

Product datasheet for **RG240182**

SMARCA2 (NM_001289396) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCA2 (NM_001289396) 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:	>RG240182 representing NM_001289396. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCCACGCCACAGACCCTGGTGCATGCCACCCAGGGCCTTCGCCGGGGCCTGGGCCTTCCCT
GGGCCAATTCTGGGCCTAGTCCAGGACCAGGACCATCCCAGGTTCCGTCCACAGCATGATGGGCCA
AGTCTGGACCTCAAGTGTCTCCATCTATGCCGACGATGGGTCCACAGACTCCCACAGGAAGGC
ATGCATCAAATGCATAAGCCATCGATGGTATACATGACAAGGGGATTGTAGAAGACATCCATTGTGA
TCCATGAAGGGCACTGGTATGCGACCACCTCACCAGGCATGGGCCCTCCCAGAGTCCAATGGATCAA
CACAGCCAAGGTTATATGTCACCACACCATCTCCATTAGGAGCCCAGAGCACGTCTCCAGCCCTATG
TCTGGAGGAGGCCAACTCCACCTCAGATGCCACCAAGCCAGCCGGGGCCCTCATCCCAGTGATCCG
CAGGCCATGAGCCAGCCAAACAGAGTCCCTCACCTTTCAGTCCGTGCCAGCTGCATCAGCTTCGAGCT
CAGATTTTAGCTTATAAAATGCTGGCCCGAGGCCACCCCTCCCCGAAACGCTGCAGCTTGCACTCCAG
GGGAAAAGGACGTTGCCTGGCTTGCAAGCAACAGCAGCAGCAACAGCAGCAGCAGCAGCAGCAGCAG
CAGCAGCAGCAGCAGCAACAGCAGCCGACGAGCAGCCGCGCAACCACAGCAGCAACACAGCAG
CCGGCCCTTGTTAACTACAACAGACCATCTGGCCCGGGCCGGAGCTGAGCGGCCGAGCAGCCCGCAG
AAGCTGCCGTTGCCCGCCCGCCGGCCCGCCCTCGCCCGCCCGCCCGCAGCCCGCAGCCCGCCCGC
GCCGAGTGCCCGGCCCTCAGTGCCGACGCCGCGCCCGGGGAGCCCTCGCCCGTCTCCAGCTGCAG
CAGAAGCAGAGCCGCATCAGCCCATCCAGAAACCGCAAGGCCTGGACCCCGTGGAAATCTGCAAGAG
CGGAATACAGACTTCAGGCCCGCATAGCTCATAGGATACAAGAACTGGAATCTGCCTGGCTCTTTG
CCACCAGATTTAAGAACCAAGCAACCGTGAAGTAAAGCACTTCGTTACTCAATTTCCAGCGTCAG
CTGAGACAGGAGGTGGTGGCCTGCATGCGCAGGGACAGACCCTGGAGACGGCTCTCAACTCCAAAGCA
TACAAACGGAGCAAGCGCCAGACTCTGAGAGAAGCTCGCATGACCGAGAAGCTGGAGAAGCAGCAGAAG
ATTGAGCAGGAGAGAAACGCCGTCAGAAACACCAGGAATACCTGAACAGTATTTTGAACATGCAAAA
GATTTTAAAGGAATATCATCGGTCTGTGGCCGAAAGATCCAGAAGCTCTCAAAGCAGTGGAACCTTGG
CATGCCAACACTGAAAGAGAGCAGAAGAAGGAGACAGAGCGGATTGAAAAGGAGAGAATGCGGCGACTG
```



[View online »](#)

ATGGCTGAAGATGAGGAGGGTTATAGAAAAGTATTGATCAAAAGAAAGACAGGCGTTTAGCTTACCTT
