

Product datasheet for RC200223L3

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

OriGene Technologies, Inc.

NDUFB9 (NM_005005) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NDUFB9 (NM_005005) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: NDUFB9

Synonyms: B22; CI-B22; LYRM3; MC1DN24; UQOR22

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

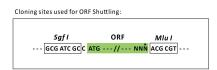
E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC200223).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_005005

ORF Size: 537 bp





NDUFB9 (NM_005005) Human Tagged Lenti ORF Clone - RC200223L3

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: <u>NM 005005.1</u>

 RefSeq Size:
 736 bp

 RefSeq ORF:
 540 bp

 Locus ID:
 4715

 UniProt ID:
 Q9Y6M9

Cytogenetics: 8q24.13

Protein Pathways: Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation,

Parkinson's disease

MW: 21.8 kDa

Gene Summary: The protein encoded by this gene is a subunit of the mitochondrial oxidative phosphorylation

complex I (nicotinamide adenine dinucleotide: ubiquinone oxidoreductase). Complex I is localized to the inner mitochondrial membrane and functions to dehydrogenate nicotinamide adenine dinucleotide and to shuttle electrons to coenzyme Q. Complex I deficiency is the most common defect found in oxidative phosphorylation disorders and results in a range of conditions, including lethal neonatal disease, hypertrophic cardiomyopathy, liver disease, and

adult-onset neurodegenerative disorders. Pseudogenes of this gene are found on

chromosomes five, seven and eight. Alternative splicing results in multiple transcript variants.

[provided by RefSeq, Jul 2015]