

Product datasheet for **SC118214**

SMARCE1 (NM_003079) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCE1 (NM_003079) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMARCE1
Synonyms:	BAF57; CSS5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003079 edited
 GAATTCGGCACGAGGCTCAGATTCATTCTTAAGGAACTGAGAAGCTTAATCTTCCAAAATG
 TCAAAAAGACCATCTTATGCCACCTCCCACCCAGCTCCTGCAACACAAATGCCCAGC
 ACACCAGGTTTGTGGGATACAATCCATACAGTCATCTCGCTACAACAACCTACAGGCTG
 GGAGGGAAACCCGGGCACCAACAGCCGGTACGGCATCCTCTGGTATCACGATCCAAAA
 CCCCCAAAGCCACCAGATAAGCCGCTGATGCCCTACATGAGGTACAGCAGAAAGGTCTGG
 GACCAAGTAAAGGCTTCCAACCTGACCTAAAGTTGTGGGAGATTGGCAAGATTATTGGT
 GGCATGTGGCGAGATCTCACTGATGAAGAAAAACAAGAATATTTAAACGAATACGAAGCA
 GAAAAGATAGAGTACAATGAATCTATGAAGGCCTATCATAAATCCCCCGGTACCTTGCT
 TACATAAATGCAAAAAGTCGTGCAGAAGCTGCTTTAGAGGAAGAAAGTCGACAGAGACAA
 TCTCGCATGGAGAAAGGAGAACCGTACATGAGCATTACAGCCTGCTGAAGATCCAGATGAT
 TATGATGATGGCTTTTCAATGAAGCATAACAGCCACCGCCGTTTCCAGAGAAACCACCGC
 CTCATCAGTGAATTTCTAGTGAGAGTGTGGTCCAGACGTTCCGGTCAGTTGTCACAACA
 GCTAGAATGCAGGTCCTCAAACGGCAGGTCCAGTCTTAATGGTTCATCAGCGAAAACCTA
 GAAGCTGAACTTCTTCAAATAGAGGAACGACACCAGGAGAAGAAGAGGAAATTCCTGGAA
 AGCACAGATTCATTTAAACAATGAACTTAAAAGGTTGTGCGGTCTGAAAGTAGAAGTGGAT
 ATGGAGAAAATTGCAGCTGAGATTGCACAGGCAGAGGAACAGGCCCGCAAAAGGCAGGAG
 GAAAGGGAGAAGGAGGCCGAGAGCAAGCTGAGCGCAGTCAGAGCAGCATCGTTCCTGAG
 GAAGAACAAGCAGCTAACAAAGGCGAGGAGAAGAAAGCAGCAGAGAACATTCGATGGAG
 ACAGAGGAGACACACCTTGAAGAAAACAACAGAGAGCCAACAGAATGGTGAAGAAGGCACG
 TCTACTCTGAGGACAAGGAGAGTGGGCAGGAGGGGTCGACAGTATGGCAGAGGAAGGA
 ACCAGTATAGTAACACTGGCTCGGAGAGCAACAGTGAACAGTGGAGGAGCCACCAACA
 GATCCCATACCAGAAGATGAGAAAAAAGAATAAGTGTTCCTTTGTTTGTGTTCTAAA
 TACTTTTTTAAAGAAAAAATGTTTTTGGTTTTAATGGTGTACGTGGTTTTGTGATTA
 ATTTTTTTTCTTGCATATCATACCACAAAGGCTTTTGGACATTTAGCATCATGAGC
 CTAATGGCTCAGTCAGTCACCTTTCTAAGTGTGTGAAGATGGCTCTTTTCTTTGGATC
 TTGTTTCTAGCCCTCAACTGCTGAAAGCCTCAGAATTTAGATTAATTGAGAAAACACCCA
 CCTTTTTAGAGAATTATCCTTTGATGCTGCAGAATCTACTTTACAATGCCTTCTTACA
 GCTCACTGGGGTCTTACCAAAGCCATAGCTTTAAACCTTCCCAGTCCCCATCAGTAGCT
 TCCTGAAAGTCTCTCTTGTACTTCTGCAAAGGAGTCTTAAAAACGTGATCA
 TGTATGAGTATGATTTTGTCACTTACCCTTTTTACTTTTAXXXXXXXXXXXXXXXXXXX
 XXX
 AAACTCG
 AC

