

Product datasheet for **SC118212**

SMARCD1 (NM_003076) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCD1 (NM_003076) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMARCD1
Synonyms:	BAF60A; CRACD1; CSS11; Rsc6p
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003076, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGCCCGGGCGGGTTTCCAGTCTGTGGCTCCAAGCGGGCGGCGCGGAGCCTCAGGAGGGCGGGCG
CGGTGCTGCCTTGGGCCCGGGCGGAACCTCCGGGCTCCTGTGCGAATGGGCCCGGCTCCGGGTCAAGG
GCTGTACCGCTCCCCGATGCCCGGAGCGGCTATCCGAGACCAGGTATGTTGCCAGGCAGCCGAATGACA
CCTCAGGGACCTTCCATGGGACCCCTGGCTATGGGGGAACCCCTCAGTCCGACCTGGCCTGGCCAGT
CAGGGATGGATCAGTCCCGCAAGAGACCTGCCCTCAGCAGATCCAGCAGGTCCAGCAGCAGGCGGTCCA
AAATCGAAACCACAATGCAAAGAAAAAGAAGATGGCTGACAAAATTCTACCTCAAAGGATTCGTGAAGT
GTACCAGAATCCAGGCCTATATGGATCTCTTGGCTTTTAAAAGGAAACTGGACCAGACTATCATGAGGA
AACGGCTAGATATCCAAGAGGCCTTGAACGTCCCATCAAGCAAAAACGGAAGCTGCGAATTTTCATTTT
TAACACTTTCAATCCGGCTAAGTCAGATGCCGAGGATGGGGAAGGGACGGTGGCTTCTGGGAGCTTCGG
GTAGAAGGACGGCTCCTGGAGGATTCAGCCTTGCCAAAATGATGCCACTAAACAAAAGAGGAAGTTCT
CTTCTTTTTTAAAGTCTTGGTATTGAACTGGACAAAGACCTGTATGGCCAGACAACCATCTGGTAGA
ATGGCACAGGACCGCCACTACCCAGGAGACCGATGGCTTTCAGGTGAAGCGGCGGGAGACGTGAATGTA
CGGTGACTGTCTACTGATGCTGGATTACCAGCCTCCCAAGTTAAATAGACCCCGCCTAGCTCGAC
TCTGGGCATCCATACCCAGACTCGTCCAGTGATCATCCAAGCACTGTGGCAATATATTAAGACACATAA
GCTCCAGGACCCCTCAGGAGCGGGAGTTTGTATCTGTGACAAGTACCTGCAGCAGATCTTTGAGTCTCAA
CGTATGAAGTTTTAGAGATCCCTCAGCGGCTCCATGCCTTGCTTATGCCACCAGAACCTATCATCATT
ATCATGTCATCAGTGTGACCCGAATGATCAGAAAAAGACAGCTTGTATGACATTGATGTTGAAGTGA
TGACACCTTGAAGACCCAGATGAATCTTTTCTGCTGTCCACTGCCAGCCAACAGGAGATTGCTACTCTA
GACAACAAGATCCATGAGACAATAGAAACCATCAACCAGCTGAAGACTCAGCGGGAGTTCAATGCTGAGT
TTGCCAGAGACCCCTCAGGGTTTCATCAATGACTGGCTTTCAGTCCAGTGCAGGGACTCAAGACAATGAC
TGATGTGGTGGGTAAACCAGAGGAGGAGCGCCGAGCTGAGTTCTACTTCCAGCCCTGGGCTCAGGAGGCT
GTGTGCCGATACTTCTACTCCAAGGTGCAGCAGAGACGACAAGAATTAGAGCAAGCCCTGGGAATCCGGA
ATACATAG
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003076 unedited

