTGGGTTTAGTGAACTTGCTTGGCAGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
ACCN:	NM_001083946

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Insert Size:	1032 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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001083946.1
RefSeq Size:	1927 bp
RefSeq ORF:	1032 bp
Locus ID:	55471
UniProt ID:	Q7L592
Cytogenetics:	2p22.2
MW:	38 kDa

Gene Summary:

This gene encodes an assembly factor protein which helps in the assembly and stabilization of Complex I, a large multi-subunit enzyme in the mitochondrial respiratory chain. Complex I is involved in several physiological activities in the cell, including metabolite transport and ATP synthesis. The encoded protein is a methyltransferase which methylates Arg85 of a subunit of Complex I in the early stages of its assembly. A pseudogene related to this gene is located on chromosome 8. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2016]

Transcript Variant: This variant (3) uses an alternate in-frame splice site in the central coding region and lacks two alternate in-frame exons, compared to variant 1. The resulting isoform (3) is shorter than isoform 1.