

Product datasheet for **RC208534**

SMARCC1 (NM_003074) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCC1 (NM_003074) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SMARCC1
Synonyms:	BAF155; CRACC1; Rsc8; SRG3; SWI3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208534 representing NM_003074 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGACGCGGGCGGGCGGGCGGGGACAGCGGTAGGCGCCACGGGCTCGGGGATTGCGGCGG
CAGCCGACGGCTAGCTGTTTATCGACGGAAGGATGGGGGCCCGCCACCAAGTTTTGGGAGAGCCCGGA
GACGGTGTCCAGCTGGATTCGGTGCGGGTCTGGCTGGCAAGCACTACAAGAAGTATGTTTCATGCGGAT
GCTCCTACCAATAAAACTGGCTGGGCTGGTGGTGCAGCTTCTTCAGTCCAGGAAGATGCCTTTGGGA
AGCATGTCACCAACCCGGCTTACCAAACTCCCTGCAAAGTGTTCATGGATTTCAAAGCTGGAGCGC
CTTATGTCACATTCCTGGGGCTGCTTACAAGTATAAAAAAGAAGGATGGCGGAGGTTTGACCTACAG
AACCCATCTCGAATGGATCGTAATGTGGAAATGTTTATGAACATTGAAAAACATTGGTGCAGAACAATT
GTTTGACCAGACCAACATCTACCTCATTCCAGACATTGATCTGAAGTTGGCTAACAAATTGAAAGATAT
CATCAAACGACATCAGGGAACATTTACGGATGAGAAGTCAAAGCTTCCACCACATTTACCCATATTCT
TCCTCACAAGACGATGAAGAATGGTTGAGACCGGTGATGAGAAAAGAGAAGCAAGTGTAGTGCATTGGG
GCTTTTACCCAGACAGCTATGATACTTGGGTCCATAGTAATGATGTTGATGCTGAAATGAAGATCCACC
AATTCAGAAAAACCATGGAAGGTTTCATGTGAAATGGATTTTGGACACTGATATTTCAATGAATGGATG
AATGAGGAGGATTATGAGGTGGATGAAAAAGGAAGCCTGTGAGTTTTTCGTCAGCGGATTTCAACCAAGA
ATGAAGAGCCAGTCAGAAGTCCAGAAAAGAGATAGAAAAGCATCAGCTAATGCTCGAAAAGAGGAAACA
TTCGCCTTCGCCTCCCTCCGACACCAACAGAATCACGGAAGAAGAGTGGGAAGAAGGCAAGCTAGC
CTTTATGGGAAGCGCAGAAGTCAGAAAAGGAAGATGAGCAAGAAGATCTAACCAAGGATATGGAAGACC
CAACACCTGTACCAATATAGAAGAAGTAGTACTTCCAAAAATGTGAACCTAAAGAAAGATAGTAAAA
TACACCTGTTAAAGGAGGAAGTGTAGCGGATCTAGATGAGCAGGATGAAGAAACAGTCACAGCAGGAGGA
AAGGAAGATGAAGATCCTGCCAAAGGTGATCAGAGTCGATCAGTTGACCTTGGGGAAGATAATGTGACAG
AGCAGACCAATCACATTATTTCCTAGTTATGCATCATGTTTATTGATTATAACTGTATTCATGTGATTGA
ACGGCGTGTCTTCTGAGTTCTCAATGAAAAACAAATCCAAGACTCCAGAAATATACTTGGCATAT



[View online >](#)

