

Product datasheet for **MC203183**

Smarcb1 (NM_011418) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smarcb1 (NM_011418) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smarcb1
Synonyms:	AU020204; Baf47; Ini1; Snf5; SNF5/INI1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC025163 GAGACGGCCAAGGAGCCCAGTAGTGACACGAGCGCTCGCCCGGTTGCGCCGGCTTGCCTGCCCGACCTT CACCTCCAGGCTCCGTTCTTTTCGGTCCGACGCGCTCGGCCCGCCCTAGCCACCGATTCTTTCCA GCTCGACCCCGGCTGCCGTTTTCCCGCCGCCATGATGATGATGGCGTTGAGCAAGACCTTCGGGCAGA AGCCCGTCAAGTTTCAGCTGGAGGACGACGGGAGTTCTACATGATCGGCTCCGAGGTGGAAACTACCT GCGTATGTTCCGAGGTTCTGTACAAGAGATACCCCTACTCTGGCGGCGACTAGCCACTGTGGAAGAA AGGAAGAAAATAGTGGCATCGTCACATGGTAAAAAACAAAACCTAACACTAAGGATCATGGATATACCA CCCTGGCCACCAGCGTGACACTCCTGAAAGCCTCAGAGGTAGAAGAGATCCTGGATGGCAATGACGAGAA GTACAAGGCTGTGCCATCAGCACAGAGCCCCGACCTACCTCAGGGAGCAGAAGGCCAAGGAACAGC CAGTGGGTCCCCACCCTGCCAACAGCTCCCACCCTGGATGCTGTGCCCTGTTCCACCACCATCAACA GGAACCGCATGGGTCCGGACAAGAAGAGAACCTTCCCCTTGTGCTTTGATGACCAGCCAGCTGTGAT CCATGAGAATGCGTCACAGCCTGAGGTGCTGGTCCCATCCGGCTCGACATGGAGATCGACGGGCAGAAG CTGCGAGACGCTTTTACCTGGAACATGAATGAGAAGCTAATGACTCCTGAGATGTTTTAGAAAATACTTT GTGATGACCTGGATTTGAATCCACTGACTTTTGTGCCAGCTATTGCCCTGTCATTGACAGCAGATTGA GTCCTACCCACAGACAGCATCCTAGAGGATCAATCCGACCAGCGTGTCATCATCAAGCTGAACATCCAC GTGGGGAACATCTCCCTGGTGGACAGTTTGTGAGTGGGACATGTCAGAGAAAAGAGAACTCCCAGAGAAGT TTGCCCTGAAGCTGTGCTCAGAGCTGGGCTTGGGCGGGAGTTTGTACCACCATTGCATACAGCATCCG AGGACAGCTGAGCTGGCACCAGAAGACCTATGCCTTCAGTGAGAACCCACTTCCCACAGTGGAGATTGCC ATCCGAAATACCGGAGATGCTGACCAGTGGTCCCCCTGCTGGAGACTGACTGATGCCGAGATGGAGA AAAAGATCCGGGATCAAGATAGGAACACAAAGGCGAATGAGGCGTCTTGCCAACACTGCCCCAGCCTGGTG ATGAAGACATCCATGCTCGACCTCTACGGAGCATCTCAGACTGCCTTTCTTCTCTGTGAAAAGAGAAA GGCAAAGGACAGCTGGTGCATCCTGAGGACTGGGTAGGAGCCTCCTAGGTGCCTCCCTTCCAGCACAC ATTCCATTTGCTAAACCCCAACTGTCCCCAGAGTCTAGAGTCGGAAGCAGCCTCATTTTGGGTTGTG TTTTGTTTTGTATAGGAGCCAGGCAGGGCTGGTAACACTTTTTAAATAAAAAGTACCATGTTCAAAAA AAAAAA
Restriction Sites:	RsrII-NotI



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ACCN:	NM_011418
Insert Size:	1158 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	BC025163 , AAH25163
RefSeq Size:	1620 bp
RefSeq ORF:	1158 bp
Locus ID:	20587
UniProt ID:	Q9Z0H3
Cytogenetics:	10 C1

Gene Summary:

Core component of the BAF (SWI/SNF) complex. This ATP-dependent chromatin-remodeling complex plays important roles in cell proliferation and differentiation, in cellular antiviral activities and inhibition of tumor formation. The BAF complex is able to create a stable, altered form of chromatin that constrains fewer negative supercoils than normal. This change in supercoiling would be due to the conversion of up to one-half of the nucleosomes on polynucleosomal arrays into asymmetric structures, termed altosomes, each composed of 2 histones octamers. Stimulates in vitro the remodeling activity of SMARCA4/BRG1/BAF190A. Plays a key role in cell-cycle control and causes cell cycle arrest in G0/G1. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to postmitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).