

Product datasheet for **RC236917**

SMARCA2 (NM_001289398) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SMARCA2 (NM_001289398) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: SMARCA2
Synonyms: BAF190; BIS; BRM; hBRM; hSNF2a; NCBRS; SNF2; SNF2L2; SNF2LA; Sth1p; SWI2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236917 representing NM_001289398
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGGTTGGCCATCGAAGACGGCAATTTGGAGGAAATGGAAGAGGAAGTACGGCTTAAGAAGCGAAAA
GACGAAGAAATGTGGATAAAGATCCTGCAAAGAAGATGTGAAAAAGCTAAGAAGAGAAGAGGCCGCC
TCCCGCTGAGAACTGTCACCAAATCCCCCAAAGTACAAAGCAGATGAACGCTATCATCGATACTGTG
ATAAACTACAAAGATAGTTCAGGGCGACAGCTCAGTGAAGTCTTCATTACGTTACCTTCAAGGAAAGAA
TACCAGAATACTATGAATTAATTAGGAAGCCAGTGGATTTCAAAAAAATAAGGAAAGGATTCGTAATCA
TAAGTACCGGAGCCTAGGCGACCTGGAGAAGGATGTGATGCTTCTGTGACAACGCTCAGACGTTCAAC
CTGGAGGGATCCCAGATCTATGAAGACTCCATCGTCTTACAGTCAGTGTAAAGAGTGCCCGGCAGAAAA
TTGCCAAAGAGGAAGAGAGTGAGGATGAAAGCAATGAAGAGGAGGAAGAGGAAGATGAAGAAGAGTCAGA
GTCCGAGGCAAAATCAGTCAAGGTGAAAATTAAGCTCAATAAAAAAGATGACAAAGGCCGGGACAAAAGG
AAAGGCAAGAAAAGGCCAAATCGAGGAAAAGCCAAACCTGTAGTGAGCGATTTTGACAGCGATGAGGAGC
AGGATGAACGTGAACAGTCAGAAGGAAGTGGGACGGATGATGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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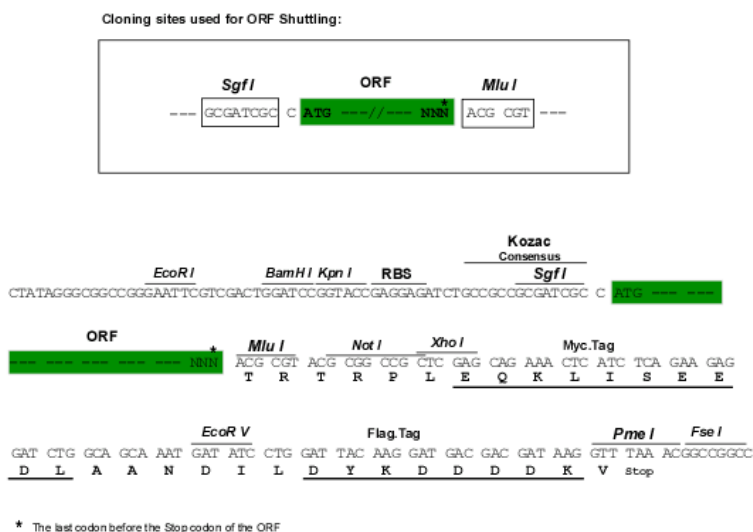
Protein Sequence: >RC236917 representing NM_001289398
 Red=Cloning site Green=Tags(s)

MWLAIEDGNLEEMEEVRLKKRKRNRVNDKPAKEDVEKAKRRGRPPAEKLSNPCKLTKQMNAIIDTV
 INYKDSGRQLSEVFIQLPSRKELPEYYELIRKPVDFKKIKERIRNHKYRSLGDLEKDVMLLCHNAQTFN
 LEGSQIYEDSIVLQSVFKSARQKIAKEESEESENEEEEEDEEESESEAKSVKVIKLNKKDDKGRDKG
 KGKKRPNRGKAKPVVSDFDSDDEEQDEREQSESGTDDDE

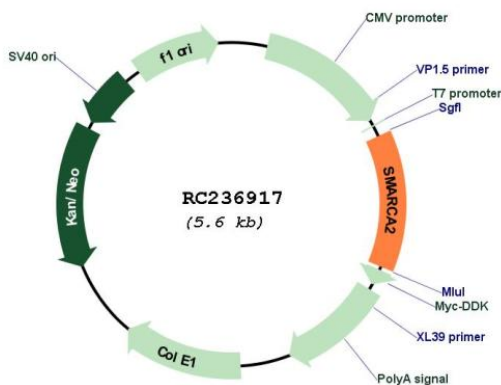
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289398
ORF Size: 744 bp

OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001289398.2
RefSeq Size:	1846 bp
RefSeq ORF:	747 bp
Locus ID:	6595
Cytogenetics:	9p24.3
Protein Families:	Druggable Genome
MW:	29.3 kDa
Gene Summary:	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]