

Product datasheet for **SC127681**

SMARCD1 (NM_139071) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCD1 (NM_139071) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMARCD1
Synonyms:	BAF60A; CRACD1; CSS11; Rsc6p
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_139071, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCCCGGGCGGGTTTCCAGTCTGTGGCTCCAAGCGGCGGCGCCGGAGCCTCAGGAGGGGCGGGCG  
CGGCTGCTGCCTTGGGCCCGGGCGGAACCCGGGGCTCCTGTGCGAATGGGCCCGGCTCCGGGTCAAGG  
GCTGTACCGCTCCCCGATGCCCGGAGCGGCTATCCGAGACCAGGTATGTTGCCAGGCAGCCGAATGACA  
CCTCAGGGACCTTCCATGGGACCCCTGGCTATGGGGGAACCCCTCAGTCCGACCTGGCCTGGCCAGT  
CAGGGATGGATCAGTCCCGCAAGAGACCTGCCCTCAGCAGATCCAGCAGGTCCAGCAGCAGGCGGTCCA  
AAATCGAAACCACAATGCAAAGAAAAAGAAGATGGCTGACAAAATTTACCTCAAAGGATTTCGTGAAGT  
GTACCAGAATCCAGGCCTATATGGATCTCTTGGCTTTTAAAAGGAAACTGGACCAGACTATCATGAGGA  
AACGGCTAGATATCCAAGAGGCCTTAAAACGTCCCATCAAGCAAAAACGGAAGCTGCGAATTTTCATTTT  
TAACACTTTCAATCCGGCTAAGTCAGATGCCGAGGATGGGGAAGGGACGGTGGCTTCTGGGAGCTTCGG  
GTAGAAGGACGGCTCCTGGAGGATTCAGCCTTGTCAAAATATGATGCCACTAAACAAAAGAGGAAGTTCT  
CTTCTTTTTTAAGTCCTTGGTGATTGAACTGGACAAAGACCTGTATGGCCAGACAACCATCTGGTAGA  
ATGGCACAGGACCGCCACTACCCAGGAGACCGATGGCTTTCAGGTGAAGCGGCCGGGAGACGTGAATGTA  
CGGTGTACTGTCCTACTGATGCTGGATTACCAGCCTCCCGAGTTAAATTAGACCCCGCCTAGCTCGAC  
TCCTGGGCATCCATACCCAGACTCGTCCAGTGATCATCCAAGCACTGTGGCAATATATTAAGACACATAA  
GCTCCAGGACCCCTCACGAGCGGGAGTTTGTCTGTGACAAGTACCTGCAGCAGATCTTTGAGTCTCAA  
CGTATGAAGTTTTAGAGATCCCTCAGCGGCTCCATGCCTTGCTTATGCCACCAGAACCTATCATCATTA  
ATCATGTCATCAGTGTGACCCGAATGATCAGAAAAAGACAGCTTGTTATGACATTGATGTTGAAGTGGA  
TGACACCTTGAAGACCCAGATGAATCTTTTCTGCTGTCCACTGCCAGCCAACAGGAGATTGCTACTCTA  
GACAACAAGACAATGACTGATGTGGTGGTAACCCAGAGGAGGAGCGCCGAGCTGAGTTCTACTTCCAGC  
CCTGGGCTCAGGAGGCTGTGTGCCGATACTTCTACTCCAAGGTGCAGCAGAGACGACAAGAATTAGAGCA  
AGCCCTGGGAATCCGGAATACATAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_139071 unedited
 TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTCTTTGTGCGGCTGCA
 TCGGGCGCTCCGGGAAGATGGCGGCCCGGGCGGGTTCCAGTCTGTGGCTCCAAGCGGCG
 GCGCCGGAGCCTCAGGAGGGGCGGGCGGGCTGCTGCCTTGGGCCGGGCGGAATCCGG
 GGCCTCTGTGCGAATGGGCCCGGCTCCGGGTCAAGGGCTGTACCGCTCCCCGATGCCCG
 GAGCGGCCTATCCGAGACCAGGTATGTTGCCAGGCAGCCGAATGACACCTCAGGGACCTT
 CCATGGGACCCCTGGCTATGGGGGGAACCTTCAGTCCGACCTGGCCTGGCCCAGTCAG
