

## Product datasheet for **RG203265**

### DAP13 (NDUFA12) (NM\_018838) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DAP13 (NDUFA12) (NM\_018838) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DAP13  
**Synonyms:** B17.2; DAP13; MC1DN23  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG203265 representing NM\_018838  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGTTAGTGCAGGTCTGAAACGCGGGCTGCAGCAGATCACCGCCACGGCGGTCTCCGAGGCTATC  
TACGGGTTTTTTTCAGGACAAATGATGCGAAGGTTGGTACATTAGTGGGGGAAGACAAATATGGAAACAA  
ATACTATGAAGACAACAAGCAATTTTTGGCCGTCACCGATGGGTTGTATATACTACTGAAATGAATGCC  
AAAAACACATTCTGGGATGTGGATGGAAGCATGGTGCCTCCTGAATGCCATCGTTGGCTTCACAGTATGA  
CTGATGATCCTCCAACAACAAAACCACTTGCTGCTCGTAAATTCATTTGGACGAACCATAAATTCACGT  
GACTGGCACCCCAGAACAATATGTACCTTATTCTACCACTAGAAAGAAGATTCAGGAGTGGATCCCACCT  
TCAACACCTTACAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG203265 representing NM\_018838  
Red=Cloning site Green=Tags(s)

MELVQVLKRGLQQITGHGGLRGYLRVFFRNTDAKVGTLVGEDKYGNKYEDNKQFFGRHRWVYTTMNG  
KNTFWDVDGSMVPEWHRWLHSMTDDPPTTKPLAARKFIWTNHKNVNTGTPEQYVPYSTTRKKIQEWIPP  
STPYK

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_018838

**ORF Size:** 435 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\\_018838.3](#), [NP\\_061326.1](#)

**RefSeq Size:** 600 bp

**RefSeq ORF:** 438 bp

**Locus ID:** 55967

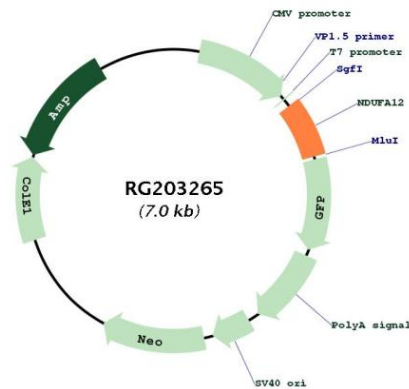
**UniProt ID:** [Q9UI09](#)

**Cytogenetics:** 12q22

**Domains:** Complex1\_17\_2kD

**Gene Summary:** This gene encodes a protein which is part of mitochondrial complex 1, part of the oxidative phosphorylation system in mitochondria. Complex 1 transfers electrons to ubiquinone from NADH which establishes a proton gradient for the generation of ATP. Mutations in this gene are associated with Leigh syndrome due to mitochondrial complex 1 deficiency. Pseudogenes of this gene are located on chromosomes 5 and 13. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2012]

**Product images:**



Circular map for RG203265