

Product datasheet for **RG240168**

SMARCA2 (NM_001289397) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCA2 (NM_001289397) 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:	>RG240168 representing NM_001289397. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCCACGCCACAGACCCTGGTGCATGCCACCCAGGGCCTTCGCCGGGGCCTGGGCCCTCCCT
GGGCAATTCTGGGCCTAGTCCAGGACCAGGACCATCCCAGGTTCCGTCCACAGCATGATGGGCCA
AGTCTGGACCTCAAGTGTCTCCATCTATGCCGACGATGGGTCCACAGACTCCCACAGGAAGGC
ATGCATCAAATGCATAAGCCATCGATGGTATACATGACAAGGGATTGTAGAAGACATCCATTGTGA
TCCATGAAGGGCACTGGTATGCGACCACCTCACCAGGCATGGGCCCTCCCAGAGTCCAATGGATCAA
CACAGCCAAGGTTATATGTCACCACACCATCTCCATTAGGAGCCCAGAGCACGTCTCCAGCCCTATG
TCTGGAGGAGGCCAACTCCACCTCAGATGCCACCAAGCCAGCCGGGGCCCTCATCCCAGTGATCCG
CAGGCCATGAGCCAGCCAAACAGAGTCCCTCACCTTTCAGTCCGTGCCAGCTGCATCAGCTTCGAGCT
CAGATTTTAGCTTATAAAATGCTGGCCCGAGGCCACCCCTCCCCGAAACGCTGCAGCTTCAGTCCAG
GGGAAAAGGACGTTGCCTGGCTTGACAGCAACAACAGCAGCAGCAACAGCAGCAGCAGCAGCAGCAG
CAGCAGCAGCAGCAACAGCAGCCGACGAGCAGCCGCGCAACCACAGCAGCAACAACAGCAG
CCGGCCCTTGTTAACTACAACAGACCATCTGGCCCGGGCCGGAGCTGAGCGGCCGAGCAGCCCGCAG
AAGCTGCCGTTGCCCGCCCGCCGGCCCGCCCTCGCCCGCCCGCCCGCAGCCCGCAGCCCGCCCGC
CAGAAAGCAGAGCCGCATCAGCCCATCCAGAAACCGCAAGGCCTGGACCCCGTGGAAATCTGCAAGAG
CGGAATACAGACTTCAGGCCCGCATAGCTCATAGGATACAAGAACTGGAATCTGCCTGGCTCTTTG
CCACCAGATTTAAGAACCAAGCAACCCTGGAATAAAAGCACTTCGTTACTCAATTTCCAGCGTCAG
CTGAGACAGGAGGTGGTGGCCTGCATGCGCAGGGACACGACCCTGGAGACGGCTCTCAACTCCAAAGCA
TACAAACGGAGCAAGCGCCAGACTCTGAGAGAAGCTCGCATGACCGAGAAGCTGGAGAAGCAGCAGAAG
ATTGAGCAGGAGAGAAACGCCGTCAGAAACACCAGGAATACCTGAACAGTATTTTGAACATGCAAAA
GATTTTAAAGGAATATCATCGTCTGTGGCCGAAAGATCCAGAAGCTCTCAAAGCAGTGGAACCTTGG
CATGCCAACACTGAAAGAGAGCAGAAGAAGGAGACAGAGCGGATTGAAAAGGAGAGAATGCGGCGACTG
```



[View online »](#)

ATGGCTGAAGATGAGGAGGGTTATAGAAAAGTATTGATCAAAAGAAAGACAGGCGTTTACCTTACCTT
TTGCAGCAGACCGATGAGTATGTAGCCAATCTGACCAATCTGGTTTGGGAGCACAAGCAAGCCCAGGCA
GCCAAAGAGAAGAAGAAGAGGAGGAGGAGGAAGAAGAAGGCTGAGGAGAAATGCAGAGGGTGGGGAGTCT
GCCCTGGGACCGGATGGAGAGCCATAGATGAGAGCAGCCAGATGAGTGACCTCCCTGTCAAAGTGACT
CACACAGAAACCGCAAGGTTCTGTTCCGACCAGAAGCACCCAAAGCAAGTCAGCTGGACGCTGGCTG
GAAATGAATCCTGGTTATGAAGTTGCCCTAGATCTGACAGTGAAGAGAGTGATTCTGATTATGAGGAA
GAGGATGAGGAAGAAGAGTCCAGTAGGCAAGAAACCGAAGAGAAAATACTCCTGGATCCAAATAGCGAA
GAAGTTTCTGAGAAGGATGCTAAGCAGATCATTGAGACAGCTAAGCAAGACGTGGATGATGAATACAGC
ATGCAGTACAGTGCCAGGGGCTCCAGTCTACTACACCGTGGCTCATGCCATCTCGGAGAGGGTGGAG