 TTGACGACAGACCGATGAGTATGTAGCCAATCTGACCAATCTGGTTTGGGAGCACAAGCAAGCCCAGGCA
 GCCAAAGAGAAGAAGAAGAGGAGGAGGAGGAAGAAGAAGGCTGAGGAGAAATGCAGAGGGTGGGGAGTCT
 GCCCTGGGACCGGATGGAGAGCCATAGATGAGAGCAGCCAGATGAGTGACCTCCCTGTCAAAGTGACT
 CACACAGAAACCCGCAAGGTTCTGTTCCGACCAGAAGCACCCAAAGCAAGTCAGCTGGACGCTGGCTG
 GAAATGAATCCTGGTTATGAAGTTGCCCTAGATCTGACAGTGAAGAGAGTGATTCTGATTATGAGGAA
 GAGGATGAGGAAGAAGAGTCCAGTAGGACGGAACCCGAAGAGAAAATACTCCTGGATCCAATAGCGAA
 GAAGTTTCTGAGAAGGATGCTAAGCAGATCATTGAGACAGCTAAGCAAGACGTGGATGATGAATACAGC
 ATGACAGTACAGTGCCAGGGGCTCCAGTCTACTACACCGTGGCTCATGCCATCTCGGAGAGGGTGGAG
 AAACAGTCTGCCCTCCTAATTAATGGGACCCTAAAGCATTACCAGCTCCAGGGCTGGAATGGATGGTT
 TCCCTGTATAATAACAACTTGAACGGAATCTTAGCCGATGAAATGGGGCTTGAAAGACCATACAGACC
 ATTGCACTCATCACTTATCTGATGGAGCACAAAAGACTCAATGGCCCTATCTCATATTGTTCCCTT
 TCGACTCTATCTAACTGGACATATGAATTTGACAAATGGGCTCCTTCTGTGGTGAAGATTTCTTACAAG
 GGTACTCTGCCATGCGTCGCTCCCTGTCCCCAGCTACGGAGTGGCAAATTCATGTCCTCTTGACT
 ACTTATGAGTATATTATAAAGACAAGCACATTCTTGCAAAGATTCGGTGGAAATACATGATAGTGGAC
 GAAGGCCACCGAATGAAGAATCACCACTGCAAGCTGACTCAGGCTTGAACACTCACTATGTGGCCCC
 AGAAGGATCCTCTTGACTGGGACCCCGCTGCAGAATAAGCTCCCTGAACTCTGGGCCCTCTCAACTTC
 CTCTCCCAACAATTTTTAAGAGCTGCAGCACATTTGAACAATGGTTCAATGCTCCATTTGCCATGACT
 GGTGAAAGGGTGGACTTAAATGAAGAAGAACTATATTGATCATCAGGCGTCTACATAAGGTGTTAAGA
 CCATTTTTACTAAGGAGACTGAAGAAAGAGTTGAATCCCAGCTTCCGAAAAAGTGAATATGTGATC
 AAGTGTGACATGTCAGCTCTGCAGAAGATTCTGTATCGCCATATGCAAGCCAAGGGGATCCTTCTACA
 GATGGTTCTGAGAAAGATAAGAAGGGGAAAGGAGGTGCTAAGACACTTATGAACACTATTATGCAGTTG
 AGAAAACTGCAACCACCCATATATGTTTCAGCACATTGAGGAATCCTTTGCTGAACACTAGGCTAT
 TCAAATGGGGTCATCAATGGGGCTGAACTGTATCGGGCTCAGGGAAGTTTGGAGCTGCTTGATCGTATT
 CTGCCAAAATTGAGAGCGACTAATCACCGAGTGTGCTTTTCTGCCAGATGACATCTCTCATGACCATC
 ATGGAGGATTATTTTGTCTTTTGGAACTTCTTTACCTACGCCTTGATGGCACCACCAAGCTGAAGAT
 CGTGCTGCTTTGCTGAAGAAATCAATGAACCTGGATCCCAGTATTTTCTTTTCTGCTGAGCACAAGA
