

Product datasheet for **MG202305**

Ndufs8 (NM_144870) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ndufs8 (NM_144870) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ndufs8
Synonyms:	BC021616; CI-23kD; TYKY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202305 representing NM_144870 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTATCGCCTGAGCTCATCAATGCTGCCACGGGCCTTGGCCCAGGCCATGCGCACAGGACATCTTAATG
GACAAAGCCTTCATAGCAGCGCAGTGGCGGCAACGTACAAGTATGTGAATAAGAAGGAACAGGAGTCTGA
GGTGGACATGAAGTCCGCAACTGACAGTGCAGCTCGGATTCTGATGTGGACAGAAGTCACTCCGAGGACTG
GGCATGACCCTAAGTTACCTCTTTCGAGAGCCTGCCACCATCACTACCCCTTTGAGAAGGGCCCACTGA
GTCCGCGCTTCCGTGGGAGCATGCACTGCGCCGCTACCCATCTGGAGAGGAGCGTTGCATTGCCTGCAA
ACTCTGTGAGGCCATCTGTCTGCACAGGCCATCACCATTTGAGGCTGAGCCAAGAGCCGATGGCAGCCGC
CGGACGACACGCTATGACATCGACATGACCAAGTGATCTACTGTGGTTTCTGCCAGGAAGCCTGCCTG
TTGATGCCATTGTGGAGGGCCCAACTTCGAGTTCTCCACCGAGACACAGGAGTTGCTGTACAACAA
GGAGAAGCTACTCAACAATGGAGACAAGTGGGAGGCCGAGATCGCTGCCAACATCCAGGCTGACTACCTG
TACCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202305 representing NM_144870
Red=Cloning site Green=Tags(s)

MYRLSSSMLPRALAQAMRTGHLNGQSLHSSAVAATYKYVNKKEQESEVDMKSATDSAARILMWTELIRGL
 GMTLSYLFREPATINYPFEKGPLSPFRFRGEHALRRYPSGEERICACKLCEAICPAQAITEAEPRADGSR
 RTTRYDIDMTKCIYCGFCQEACPVDATIVEGPNFEFSTETHEELLYNKEKLLNNGDKWEAIEAANIQADYL
 YR

TRTRPLE - GFP Tag - V

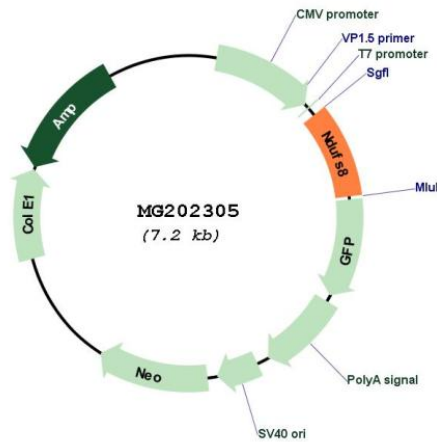
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144870

ORF Size: 636 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_144870.3 , NP_659119.2
RefSeq Size:	964 bp
RefSeq ORF:	639 bp
Locus ID:	225887
UniProt ID:	Q8K3J1
Cytogenetics:	19 A
Gene Summary:	Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone (By similarity). [UniProtKB/Swiss-Prot Function]