

Product datasheet for **SC334811**

SMARCA2 (NM_001289398) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCA2 (NM_001289398) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMARCA2
Synonyms:	BAF190; BIS; BRM; hBRM; hSNF2a; NCBRS; SNF2; SNF2L2; SNF2LA; Sth1p; SWI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001289398, the custom clone sequence may differ by one or more nucleotides

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ATGTGGTTGGCCATCGAAGACGGCAATTTGGAGGAAATGGAAGAGGAAGTACGGCTTAAGAAGCGAAAAA  
GACGAAGAAATGTGGATAAAGATCCTGCAAAAGAAGATGTGAAAAAGCTAAGAAGAGAAGAGGCCGCC  
TCCCGCTGAGAACTGTCACCAATCCCCCAAAGTACAAAGCAGATGAACGCTATCATCGATACTGTG  
ATAAACTACAAAGATAGTTCAGGGCGACAGCTCAGTGAAGTCTTCATTACGTTACCTTCAAGGAAAGAA  
TACCAGAATACTATGAATTAATTAGGAAGCCAGTGGATTTCAAAAAATAAAGGAAAGGATTCGTAATCA  
TAAGTACCGGAGCCTAGGCGACCTGGAGAAGGATGTCATGCTTCTGTGACAAACGCTCAGACGTTCAAC  
CTGGAGGGATCCCAGATCTATGAAGACTCCATCGTCTTACAGTCAGTGTTAAGAGTGCCCGGCAGAAAA  
TTGCCAAAGAGGAAGAGAGTGAAGCAATGAAGAGGAGGAAGAGGAAGATGAAGAAGAGTCAGA  
GTCCGAGGCAAAATCAGTCAAGGTGAAAATTAAGCTCAATAAAAAAGATGACAAAGGCCGGGACAAAGGG  
AAAGGCAAGAAAAGGCCAAATCGAGGAAAAGCCAAACCTGTAGTGAGCGATTTTGACAGCGATGAGGAGC  
AGGATGAACGTGAACAGTCAGAAGGAAGTGGGACGGATGATGAGTGA
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001289398
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).



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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_001289398.1, NP_001276327.1</u>
RefSeq Size:	1846 bp
RefSeq ORF:	747 bp
Locus ID:	6595
Cytogenetics:	9p24.3
Protein Families:	Druggable Genome
Gene Summary:	<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 <i>Drosophila</i>. 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 (5) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate downstream start codon, compared to variant 1. The encoded protein (isoform d) has a shorter and distinct N-terminus, compared to isoform a.</p> <p>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>