

## Product datasheet for **MG223256**

### **Dmac2 (NM\_025504) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dmac2 (NM_025504) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dmac2
Synonyms:	2310004L02Rik; Atp5sl; C030044E10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223256 representing NM_025504 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCACACTATGCACGTCTGCACCTGGGCGCCCGAGAATGGAATGGCAGAGCCAGGCGCATCCATGGCA  
TGAGTGAGTTGGTGACCCCGACAGCAGTCGGGAGAAGAAAAGAACGCTGTTGCAGTTCCTCTCAGATCA  
TTTCCAGGACATCCAGACTCTGAGAGACTTGTCTCCAGAAACAGATCTCAAAGTCAACAGGGAGAAT  
CGATCCTTCACTAACATCCAGGAGAAATATGGCCCGTATGTTGCAGGTGCTGTCTTCATCCTGAAGCAGG  
GAGGCGCAGTGAAGTTTCAGGACAAGGAGGAATGGATCCGGCCAAATAACCGTAGCCATTCCTCGCCGA  
GATTCAGAAGTTCCAGAAATGTGCCTGTGGAGGCTGTGGATGCCAGTGGCTGTGCCATCAACTACCGGGC  
CTGAGTAACCTCTTGCCCTGAAGGAGCTGCGGTCCCTGTCCCTGCAGCGCTGCCCAACCTGGACGACT  
GGTGCCTCAGCCGCTTACCTATTGGCTGGCTCACTGCAGGAGCTCTCGCTGGCTGGCTGCCCCAGAAT  
CTCAGAACGGGCTTGCCTGCCTCCACCCTCCAGAACCTCCGAGGCTGGACATCTCAGACCTCCCT  
GCCGTGTCCACCCAGGTCTCACTCAGATCCTGGTGAAGAGATGTTGCCCACTGTGAGGTCTTGGAG  
CTGACTGGGCCAGAATCTAAGCTGGAACCAGACAAGCAGCTCCAGACACATCAACCCCTCTCTTC  
C

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223256 representing NM\_025504  
Red=Cloning site Green=Tags(s)

MHTMHVLHLGAREWNGRARRIHGMSLVTPDSSREKKRLLQFLSDHFQDIQTLREYLLQKQISKVNREN  
 RSFTNIQEKYGPYVAGAVFILKQGGAVKFQDKEEWIRPNNRSHFLAEIQKFQNPVEAVDASGCAINYQG  
 LSNLLPLKELRSLSLQRCPNLDDWCLSRLYLLAGSLQELSLAGCPRI SERGLACLHHLQNLRRLDISDLP  
 AVSHPGLTQILVEEMLPHCEVLGADWAQNLKLEPDKQPPDTSTPLSS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_025504

**ORF Size:** 771 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\\_025504.4](#), [NP\\_079780.2](#)

**RefSeq Size:** 2389 bp

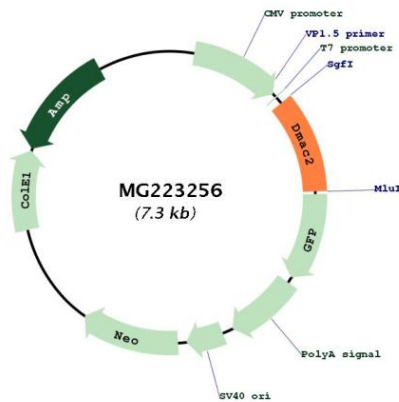
**RefSeq ORF:** 774 bp

**Locus ID:** 66349

**Cytogenetics:** 7 A3

**Gene Summary:** Required for the assembly of the mitochondrial NADH:ubiquinone oxidoreductase complex (complex I). Involved in the assembly of the distal region of complex I.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG223256