

Product datasheet for **SC109778**

SMRC2 (SMARCC2) (NM_139067) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMRC2 (SMARCC2) (NM_139067) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMRC2
Synonyms:	BAF170; CRACC2; CSS8; Rsc8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_139067 edited
 GAATTCGGCACGAGGAGATGGCGGTGCGGAAGAAGGACGGCCGCCAACGTGAAGTACT
 ACGAGGCCGCGGACACCGTGACCCAGTTCGACAACGTGCGGCTGTGGCTCGGCAAGA
 ACAAGAAGTATATACAAGCTGAACCACCCACCAACAAGTCCCTGTCTAGCCTGGTTGTAC
 AGTTGCTACAATTTCAAGGAAGAAGTTTTGGCAAACATGTCAGCAATGCACCGCTCACTA
 AACTGCCGATCAAATGTTTCTAGATTTCAAAGCGGGAGGCTCCTTGTGCCACATTCTTG
 CAGCTGCCTACAAATCAAGAGTGACCAGGGATGGCGGCGTTACGATTTCCAGAATCCAT
 CACGCATGGACCGCAATGTGAAATGTTTATGACCATTGAGAAGTCCCTGGTGCAGAATA
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 AATTAAGGACATTATCAAGAGACACCAGGGAACAGTCACTGAGGATAAGAACAATGCCT
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 GGATCCCAGCGAGTAAAATTGAGGCATCTGTGGAAGATGCTCAAACCTCCTGAGAAACCTA
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 ACAATAGTGTTCATGCCATTGAGCGGAGGGCTCTCCCGAGTTCTTCAACGGCAAGAACA
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 GTGCCATCATGAGGGTCCATGCCTTCTAGAACAGTGGGGTCTTATTAACCTACCAGGTGG



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ATGCTGAGAGTCGACCAACCCCAATGGGGCCTCCGCCTACCTCTCACTTCCATGTCTTGG
CTGACACACCATCAGGGCTGGTGCCTCTGCAGCCCAAGACACCTCAGGGCCGCCAGGTTG
ATGCTGATACCAAGGCTGGGCGAAAGGGCAAAGAGCTGGATGACCTGGTCCAGAGACGG
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TAAAGGAAGGGCTGGTGAAGGTGTTTATAACAAGTCTATTAACCACTTCTAAGGGTAC
ACCTCCCTCCAACTACTGCATTTTCTATGGATTAATAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_139067 unedited
 CGAATTCGGCACGAGGAGATGGCGGTGCGGAAGAAGGACGGCGGCCCAACGTGAAGTAC
 TACGAGGCCGCGGACACCGTGACCCAGTTCGACAACGTGCGGCTGTGGCTCGGCAAGAAC
 TACAAGAAGTATATAAGCTGAACCACCCACCAACAAGTCCCTGTAGCTGGTTGTA
 CAGTTGCTACAATTTAGGAAGAAGTTTTGGCAAACATGTCAGCAATGCACCGCTCACT
 AAAGTCCGATCAAATGTTTCTAGATTTCAAAGCGGGAGGCTCCTTGTGCCACATTCCT
 GCAGTGCCTACAAATTCAGAGTGACCAGGGATGGCGGCTTACGATTTCCAGAATCCA
 TCACGCATGGACCGCAATGTGAAATGTTTATGACCATTGAGAAGTCCTTGGTGCAGAAT
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 AAATTAAGGACATTATCAAGAGACACCAGGGAACAGTCACTGAGGATAAGAACAATGCC
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 ATGAAGAGGGATAAGCAGGTTCTTCTGCACTGGGGCTACTATCCTGACAGTTACGACAG
 TGGATCCCAGCGAGTAAATTGAGGCATCTGTGGAAGATGCTCNCACCTCTGAGAACTA
 NGAGGTTTCATGCANAGTGGATCCTGGACACCGACACCTTCATGAATGGATGANTGAGGAA
 GACTATGAAGTAAATGATGACAAAAACCCTGGGTCTCCGCCCGAAGAAGATTTACAGCCA
 GAAACTGACAGATGAGGTGAACAGCCCAGATTCAAATCGACGGGACAGGAGGGGGGAA
 CTATAGAAGAGGAGCGCTCCCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_139067 unedited
 TGCTATGCACCGCGCCGCAATCTANGTTCGAGTTTTTTTTTTTTTTTTTTAATCCATA
 GAAAATGCAGTAGTTGGAGGGAGGTGTACCCTTAGAAGTGGTTAATAGAACCTTGATA
 AACACCTTACCAGCCCTTCTTTAGGGCAGCATTCCCATCCTATCCTCTCTCCAGAC
 ATTATAAACATCTTTAAACAGAAGTCTTGAATAATCTGATATAAAAATGCATGCCTCT
 GTTAGGCATGGTGGGGCTTTGGAGGGGCGAAGGAGCTTTCCTTACGTAGTGATGAACT
 CTCCAGGCTGGGAGGGCCCCAGTGGTGGGGGAAGGGCTGCTCCTGGAACCGTATGTCC
 ACAGGGGGCGAGGGGAGAGATGCCTGGCTGCCTCCTCACTGTGGAGGTGGCACAGGGGT
 GACCGTGCCTGGGCTCGGGCTGCGGGGCTGGAGGACAGGGGGGCGCTGGGTCCGCCAC
 GCCTGCGGGCCCCGCTGCCTGTCCCTCGCCTCGGCCATCGAGGGACGAGCCCGTCTCCT
 GCCCCCGCTGCGGCTCCACTTCCATCCCCGCCTCTCCCCCTTCCGTCCACCCCCCCC
 CCCCCTACGTCCCTCCGCCGAATAACAATATTATCTCATTTTTATCCCCCCCCGCTC
 ATTTTCGTACCCACACTCCACCTCCCCGCATCCCCCGCCCCCACCCTCCCCACTA
 TCTCCCCCCCCCTCCCTCCCTCCCATCTCCCTCATTTTCCCCCTCCCCATTTTCA
 TCACCTCCCTTTCCGCCCCCTCCCATTTCTACGTCCAACGCGCTCTCCTATTCTTC
 TCCATTTCCACCCCCCCCCCCCCCATTCCCTTCCCCCTTCCGCTCCCTCCCCCCCCCT
 TGTCCTCCTTGTATATCCCTCCCTCCTCACTTTCCCTATCCGCCCTCCCTTTTT
 CT

Restriction Sites:

NotI-NotI

ACCN:

NM_139067

Insert Size:

3780 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_139067.1](#), [NP_620706.1](#)

RefSeq Size: 3786 bp

RefSeq ORF: 3393 bp

Locus ID: 6601

UniProt ID: [Q8TAQ2](#)

Cytogenetics: 12q13.2

Domains: CHROMO, myb_DNA-binding, SWIRM

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 contains a predicted leucine zipper motif typical of many transcription factors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) contains an alternate in-frame exon in the central coding region and uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (b), contains a novel internal segment, lacks a segment near the C-terminus, and is shorter than isoform a.