

Product datasheet for **RR203167**

Vdac1 (NM_031353) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vdac1 (NM_031353) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vdac1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203167 representing NM_031353 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCTGTGCCTCCACATATGCTGATCTTGGCAAGTCCGCCAGGGATGTCTTCACCAAGGGCTACGGCT
TTGGCTTAATAAACTTGATTTGAAAACGAAGTCCGAGAATGGATTGGAATTTACTAGCTCAGGTTCTGC
CAACACGGAGACCACAAAGTGAACGGCAGTCTGGAAACCAAGTACAGATGGACCGAGTATGGGCTGACG
TTTACTGAGAAGTGAACACAGACAACACCCTGGGCACTGAGATCACCGTGAAGACCAGCTTGCTCGTG
GACTGAAGCTGACCTTTGATTCATCTTTCTCGCCTAACACTGGGAAAAAATGCTAAAAATCAAGACAGG
GTACAAGAGGGAGCATATCAACCTGGGCTGTGATGTGGACTTTGACATCGCTGGGCCCTCAATCCGGGGC
GCTCTGGTGTGGCTATGAGGGTTGGCTGGCTGGCTACCAGATGAATTTGAGACCTCGAAGTCCCGAG
TGACCCAGAGCAACTTTCAGTTGGCTACAAGACGGACGAATTCAGCTTCATACTAATGTGAATGATGG
GACGGAGTTTGGTGGCTCCATTTACCAGAAGGTGAACAAGAAGTTGGAGACTGCTGTCAATCTCGCCTGG
ACCGCAGGAAACAGTAACACTCGCTTTGGAATAGCAGCCAAGTATCAGGTCGACCCTGATGCCTGCTTTT
CGGCCAAAGTGAACAACCTCCAGTCTAATTGGCTTAGGGTACACTCAGACCCTAAAACAGGTATCAAAC
GACTGTGAGCCCTGCTGGATGGCAAGAACGTCATGCGGGTGGCCACAAGCTTGGTTTAGGACTGGAA
TTTCAAGCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR203167 representing NM_031353
 Red=Cloning site Green=Tags(s)

MAVPPTYADLGKSARDVFTKGYGFLIKLDLTKSENGLEFTSSGSANTETTKVNGSLETKYRWTEYGLT
 FTEKWNTDNTLGTETITVEDQLARGLKLFDDSSFPNTGKKNKIKITGYKREHINLGCVDVFDIAGPSIRG
 ALVVLGYEGWLAGYQMNFETSKSRVTQSNFAVGKYTDEFQLHTNVNDGTEFGGSIYQKVNKLETAVNLAW
 TAGNSNTRFGIAAKYQVDPDACFSKVNNSLIGLGYTQTLKPGIKLTL SALLDGKNVNAGGHKLGLE
 FQA

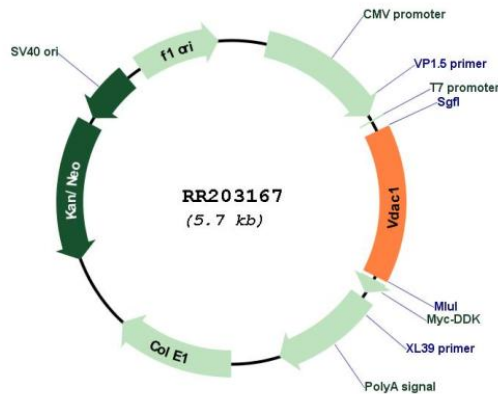
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031353

ORF Size:	849 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_031353.1 , NP_112643.1
RefSeq Size:	1818 bp
RefSeq ORF:	852 bp
Locus ID:	83529
UniProt ID:	Q9Z2L0
Cytogenetics:	10q22
MW:	30.8 kDa
Gene Summary:	large diameter (2.5-3 nm) channel, permeable to ions and small molecules; molecular component of Ca ²⁺ transport across the mitochondrial membranes [RGD, Jun 2006]