

Product datasheet for **RG229844**

VDAC2 (NM_001184823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VDAC2 (NM_001184823) 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:	>RG229844 representing NM_001184823 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCCACGGACAGACTTGC GCGCTCCAATGTGTATTCTCCATCATATGCTGACCTTGCCAAAG
CTGCCAGAGATATTTCAACAAAGGATTTGGTTTTGGTTGGTAAAAGTGGATGTGAAAACAAAGTCTTG
CAGTGGCGTGGAATTTCAACGTCGGTTCATCTAATACAGACTGGTAAAAGTACTGGGACCTTGGAG
ACCAAACAAGTGGTGTGAGTATGGTCTGACTTTCACAGAAAAGTGAACACTGATAAACTCTGGGAA
CAGAAATCGCAATTGAAGACCAGATTTGTCAAGTTTGAAGTGCATTTGATACTACCTTCTCACAAA
CACAGGAAAGAAAAGTGGTAAAATCAAGTCTTCTTACAAGAGGGAGTGTATAAACCTTGGTTGTGATGTT
GACTTTGATTTTGTGGACCTGCAATCCATGGTTCAGCTGCTTTGGTTATGAGGCTGGCTTGCTGGCT
ACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGACAGTGGGCTACAGGACTGG
GGACTTCCAGCTACACACTAATGTCAATGATGGGACAGAAATTTGGAGGATCAATTTATCAGAAAAGTTGT
GAAGATCTTGACACTTCAGTAAACCTTGCTTGGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAG
CTAAATATCAGTTGGATCCACTGCTTCCATTTCTGCAAAAGTCAACACTCTAGCTTAATTGGAGTAGG
CTATACTCAGACTCTGAGGCCTGGTGTGAAGCTTACACTCTGCTCTGGTAGATGGGAAGAGCATTAAAT
GCTGGAGGCCACAAGTTGGGCTCGCCCTGGAGTTGGAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229844 representing NM_001184823
 Red=Cloning site Green=Tags(s)

MATHGQTCARPMCIPPSYADLGKAARDIFNKGFGFLVKLDVTKSCSGVEFSTSGSNTDTGKVTGTLE
 TKYKWCEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLFDTTFSPNTGKKSGKIKSSYKRECINL GCDV
 DFDFAGPAIHGSAVFGYEGWLAGYQMTFDSA SKSLTRNNFVAVGYRTGDFQLHTNVNDGTEFGGSIYQKVC
 EDLDTSVNLAWTSGTNC TRFGIAAKYQLDPTASISAKVNNSSLIGVGYTQTLRPGVKLTL SALVDGKSIN
 AGGHKVGLALELEA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001184823

ORF Size: 882 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_001184823.1](#), [NP_001171752.1](#)

RefSeq Size: 1447 bp

RefSeq ORF: 885 bp

Locus ID: 7417

UniProt ID: [P45880](#)

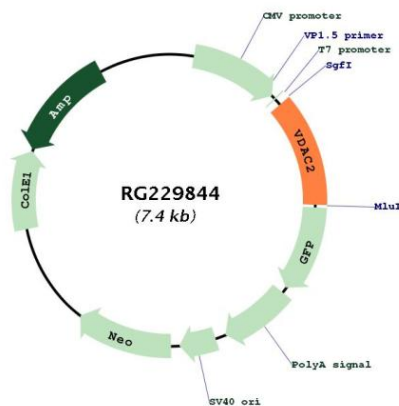
Cytogenetics: 10q22.2

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 RG229844