AAACAGTCTGCCCTCCTAATTAATGGGACCCTAAAGCATTACCAGCTCCAGGGCCTGGAATGGATGGTT
TCCCTGTATAATAACAACTTGAACGGAATCTTAGCCGATGAAATGGGGCTTGGAAAGACCATACAGACC
ATTGCACTCATCACTTATCTGATGGAGCACAAAAGACTCAATGGCCCTATCTCATATTGTTCCCTT
TCGACTCTATCTAACTGGACATATGAATTTGACAAATGGGCTCCTTCTGTGGTGAAGATTTCTTACAAG
GGTACTCTGCCATGCGTCGCTCCCTGTCCCCAGCTACGGAGTGGCAAATTCATGTCCTCTTGACT
ACTTATGAGTATATTATAAAGACAAGCACATTCTTGCAAAGATTCGGTGGAAATACATGATAGTGGAC
GAAGGCCACCGAATGAAGAATCACCACTGCAAGCTGACTCAGGTGGACTTAAATGAAGAAGAACTATA
TTGATCATCAGGCGTCTACATAAGGTGTTAAGACCATTTTTACTAAGGAGACTGAAGAAAAGGTTGAA
TCCCAGCTTCCGAAAAAGTGGAAATATGTGATCAAGTGTGACATGTCAGCTCTGCAGAAGATTCTGTAT
CGCCATATGCAAGCCAAGGGGATCCTTCTCACAGATGGTTCTGAGAAAAGATAAGAAGGGGAAAGGAGGT
GCTAAGACACTTATGAACACTATTATGCAGTTGAGAAAAATCTGCAACCACCCATATATGTTTCAGCAC
ATTGAGGAATCCTTTGCTGAACACTAGGCTATTCAAATGGGGTCAATGAGGGCTGAACTGTATCGG
GCCTCAGGGAAGTTTGAAGTCTGATCGTATTCTGCCAAAATGAGAGCGACTAATCACCGAGTCTG
CTTTTCTGCCAGATGACATCTCATGACCATCATGGAGGATTATTTGCTTTTCCGAATTCCTTTAC
CTACGCTTGTGAGCACCACCAAGTCTGAAGATCGTGTGCTGCTTTGCTGAAGAAATTCAAATGAACCTGGA
TCCCAGTATTTCTTTTCTGCTGAGCACAAGAGCTGGTGGCCTGGGCTTAAATCTTCAGCAGCTGAT
ACAGTGGTCACTTTGACAGCGACTGGAATCCTCATCAGGATCTGCAGGCCAAGACCGAGCTCACCGC
ATCGGGCAGCAGAACGAGGTCCGGTACTGAGGCTCTGTACCGTGAACAGCGTGGAGGAAAAGATCCTC
GCGGCCGCAAAATACAAGCTGAACGTGGATCAGAAAGTATCCAGGCGGGCATGTTTGACAAAAGTCT
TCAAGCCACGAGCGGAGGCGATTCTGCAGGCCATCTGGAGCATGAGGAGGAAAATGAGGAAGAAGAT
GAAGTACCGGACGATGAGACTCTGAACCAATGATTGCTCGACGAGAAGAAGATTTGACCTTTTTATG
CGGATGGACATGGACCGGCGGAGGAAGATGCCCGGAACCGAAACGGAAGCCCCGTTTAAATGGAGGAG
GATGAGCTGCCCTCCTGGATCATTAAAGGATGACGCTGAAGTAGAAAGGCTCACCTGTGAAGAAGAGGAG
GAGAAAATATTTGGGAGGGGGTCCCGCCAGCGCCGTGACGTGGACTACAGTGACGCCCTCACGGAGAAG
CAGTGGCTAAGGGCCATCGAAGACGGCAATTTGGAGGAAATGGAAGAGGAAGTACGGCTTAAAGAGCGA
AAAAGACGAAGAAATGTGGATAAAGATCCTGCAAAAGAAGATGTGAAAAAGCTAAGAAGAGAAGAGGC
CGCCCTCCCGCTGAGAACTGTCAACCAATCCCCCAACTGACAAAGCAGATGAACGCTATCATCGAT
ACTGTGATAAACTACAAAGATAGTTCAGGGCGACAGCTCAGTGAAGTCTTCATTCACTTACCTTCAAGG
AAAGAATTACCAGAATACTATGAATTAATTAGGAAGCCAGTGGATTTCAAAAAATAAAGGAAAGGATT
CGTAATCATAAGTACCGGAGCCTAGGCGACCTGGAGAAGGATGTCATGCTTCTGTGACAAACGCTCAG
ACGTTCAACCTGGAGGGATCCCAGATCTATGAAGACTCCATCGTCTTACAGTCAGTGTAAAGAGTGCC
CGGCAGAAAATTGCCAAAGAGGAAGAGAGTGAAGTGAAGCAATGAAGAGGAGGAAGAGGAAGATGAA
GAAGAGTCAGAGTCCGAGGCAAAATCAGTCAAGGTGAAAATTAAGCTCAATAAAAAAGATGACAAAGGC
