

Product datasheet for **RR205983**

Dmac2 (NM_001009705) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dmac2 (NM_001009705) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Dmac2
Synonyms: Atp5sl; MGC109149
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205983 representing NM_001009705
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGCGCCAGAGCGTTTCTGCACCTGGGTGCCCGAGAATGGCATGGGAGAGCCAGGGGCACCCACA
GCATGAGTGGGTTGGCGACCCAGACAGCAATCGGGAGAAGAAAAGAACACTGCTGCAGTTCCTCTCAGA
CCACTTCCATGACGTCCAGACTCTGAGAGAGTACTTGCTCCAGAAACAGATCTCAAAGTCAGCATGGAG
AATCGATCCTACAGGAAGATCCAGGAGAGATACGGCCATACATCACAGGTGCTCAGTTCATCCTGAAGC
AGGGAGGCGCAGTGAAGTTTCAGGGCAGGGATTGGATCCGGCCAAATGACCGTGGCCATTCTATTGCCGA
GCTCCAGAAGGTGCCTGTGGAGGCTGTGGATGCCAGTGGCTGTGCCATCAACTACCAGGGCCTCAGTAAC
CTCTTGCCCTGAAGGAGCTGCAGTTCCTGTCCCTTCAGCGCTGCCCAACTGGATGACTGGTGCCTCA
GCCGCTCTACCTACTGGCTGGTTCAGTGCAGGAGCTCTCTGGCTGGGTGCCCGAGAATCTCAGAACG
AGGCCTTGCTGTCTCCACCACCTCCAGAACCTCCGAGGCTGGACATCTCAGACCTCCCTGCCGTGTCC
CACCCAGTCTTACTCAGATCCTAGTGAAGAGATGTTGCCCATGTGAGGTCTTGGAGTTGATTGGG
CCAAGAGTCTGAAGCTGGGGCCAGACGATCAACCTCCCGACACATCTAGTCTCTCTCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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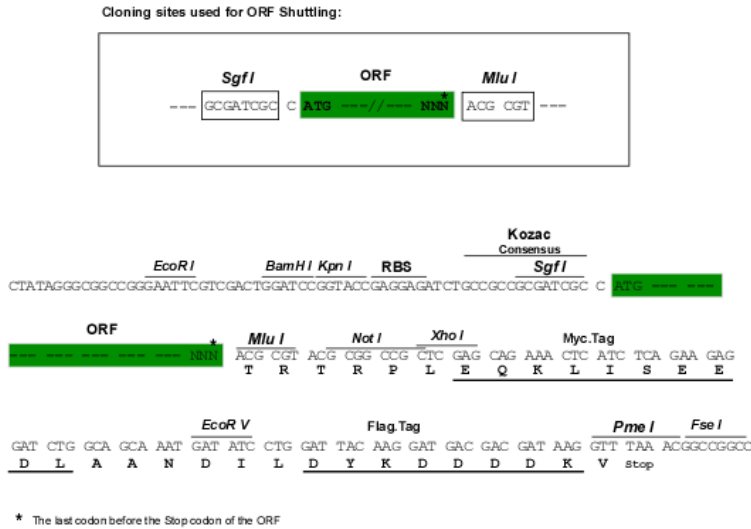
Protein Sequence: >RR205983 representing NM_001009705
 Red=Cloning site Green=Tags(s)

MAAPRAFLHLGAREWHGRARGTHSMSGLATPDSNREKKRLLQLSDHFHDVQTLREYLLQKQISKVSMENRSYRKIQERYGPYITGAQFILKQGGAVKFQGRDWIRPNDRGHSIAELQKVPVEAVDASGCAINYQGLSNLLPLKELQFLSLQRCPNLDDWCLSRLLLAGSLQELSLAGCPRI SERGLACLHHLQNLRRLDISDLPAVSHPGLTQILVEEMLPHCEVLGVDWAKSLKLGPDQPPDTSSPLSS

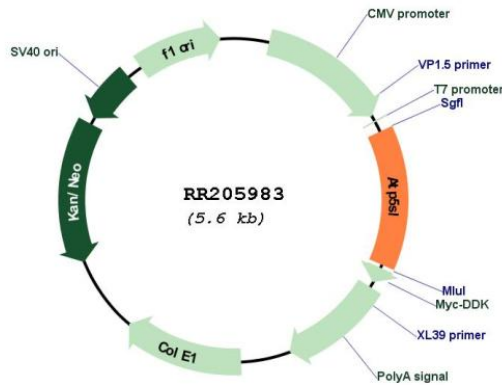
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009705
ORF Size: 762 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_001009705.1 , NP_001009705.1
RefSeq Size:	1873 bp
RefSeq ORF:	765 bp
Locus ID:	361520
UniProt ID:	Q5I0I4
Cytogenetics:	1q21
MW:	28.5 kDa
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]