

## Product datasheet for RC203279

### NDUFS7 (NM\_024407) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NDUFS7 (NM_024407) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NDUFS7
Synonyms:	CI-20; CI-20KD; MC1DN3; MY017; PSST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203279 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGCGGTGCTGTCAGCTCCTGGCCTGCGCGGCTTCCGGATCCTTGGTCTGCGCTCCAGCGTGGGCCTGG  
CTGTGCAGGCACGAGGTGCCATCAGAGCGTGGCCACCGATGGCCCAAGCAGCACCCAGCCTGCCCTGCC  
AAAGGCCAGAGCCGTGGCTCCAAACCCAGCAGCCGGGGCGAGTATGTGGTGGCCAAGCTGGATGACCTC  
GTCAACTGGGCCCGCCGAGTTCTGTGGCCCATGACCTTCGGCCTGGCCTGCTGCGCCGTGGAGATGA  
TGCACATGGCAGCACCCGCTACGACATGGACCGCTTTGGCGTGGTCTTCCGCGCCAGCCCGCGCCAGTC  
CGACGTATGATCGTGGCCGGCACACTACCAACAAGATGGCCCCAGCGCTTCGCAAGGTCTACGACCAG  
ATGCCGGAGCCGCGCTACGTGGTCTCCATGGGGAGCTGCGCCAACGGAGGAGGCTACTACCACTATTCCT  
ACTCGGTGGTGGGGGCTGCGACCGCATCGTGCCCGTGGACATCTACATCCCAGGCTGCCACCTACGGC  
CGAGGCCCTGCTCTACGGCATCCTGCAGCTGCAGAGGAAGATCAAGCGGGAGCGGAGGCTGCAGATCTGG  
TACCGCAGG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203279 protein sequence  
Red=Cloning site Green=Tags(s)

MAVLSAPGLRGFRILGLRSSVGLAVQARGVHQSVATDGPSTQPALPKARAVAPKSSRGEYVVAKLDDL  
 VNWARRSSLWPMTFGLACCAVEMMHMAAPRYDMDRFGVVFRA SPRQSDVMIVAGTLTNKMAPALRKVYDQ  
 MPEPRYVYVSMGSCANGGGYYHYSVSVVRGCDRIVPVDIYIPGCPPTAEALLYGILQLQRKIKRERRLQIWI  
 YRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6417\\_h06.zip](https://cdn.origene.com/chromatograms/mk6417_h06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_024407

**ORF Size:** 639 bp

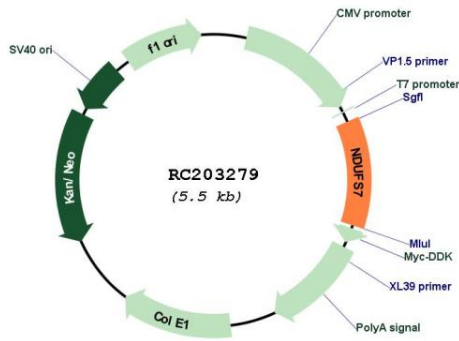
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

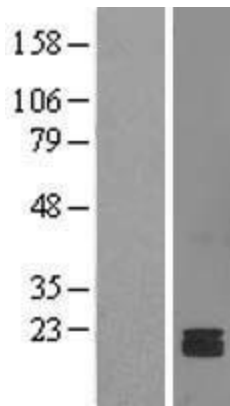
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_024407.3</a></u> , <u><a href="#">NP_077718.2</a></u>
<b>RefSeq Size:</b>	799 bp
<b>RefSeq ORF:</b>	642 bp
<b>Locus ID:</b>	374291
<b>UniProt ID:</b>	<u><a href="#">O75251</a></u>
<b>Cytogenetics:</b>	19p13.3
<b>Domains:</b>	oxidored_q6
<b>Protein Pathways:</b>	Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease
<b>MW:</b>	23.6 kDa
<b>Gene Summary:</b>	This gene encodes a protein that is a subunit of one of the complexes that forms the mitochondrial respiratory chain. This protein is one of over 40 subunits found in complex I, the nicotinamide adenine dinucleotide (NADH):ubiquinone oxidoreductase. This complex functions in the transfer of electrons from NADH to the respiratory chain, and ubiquinone is believed to be the immediate electron acceptor for the enzyme. Mutations in this gene cause Leigh syndrome due to mitochondrial complex I deficiency, a severe neurological disorder that results in bilaterally symmetrical necrotic lesions in subcortical brain regions. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC203279



Western blot validation of overexpression lysate (Cat# [LY411274]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203279 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).