 GCTGGTGGCTGGGCTTAAATCTTCAGGCAGCTGATACAGTGGTTCATCTTTCAGCAGCTGGAATCCT
 CATCAGGATCTGCAGGCCAAGACCGAGCTCACCGCATCGGCAGCAGAACGAGGTCGGGTACTGAGG
 CTCTGTACCGTGAACAGCGTGGAGGAAAAGATCCTCGCGGCCGAAAATACAAGCTGAACGTGGATCAG
 AAAGTGTCCAGGCGGGCATGTTTGACCAAAAGTCTTCAAGCCAGGAGCGGAGGGCATTCTGCAGGCC
 ATCTTGGAGCATGAGGAGGAAAATGAGGAAAGAAGATGAAGTACCGGACGATGAGACTCTGAACCAATG
 ATTGCTCGACGAGAAGAAGAATTTGACCTTTTATGCGGATGGACATGGACCGGGCGGAGGGAAGATGCC
 CGGAACCCGAAACGGAAGCCCGTTAATGGAGGAGGATGAGCTGCCCTCCTGGATCATTAAAGGATGAC
 GCTGAAGTAGAAAGGCTCACCTGTGAAGAAGAGGAGGAGAAAAATTTGGGAGGGGGTCCCGCCAGCGC
 CGTGACGTGGACTACAGTGACGCCCTCACGGAGAAGCAGTGGCTAAGGGCCATCGAAGACGGCAATTTG
 GAGGAAATGGAAGAGGAAGTACGGCTTAAAGAAGCGAAAAAGACGAAGAAATGTGGATAAAGATCTGCA
 AAAGAAGATGTGAAAAAGCTAAGAAGAGAAGAGGCCGCCCTCCCGCTGAGAACTGTACCAAAATCCC
 CCCAAACTGACAAAGCAGATGAACGCTATCATCGATACTGTGATAAACTACAAAGATAGGTGTAACGTG
 GAGAAGGTGCCAGTAATTCTCAGTTGGAAATAGAAGGAAACAGTTCAGGGCGACAGCTCAGTGAAGTC
 TTCATTAGTTACCTTCAAGGAAAGAATTACCAGAATACTATGAATTAATTAGGAAGCCAGTGGATTTT
 AAAAAATAAAGGAAAGGATTCTGAATCATAAAGTACCGGAGCCTAGGCGACCTGGAGAAGGATGTCATG
 CTTCTCTGTACAAACGCTCAGACGTTCAACCTGGAGGGATCCCAGATCTATGAAGACTCCATCGTCTTA
 CAGTCAGTGTAAAGAGTGCCCGCAGAAAAATTGCCAAAGAGGAAGAGAGTGAGGATGAAAGCAATGAA
 GAGGAGGAAGAGGAAGATGAAGAAGAGTCAAGTCCGAGGCAAAATCAGTCAAGGTGAAAATTAAGCTC
 AATAAAAAAGATGACAAAGGCCGGGACAAAGGGAAAGGCAAGAAAAGGCCAAATCGAGGAAAAGCCAAA
 CCTGTAGTGAGCGATTTTACAGCGATGAGGAGCAGGATGAACGTGAACAGTCAAGGAAGTGGGACG
 GATGATGAG

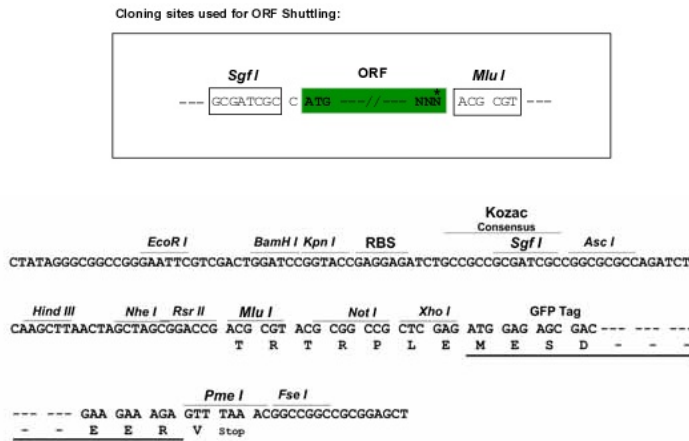
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

Protein Sequence: >Peptide sequence encoded by RG240182
 Blue=ORF Red=Cloning site Green=Tag(s)

MSTPTDPGAMPHPGSPGPGSPGPILGSPGPGSPGSPGSHMMGSPGPPSVSHPMPTMGSTDFPQEG
 MHQMHPIDGIHDKGIVEDIHCGSMKGTGMRPPHPGMPPQSPMDQHSQGYMSPHPSPLGAPEHVSSPM
 SGGGPTPPQMPSPQPGALIPGDPQAMSQPNRGPSPFSPVQLHQLRAQILAYKMLARGQLPETLQLAVQ
