

Product datasheet for **MG204080**

Vdac2 (NM_011695) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vdac2 (NM_011695) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Vdac2
Synonyms:	mVDAC2; mVDAC6; Vdac6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204080 representing NM_011695 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAGTGCTGTGTACCGGTATGCCACGGCCGATGTGTATCCCTCCACCCTATGCTGACCTCGGCA
AAGCTGCCAGAGACATTTTCAACAAAGGATTTGGCTTTGGGCTGGTGAAGCTGGATGTGAAGACGAAGTC
ATGCAGCGGTGTGAATTTTCAACATCTGGCTCATCTAATACAGACACTGGTAAAGTTAGCGGGACCTTG
GAGACCAAGTACAAATGGTGTGAGTATGGTCTGACTTTCACAGAGAAGTGAACACCGATAACACTCTGG
GGACAGAGATTGCAATTGAAGACCAGATTTGTCAAGGTTTGAAGTACTTTTACACCACCTTTTACC
GAACACAGGAAAAGAAAAGTGGTAAAATCAAGTCTGCTTACAAGAGGGAGTGTATAAACCTCGGCTGTGAT
GTTGACTTTGATTTTGTGGACCTGCCATCCATGGGTCAGCTGTCTTTGGTTACGAGGGCTGGCTTGCTG
GGTACCAAATGACCTTTGACAGTGCCAAGTCAAAGCTGACAAGGAGTAACCTTTCAGTCCGCTACAGGAC
TGGGGACTTCCAGCTACACAAAATGTAATAATGGGACAGAATTTGGAGGATCAATTTATCAGAAAAGTA
TGTGAAGATTTTACACTTCAGTAACTCGCTTGGACATCAGGTACCAACTGCACTCGTTTTGGCATTG
CAGCTAAATACCAGTTGGATCCTACTGCTTCTATCTCTGCAAAGGTCAACAACTAGTTAATTGGAGT
GGGCTATGCTCAGACTCTGAGGCTGGTGTGAAGCTTACACTGTCTGCTGCTGGTAGACGGGAAGAGCTTT
AATGCTGGAGGCCACAACTTGGGCTTGCCTTGAATTGGAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204080 representing NM_011695
 Red=Cloning site Green=Tags(s)

MAECCVPVCPRPMCIPPPYADLGKAARDIFNKGFGFLVKLDVKTSCSGVEFSTSGSSNTDTGKVSGL
 ETKYKWCEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTDFDTFSPNTGKKSGBKIKSAYKRECINL
 GCDVDFDFAGPAIHGSAVFGYEGWLAGYQMTFDSAKSKLTRSNFVAVGYRTGDFQLHTNVNNGTEFGGSIYQKV
 CEDFDTSVNLAWTSGTNCTRFGIAAKYQLDPTASISAKVNNSSLIGVGYAQTLPKGVKLTLSALVDGKSF
 NAGGHKLGLELEEA

TRTRPLE - GFP Tag - V

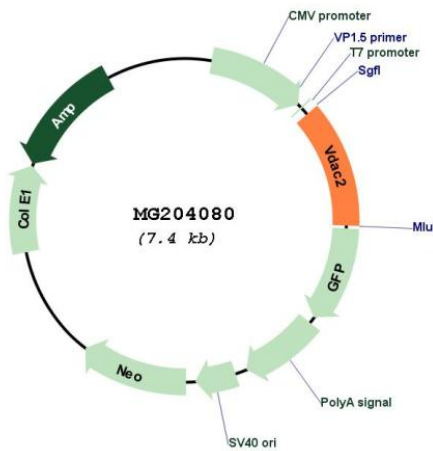
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011695

ORF Size: 885 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_011695.2 , NP_035825.1
RefSeq Size:	1662 bp
RefSeq ORF:	888 bp
Locus ID:	22334
UniProt ID:	Q60930
Cytogenetics:	14 11.91 cM
Gene Summary:	Forms a channel through the mitochondrial outer membrane that allows diffusion of small hydrophilic molecules. The channel adopts an open conformation at low or zero membrane potential and a closed conformation at potentials above 30-40 mV. The open state has a weak anion selectivity whereas the closed state is cation-selective (By similarity).[UniProtKB/Swiss-Prot Function]