

Product datasheet for **RC202529**

NDUFAF7 (NM_144736) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFAF7 (NM_144736) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDUFAF7
Synonyms:	C2orf56; MidA; PRO1853
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC202529 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGTGTACTGCTGAGGTCAGGTTTGGGGCCGTTGTGTGCCGTGGCCGCGCAGCCATTCCTTTTATTT
 GGAGAGGGAAATACTTACGCTCCGGGAATGAGCCTGCAGAAAACCGGTGACGCCGATGCTGCGGCATCT
 TATGTACAAAATAAAGTCTACTGGTCCCACACTGTGGCCGAGTACATGAAGGAGGTGTTGACTAATCCA
 GCCAAGGGTTATATGTGTACCGTGACATGCTAGGCGAAAAAGGAGATTTCACTACTTCCACTGAAATAA
 GTCAAATCTTTGGGGAGCTACTAGGTATATGGTTCATTAGTGAATGGATGGCCACTGGAAAAAGCACAGC
 TTTCCAGCTGGTGAACGGGCCAGGTAGGGGAACCCCTCGTGGGAGATATTTTGAGGGTGTTCACTCAA
 CTTGGATCTGTGCTGAAAAATTGTGACATTTAGTACATCTGGTAGAGGTAAGCCAAAAATTAAGTGA
 TTCAAGCATTGACTGACTAAAGAGAAGTCCCGTTAGAGCGAAATGCTGGATCCCGAGTATATGAA
 AGGTGTACTAAGTCTGGGATCCAATTTCTGGTACCGAGATCTGCACGATGTTCCAAAAGGGTACAGC
 TTTTATCTTGACATGAATTTTTGATGTTCTTCTGTGCATAAAATTCAGAAAAACCCACAGGGATGGC
 GAGAAGTATTTGTTGACATTGATCCACAGGTTTCTGATAAACTGAGGTTTGTGGCACCTTCTGCCAC
 CCCAGCAGAAGCCTTCATACAACATGACGAAACAAGGGATCATGTTGAAGTGTGCTGATGCTGGTGT
 ATCATCGAGGAACCTTCAACGCATTGCATTAAGTGGAGGTGCTGCACTGGTGTGCTGATTATGGTCATG
 ATGGAACAAGACAGATACCTTCAGAGGGTTTTGCGACCACAAGCTTCATGATGTCTTAATTGCCCCAGG
 AACAGCAGATCTAACAGCTGATGTGGACTTCAGTTATTTGCGAAGAATGGCACAGGGAAAAAGTAGCCTCT
 CTGGGCCCAATAAAACAACACACATTTTTAAAAAATATGGGTATTGATGTCCGGCTGAAGGTTCTTTTAG
 ATAAATCAAATGAGCCATCAGTGAGGCAGCAGTTACTTCAAGGATATGATATGTTAATGAATCAAAGAA
 GATGGGAGAGAGATTTAACTTTTTGCCTTGTCTACCTCATCAGAGACTTCAAGGTGGAAGATATCAGAGG
 AATGCACGTCAGTCAAACCCCTTGCATCCGTTGTAGCTGGGTTTAGTGAAGTCTGCTGGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202529 protein sequence
 Red=Cloning site Green=Tags(s)

MSVLLRSGLGPLCAVARAAIPFIWRGKYFSSGNEPAENPVTPLRHLMYKIKSTGPITVAEYMKEVLTNP
 AKGYVYRDMLGEKGFITSPEISQIFGELLGIWFISEWMATGKSTAFQLVELGPGRGTLVGDILRVFTQ
 LGSVLKNCDISVHLVEVSQKLSEIQALTLTKEKVPLERNAGSPVYMKGVTKSGIPISWYRDLHDVPGYS
 FYLAHEFFDVLVHKFQKTPQGWREVFVDIDPQVSDKLRFLAPSATPAEAFIQHDETRDHEVPCPDAGV
 IIEELSQRIALTGGAALVADYGHGDKTDTFRGFCDHKLHDVLIAPGTADLTADVDFSYLRRMAQGVAS
 LGPIKQHTFLKNMGIDVRLKVLLDKSNEPSVRQQLLQGYDMLMNPCKMGERFNFFALLPHQRLQGGRYQR
 NARQSKPFASVVAGFSELAWQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6151_h08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_144736

ORF Size: 1323 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_144736.5](#)

RefSeq Size: 2221 bp

RefSeq ORF: 1326 bp

Locus ID: 55471

UniProt ID: [Q7L592](#)

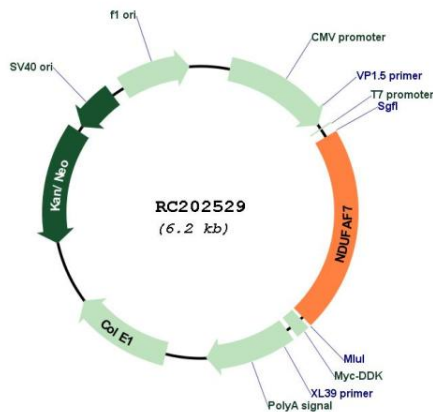
Cytogenetics: 2p22.2

Domains: DUF185

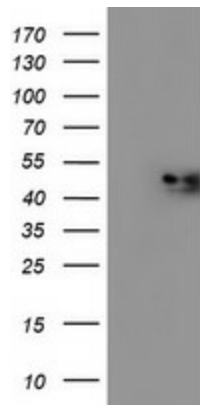
MW: 49.2 kDa

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]

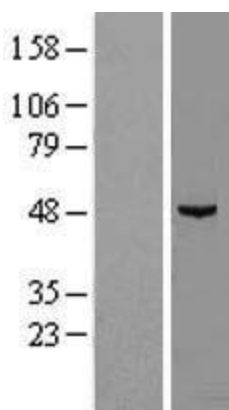
Product images:



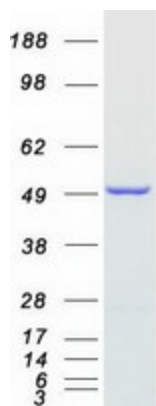
Circular map for RC202529



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY C2orf56 (Cat# RC202529, 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-C2orf56 (Cat# [TA502995]). Positive lysates [LY403408] (100ug) and [LC403408] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403408]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202529 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NDUFAF7 protein (Cat# [TP302529]). The protein was produced from HEK293T cells transfected with NDUFAF7 cDNA clone (Cat# RC202529) using MegaTran 2.0 (Cat# [TT210002]).