

Product datasheet for **RG220035**

VDAC2 (NM_003375) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VDAC2 (NM_003375) 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:	>RG220035 representing NM_003375 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCCACGGACAGACTTGC GCGCTCCAATGTGTATTCTCCATCATATGCTGACCTTGGCAAAG
CTGCCAGAGATATTTCAACAAAGGATTTGGTTTTGGTTGGTGAAGTGGATGTGAAAACAAAGTCTTG
CAGTGGCGTGGAATTTCAACGTCGGTTCATCTAATACAGACTGGTAAAGTTACTGGGACCTTGGAG
ACCAAACAAGTGGTGTGAGTATGGTCTGACTTTCACAGAAAAGTGAACACTGATAAACTCTGGGAA
CAGAAATCGCAATTGAAGACCAGATTTGTCAAGTTTGAAGTGAATTTGATACTACCTTCTCACAAA
CACAGGAAAGAAAAGTGGTAAAATCAAGTCTTCTTACAAGAGGGAGTGTATAAACCTTGGTTGTGATGTT
GACTTTGATTTTGTGGACCTGCAATCCATGGTTCAGCTGTCTTTGGTTATGAGGCTGGCTTGGCTGGCT
ACCAGATGACCTTTGACAGTGCCAAATCAAAGCTGACAAGGAATAACTTTGACAGTGGGCTACAGGACTGG
GGACTTCCAGCTACACACTAATGTCAACGATGGGACAGAAATTTGGAGGATCAATTTATCAGAAAATTTGT
GAAGATCTTGACACTTCAAGTAACTTGGCTTGGACATCAGGTACCAACTGCACTCGTTTTGGCATTGCAG
CTAAATATCAGTTGGATCCACTGCTTCCATTTCTGCAAAAGTCAACACTCTAGCTTAATTGGAGTAGG
CTATACTCAGACTCTGAGGCCTGGTGTGAAGCTTACACTCTGCTCTGGTAGATGGGAAGAGCATTAAAT
GCTGGAGGCCACAAGTTGGGCTCGCCCTGGAGTTGGAGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220035 representing NM_003375
Red=Cloning site Green=Tags(s)

MATHGQTCARPMCIPPSYADLGKAARDIFNKGFGFLVKLDVTKSCSGVEFSTSGSSNTDTGKVTGTLE
 TKYKWCEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLFDTTFSPNTGKKSGKIKSSYKRECINL GCDV
 DFDFAGPAIHGSAVFGYEGWLAGYQMTFDSAKSKLTRNNFVAVGYRTGDFQLHTNVNDGTEFGGSIYQKVC
 EDLDTSVNLAWTSGTNC TRFGIAAKYQLDPTASISAKVNNSSLIGVGYTQTLRPGVKLTL SALVDGKSIN
 AGGHKVGLALELEA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003375

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_003375.2](#), [NP_003366.2](#)

RefSeq Size: 1522 bp

RefSeq ORF: 885 bp

Locus ID: 7417

UniProt ID: [P45880](#)

Cytogenetics: 10q22.2

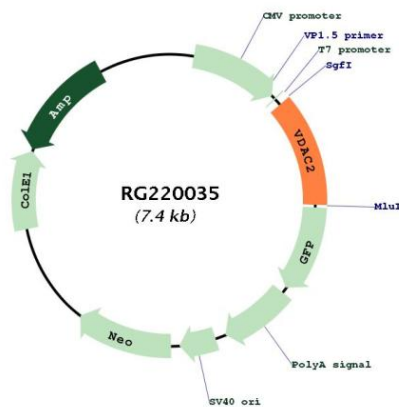
Domains: Euk_porin

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 RG220035