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Product datasheet for MR203842

Vdac1 (NM_011694) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vdac1 (NM_011694) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vdac1
Synonyms:	AL033343; mVDAC1; mVDAC5; Vdac5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR203842 representing NM_011694
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGTGCCTCCCACATACGCCGATCTTGGCAAGTCCGCCAGGGATGTCTTCACCAAGGGCTACGGCT
TTGGCTTAATAAAACTTGATTTGAAAACGAAGTCAGAGAATGGATTGGAATTTACCAGCTCAGGCTCTGC
CAACACGGAAACCACCAAAGTGAACGGCAGCCTGGAAACCAAGTACAGATGGACTGAGTATGGGCTGACG
TTTACAGAGAAGTGGAACACAGACAACACCCTGGGCACTGAGATCACTGTGGAAGACCAGCTTGCTCGTG
GACTGAAGCTCACCTTTGATTCGTCATTCTCGCCGAACACTGGGAAAAAAAATGCTAAAATCAAGACAGG
GTACAAGAGGGAGCACATCAACCTCGGCTGTGACGTGGACTTTGACATCGCTGGGCCCTCGATCCGGGGC
GCTCTGGTGCTTGGCTATGAGGGTTGGCTGGCTGGCTACCAGATGAATTTTGAGACCTCGAAGTCCCGAG
TGACCCAGAGCAACTTCGCAGTTGGCTATAAGACGGATGAATTCCAGCTTCATACTAATGTGAATGACGG
GACAGAGTTTGGTGGCTCCATTTACCAGAAGGTGAACAAGAAGTTGGAGACTGCTGTCAATCTCGCCTGG
ACTGCAGGAAACAGTAACACTCGCTTCGGAATAGCAGCCAAGTATCAGGTCGACCCTGATGCCTGCTTTT
CGGCCAAAGTGAACAACTCTAGCCTGATTGGCTTAGGGTACACTCAGACCCTAAAACCAGGTATCAAACT
GACGTTGTCAGCCCTGCTCGATGGCAAGAACGTCAATGCGGGTGGCCACAAGCTTGGCCTAGGACTGGAA
TTTCAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

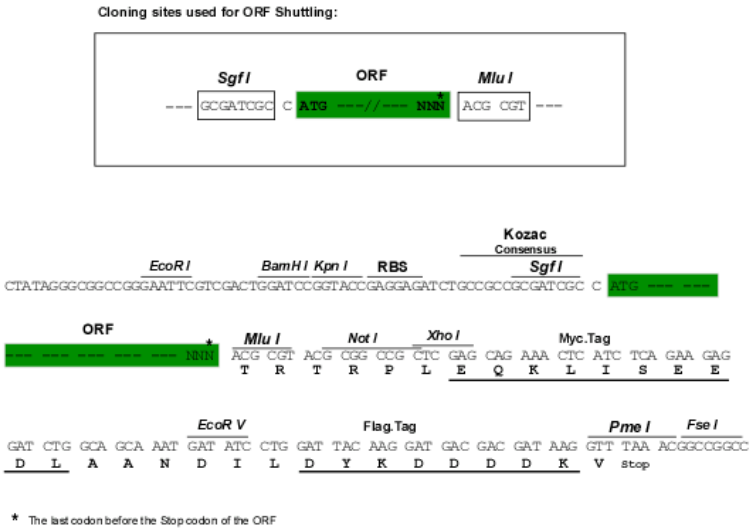
>MR203842 representing NM_011694
Red=Cloning site Green=Tags(s)

MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTKSENGLEFTSSGSANTETTKVNGSLETKYRWTEYGLT
FTEKWNTDNTLGTEITVEDQLARGLKLTFDSSFSPNTGKKNAKIKTGYKREHINLGCDVDFDIAGPSIRG
ALVLGYEGWLAGYQMNFETSKSRVTQSNFAVGYKTDEFQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAW
TAGNSNTRFGIAAKYQVDPDACFSAKVNNSSLIGLGYTQTLKPGIKLTLSALLDGKNVNAGGHKLGLGLE
FQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011694

ORF Size: 849 bp

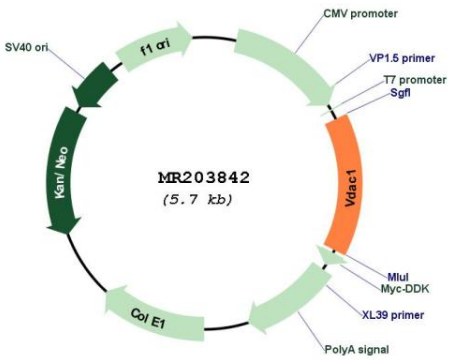
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_011694.6
RefSeq Size:	1767 bp
RefSeq ORF:	852 bp
Locus ID:	22333
UniProt ID:	Q60932
Cytogenetics:	11 31.86 cM
MW:	31.2 kDa
Gene Summary:	This gene encodes a voltage-dependent anion channel protein that is a major component of the outer mitochondrial membrane. The encoded protein facilitates the exchange of metabolites and ions across the outer mitochondrial membrane and may regulate mitochondrial functions. This protein also forms channels in the plasma membrane and may be involved in transmembrane electron transport. Multiple pseudogenes of this gene are found on chromosomes 1, 2, 3, 6, 8, 9, and X. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR203842