

## Product datasheet for **SC309103**

### SMARCA2 (NM\_139045) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SMARCA2 (NM\_139045) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** SMARCA2  
**Synonyms:** BAF190; BIS; BRM; hBRM; hSNF2a; NCBRS; SNF2; SNF2L2; SNF2LA; Sth1p; SWI2  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_139045, the custom clone sequence may differ by one or more nucleotides

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ATGTCCACGCCACAGACCTGGTGCATGCCACCCAGGGCCTTCGCCGGGCGCTGGG
CCTTCCCCTGGGCAATTCTTGGGCCTAGTCCAGGACCAGGACCATCCCCAGGTTCCGTC
CACAGCATGATGGGGCAAGTCTGGACCTCCAAGTGTCTCCCATCTATGCCGACGATG
GGGTCCACAGACTTCCCACAGGAAGGCATGCATCAAATGCATAAGCCCATCGATGGTATA
CATGACAAAGGGGATTGTAGAAGACATCCATTGTGGATCCATGAAGGGCACTGGTATGCGA
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ACCAATCTGGTTTGGGAGCACAAGCAAGCCAGGCAGCCAAAGAGAAGAAGAAGAGGAGG
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GGAGAGCCCATAGATGAGAGCAGCCAGATGAGTGACCTCCCTGTCAAAGTGACTCACACA  
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 GTGAAAAAAGCTAAGAAGAGAAGAGGCCGCCCTCCCGCTGAGAAACTGTCACCAATCCC  
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 TCAGGGCGACAGCTCAGTGAAGTCTTATTAGTTACCTTCAAGGAAAGAATTACCAGAA  
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 GAGGAGGAAGAGGAAGATGAAGAAGAGTCAAGTCCGAGGCAAAATCAGTCAAGGTGAAA  
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 AATCGAGGAAAAGCCAAACCTGTAGTGAGCGATTTTGACAGCGATGAGGAGCAGGATGAA  
 CGTGAACAGTCAGAAGGAAGTGGGACGGATGATGAGTGA

**Restriction Sites:**

Please inquire

<b>ACCN:</b>	NM_139045
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_139045.2</a></u> , <u><a href="#">NP_620614.2</a></u>
<b>RefSeq Size:</b>	5703 bp
<b>RefSeq ORF:</b>	4719 bp
<b>Locus ID:</b>	6595
<b>UniProt ID:</b>	<u><a href="#">P51531</a></u>
<b>Cytogenetics:</b>	9p24.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the SWI/SNF family of proteins and is highly similar to the brahma protein of Drosophila. Members of this family have helicase and ATPase activities and 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, which is required for transcriptional activation of genes normally repressed by chromatin. Alternatively spliced transcript variants encoding different isoforms have been found for this gene, which contains a trinucleotide repeat (CAG) length polymorphism. [provided by RefSeq, Jan 2014]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the coding region, compared to variant 1, resulting in a shorter protein (isoform a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>