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GGAACCGTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGGCACGAGGGTTC
TTTGTGCGGCTGCATCGGCGGCTCCGGGAAGATGGCGGCCCGGGCGGGTTTCCAGTCTGT
GGCTCAAAGCGGCGGCGCCGGAGCCTCAGGAGGGGCGGGCGGGCTGCTGCCTTGGGCC
GGGCGGAACCTCCGGGCTCCTGTGCGAATGGGCCCGGCTCCGGGTCAAGGGCTGTACCG
CTCCCCGATGCCCGGAGCGGCTATCCGAGACCAGGTATGTTGCCAGGCAGCCGAATGAC
ACCTCAGGGACCTTCCATGGGACCCCTGGCTATGGGGGAACCCCTCAGTCCGACCTGG
CCTGGCCAGTCAGGGATGGATCAGTCCCGCAAGAGACCTGCCCTCAGCAGATCCAGCA
GGTCCAGCAGCAGCGGTCCAAAATCGAAACCACAATGCAAAGAAAAAGAAGATGGCTGA
CAAAATTTCTACCTCAAAGGATTCGTGAACTGGTACCAGAATCCAGGCCTATATGGATCT
CTTGGCTTTTAAAAGGAAACTGGACCAGACTATCATGAGGAAACGGCTAGATATCCAAGA
GGCCTTGAACGTCCCATCAAGCAAAAACGGAAGCTGCGAATTTTCATTTCTAACACTTT
CAATCCGGCTAAGTCAGATGCCGAGGATGGGGAAGGGACGGTGGCTTCTGGGAGCTTCG
GGTAGAAGGACGGCTCCTGGGAGATTTCAGCCTTGCCAAAATGATGCCACTAAACANAA
GAGGAAGTTCTTCTTTTTTAAAGTCTTGGTATTGAACTGGACAAGACCTGTATGGG
CCAGACACCATCTGGTAGAATGCACAGGACCGCCACTACCCAGGAGACCGATGGCTTNTC
AGTGAAGCGGC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003076 unedited CCGCGGCCGAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTCAAAAAATCTTTTATTAA AACTGGGTAACATCAATAAGGGGACAGTACAAAAAAGTTTGGTCCATGAAAAACAAT TCAGTTAATAAAAAACAGTTATCAACAGGGACACTGTGGGAAGTACTGAGCTTCTTCTCA TGGTCCAGCCAGGAGGCGCCAGGGCTCAGCTGCCCCAAGGTTGTCCAGTGTCAACCTT TCAAGGGAGGGAAAAATGGCAGGAAGGGGAAGACGGGAGAAAAATCTGCTGTCCCCAGTG TAAAACAGGGAGGGATTGGGGGTGGGGTGTGCTCGCAGGAGCCTGAGGAGGGGGTGGG GAAGCAGGGGCTTTGTCAAGTTCTGTGGGTTAGAGCCCATGCTGAACGGAATTCCCCTT TGTGCCAGCTGTCTCCACCCTTGCTGTGTTGAGTCTGCGAGCCTGGGATATGCTAACT CGGGGGTGATACAACCTGGAAGAAGAATGTGAGGCTCTCCTGGAAGATGCAAAAACCAT CTCAGATCCAAGGGGCAAGATCACAAGGTCTGCTGCTACCTGAGGGGTCTGAAGCTTT GAGGGCAGGGGCTGCGGAGTCACAATCCTGTGAGGCACGCAGAGGCAACAGCCAAACCA ACTCAGCGCTATTCTCAGCCCTAGCGCTTACTCCTCAATGCCCTAAAGCACCCGTTGTG TCACTGGGCCACAGGGACCGATAAAGCCATGCCCGCTTTTTACCGCTCGCTTAAGCCC CCTCCCCTTACAGGTTCCAAACCCCTGCTCCTACACTTCCCTCCCCCCCCCCCCACCC CTTCTCATCTACACCCTCCATTTGAACCCACCCACCCCTTCCACTCTCCATCCAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_003076
Insert Size:	3330 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:	<u>NM_003076.3</u> , <u>NP_003067.2</u>
RefSeq Size:	3431 bp
RefSeq ORF:	1431 bp
Locus ID:	6602
UniProt ID:	<u>Q96GM5</u>
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 (1) is the longer transcript and encodes the full-length isoform (a).