

## Product datasheet for RC237122

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

#### Product data:

|                          |  |
|--------------------------|--|
| Product Type:            | Expression Plasmids  |
| Product Name:            | SMARCA2 (NM_001289400) 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: | >RC237122 representing NM_001289400<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGATGAAGAGACTAGCAGCTCGTCTTTGCTGGCTTGTTAATTTTATCCCCACTAACTGTGATTT  
CTGATAGCCGGCCTGCTGATAGTGGTAAGGCCATCGAAGACGGCAATTTGGAGGAATGGAAGGGAAGT  
ACGGCTTAAGAAGCGAAAAAGACGAAGAAATGTGGATAAAGATCCTGCAAAAGAAGATGTGAAAAAGCT  
AAGAAGAGAAGAGCCGCCCTCCGCTGAGAACTGTCAACAAATCCCCCAAAGTACAAAGCAGATGA  
ACGCTATCATCGATACTGTGATAAACTACAAAGATAGTTCAGGGCGACAGCTCAGTGAAGCTTTCATTCA  
GTTACCTTCAAGGAAAGAATTACCAGAATACTATGAATTAATTAGGAAGCCAGTGGATTTCAAAAAATA  
AAGGAAAGGATTCGTAATCATAAGTACCGGAGCCTAGGCGACCTGGAGAAGGATGTCATGCTTCTCTGTC  
ACAACGCTCAGACGTTCAACCTGGAGGGATCCCAGATCTATGAAGACTCCATCGTCTTACAGTCAGTGT  
TAAGAGTGCCCGGCAGAAAATTGCCAAAGAGGAAGAGAGTGAGGATGAAAGCAATGAAGAGGAGGAAGAG  
GAAGATGAAGAAGAGTCAGAGTCCGAGGCAAAATCAGTCAAGGTGAAAATTAAGCTCAATAAAAAAGATG  
ACAAAGCCGGGACAAAGGGAAAGGCAAGAAAAGGCCAAATCGAGGAAAAGCCAAACCTGTAGTGAGCGA  
TTTTGACAGCGATGAGGAGCAGGATGAACGTGAACAGTCAGAAGGAAGTGGGACGGATGATGAG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237122 representing NM\_001289400  
Red=Cloning site Green=Tags(s)

MLMKRLAARCFAGLLILSPLTVISDSRPADSGKAIEDGNLEEMEEVRLKKRKRNRVNDKPAKEDVEKA  
 KKRRGRPPAEKLSPPPKLTKQMNAIIDTVINYKDSSGRQLSEVFIQLPSRKELPEYYELIRKPVDFKKI  
 KERIRNHKYRSLGDLEKDVMLLCHNAQTFNLEGSQIYEDSIVLQSVFKSARQKIAKEESEESENEEEEE  
 EDEEESESEAKSVKVKIKLNKDDKGRDKGKGRPNRGKAKPVVSDFDSDDEEQDEREQSEGSGTDDE

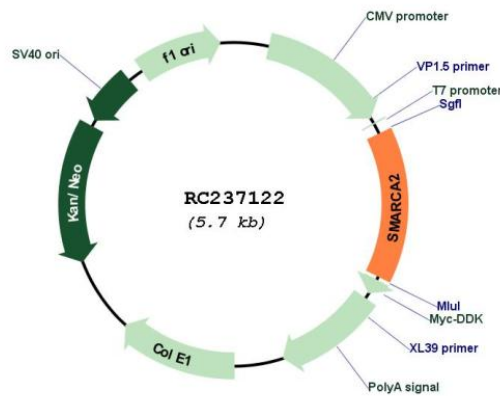
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001289400  
**ORF Size:** 834 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>   |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_001289400.1</a> , <a href="#">NP_001276329.1</a>  |
| <b>RefSeq Size:</b>           | 2254 bp  |
| <b>RefSeq ORF:</b>            | 837 bp   |
| <b>Locus ID:</b>              | 6595   |
| <b>Cytogenetics:</b>          | 9p24.3   |
| <b>Protein Families:</b>      | Druggable Genome   |
| <b>MW:</b>                    | 32.4 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] |