

Product datasheet for **RC239585**

SPCA2 (ATP2C2) (NM_001291454) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPCA2 (ATP2C2) (NM_001291454) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATP2C2
Synonyms:	SPCA2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC239585 representing NM_001291454
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGGACGCCGTCAGCATCGCCACGGCAGTGCTTGTCTGGTCACTGTCGCCTTCATCCAGCCTAAGAG
AAGGAAAACCTCCAGCACCTGCTTGTCTCGAGAACTGGTTCTCTGGTATGTGTATCTCTCTCGATCGGAGA
CCGGATCCCTGCAGACATCCGACTCACTGAGGTCACGGACCTCTTGGTGGATGAATCCAGTTTACCAGGG
GAAGCCGAGCCATGTAGTAAAACAGACAGCCCCTTGACAGGCGGTGGGACCTCACCACCCTCAGCAACA
TCGTCTTCATGGGACCTGGTGCAGTATGGGAGGGGCCAGGGGTCTGTATTGGAACAGGGGAAAGCTC
TCAGTTCGGAGAAGTGTAAAGATGATGCAGGCTGAAGAGACACCTAAAACCTCTTTGCAGAAAAGCATG
GACAGGCTAGGAAAGCAACTGACTCTTCTCTTTGGCATAATCGGTCTCATCATGCTCATTGGCTGGT
CGCAAGGGAAACAACCTCTGAGTATGTTACAGATCGGGGTGAGCCTGGCTGTGGCGGCCATTCCAGAGGG
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CTGCCAATGAAATGACAGTGACCCAGCTTGAACGTGAGATGGGCTTCGTGCCGAGGTGACGCGGAGTTGG
GTATGACGGTCAAGGGACTGTGTCTTCTACCATCCAAGGAAGTCATTAAGGAATTTCCAATGTCTCA
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GATCAGGAAGACATTTACTTCATGAAAGGGCCCTTGAAGAGGTGATCCGCTACTGCACCATGTACAACA
ACGGGGGCATCCCCCTGCCGCTGACGCCCCAGCAGAGGTGATTTCTGCCTGCAGGAAGAGAGGATGGG
GTCGCTCGGTTTGCGGGTGCTGGCCCTGGCTTCTGGGCCCGAGCTGGGGCGGCTGACGTTTCTCGGTCTT
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CGGGAAGCTGCAAGCCATGTCCGGGAGGAGGTGGACAGCGTGGAGAAGGGCGAGCTGGCCGACCGCGTG
GGGAAGGTGTCCGTGTTCTTCCAGGACAGCCAAAGCACAAGCTCAAAATCATCAAGGCTCTGCAGGAGT
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ATGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239585 representing NM_001291454
 Red=Cloning site Green=Tags(s)

MRTPSASPRQCLSWSLSPSSSLREGKLQHLLARELVPGDVVLSIGDRIPADIRL TEVTDLLVDESSFTG
 EAEPCKTDSPLTGGDDLTTLSNIVFMGTLVQYGRGQGVVIGTESSQFGEVFKMMQAEETPKTPLQKSM
 DRLGKQLTLFSFGIIGLIMLIGWSQKQLLSMFTIGVSLAVAAIPEGLPIVVMVTLVLGVLRLMAKKRVIV
 KKLPIVETLGCSSVLCSDKTGTLTANEMTVTQLVTSGLRAEVSQVGYDGGQTVCLLPKKEIKFVSNVS
 VGKLV EAGCVANNAVIRKNAVMGQPTGALMALAMKMDLSDIKNSYIRKKEIPFSSEQWMAVKCSLKTE
 DQEDIYFMKGALEEVIRYCTMYNNGGIPLPLTPQORSFCLQEEKRMGSLGLRVLALASGPELGRLTFLGL
 VGIIDPPRVGVKEAVQVLSSEGSVSKMITGDALETALAIGRNIGLCNGKLQAMSGEEVDSVEKGELADRV
 GKYSVFFRTSPKHKLKI I KALQESGAI VAMTGDGVNDAVALKSADIGIAMQTGTDVSKEAANMILVDDD
 FSAIMNAVEEGKGFYNIKNFVRFQLSTSISALSLITLSTVFNLPSPLNAMQILWINIIDGPPAQSLGV
 EPVDKDAFRQPPRSVRDILSRALILKILMSAAIIISGTLFIFWKEMPEDRASTPRTTTTMTFTCFVFFDL
 FNALTCRSQTKLIFEIGFLRNHMF LYSVLGSILGQLAVIYIPPLQRFVQ TENLGALDLLFLTGLASSVFI
 LSELLKLCCKYCCSPKRVQMPEDV

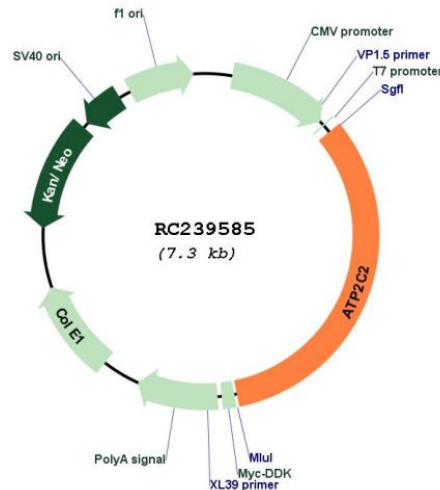
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001291454

ORF Size: 2385 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_001291454.1](#), [NP_001278383.1](#)

RefSeq Size: 2987 bp

RefSeq ORF: 2388 bp

Locus ID: 9914

UniProt ID: [O75185](#)

Cytogenetics: 16q24.1

Protein Families: Druggable Genome, Transmembrane

MW: 86.6 kDa

Gene Summary: This magnesium-dependent enzyme catalyzes the hydrolysis of ATP coupled with the transport of calcium.[UniProtKB/Swiss-Prot Function]