

## Product datasheet for **MR228836**

### **Dmac2 (NM\_001290487) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Dmac2 (NM\_001290487) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Dmac2  
**Synonyms:** 2310004L02Rik; Atp5sl; C030044E10Rik  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR228836 representing NM\_001290487  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGGCGCCAGAGCGGTCTGCACCTGGGCGCCGAGAATGGAATGGCAGAGCCAGGCGCATCCATG  
GCATGAGTGAGTTGGTGACCCCGACAGCAGTCGGGAGAAGAAAAGAACGCTGTTGCAGTTCCTCTCAGA  
TCATTTCCAGGACATCCAGACTCTGAGAGAGTACTTGCTCCAGAAACAGATCTCAAAGTCAACAGGGAG  
AATCGATCCTTCACTAACATCCAGGAGAAATATGGCCCGTATGTTGCAGGTGCTGTCTTCATCCTGAAGC  
AGGGAGGCGCAGTGAAGTTTCAGGACAAGGAGGAATGGATCCGGCCAAATAACCGTAGCCATTTCTCGC  
CGAGATTCCAGAAGTTCAGAATGTGCCTGTGGAGGCTGTGGATGCCAGTGGCTGTGCCATCAACTACCAG  
GGCCTGAGTAACCTCTTGCCCTGAAGGAGCTGCGGTCCCTGTCCCTGCAGCGCTGCCCCAACCTGGACG  
ACTGGTGCCTCAGCCGCCTTACCTATTGGCTGGCTCACTGCAGGAGCTCTCGCTGGCTGGCTGCCCCAG  
AATCTCAGAACGGGGCCTTGCTGCCTCCACCACCTCCAGAACCTCCGCAGGCTGGACATCTCAGACCTC  
CCTGCCGTGTCCCACCCAGGTCTCACTCAGATCCTGGTGAAGAGATGTTGCCCACTGTGAGGTCTTGG  
GAGCTGACTGGGCCAGAATCTCAAGCTGGAACCAGACAAGCAGCCTCCAGACACATCTACCCCCCTCTC  
TTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228836 representing NM\_001290487  
 Red=Cloning site Green=Tags(s)

MAAPRAVLHLGAREWNGRARRIHGMSELVTPDSSREKKRRTLLQFLSDHFQDIQTLREYLLQKQISKVNRE  
 NRSFTNIQEKYGPYVAGAVFILKQGGAVKFQDKEEWIRPNNRSHFLAEIQKFQNPVVEAVDASGCAINYQ  
 GLSNLLPLKELRSLSLQRCPNLDDWCLSRLYLLAGSLQELSLAGCPRI SERGLACLHHLQNLRRLLDISDL  
 PAVSHPGLTQILVEMLPHCEVLGADWAQNLKLEPDKQPPDTSTPLSS

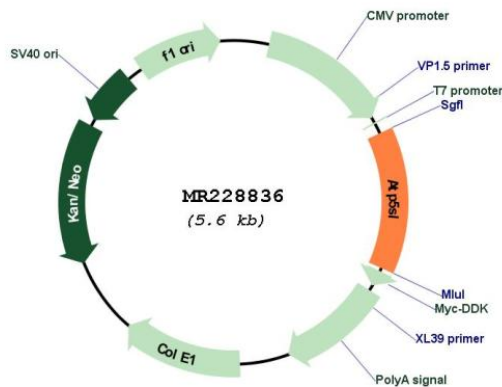
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001290487  
**ORF Size:** 774 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001290487.1</a> , <a href="#">NP_001277416.1</a>
<b>RefSeq Size:</b>	1464 bp
<b>RefSeq ORF:</b>	777 bp
<b>Locus ID:</b>	66349
<b>UniProt ID:</b>	<a href="#">Q9D7K5</a>
<b>Cytogenetics:</b>	7 A3
<b>MW:</b>	29.6 kDa
<b>Gene Summary:</b>	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]