

Product datasheet for **RG229862**

VDAC2 (NM_001184783) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VDAC2 (NM_001184783) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	VDAC2
Synonyms:	POR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229862 representing NM_001184783 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCTGGTGAATGAGCTCAGATTGCCTGCCCTTAAGCAGCACAGCATTGGCCGAGGACTTGAGAGTC
ACATTACAATGTGTATTCTCCATCATATGCTGACCTGGCAAAGCTGCCAGAGATATTTCAACAAAGG
ATTTGGTTTTGGTTGGTAAACTGGATGTGAAAACAAAGTCTTGCAAGTGGCGTGAATTTCAACGTCC
GGTTCATCTAATACAGACTGGTAAAGTACTGGGACCTTGAGACCAAATACAAGTGGTGTGAGTATG
GTCTGACTTTACAGAAAAGTGAACACTGATAAACTCTGGAAACAGAAATCGCAATTGAAGACCAGAT
TTGCAAGGTTTGAAACTGACATTTGATACTACCTTCTCACAAACACAGGAAAGAAAAGTGGTAAATC
AAGCTTCTTACAAGAGGGAGTGTATAAACCTTGTTGTGATGTTGACTTTGATTTTGCTGGACCTGCAA
TCCATGGTTCAGCTGTCTTTGGTTATGAGGGCTGGCTTGCTGGCTACCAGATGACCTTTGACAGTGCCAA
ATCAAAGCTGACAAGGAATAACTTTGCAGTGGGCTACAGGACTGGGGACTTCCAGCTACACACTAATGTC
AATGATGGGACAGAATTTGGAGGATCAATTTATCAGAAAGTTTGTGAAGATCTTGACACTTCAGTAAACC
TTGCTTGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAGCTAAATATCAGTTGGATCCCCTGC
TTCCATTTCTGAAAAGTCAACAACTCTAGCTTAATTGGAGTAGGCTATACTCAGACTCTGAGGCCTGGT
GTGAAGCTTACTCTCTGCTCTGGTAGATGGGAAGAGCATAATGCTGGAGGCCACAAGTTGGGCTCG
CCTGGAGTTGGAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229862 representing NM_001184783
 Red=Cloning site Green=Tags(s)

MSWCNELRLPALKQHSIGRGLESHITMCIPPSYADLGKAARDIFNKGFGLVKLDVKTCSGVEFSTS
 GSSNTDTGKVTGTLETKYKWCEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTFTTFSPNTGKKS
 KSSYKRECINLGDVDFDFAGPAIHGSAVFGYEGWLAGYQMTFDSAKSKLTRNNFAVGYRTGDFQLHTNV
 NDGTEFGGSIYQKVCEDLDTSVNLAWTSGTNCTRFGIAAKYQLDPTASISAKVNNSSLIGVGYTQLRPG
 VKLTLSALVDGKSIAGGHKVGLELEA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001184783

ORF Size: 927 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:

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_001184783.2](#), [NP_001171712.1](#)

RefSeq Size: 1963 bp

RefSeq ORF: 930 bp

Locus ID: 7417

UniProt ID: [P45880](#)

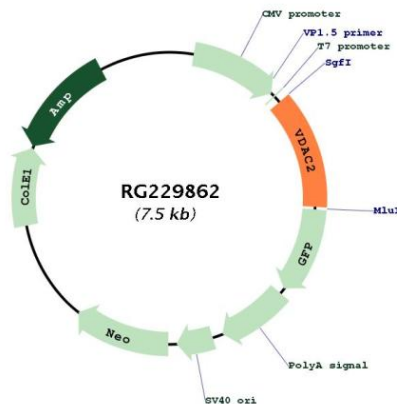
Cytogenetics: 10q22.2

Protein Families: Druggable Genome, Ion Channels: Other

Protein Pathways: Calcium signaling pathway, Huntington's disease, Parkinson's disease

Gene Summary: This gene encodes a member of the voltage-dependent anion channel pore-forming family of proteins that are considered the main pathway for metabolite diffusion across the mitochondrial outer membrane. The encoded protein is also thought to be involved in the mitochondrial apoptotic pathway via regulation of BCL2-antagonist/killer 1 protein activity. Pseudogenes have been identified on chromosomes 1, 2, 12 and 21, and alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

Product images:



Circular map for RG229862