CGAAATTTTATGATTGACACGTATCGTCTAAACCCCAAGAGTATTTAACTAGCACTGCTTGTCCGGAGGA
 ACTTGACTGGAGATGTGTGTGCTGTGATGAGGGTCCATGCCTTTTTAGAGCAGTGGGGACTCGTTAATTA
 CCAAGTTGACCCGAAAGTAGACCCATGGCAATGGGACCTCCTCCTACTCCTCATTTTTAATGATTAGCT
 GATACCCCTCTGGGCTTGTGCCTCTGCATCTTCGATCACCTCAGGTTCTGTGCTCAACAGATGCTAA
 ATTTTCTGAGAAAAACAAGGAAAAACAGTTGATTTGCAGAACTTTGGTCTCCGTAAGTACTGACATTTACTC
 CAAGAAAAATTAGCAAAGAGTAAAGGTGCTAGTGTGGAAGAGAATGGACTGAACAGGAGACCCCTCTA
 CCCTGGAGGCCCTGGAGATGTACAAGGATGATTGGAACAAAGTGTGGAACATGTTGGAAGCTCGTACTC
 AGGATGAATGCATCCTCCACTTTTTGAGACTTCCATTGAGGACCATACCTTGAGAATTAGATGCTTC
 CCTTGGGCCTTTGGCCTACCAGCCTGTCCCTTCACTCAGTCAAGGAAATCCAGTTATGAGTACTGTTGCT
 TTTTTGGCATCTGTGGTGGACCTCGCGTGGCATCTGCTGCAGCAAAAAGCGGCTTTGGAGGAGTTTTCTC
 GGGTCCGGGAGGAGTACCCTGGAATGGTTGAAGCTCATGTCAAGAAAGTACAAGAAGCAGCAGCAGC
 CTCTGGGAAAGTGGATCCACCTACGGTCTGGAGAGCAGCTGCATTGCAGGCACAGGGCCCGATGAGCCA
 GAGAAGCTTGAAGGAGCTGAAGAGGAAAAATGGAAGCCGACCCTGATGGTCAGCAGCCTGAAAAGCGAG
 AAAATAAAGTGGAAAATGAAACGGATGAAGGTGATAAAGCACAAGATGGAGAAAAAGAAAAAATAGTGA
 AAAGAACAGGATAGTGAAGTGAAGTGAAGGATACCAAAATCAGAAGAAAAGGAGACTGAAGAGAACAAGAA
 CTAAGTATACATGATAAAGAAAGAGAAAGTGAAGTACTGGGAAGAAGAAAGTGAACATGAAATTTCCGAAG
 GAAATGTTGCCACAGCCGAGCAGCTGCTTGCCTCAGCGGCTACCAAAGCCAAGCACCTGGCTGCAGT
 GGAAGAAAGAAAGATCAAGTCCCTGGTAGCTCTTGGTTGAGACACAAATGAAGAACTAGAGATCAAA
 CTTTCGACATTTTGAAGAGCTGGAAGTATCATGGACAGAGAGAAAGAAAGCTTAGAACACAGAGGCAGC
 AGTTGCTTACTGAACGCCAAAACCTCCACATGGAACAGCTGAAGTATGCTGAATTACGAGCAGCAGCAGCA
 AATGGAACAGCAGCAGCATGGCCAGAACCCTCAACAGGCACACCAGCACTCAGGAGGACCTGGCCTGGCC
 CCCTTGGAGCAGCAGGGCACCCTGGCATGATGCCTCATCAACAGCCCTCCCTACCCTCTGATGCACC
 ACCAGATGCCACCACCTCATCCACCCAGCCAGGTCAGATACCAGGCCAGGTTCCATGATGCCCGGGCA
 GCACATGCCAGGCCGATGATTCCCACTGTTGCAGCCAACATCCACCCCTCTGGGAGTGGCCCTACCCT
 CCTGGCATGCCACCAATGCCAGGAAACATCTTAGGACCCCGGTTACCCCTGACAGCACCTAACGGCATGT
 ATCCCTCCACACAGCAGCAGCCACCACCACCTGCAGATGGGGTCCCTCCGCTCCTGCTCC
 TGGCCCGCCAGCCTCAGCTGCTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208534 representing NM_003074
 Red=Cloning site Green=Tags(s)

