

Product datasheet for **RC226587**

NDUFB11 (NM_001135998) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | NDUFB11 (NM_001135998) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | NDUFB11 |
| Synonyms: | CI-ESSS; ESSS; MC1DN30; Np15; NP17.3; P17.3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC226587 representing NM_001135998 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTGGGCTGTTTGGTTTGGAGCGCTCGCCGTCTTTTGGCGGCAGCGGCGACGCGAGGGCTCCCGG
CCGCCCCGCTCCGCTGGGAATCTAGCTTCTCCAGGACTGTGGTCGCCCGTCCGCTGTGGCGGAAAGCG
GCCCCAGAACCACACACCGTGGCAAGAGGACCCAGAACCAGGACGAAAACCTGTATGAGAAGAAC
CCAGACTCCCATGTTATGACAAGGACCCGTTTGGACGTCTGGAACATGCGACTTGTCTTCTTTG
GGTCTCCATCATCCTGGTCCTTGGCAGCACCTTTGTGGCCTATCTGCCTGACTACAGGATGAAAGAGTG
GTCCCGCCGGAAGCTGAGAGGCTTGTGAAATACCGAGAGGCCAATGGCCTTCCCATCATGGAATCCAAC
TGCTTCGACCCAGCAAGATCCAGCTGCCAGAGGATGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

| | |
|-------------------|-----------------------------------------------------------------------|
| Protein Sequence: | >RC226587 representing NM_001135998 Red=Cloning site Green=Tags(s) |
|-------------------|-----------------------------------------------------------------------|

MAAGLFGLSARRLLAAAAATRGLPAARVRWESSFSRTVVAPSAVAGKRPPEPTTPWQEDPEPEDENLYEKN
PDSHGYDKDPVLDVWNMRLVFFFGVSIILVLGSTFVAYLPDYRMKEWSRREAERLVKYREANGLPIMESN
CFDPSKIQLPEDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

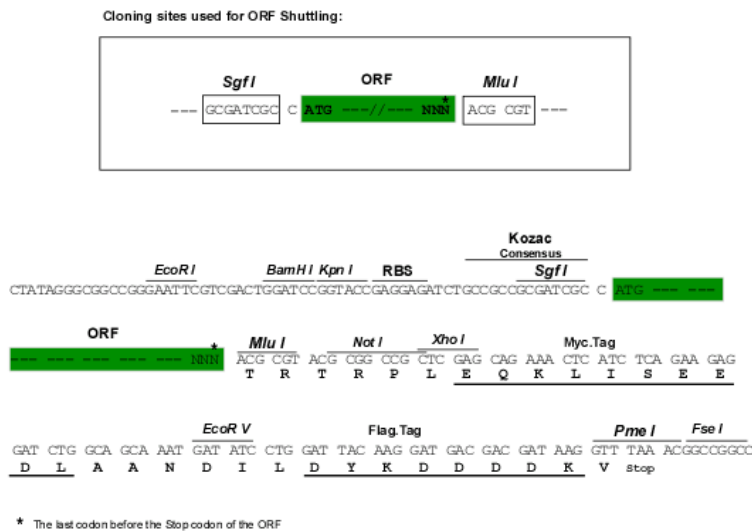
| | |
|----------------|-------------------------------------------------------------------------------------------------------------------------|
| Chromatograms: | https://cdn.origene.com/chromatograms/ja1461_f02.zip |
|----------------|-------------------------------------------------------------------------------------------------------------------------|



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001135998

ORF Size: 459 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_001135998.3](#)

RefSeq ORF: 462 bp

Locus ID: 54539

UniProt ID: [Q9NX14](#)

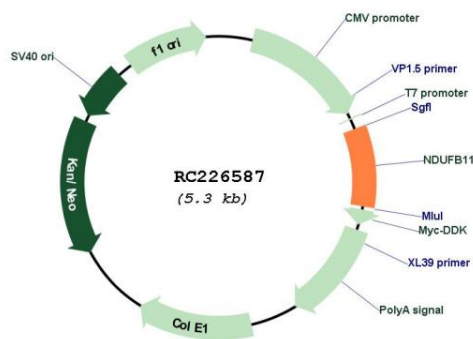
Cytogenetics: Xp11.3

Protein Families: Transmembrane

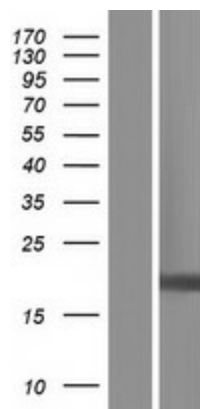
MW: 17.1 kDa

Gene Summary: The protein encoded by this gene is a subunit of the multisubunit NADH:ubiquinone oxidoreductase (complex I). Mammalian complex I is located at the mitochondrial inner membrane. This protein has NADH dehydrogenase activity and oxidoreductase activity. It transfers electrons from NADH to ubiquinone. Mutations in the human gene are associated with linear skin defects with multiple congenital anomalies 3 and mitochondrial complex I deficiency. [provided by RefSeq, Dec 2016]

Product images:



Circular map for RC226587



Western blot validation of overexpression lysate (Cat# [LY427749]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226587 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).