

Product datasheet for **MG204857**

Ndufaf1 (NM_027175) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ndufaf1 (NM_027175) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ndufaf1
Synonyms: 2410001M24Rik; CGI-65; CIA30
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204857 representing NM_027175
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTCCATTACAAAATTACTGACTGGCATTACATTCATAAAAAATTCCTGAGGCCAAGGGCTGCAT
TACCTCCATTTGTGGTAATCACTGTGTAGACTATTCTCCAGTAGTCTTCAGAAAAAGTGACTTCTGT
TGACAGAGCCTCCAGCAGGGAAAGACTGAAGAGGGCTTACAAGGACATGACCACAAAGAAGTTGCTTTG
GATGCACCTTCTCCTGACAGGACACCTGAAGTTAGTTTTGATAAAGCAATTAGAGATGAAGCAATAGAAC
ATTTTAGACGTTTGAAGGATGAAATTGTGGCTCATTTGAGAGGCCAGACGGCCGCCACTACAAGAGGT
CATAATGGAACAAGCCAGGGTTGTCTGGCAGTTTCGTGAAAAAGAAGATTTGGATAAGTGGATAGTGACT
TCTGATAAGACAATTGGAGGTAGAAGTGAATATCTTAAAAATGAGCAAGAACAACCGAAGTGCCTCGC
TTTATGGAACCTCTGAGCTCTGAGCCTCCTCAGGATGGGGACAGTAGACAAAGTGGATACTGTGCCATGAT
CTCCAGGATCCACGGGGTGCTTTTGGAGGAAGCTGTCTTATGATTGGTCCCAGTTCAATACTCTGTAT
CTCCGAGTTCGTGGAGATGGACGGCCTTGGATGGTGAATATCAGGCAAGACACGGAGTTTATCCAGAGAA
AAAATCAGATGTACAGTTACTTCATGTTACCCGTGGGGACCCTACTGGCAGGAAGTCAAGATTCCTTT
CTCCAAATTTTCTTTTCAAATCAAGGAAGGGTACGAGATGTCCAAGGCCACTCGTATTGGACAAGATC
TCTTCTATAGGATCACTCTGTCTGATAAGGTGGATGGACCATTCTTCTGGAAATAGATTTCAATGGTG
TGTTTACTGATCCAGCCCATACAGAAGAATTTGCTTATGAGAATTCTCCGTTCTTAACCAAGACTCTT
CAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204857 representing NM_027175
 Red=Cloning site Green=Tags(s)

MSSIHKLLTGIYIHKNFLRPRAALPPFVGNHCVDYSSSSLQKKVTSVDRASQQGKTEEGLQGHDKHEVAL
 DAPSPDRTPVEVSFDKAIRDEAIEHFRRLLKDEIVAHLRGPDGRPLQEVIMEQARVVWQFREKEDLDKWI
 VTSDKTIGGRSEIFLKMSKNNRSALLYGTLSSPEPPQDGSRQSGYCAMISRI PRGAFERKLSYDWSQFNTLY
 LRVRGDGRPWVNIHQDTEFIQRKNQMYSYFMFTRGGPYWQEVKIPFSKFFFSNQRVRDVQGPLVLDKI
 SSIGFTLSDKVDGPFLEIDFIVFTDPAHTEEFAYENSPVLPRLFR

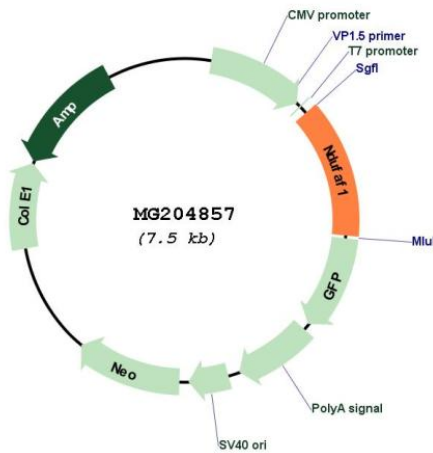
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_027175

ORF Size: 990 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:	<ol style="list-style-type: none">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_027175.2 , NP_081451.3
RefSeq Size:	1452 bp
RefSeq ORF:	993 bp
Locus ID:	69702
UniProt ID:	Q9CWX2
Cytogenetics:	2 E5
Gene Summary:	Chaperone protein involved in early stages of the assembly of the mitochondrial NADH:ubiquinone oxidoreductase complex (complex I).[UniProtKB/Swiss-Prot Function]