CGGGACAAAGGGAAAGGCAAGAAAAGGCCAAATCGAGGAAAAGCCAAACCTGTAGTGAGCGATTTTGAC
AGCGATGAGGAGCAGGATGAACGTGAACAGTCAGAAGGAAGTGGGACGGATGATGAG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

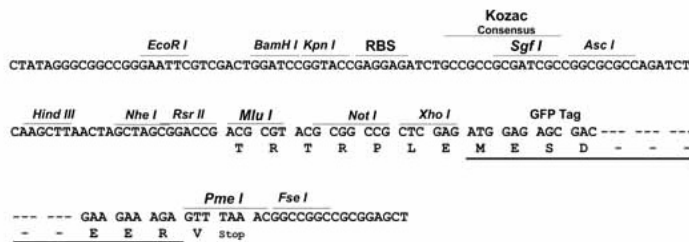
Protein Sequence: >Peptide sequence encoded by RG240168
 Blue=ORF Red=Cloning site Green=Tag(s)

MSTPTDPGAMPHPGSPGPGSPGPILGSPGPGSPGSPGSHMMGSPGPPSVSHPMPTMGSTDFPQEG
 MHQMHPIDGIHDKGIVEDIHCGSMKGTGMRPPHPGMPPQSPMDQHSQGYMSPHPSPLAGPEHVSSPM
 SGGGPTPPQMPSPQPGALIPGDPQAMSQPNRGPSPFSPVQLHQLRAQILAYKMLARGQPLPETLQLAVQ
 GKRTLPLGLQQQQQQQQQQQQQQQQQQQQQQQQQQPPQPPQPTQQQQQPALVNYNRPSGPGPELSPSTPQ
 KLPVPAPGGRPSAPPAAAQPPAAAAPGSPVPQAPGQPSVPLQLQQKQSRIPIQKQGLDPVEILQE
 REYRLQARIAHRIQELENLPGSLPPDLRTKATVELKALRLLNFQRQLRQEVVACMRRDTTLETALNSKA
 YKRSKRQTLREARMTEKLEKQKIEQERKRRQKHQEYLNLSILQHAKDFKEYHRSVAGKIQLSKAVATW
 HANTEREQKKEKETERIEKERMRLMAEDEEGYRKLIDQKKDRRLAYLLQQTDEYVANLTNLVWEHQQAQA
 AKEKKRRRRKKAEENAEGGESALGPDGEPIDESSQMSDLPVKVTHTETGKVLFGPEAPKASQLDAWL
 EMNPGYEVAPRSDSEESDSDYEEDEEESSRQETEEKILLDPNSEEVSEKDAKQI IETAKQDVDEYS
 MQYSARGSQSYTVAHAISERVEKQSALLINGTLKHYQLQGLEWMSLYNNNLNGILADEMGLGKTIQT
 IALITYLMEHKRLNGPYLIIVPLSTLSNWTYEFDKWAPSVVKISYKGPAMRRSLVPQLRSGKFNVLLT
 TYEYIIKDKHILAKIRWKYMIIVDEGHRMKNHHCKLTQVDLNEEETILIRRLHKVLRPFLRLRKKKEVE
 SQLPEKVEYVIKCDMSALQKILYRHMQAKGILLTDGSEKDKKGGGAKTLMNTIMQLRKICNHPYMFQH
 IEESFAELHGYNSGVINGAELYRASKGFELLDRIPLKLRATNHRVLLFCQMTSLMTIMEDYFAFRNFLY
 LRLDGTTKSEDRAALLKKFNPEGSSQYFIFLLSTRAGGLNLQAADTVVIFDSDWNPQDLQAQDRADR
 IGQQNEVRVLRCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAIHEHEEENEED
 EVPDDETLNQMIARREEFDLFMRMDMRRREDARNPKRKPRLMEDELPSWIKDDAEVERLTCEEEE
 EKIFGRGSRQRDQVSDALTEKQWLRATEDGNLEEMEEVRLKKRKRNRNVKDPKAKEDVEKAKRRR
 RPPAEKLSNPPLTKQMNAIIDTVINYKSSGRQLSEVFIQLPSRKELPEYELIRKPVDFKKIKERI
 RNHKYRSLGDLEKDVMLLCHNAQTFNLEGSQIYEDSIVLQSVFKSARQKIAKEEESSEDESENEEEDE
 EESESEAKSVKVIKLNKDDKGRDKGKGRPNRGKAKPVVSDFDSDDEQDEREQSEGSGTDDE
TRTRPLEMESDESGLPAMEIECRITGLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:

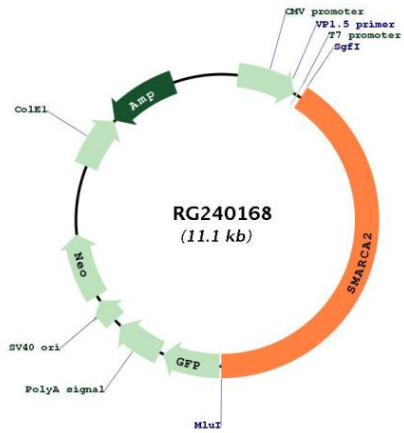
Cloning sites used for ORF Shutting:



ACCN: NM_001289397

ORF Size:	4542 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_001289397.2
RefSeq Size:	5664 bp
RefSeq ORF:	4545 bp
Locus ID:	6595
UniProt ID:	P51531
Cytogenetics:	9p24.3
Protein Families:	Druggable Genome
MW:	173 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 RG240168