

Product datasheet for RC208120

NDUFAF4 (NM_014165) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NDUFAF4 (NM_014165) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NDUFAF4
Synonyms: bA22L21.1; C6orf66; HRPAP20; HSPC125; MC1DN15; My013
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC208120 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCACTAGTGATTCGCGGTATCAGGAATTTCAACCTAGAGAACCGAGCGGAACGGGAAATCAGCA
AGATGAAGCCCTCTGTCGCTCCCAGACACCCCTCTACCAACAGCCTCCTGCGAGAGCAGATTAGTCTCTA
TCCAGAAGTTAAAGGAGAGATTGCTCGTAAAGATGAAAAGCTGCTGTCGTTTCTAAAAGATGTGTATGTT
GATTCCAAAGATCCTGTGCTTTCCTTGCAGGTAAGCTGCTGAAACATGTCAAGAGCCGAAGGAATTCA
GATTGCCGAAAGACCATCATTTTGATATGATAAATATTAAGAGCATTCCCAAAGGCAAAATTTCCATTGT
AGAAGCATTGACACTTCTCAATAATCATAAGCTTTTCCCAGAAACCTGGACTGCTGAGAAAAATAATGCAA
GAATACCAGCTAGAACAGAAAGATGTGAATTCTTCTTAAATATTTGTTACTTTTGAAGTCGAAATCT
TCCCTCCTGAAGACAAGAAAGCAATACGATCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208120 protein sequence
Red=Cloning site Green=Tags(s)

MGALVIRGIRNFNLENRAEREISKMKPSVAPRHPSTNSLLREQISLYPEVKGEIARKDEKLLSFLKDVVY
DSKDPVSSLQVKAETCQEPKEFRLPKDHHFDMINIKSIPKGI SIVEAL TLLNNHKLFPETWTAEKIMQ
EYQLEQKDVNSLLKYFVTFEVEIFPPEDKKAIRSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

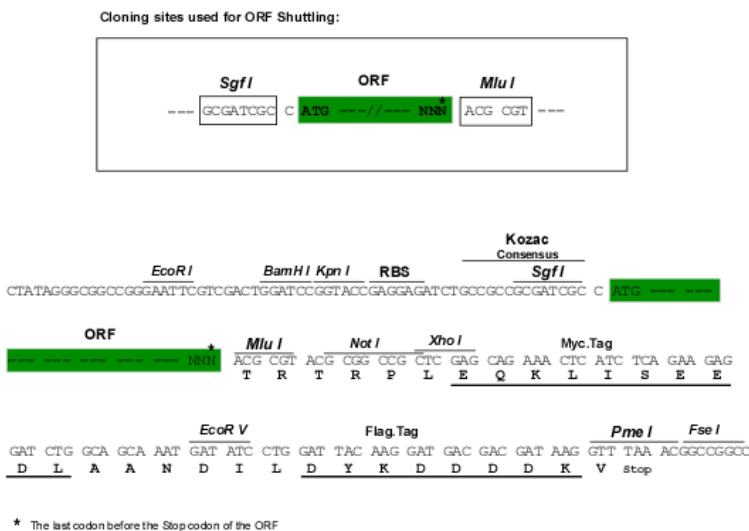
Chromatograms: https://cdn.origene.com/chromatograms/mk6348_a11.zip



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014165

ORF Size: 525 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.

RefSeq: [NM_014165.4](#)

RefSeq Size: 2411 bp

RefSeq ORF: 528 bp

Locus ID: 29078

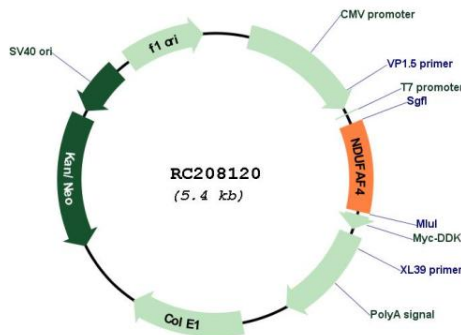
UniProt ID: [Q9P032](#)

Cytogenetics: 6q16.1

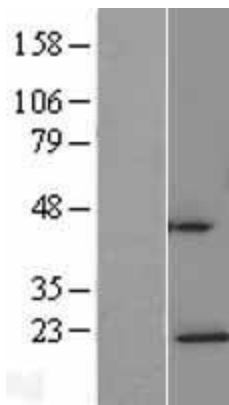
MW: 20.3 kDa

Gene Summary: NADH:ubiquinone oxidoreductase (complex I) catalyzes the transfer of electrons from NADH to ubiquinone (coenzyme Q) in the first step of the mitochondrial respiratory chain, resulting in the translocation of protons across the inner mitochondrial membrane. This gene encodes a complex I assembly factor. Mutations in this gene are a cause of mitochondrial complex I deficiency. [provided by RefSeq, Oct 2009]

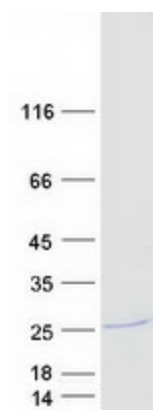
Product images:



Circular map for RC208120



Western blot validation of overexpression lysate (Cat# [LY415455]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208120 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NDUFAF4 protein (Cat# [TP308120]). The protein was produced from HEK293T cells transfected with NDUFAF4 cDNA clone (Cat# RC208120) using MegaTran 2.0 (Cat# [TT210002]).