

## Product datasheet for **RG236917**

### SMARCA2 (NM\_001289398) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCA2 (NM_001289398) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMARCA2
Synonyms:	BAF190; BIS; BRM; hBRM; hSNF2a; NCBRS; SNF2; SNF2L2; SNF2LA; Sth1p; SWI2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236917 representing NM_001289398. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTGGTTGGCCATCGAAGACGGCAATTTGGAGGAAATGGAAGAGGAAGTACGGCTTAAGAAGCGAAAA
AGACGAAGAAATGTGGATAAAGATCCTGCAAAAGAAGATGTGGAAAAAGCTAAGAAGAGAAGAGGCCGC
CCTCCCGCTGAGAACTGTACCAAAATCCCCCAAAGTACAAAGCAGATGAACGCTATCATCGATACT
GTGATAAACTACAAAGATAGTTCAAGGGCAGAGCTCAGTGAAGTCTTCATTTCAGTTACCTCAAGGAAA
GAATTACCAGAATACTATGAATTAATTAGGAAGCCAGTGGATTTCAAAAAATAAAGGAAAGGATTCGT
AATCATAAGTACCGGAGCCTAGGCGACCTGGAGAAGGATGTCATGCTTCTGTGACAACGCTCAGACG
TTCAACCTGGAGGATCCAGATCTATGAAGACTCCATCGTCTTACAGTCAGTGTAAAGAGTGCCCGG
CAGAAAATTGCCAAAGAGGAAGAGAGTGAAGGATGAAAGCAATGAAGAGGGAAGAGGAAGATGAAGAA
GAGTCAGAGTCCGAGGCAAAATCAGTCAAGGTGAAAATTAAGCTCAATAAAAAAGATGACAAAGGCCGG
GACAAAGGGAAGGCAAGAAAAGGCCAAATCGAGGAAAAGCCAAACCTGTAGTGAGCGATTTTGACAGC
GATGAGGAGCAGGATGAACGTGAACAGTCAGAAGGAAGTGGGACGGATGATGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



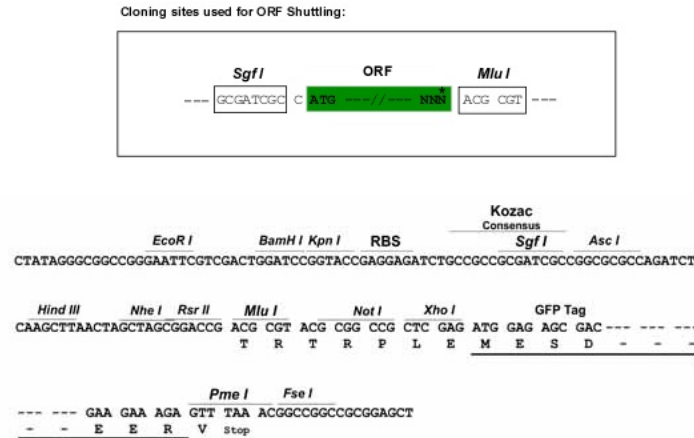
[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG236917  
 Blue=ORF Red=Cloning site Green=Tag(s)

MWLAIEDGNLEEMEEVRLKKRRRRNVDKDPAKEDVEKAKRRGRPPAEKLSNPPLTKQMNAIDT  
 VINYKDSGRQLSEVFIQLPSRKELPEYYELIRKPVDFKKIKERIRNHKYRSLGDLEKDVMLLCHNAQT  
 FNLEGSQIYEDSIVLQSVFKSARQKIAKEEESSEDESENEEEEEDEEESSEAKSVKVKIKLNKDDKGR  
 DKGKGKKRPNRGKAKPVVSDFDSEEQDEREQSEGSGTDDE  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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).

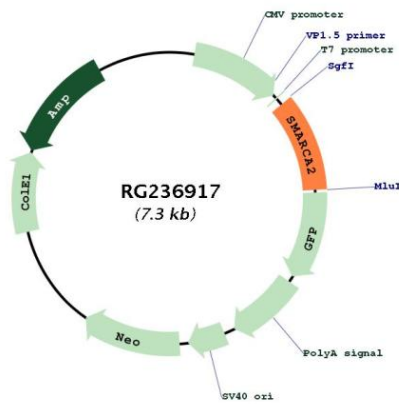
**RefSeq:** [NM\\_001289398.2](#)

**RefSeq Size:** 1846 bp

**RefSeq ORF:** 747 bp

<b>Locus ID:</b>	6595
<b>Cytogenetics:</b>	9p24.3
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	29.3 kDa
<b>Gene Summary:</b>	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]

**Product images:**



Circular map for RG236917