

## Product datasheet for **RG237122**

### SMARCA2 (NM\_001289400) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCA2 (NM_001289400) 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:	>RG237122 representing NM_001289400. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCTGATGAAGAGACTAGCAGCTCGCTGCTTTGCTGGCTTGTTAATTTTATCCCCACTAACTGTGATT
TCTGATAGCCGGCCTGCTGATAGTGGTAAGGCCATCGAAGACGGCAATTTGGAGGAAATGGAAGAGGAA
GTACGGCTTAAGAAGCGAAAAAGACGAAGAAATGTGGATAAAGATCCTGCAAAAGAAGATGTGGAAAAA
GCTAAGAAGAGAAGAGGCCGCCCTCCCGCTGAGAACTGTCACCAATCCCCCAAAGTACAAAAGCAG
ATGAACGCTATCATCGATACTGTGATAAACTACAAAGATAGTTTCAGGGCGACAGCTCAGTGAAGTCTTC
ATTCAGTTACCTTCAAGGAAAGAATTACAGAATACTATGAATTAATTAGGAAGCCAGTGGATTTCAA
AAAATAAAGGAAAGGATTCGTAATCATAAGTACCGGAGCCTAGGCGACCTGGAGAAGGATGTCATGCTT
CTCTGTACAACGCTCAGACGTTCAACCTGGAGGGATCCCAGATCTATGAAGACTCCATCGTCTTACAG
TCAGTGTTTAAGAGTGCCCGGCAGAAAAATTGCCAAAGAGGAAGAGAGTGAGGATGAAAGCAATGAAGAG
GAGGAAGAGGAAGATGAAGAAGAGTCAGAGTCCGAGGCCAAAATCAGTCAAGGTGAAAATTAAGCTCAAT
AAAAAAGATGACAAAGGCCGGGACAAAGGGAAAGGCAAGAAAAGGCCAAATCGAGGAAAAGCCAAACCT
GTAGTGAGCGATTTTGACAGCGATGAGGAGCAGGATGAACGTGAACAGTCAGAAGGAAGTGGGACGGAT
GATGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



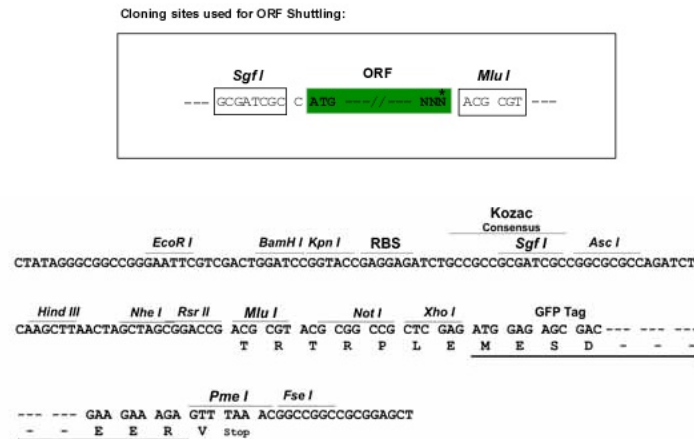
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**Protein Sequence:** >Peptide sequence encoded by RG237122  
 Blue=ORF Red=Cloning site Green=Tag(s)

MLMKRLAARCFAGLLILSPLTVISDSRPADSGKAIEDGNLEEMEEVRLKKRKRNRVNDKPAKEDVEK  
 AKKRRGRPPAEKLSNPPLTKQMNAIIDTVINYKSSGRQLSEVFIQLPSRKELPEYYELIRKPVDFK  
 KIKERIRNHKYRSLGDLEKDVMLLCHNAQTFNLEGSQIYEDSIVLQSVFKSARQKIAKEESEESENEE  
 EEEEESESEAKSVKVKIKLNNKDDKGRDKGKGRPNRGKAKPVVSDFDSDDEEQDEREQSEGSSTD  
 DE  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001289400

**ORF Size:** 834 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\\_001289400.1](#), [NP\\_001276329.1](#)

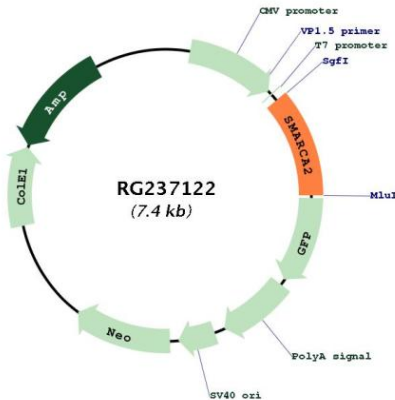
**RefSeq Size:** 2254 bp

**RefSeq ORF:** 837 bp

**Locus ID:** 6595  
**Cytogenetics:** 9p24.3  
**Protein Families:** Druggable Genome  
**MW:** 32.4 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 RG237122