 GGATGGATCAGTCCCGCAAGAGACCTGCCCTCAGCAGATCCAGCAGGTCCAGCAGCAGG
 CGGTCCAAAATCGAAACCAATGCAAAGAAAAAGAGATGGCTGACAAAATTCTACCTC
 AAAGGATTCGTGAACTGGTACCAGAATCCAGGCCTATATGGATCTTTGGCTTTTGAAA
 GGAAACTGGACCAGACTATCATGAGGAAACGGCTAGATATCCAAGAGGCCTTGAAACGTC
 CCATCAAGCAAAAACGGAAGCTGCGAATTTTCATTTCTAACACTTCAATCCGGCTAAGT
 CAGATGCCGAGGATGGGAAGGGACGGTGGCTTCTGGGAGCTTCGGGTAGAAGGACGGC
 TCCTGGAGGATTCAGCCTTGCCAATATGATGCCACTAAACANAAGGGAAGTTCTCTTC
 CTTNTTAAGTCTTGGTGATTGAACTGGNACAAGACTGTATGGCCAGACACCATCTGGTA
 GAATGGCACAGACCGCCCTACCCAGNAGACGATGGCTTTCAGTGAAGCGCCGGAGAGTG
 ATGTACGGTTACTGTC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_139071 unedited
 CGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCAGAAGATTCTTTTATTA
 AACTGGGTAACATCAATAAGGGGACAGTACAAAAAAGTTTGGTCCATGAAAAAACAAT
 TCAGTTAATAAAAACAGTTATCAACAGGGACACTGTGGGAAGTACTGAGCTTCTTCTCA
 TGGTTCAGCCAGGAGGCGGCCAGGGCTCAGCTGCCCCAAGGTTGTCCAGTGTCAACCTT
 TCAAGGGAGGGAAAATGGCAGGAAGGGGAAGACGGGGAGAAAATCTGCTGTCCCAGTG
 TAGAACAGGGAGGGATTTGGGGTGGGGTGTGCTCGCAGGAGCCTGAGGAGGGGTGGG
 GAAGCAGGGGCTTTGTCAGTTCTGTGGTTTAGAGCCCATGCTGAACGGAATCCCCCTT
 TGTGCCAGCTGTCTCCACCCTTGCTGTGTTGAGTCTGCCAGCCTGGGATCTGTAAC
 CGCCGGTGACACAACCTGTAATAAAAATGCCAGGCTCTTCTGTCAACAGCTAATACCATC
 CATACCCAGGCGCACTGATCTCAACGATCTGCTGCCCCCCAGGCGTCTGTACCCCCC
 CGACTTCCCCTGCCACCCTTACTTCTCCAAACATTTACCTAGCGCACCCCTCCATCACT
 TTACCTCTATTTTTTTTTCCCCTATATATAGTTTTCCCTTTATCCCTTTCCCCTTT
 TCATTTTCTTCTACCCGACNCTCCTTCTCCGACCTCCGNTTCTTCTCTCTCTACGC
 TCCCTTCTTTTTACCCCTCCCTTTTATCACCTCCCCCTATCCATCCTCCTTCCGTA
 TTGCATTACGCCCGTTACCTCCCGTCCGCTCCCGCTGTGTCCCAACCCCTATTTT
 CTATTTTCTCCGCTCCACCTCTCTCCTCCATCTAATTGTTCTGCTCCTTTCTCCACA
 CACCCATCCCTTCTCGCTTACCTCTACCCCTCTCATTCCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_139071

Insert Size:

2880 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:

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_139071.1](#), [NP_620710.1](#)

RefSeq Size: 3308 bp

RefSeq ORF: 1308 bp

Locus ID: 6602

UniProt ID: [Q96GM5](#)

Cytogenetics: 12q13.12

Domains: SWIB

Protein Families: Transcription Factors

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 has sequence similarity to the yeast Swp73 protein. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform b), compared to isoform a.