

Product datasheet for SC122051

VDAC3 (NM_005662) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VDAC3 (NM_005662) Human Untagged Clone
Tag:	Tag Free
Symbol:	VDAC3
Synonyms:	HD-VDAC3; VDAC-3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC122051 sequence for NM_005662 edited (data generated by NextGen Sequencing)

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ATGTGTAACACACCAACGTACTGTGACCTAGGAAAGGCTGCTAAGGATGTCTTCAACAAA
GGATATGGCTTTGGCATGGTCAAGATAGACCTGAAAACCAAGTCTTGTAGTGGAGTGGAA
TTTTCTACTTCTGGTCATGCTTACACTGATACAGGAAAAGCATCAGGCAACCTAGAAACC
AAATATAAGGTCTGTAACATGGAACCTTACCCAGAAAATGGAACACAGACAATACT
CTAGGGACAGAAAATCTCTGGGAGAATAAGTTGGCTGAAGGGTTGAAACTGACTCTTGAT
ACCATATTTGTACCGAACACAGGAAAGAAGAGTGGGAAATTGAAGGCTCCTATAAACGG
GATTGTTTTAGTGTGGCAGTAATGTTGATATAGATTTTTCTGGACCAACCATCTATGGC
TGGGCTGTGTGGCCTTGAAGGGTGGCTTGTGGCTATCAGATGAGTTTTGACACAGCC
AAATCCAAACTGTCACAGAATAATTTGCGCCTGGGTTACAAGGCTGCGGACTTCCAGCTG
CACACACATGTGAACGATGGCACTGAATTTGGAGTTCTATCTACCAGAAGGTGAATGAG
AAGATTGAAACATCCATAAACCTTGCTTGGACAGCTGGGAGTAACAACACCCGTTTTGGC
ATTGCTGCTAAGTACATGCTGGATTGTAGAACTTCTCTCTGCTAAAGTAAATAATGCC
AGCCTGATTGGACTGGGTATACTCAGACCCTTCGACCAGGAGTCAAATTGACTTTATCA
GCTTTAATCGATGGGAAGAATTTCAGTGCAGGAGGTCACAAGGTTGGCTTGGGATTTGAA
CTGGAAGCTTAA

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Clone variation with respect to NM_005662.5



[View online »](#)

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005662 unedited</p> <pre> ATTTTGTACTACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGGAGCAGACCA GGCCCTCGGGGTGGAGGTCTTTGGTTTCATAAGAGCCTGAGAGAGATTTTCTAAGATAT GTGTAACACACCAACGTAAGTGTGACCTAGGAAAGGCTGCTAAGGATGTCTTCAACAAAGG ATATGGCTTTGGCATGGTCAAGATAGACCTGAAAACCAAGTCTTGTAGTGGAGTGAAT TTCTACTTCTGGTCATGCTTACACTGATACAGGGAAAGCATCAGGCAACCTAGAAACCAA ATATAAGGTCTGTAAGTATGGACTTACCTTACCCAGAAATGGAACACAGACAATACTCT AGGGACAGAAATCTCTTGGGAGAATAAGTTGGCTGAAGGTTGAAACTGACTCTTGATAC CATATTTGTACCGAACACAGGAAAGAAGAGTGGGAAATTGAAGGCCTCCTATAAACGGGA TTGTTTTAGTGTGGCAGTAATGTTGATATAGATTTTTCTGGACCAACCATCTATGGCTG GGCTGTGTTGGCCTTCGAAGGGTGGCTTGGCTATCAGATGAGTTTTGACACAGCCAA ATCCAACTGTACAGAATAATTCGCCCTGGGTACAAGGCTGCGGACTTCCAGCTGCA CACACATGTGAACGATGGCACTGAATTTGGGAGTTCTATCTACCACGAAGGTGAATGAG AAAGATTGAAACATCCATAAACCTTGCTTGGACGCTTGGGAGTAACACACCCGGTNTTGC ATTGTTGCTAAGACATGCCTGAATGGAAAACCTTCTTCTCTGCTAAGTAATAATGCACCC TGATGGACCTGGTTTATCCACACCTTCGACCAGAGCCAATGCTTTACAGCTAATCG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_005662 unedited</p> <pre> GAGTTTTTTTTTCGGTTTTTTTTTTTATGTTCCAAATGTGATGGGTTTTATTTATTTTAC TATGATGCAAAACCAAAGATTCCACTATAGCACAGAGACCAGTATATTACAAGGTCATGA AAAAATGGTGTGGGACATGCAGGACGTGATGTACAACTGGTGGGTCAGATCGTCTCCTC TAACATGACGCTACACTGTCGCTGAGGAACACATTTAATAACACTTCAGAACTGAACTGA AACGTGGCACAAACATGACAACCTCCAGGCATGCCTTCAAGCATCTCCCTCAGGAGGGAT TCGCAACCCTAGACTTCAGTGTGGGAGGATTACAATCTTTGGAAGAATAAAAAGTTC ACACTTTTGAAATTTACAGAAGAATTTAAGGCCAAAACATAGTGGGTTCAATTTCTCTT CACTTCCAGGGACAAATCTGATGCTTTCCTCAAACCACATTAAGCTTCCAGTTCAAATCC CAAGCCAACCTTGTGACCTCCTGCACTGAAGTTCTTTCCATCGATTAAGCTGATAAAGT CAATTTGACTCCTGGGTCGAGGTTCTGAGTATAACCCATTCCATCAGGCTGGCATATTAC TTTACAGAAGAGAAGTCTTCCCTCCACTGTAATACCACATGCAAAACGGTGTGTCTCC ACTGTCAACCAGTTATGAGGTCAACT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005662
Insert Size:	1500 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).
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_005662.3 , NP_005653.3
RefSeq Size:	1414 bp
RefSeq ORF:	852 bp
Locus ID:	7419
UniProt ID:	Q9Y277
Cytogenetics:	8p11.21
Domains:	Euk_porin
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 (1) represents the predominant transcript, and encodes isoform 1.</p>