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Product datasheet for SC310014

SERCA3 (ATP2A3) (NM_005173) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERCA3 (ATP2A3) (NM_005173) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERCA3
Synonyms:	SERCA3
Vector:	pCMV6 series

Fully Sequenced ORF:

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>NCBI ORF sequence for NM_005173, the custom clone sequence may differ by one or more
nucleotides
ATGGAGGCGGCGCATCTGCTCCCGGCCGCCGACGTGCTGCGCCACTTCTCGGTGACAGCC
GAGGGCGGCCTGAGCCCGGCGCAGGTGACCGGCGCGCGGGAGCGCTACGGCCCCAACGAG
CTCCCGAGTGAGGAAGGGAAGTCCCTGTGGGAGCTGGTGCTGGAACAGTTTGAGGACCTC
CTGGTGCGCATCCTGCTGCTGGCTGCCCTTGTCTCCTTTGTCCTGGCCTGGTTCGAGGAG
GGCGAGGAGACCACGACCGCCTTCGTGGAGCCCCTGGTCATCATGCTGATCCTCGTGGCC
AACGCCATTGTGGGCGTGTGGCAGGAACGCAACGCCGAGAGTGCCATCGAGGCCCTGAAG
GAGTATGAGCCTGAGATGGGCAAGGTGATCCGCTCGGACCGCAAGGGCGTGCAGAGGATC
CGTGCCCGGGACATCGTCCCAGGGGACATTGTAGAAGTGGCAGTGGGGGACAAAGTGCCT
GCTGACCTCCGCCTCATCGAGATCAAGTCCACCACGCTGCGAGTGGACCAGTCCATCCTG
ACGGGTGAATCTGTGTCCGTGACCAAGCACACAGAGGCCATCCCAGACCCCAGAGCTGTG
AACCAGGACAAGAAGAACATGCTGTTTTCTGGCACCAATATCACATCGGGCAAAGCGGTG
GGTGTGGCCGTGGCCACCGGCCTGCACACGGAGCTGGGCAAGATCCGGAGCCAGATGGCG
GCAGTCGAGCCCGAGCGGACGCCGCTGCAGCGCAAGCTGGACGAGTTTGGACGGCAGCTG
TCCCACGCCATCTCTGTGATCTGCGTGGCCGTGTGGGTCATCAACATCGGCCACTTCGCC
GACCCGGCCCACGGTGGCTCCTGGCTGCGTGGCGCTGTCTACTACTTCAAGATCGCCGTG
GCCCTGGCGGTGGCGGCCATCCCCGAGGGCCTCCCGGCTGTCATCACTACATGCCTGGCA
CTGGGCACGCGGCGCATGGCACGCAAGAACGCCATCGTGCGAAGCCTGCCGTCCGTGGAG
ACCCTGGGCTGCACCTCAGTCATCTGCTCCGACAAGACGGGCACGCTCACCACCAATCAG
ATGTCTGTCTGCCGGATGTTCGTGGTAGCCGAGGCCGATGCGGGCTCCTGCCTTTTGCAC
GAGTTCACCATCTCGGGTACCACGTATACCCCCGAGGGCGAAGTGCGGCAGGGGGATCAG
CCTGTGCGCTGCGGCCAGTTCGACGGGCTGGTGGAGCTGGCGACCATCTGCGCCCTGTGC
AACGACTCGGCTCTGGACTACAACGAGGCCAAGGGTGTGTATGAGAAGGTGGGAGAGGCC
ACGGAGACAGCTCTGACTTGCCTGGTGGAGAAGATGAACGTGTTCGACACCGACCTGCAG
GCTCTGTCCCGGGTGGAGCGAGCTGGCGCCTGTAACACGGTCATCAAGCAGCTGATGCGG
AAGGAGTTCACCCTGGAGTTCTCCCGAGACCGGAAATCCATGTCCGTGTACTGCACGCCC
ACCCGCCCTCACCCTACTGGCCAGGGCAGCAAGATGTTTGTGAAGGGGGCTCCTGAGAGT
GTGATCGAGCGCTGTAGCTCAGTCCGCGTGGGGAGCCGCACAGCACCCCTGACCCCCACC
TCCAGGGAGCAGATCCTGGCAAAGATCCGGGATTGGGGCTCAGGCTCAGACACGCTGCGC
TGCCTGGCACTGGCCACCCGGGACGCGCCCCCAAGGAAGGAGGACATGGAGCTGGACGAC
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TGCAGCAAGTTTGTGCAGTACGAGACGGACCTGACCTTCGTGGGCTGCGTAGGCATGCTG
GACCCGCCGCGACCTGAGGTGGCTGCCTGCATCACACGCTGCTACCAGGCGGGCATCCGC
GTGGTCATGATCACGGGGGATAACAAAGGCACTGCCGTGGCCATCTGCCGCAGGCTTGGC
ATCTTTGGGGACACGGAAGACGTGGCGGGCAAGGCCTACACGGGCCGCGAGTTTGATGAC
CTCAGCCCCGAGCAGCAGCGCCAGGCCTGCCGCACCGCCCGCTGCTTCGCCCGCGTGGAG
CCCGCACACAAGTCCCGCATCGTGGAGAACCTGCAGTCCTTTAACGAGATCACTGCTATG
ACTGGCGATGGAGTGAACGACGCACCAGCCCTGAAGAAAGCAGAGATCGGCATCGCCATG
GGCTCAGGCACGGCCGTGGCCAAGTCGGCGGCAGAGATGGTGCTGTCAGATGACAACTTT
GCCTCCATCGTGGCTGCGGTGGAGGAGGGCCGGGCCATCTACAGCAACATGAAGCAATTC
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CTGGGCCTGCCCGAAGCCCTGATCCCTGTGCAGCTGCTCTGGGTGAACCTGGTGACAGAC
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GAGGGACCTCACATCAACTTCTACCAGCTGAGGAACTTCCTGAAGTGCTCCGAAGACAAC
CCGCTCTTTGCCGGCATCGACTGTGAGGTGTTCGAGTCACGCTTCCCCACCACCATGGCC
TTGTCCGTGCTCGTGACCATTGAAATGTGCAATGCCCTCAACAGCGTCTCGGAGAACCAG
TCGCTGCTGCGGATGCCGCCCTGGATGAACCCCTGGCTGCTGGTGGCTGTGGCCATGTCC
ATGGCCCTGCACTTCCTCATCCTGCTCGTGCCGCCCCTGCCTCTCATTTTCCAGGTGACC
CCACTGAGCGGGCGCCAGTGGGTGGTGGTGCTCCAGATATCTCTGCCTGTCATCCTGCTG
GATGAGGCCCTCAAGTACCTGTCCCGGAACCACATGCACGAAGAAATGAGCCAGAAGTGA

Restriction Sites: Please inquire

ACCN: NM_005173

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).

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:
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_005173.2, NP_005164.2

RefSeq Size: 4698 bp

RefSeq ORF: 3000 bp

Locus ID: 489

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UniProt ID:	Q93084
Cytogenetics:	17p13.2
Domains:	E1-E2_ATPase, Cation_ATPase_N, Hydrolase, Cation_ATPase_C
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Alzheimer's disease, Calcium signaling pathway
Gene Summary:	This gene encodes one of the SERCA Ca(2+)-ATPases, which are intracellular pumps located in the sarcoplasmic or endoplasmic reticula of muscle cells. This enzyme catalyzes the hydrolysis of ATP coupled with the translocation of calcium from the cytosol to the sarcoplasmic reticulum lumen, and is involved in calcium sequestration associated with muscular excitation and contraction. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes isoform a.

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