

## Product datasheet for **RG237107**

### SMARCA2 (NM\_001289399) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCA2 (NM_001289399) 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:	>RG237107 representing NM_001289399. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGAGACTAGCAGCTCGCTGCTTTGCTGGCTTGTTAATTTTATCCCCACTAACTGTGATTTCTGAT
AGCCGGCCTGCTGATAGTGGTAAGGCCATCGAAGACGGCAATTTGGAGGAAATGGAAGAGGAAGTACGG
CTTAAGAAGCGAAAAAGACGAAGAAATGTGGATAAAGATCCTGCAAAAGAAGATGTGAAAAAGCTAAG
AAGAGAAGAGGCCGCCCTCCCGCTGAGAACTGTCACCAATCCCCCAAAGTACAAAGCAGATGAAC
GCTATCATCGATACTGTGATAAACTACAAAGATAGTTCAGGGCGACAGCTCAGTGAAGTCTTCATTACG
TTACCTTCAAGGAAAGAATTACCAGAATACTATGAATTAATTAGGAAGCCAGTGGATTTCAAAAAATA
AAGGAAAGGATTCGTAATCATAAGTACCGGAGCCTAGGCGACCTGGAGAAGGATGTCATGCTTCTCTGT
CACAACGCTCAGACGTTCAACCTGGAGGGATCCCAGATCTATGAAGACTCCATCGTCTTACAGTCAGTG
TTAAGAGTGCCCGGCAGAAAAATTGCCAAAGAGGAAGAGAGTGAAGGATGAAAGCAATGAAGAGGAGGAA
GAGGAAGATGAAGAAGAGTCAAGTCCGAGGCAAAATCAGTCAAGGTGAAAATTAAGCTCAATAAAAAA
GATGACAAAGGCCGGGACAAAGGAAAGGCAAGAAAAGGCCAAATCGAGGAAAAGCCAAACCTGTAGTG
AGCGATTTTGACAGCGATGAGGAGCAGGATGAACGTGAACAGTCAGAAGGAAGTGGGACGGATGATGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



[View online »](#)

**Protein Sequence:** >Peptide sequence encoded by RG237107  
 Blue=ORF Red=Cloning site Green=Tag(s)

MKRLAARCFAGLLILSPLTVISDSRPADSGKAIEDGNLEEMEEVRLKKRKRNRVNDKPAKEDVEKAK  
 KRRGRPPAEKLSPPPKLTKQMNAIIDTVINYKDSGRQLSEVFIQLPSRKELPEYYELIRKPVDFKKI  
 KERIRNHKYRSLGDLEKDVMLLCHNAQTFNLEGSQIYEDSIVLQSVFKSARQKIAKEESEESENEEEE  
 EEEEESESEAKSVKVIKLNKKDDKGRDKGKGRPNRGKAKPVVSDFDSDDEEQDEREQSEGSGTDDE  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001289399

**ORF Size:** 828 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\\_001289399.1](#), [NP\\_001276328.1](#)

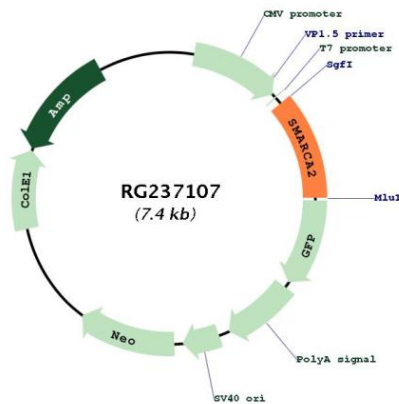
**RefSeq Size:** 1833 bp

**RefSeq ORF:** 831 bp

**Locus ID:** 6595  
**Cytogenetics:** 9p24.3  
**Protein Families:** Druggable Genome  
**MW:** 32.2 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]

### Product images:



Circular map for RG237107