 GKRTLPLGLQQQQQQQQQQQQQQQQQQQQQQQQQQPPQPTQQQQQPALVNYNRPSPGPGPELSPSTPQ
 KLPVPAPGGRPSAPPPAAQPPAAAVPGPSVPQPAPGQPSVPLQLQQKQSRI SPIQKQGLDPVEILQE
 REYRLQARIAHRIQELENLPGSLPPDLRTKATVELKALRLLNFQRQLRQEVVACMRDDTTLETALNSKA
 YKRSKRQTLREARMTEKLEKQKIEQERKRRQKHQEYLNLSILQHAKDFKEYHRSVAGKIQLSKAVATW
 HANTEREQKKEKETERIEKERMRLMAEDEEGYRKLIDQKKDRRLAYLLQQTDEYVANLTNLVWEHKAQA
 AKEKKRRRRKKAEENAEGGESALGPDGEPIDESSQMSDLPVKVTHTETGKVLFGPEAPKASQLDAWL
 EMNPGYEVAPRSDSEESDSYEEEEEEEESSRQETEEKILLDPNSEEVSEKDAKQIIETAKQVDDEYS
 MQYSARGSQSYTVAHAISERVEQSALLINGTLKHYQLQGLEWVSLYNNNLNGILADEMGLKTIQT
 IALITYLMEHKRLNGPYLIIIVPLSTLSNWTYFEDKWAPSVVKISYKGPAMRRSLVPQLRSGKFNLLT
 TYEYIIKDKHILAKIRWYMIIVDEGHRMKNHHCKLTQVLNTHYVAPRRILLTGTPLQNKLPPELLWLN
 LLPTIFKSCSTFEQWPNAPFAMTGERVDLNEEETILIRRLHKVLRPFLLRLLKKEVESQLPEKVEYVI
 KCDMSALQKILYRHMQAAGILLTDGSEKDKKGGAKTLMNTIMQLRKICNHPYMFQHEESFAEHLGY
 SNGVINGAELYRASKGFELLDRIPLKLRATNHRVLLFCQMTSLMTIMEDYAFRNFLYLRDGTTKSED
 RAALLKKNFEPGSQYFIFLLSTRAGGLNLQAADTVVIFDSDWNPHQDLQAQDRAHRIGQQNEVRVLR
 LCTVNSVEEKILAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAIHEHEEENEDEVPDDELNQM
 IARREEFDLFMRMDMRRREDARNPKRKPRLMEDELPSWIKDDAEVERLTCEEEEEEIFGRGSRQR
 RDVDYSDALTEKQWLRAIEDGNLEEMEEVRLKKRKRNRVNDKPAKEDVEKAKRRRPPAEKLSNP
 PKLTKQMNAIIDTVINYKDRCNVEKVPNSQLEIEGNSSGRQLSEVF IQLPSRKELPEYYELIRKPVDF
 KKIKERIRNHKYRSLGDLEKDVMLLCHNAQTFNLEGSQIYEDSIVLQSVFKSARQKIAKEESEDESNE
 EEEEEEESESEAKSVKVIKLNKDDKGRDKGKGRPNRGKAKPVVSDFSDDEEQDEREQSESGT
 DDE
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

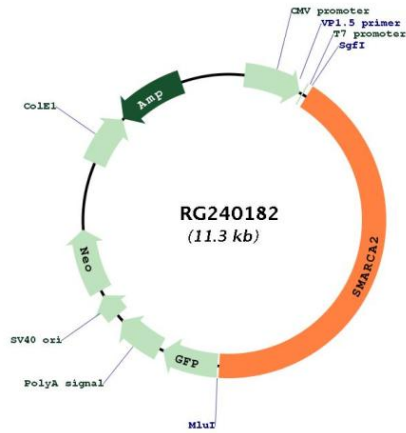
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001289396
ORF Size:	4770 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_001289396.1 , NP_001276325.1
RefSeq Size:	5879 bp
RefSeq ORF:	4773 bp
Locus ID:	6595
UniProt ID:	P51531
Cytogenetics:	9p24.3
Protein Families:	Druggable Genome
MW:	181.3 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 RG240182