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Product datasheet for RC217112

C20orf7 (NDUFAF5) (NM_024120) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C20orf7 (NDUFAF5) (NM_024120) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C20orf7
Synonyms:	bA526K24.2; C20orf7; dJ842G6.1; MC1DN16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC217112 representing NM_024120
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCGGCCGGCAGGGCTCTGGCGCTTATGTCGGCGACCTTGGGCGGCGAGGGTCCCAGCGGAGAATC
TTGGCCGTAGGGAAGTCACCTCTGGTGTCTCTCCCCGCGGTAGCACCTCGCCCAGAACCCTGAATATTTT
CGACCGGGATTTGAAAAGGAAACAGAAGAACTGGGCAGCCCGGCAGCCCGAGCCGACCAAATTTGACTAC
CTGAAGGAGGAGGTTGGAAGTCGGATCGCAGACCGTGTATATGACATACCCAGAAATTTCCCCCTTGCTT
TGGATCTTGGTTGTGGAAGAGGTTACATTGCACAATATTTGAATAAGGAAACTATTGGAAAGTTTTTCCA
AGCTGACATTGCAGAAAATGCTTTGAAAAATTCCTCAGAAACAGAAATACCTACTGTCAGCGTTTTAGCT
GATGAAGAATTCCTTCCCTTCAAAGAAAATACATTTGACCTGGTGGTTAGCAGTTTAAGTTTGCATTGGG
TGAATGACCTTCCTAGAGCACTTGAGCAGATTCATTATATTTTAAAACCAGATGGAGTGTTTATCGGTGC
AATGTTTGGAGGCGACACACTCTATGAACTTCGGTGTTCCTTACAGTTAGCGGAAACGGAAAGGGAAGGA
GGATTTTCTCCACACATTTCTCCTTTCACTGCTGTCAATGACCTGGGACATCTGCTTGGGAGAGCTGGCT
TTAATACTCTGACTGTGGACACTGATGAAATTCAAGTTAACTATCCTGGAATGTTTGAATTGATGGAAGA
TTTACAAGGTATGGGTGAGAGTAACTGTGCTTGGAATAGAAAAGCCCTGCTGCATCGAGACACAATGCTG
GCAGCTGCGGCAGTGTACAGAGAAATGTACAGAAATGAAGATGGTTCAGTACCTGCTACATACCAGATCT
ATTACATGATAGGATGGAAATATCATGAGTCACAGGCAAGACCAGCTGAAAGAGGTTCCGCAACTGTGTC
ATTTGGAGAGCTAGGAAAAATAAACAACCTTATGCCACCGGGGAAAAAATCACAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

```
>RC217112 representing NM_024120
Red=Cloning site Green=Tags(s)

MLRPAGLWRLCRRPWAARVPAENLGRREVTSGVSPRGSTSPRTLNIFDRDLKRKQKNWAARQPEPTKFDY
LKEEVGSRIADRVYDIPRNFPLALDLGCGRGYIAQYLNKETIGKFFQADIAENALKNSSETEIPTVSVLA
DEEFLPFKENTFDLVVSSLSLHWVNDLPRALEQIHYILKPDGVFIGAMFGGDTLYELRCSLQLAETEREG
GFSPHISPFTAVNDLGHLLGRAGFNTLTVDTDEIQVNYPGMFELMEDLQGMGESNCAWNRKALLHRDTML
AAAAVYREMYRNEDGSVPATYQIYYMIGWKYHESQARPAERGSATVSFGELGKINNLMPPGKKSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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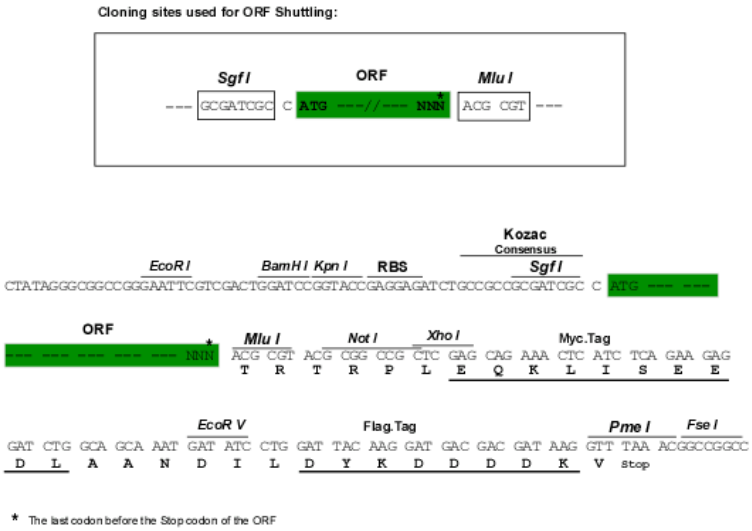
Chromatograms: https://cdn.origene.com/chromatograms/mk6484_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024120

ORF Size: 1035 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_024120.5
RefSeq Size:	1650 bp
RefSeq ORF:	1038 bp
Locus ID:	79133
UniProt ID:	Q5TEU4
Cytogenetics:	20p12.1
Protein Families:	Druggable Genome
MW:	38.7 kDa
Gene Summary:	The NADH-ubiquinone oxidoreductase complex (complex I) of the mitochondrial respiratory chain catalyzes the transfer of electrons from NADH to ubiquinone, and consists of at least 43 subunits. The complex is located in the inner mitochondrial membrane. This gene encodes a mitochondrial protein that is associated with the matrix face of the mitochondrial inner membrane and is required for complex I assembly. A mutation in this gene results in mitochondrial complex I deficiency. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

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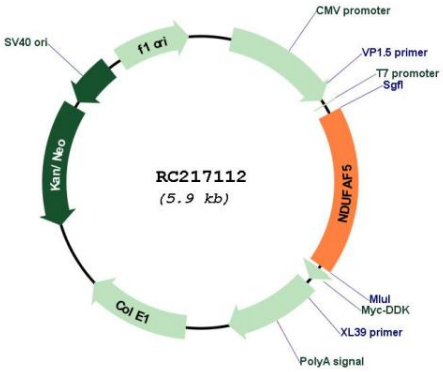
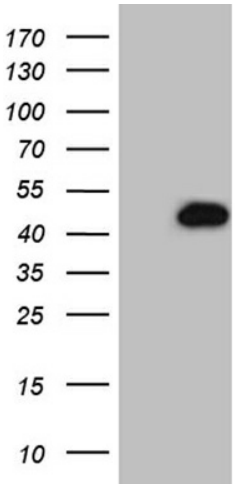
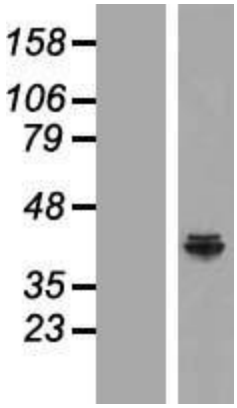
Product images:



Circular map for RC217112



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NDUFAF5 (Cat# RC217112, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NDUFAF5 (Cat# [TA809182])(1:2000). Positive lysates [LY411352] (100ug) and [LC411352] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411352]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217112 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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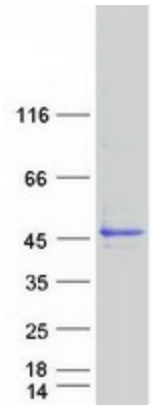

Coomassie blue staining of purified NDUFAF5 protein (Cat# [TP317112]). The protein was produced from HEK293T cells transfected with NDUFAF5 cDNA clone (Cat# RC217112) using MegaTran 2.0 (Cat# [TT210002]).

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