

## Product datasheet for MR204857

### Ndufaf1 (NM\_027175) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufaf1 (NM_027175) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ndufaf1
Synonyms:	2410001M24Rik; CGI-65; CIA30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204857 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTCCATTACAAAATTACTGACTGGCATTACATTCATAAAAAATTCCTGAGGCCAAGGGCTGCAT  
TACCTCCATTTGTGGTAATCACTGTGTAGACTATTCTCCAGTAGTCTTCAGAAAAAGTGACTTCTGT  
TGACAGAGCCTCCAGCAGGGAAAGACTGAAGAGGGCTTACAAGGACATGACCACAAAGAAGTTGCTTTG  
GATGCACCTTCTCCTGACAGGACACCTGAAGTTAGTTTTGATAAAGCAATTAGAGATGAAGCAATAGAAC  
ATTTTAGACGTTTGAAGGATGAAATTGTGGCTCATTTGAGAGGCCAGACGGCCGCCACTACAAGAGGT  
CATAATGGAACAAGCCAGGGTTGTCTGGCAGTTTCGTGAAAAAGAAGATTTGGATAAGTGGATAGTGACT  
TCTGATAAGACAATTGGAGGTAGAAGTGAATATCTTGAATGAGCAAGAACAACCGAAGTGCCTCGC  
TTTATGGAACCTCTGAGCTCTGAGCCTCCTCAGGATGGGGACAGTAGACAAAGTGGATACTGTGCCATGAT  
CTCCAGGATCCACGGGGTGCTTTTGGAGGAAGCTGTCTTATGATTGGTCCCAGTTCAATACTCTGTAT  
CTCCGAGTTCGTGGAGATGGACGGCCTTGGATGGTGAATATCAGGCAAGACACGGAGTTTATCCAGAGAA  
AAAATCAGATGTACAGTTACTTCATGTTACCCGTGGGGACCCTACTGGCAGGAAGTCAAGATTCCTTT  
CTCCAAATTTTCTTTTCAAATCAAGGAAGGGTACGAGATGTCCAAGGCCACTCGTATTGGACAAGATC  
TCTTCTATAGGATCACTCTGTCTGATAAGGTGGATGGACCATTCTTCTGGAAATAGATTCATTGGTG  
TGTTTACTGATCCAGCCCATACAGAAGAATTTGCTTATGAGAATTCTCCGTTCTTAACCAAGACTCTT  
CAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204857 protein sequence  
Red=Cloning site Green=Tags(s)

MSSIIHKLLTGIYIHKNFLRPRAALPPFVGNHCVDYSSSSLQKKVTSVDRASQQGKTEEGLQGHDKHEVAL  
 DAPSPDRTPEVSFDKAIRDEAIEHFRRLLKDEIVAHLRGPDGRPLQEVIMEQARVVWQFREKEDLDKWI  
 VTSKDTIGGRSEIFLKMSKNNRSALLYGTLSSPEPPQDGSRSQSGYCAMISRIPRGA FERKLSYDWSQFNTLY  
 LRVRGDGRPWVNIHQDTEFIQRKNQMYSYFMFTRGGPYWQEVKIPFSKFFFSNQGRVRDVQGPLVLDKI  
 SSI GFTLSDKVDGPFLEIDF IGVF TDP AHT EEFAYENSPV LNPRLFR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_027175

**ORF Size:** 987 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\\_027175.1](#), [NM\\_027175.2](#), [NM\\_027175.3](#), [NP\\_081451.3](#)

**RefSeq Size:** 1451 bp

**RefSeq ORF:** 993 bp

**Locus ID:** 69702

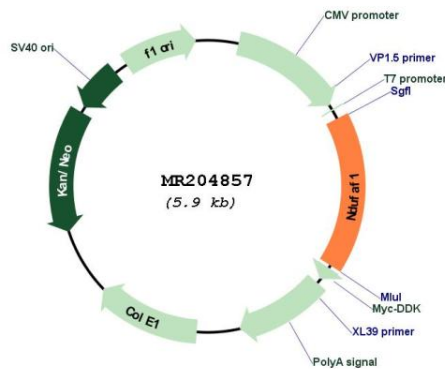
**UniProt ID:** [Q9CWX2](#)

**Cytogenetics:** 2 E5

**MW:** 37.8 kDa

**Gene Summary:** Chaperone protein involved in early stages of the assembly of the mitochondrial NADH:ubiquinone oxidoreductase complex (complex I).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR204857