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003079 unedited
 GGTTTGCANATTTTGTATACGATTCCTATAGCGGCCCGCGAATTCGCACGAGGCTCAGA
 TTCATTCTTAAGGAACTGAGAAGCTTAATCTTCCAAAATGTCAAAAAGACCATCTTATGCC
 CCACCTCCCACCCAGCTCCTGCAACACAAATGCCAGCACACCAGGTTTGTGGGATAC
 AATCCATACAGTCATCTCGCTACAACAACCTACAGGCTGGGAGGGAACCCGGGCACCAAC
 AGCCGGGTACGGCATCCTCTGGTATCACGATTCAAAACCCCAAGCCACCAGATAAG
 CCGCTGATGCCCTACATGAGGTACAGCAGAAAGGTCTGGGACCAAGTAAAGGCTTCCAAC
 CCTGACCTAAAGTTGTGGGAGATTGGCAAGATTATTGGTGGCATGTGGCGAGATCTCACT
 GATGAAGAAAAACAAGAATATTTAAACGAATACGAAGCAGAAAAGATAGAGTACAATGAA
 TCTATGAAGGCCTATCATAATCCCCCGGTACCTTGCTTACATAAATGCAAAAAGTCGT
 GCAGAAGCTGCTTTAGAGGAAGAAAGTCGACAGAGACAATCTCGCATGGAGAAAGGAGAA
 CCGTACATGAGCATTACGCTGCTGAAGATCCAGATGATTATGATGATGCCTTTTCAATG
 AAGCATACAGCCACCGCCGTTTCCAGAAGAACCACCGCCTCATCAGTGAATTTCTAGT
 GAGAGTGTGGTGCAGACGTTCCGGTCAGTTGTCACACCAGCTAGAATGCANGTTCTCAA
 CGGGCAGTCCCAGTCTTAATGGGTATCAGCGAAAACCTAAAGCTGAACTTCTCCAATAG
 AGGCACGACCCAGNNAGAGAAGAGAAATCTCTCGGAAGCCANAATCTTTAACATGAA
 CTTAAAAGTTGTGCGGTCTGAAAGTACATTGCT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003079 unedited GCTGGGGTTACTTTGGTCCTTTAANAACATATACCATCAGNAATACCACTATTCAGTAAA AATCTATTCTAGTTTTGGGAAGCTTATGTGTCACAACTATCTTGCTTCTAGTCTCCAA GACTTTACTAAGTTTATCAAAAAGGTGGGCTCTGGTCTATGGGATCCTGAGCCTTGAGGT TTGGATGTTCTGATTATTGTAACAATTCAAGTGGATTAACCTAATCCCAGCTGTTT TTCTTCTGGAATGGGCTAATCAGTTTGAATTATCTAGTCCATTACAAGAATATTAATTC CTTGAGCTTTGTGATCTATTCTGTCTTTGGAAAACCTGGTAAAAAGTAATTTTTTTTCT ATACAATAAGGATGGATTTACCAGAACATACCCAGTATTAATCATAACAAAAAGCAGTAT AGATAATGTATATGTGCTGTGTTCACTTTAATAACCACTTCATAAGTAACTACTCTAACT ATGGGGACTATTTCTGGATCAGTAAGATCCAAGTGTAGTTAGTTACACACTACACTCAGC TTAACACAACCTTTGGTATCTGACATTGATTAAGTAAAAAGGTAAGTGAACAAATA CATACTCATAATGATCACGTTTTTAAGAAGCTACCTTTGCAGAAGTAAACAAGAGAGG AGACTTTCAGGAAGCTACTGATGGGGACTGGGAAGGGTTAAAGCTATGGCTNTGGTAAGC ACCCAGTGAGCTGTAGGAAGGCATTGTAAGAGTAGATTCTGCAGCATCAAAGGATAATT CTCCTAAAGAAGTGGGTGTTTTCTCAATTAATCTAAATCTGAGGCTTTCAGCAGTTTGA GGCTANNAACANGATCCAAGAAAAAGCCTCCTCCACCACTTAAGAAAGTGACTGACT GACCATTAGCTCATGAGCTAAAAGTCCAAAAGCCTTTGTTGTATGAATAGACA
Restriction Sites:	NotI-NotI
ACCN:	NM_003079
Insert Size:	2550 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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:	NM_003079.4 , NP_003070.3
RefSeq Size:	2425 bp

RefSeq ORF: 1236 bp

Locus ID: 6605

UniProt ID: [Q969G3](#)

Cytogenetics: 17q21.2

Domains: HMG

Protein Families: Transcription Factors

Gene Summary: The protein encoded by this gene is part of the large ATP-dependent chromatin remodeling complex SWI/SNF, which is required for transcriptional activation of genes normally repressed by chromatin. The encoded protein, either alone or when in the SWI/SNF complex, can bind to 4-way junction DNA, which is thought to mimic the topology of DNA as it enters or exits the nucleosome. The protein contains a DNA-binding HMG domain, but disruption of this domain does not abolish the DNA-binding or nucleosome-displacement activities of the SWI/SNF complex. Unlike most of the SWI/SNF complex proteins, this protein has no yeast counterpart. [provided by RefSeq, Jul 2008]