

Product datasheet for **SC324880**

VDAC3 (NM_001135694) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VDAC3 (NM_001135694) Human Untagged Clone
Tag:	Tag Free
Symbol:	VDAC3
Synonyms:	HD-VDAC3; VDAC-3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_001135694 edited
ATGTGTAACACACCAACGTAAGTGTGACCTAGGAAAGGCTGCTAAGGATGTCTTCAACAAA
GGATATGGCTTTGGCATGGTCAAGATAGACCTGAAAACCAAGCTTGTAGTGGAGTGATG
GAATTTTCTACTTCTGGTCATGCTTACACTGATACAGGGAAAGCATCAGGCAACCTAGAA
ACCAAATAAAGGTCTGTAAGTATGGAAGTACCTTACCCAGAAATGGAACACAGACAAT
ACTCTAGGACAGAAATCTCTGGGAGAATAAGTTGGCTGAAGGGTTGAAACTGACTCTT
GATACCATATTTGTACCGAACACAGGAAAGAAGAGTGGGAAATTGAAGGCCTCTATAAA
CGGGATTGTTTTAGTGTGGCAGTAATGTTGATATAGATTTTCTGGACCAACCATCTAT
GGCTGGGCTGTGTGGCCTTCGAAGGGTGGCTTGTGGCTATCAGATGAGTTTTGACACA
GCCAAATCCAACTGTCACAGAATAATTCGCCCTGGGTACAAGGCTGCGGACTCCAG
CTGCACACACATGTGAACGATGGCACTGAATTTGGAGTTCTATCTACCAGAAGGTGAAT
GAGAAGATTGAAACATCCATAAACCTTGCTTGGACAGCTGGGAGTAACAACACCCGTTTT
GGCATTGTGCTAAGTACATGCTGGATTGTAGAACTTCTCTCTGCTAAAGTAAATAAT
GCCAGCCTGATTGGACTGGGTATACTCAGACCCTTCGACCAGGAGTCAAATTGACTTTA
TCAGCTTAAATCGATGGGAAGAAGTTCAGTGCAGGAGGTCACAAGGTTGGCTTGGGATT
GAACTGGAAGCTTAA

Restriction Sites: Please inquire

ACCN: NM_001135694

Insert Size: 1557 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001135694.1 , NP_001129166.1
RefSeq Size:	1557 bp
RefSeq ORF:	1557 bp
Locus ID:	7419
UniProt ID:	Q9Y277
Cytogenetics:	8p11.21
Protein Families:	Druggable Genome, Ion Channels: Other
Protein Pathways:	Calcium signaling pathway, Huntington's disease, Parkinson's disease
Gene Summary:	<p>This gene encodes a voltage-dependent anion channel (VDAC), and belongs to the mitochondrial porin family. VDACS are small, integral membrane proteins that traverse the outer mitochondrial membrane and conduct ATP and other small metabolites. They are known to bind several kinases of intermediary metabolism, thought to be involved in translocation of adenine nucleotides, and are hypothesized to form part of the mitochondrial permeability transition pore, which results in the release of cytochrome c at the onset of apoptotic cell death. Alternatively transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (2) contains an additional, in-frame 3 nt coding exon compared to variant 1. This results in an isoform (2) that is 1 aa longer than isoform 1. The short exon is supported by PMID:10833333, and orthologs in mouse, rat and bovine.</p>