

Product datasheet for **RC210078**

C20orf7 (NDUFAF5) (NM_001039375) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C20orf7 (NDUFAF5) (NM_001039375) 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:	>RC210078 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCTCGCGCCGGCAGGGCTCTGGCGTTATGTCGGCGACCTTGGGCGGCGAGGGTCCCAGCGGAGAATC
 TTGGCCGTAGGGAAGTCACCTCTGGTGTCTCTCCCGCGGTAGCACCTCGCCAGAACCCTGAATATTTT
 CGACCCGGATTTGAAAAGGAAACAGAAGAACTGGGCAGCCCGGCAGCCGAGCCGACCAATTTGACTAC
 CTGAAGGAGGAGTTGGAAGTCGGATCGCAGACCGTGTATATGACATACCCAGAAATTTCCCTTGCTT
 TGGATCTTGGTTGTGAAGAGGTTACATTGCACAATATTTGAATAAGCTTCAGTTATTCCATTGCAGGAA
 ACTATTGGAAGTTTTTCCAAGCTGACATTGCAGAAAATGCTTTGTTTGCATTGGGTGAATGACCTTCCT
 AGAGCACTTGAGCAGATTCATTATATTTTAAAACCAGATGGAGTGTATCGGTGCAATGTTTGGAGGCG
 ACACACTCTATGAACTTCGGTGTTCCTTACAGTTAGCGGAAACGGAAGGGAAGGAGATTTCTCCACA
 CATTTCTCCTTTCACTGCTGTCAATGACCTGGGACATCTGCTTGGGAGAGCTGGCTTTAATACTCTGACT
 GTGGACACTGATGAAATCAAGTAACTATCCTGGAATGTTTGAATTGATGGAAGATTTACAAGGTATGG
 GTGAGAGTAACTGTGCTTGAATAGAAAAGCCCTGCTGCATCGAGACACAATGCTGGCAGCTGCGGCAGT
 GTACAGAGAAATGTACAGAAATGAAGATGGTTCAGTACCTGCTACATACCAGATCTATTACATGATAGGA
 TGGAAATATCATGAGTCACAGGAAGACCAGCTGAAAGAGGTTCCGCAACTGTGTCATTTGGAGAGCTAG
 GAAAAATAACAACCTTATGCCACCGGGAAAAAATCACAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC210078 protein sequence
 Red=Cloning site Green=Tags(s)

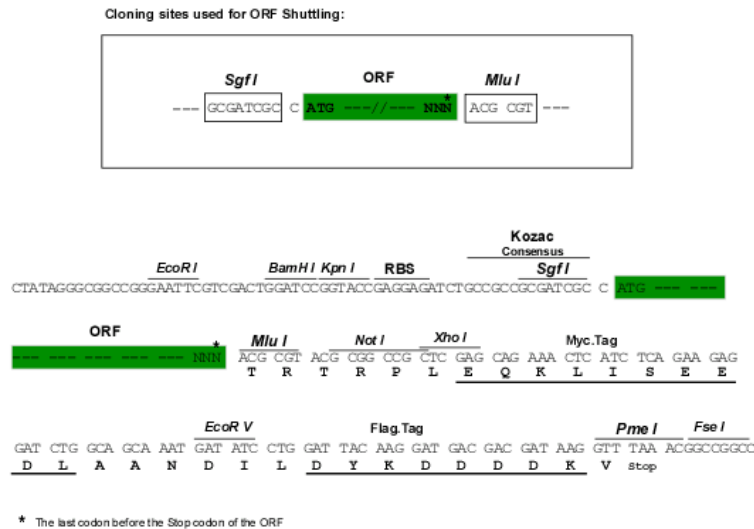
MLRPAGLWRLCRPWAAVPAENLGRREVTSGVSPRGSTSPRTLNI FDRDLKRKQKNWAARQPEPTKFDY
 LKEEVGSRIADRYVDIPRNFPLALDLGCGRGYIAQYLNKLQLFHCRLLESF SKLTLQKMLCLHWVNDLP
 RALEQIHYYILKPDGVF IGAMFGGDTLYELRCSLQLAETEREGGFSPHISPF TAVNDLGHLLGRAGFNTLT
 VDTDEIQVNYPGMFELMEDLQGMGESNCAWNRKALLHRDTMLAAAVYREMYRNEDGSPATYQIYYMIG
 WKYHESQARPAERGSATVSFGELGKINNLMPPGKKSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6586_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039375

ORF Size: 951 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).

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_001039375.3](#)

RefSeq Size: 2227 bp

RefSeq ORF: 954 bp

Locus ID: 79133

UniProt ID: [Q5TEU4](#)

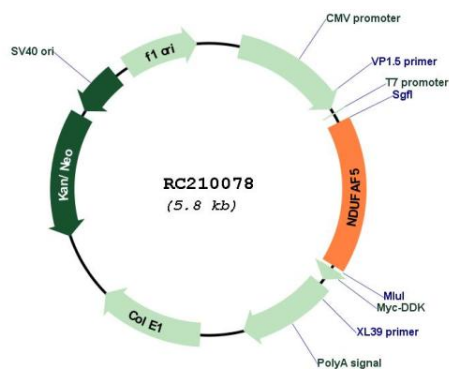
Cytogenetics: 20p12.1

Protein Families: Druggable Genome

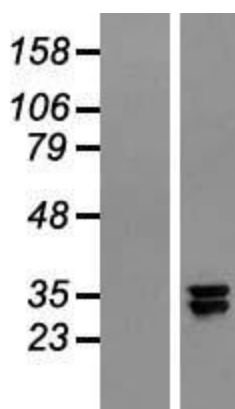
MW: 36.1 kDa

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]

Product images:



Circular map for RC210078



Western blot validation of overexpression lysate (Cat# [LY422042]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210078 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).