MAAAGGGGPGTAVGATGSGIAAAAAGLAVYRRKDGGPATKFWESPETVSQLDSVRVWLKHYKYYVHAD
 APTNKTLAGL VVQLLQFQEDAFGKHVTNPAFTKLPKACFMDFKAGGALCHILGAAYKYKNEQGWRFFDLQ
 NPSRMDRNVEMFMNIEKTLVQNNCLTRPNIYLPDIIDLKLANCLKDIKIRHQGTF TDEKSKASHHIYPYS
 SSQDDEEWL RPYMRKEKQVLVHWGFYPDSYDTWVHSNDVDAEIEDPP IPEKPKVHVWVWILD TDI FNEWM
 NEEDYEVDENRKPVSFRQRI STKNEEVPVSPERRDRKASANARKRKHSPSPPPPTPTESRKKSGKKQAS
 LYGKRRSQKEEDEQEDLTKDMEDPTVPVNIIEVVLPKNVNLKDKSENTPVKGGTVADLDEQDEETVTAGG
 KEDEDPAKGDQSRVDLGEDNVTEQTNHIIIPSYASWFDYNCIHVIERRALPEFFNGKNKSKTPEIYLAY
 RNFIMIDTYRLNPQEYL TSTACRRNL TGDVCAVMRVHAFLEQWGL VNYQVDPE SRPMAMGPPPTPHFNVLA
 DTPSGLVPLHLRSPQVPAQQMLNFPEKNKEKPVDLQNFGLRTDIYSKTLAKSKGASAGREWTEQETLL
 LLEALEMYKDDWNKVSEHVGSR TQDECILHFLRLPIEDPYLENSDASLGLAYQVPVFSQSGNPVMSTVA
 FLASVVDPRVASAAAKALEEF SRVREEVPLEL VEAHVKKVQEAARASGKVDPTYGLESSCIAGTGPDEP
 EKLEGAEEKMEADPDGQPEKAENKVENETDEGDKAQDGENEKNSEKEQDSEVSEDTKSEKETEENKE
 LTDCTKERESDTGKKKVEHEI SEGNVATAAAAALASAATKAKHLAAVEERKIKSLVALLVETQMKKLEIK
 LRHFEEL ETIMDREKEALEQQRQQL TERQNFHMEQLKYAELRARQQMEQQHQNPQQAHQHSGGPGLA
 PLGAAGHPGMMPHQPPPYPLMHHQMPHPHPQPGQIPGPGSMMPGQHMPGRMIPTVAANIHPSGSGPTP
 PGMPMPGNILGRVPLTAPNGMYPPPPQQPPPPPPADGVPPPPAPGPPASAAP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8113_g10.zip
Restriction Sites: SgfI-MluI
Cloning Scheme:



ACCN: NM_003074

ORF Size: 3315 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_003074.4](#)

RefSeq Size: 5780 bp

RefSeq ORF: 3318 bp

Locus ID: 6599

UniProt ID: [Q92922](#)

Cytogenetics: 3p21.31

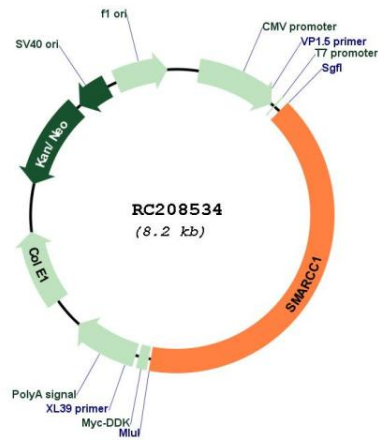
Domains: CHROMO, myb_DNA-binding, SWIRM

Protein Families: Stem cell - Pluripotency, Transcription Factors

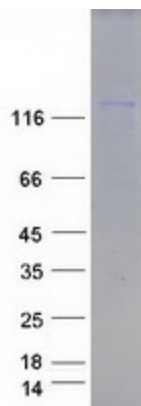
MW: 122.9 kDa

Gene Summary: The protein encoded by this gene is a member of the SWI/SNF family of proteins, whose members display helicase and ATPase activities and which are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI and contains a predicted leucine zipper motif typical of many transcription factors. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC208534



Coomassie blue staining of purified SMARCC1 protein (Cat# [TP308534]). The protein was produced from HEK293T cells transfected with SMARCC1 cDNA clone (Cat# RC208534) using MegaTran 2.0 (Cat# [TT210002]).