

Product datasheet for **RG209444**

SMARCE1 (NM_003079) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMARCE1 (NM_003079) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMARCE1
Synonyms:	BAF57; CSS5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209444 representing NM_003079 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAAAAAGACCATCTTATGCCCCACCTCCCACCCAGCTCCTGCAACACAAATGCCAGCACACCAG
GGTTTGTGGGATACAATCCATACAGTCATCTCGCCTACAACAACACAGGCTGGGAGGGAACCCGGGCAC
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CGAATACGAAGCAGAAAAGATAGAGTACAATGAATCTATGAAGGCTATCATAATCCCCCGCTACCTT
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TCGACAGTATGGCAGAGGAAGGAACCAAGTATAGTAACTGGCTCGGAGAGCAACAGTGAACAGTGGA
GGAGCCACCAACAGATCCCATACCAGAAGATGAGAAAAAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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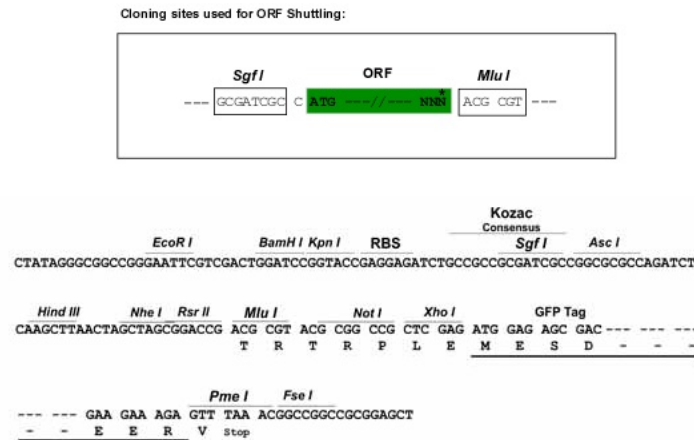
Protein Sequence: >RG209444 representing NM_003079
 Red=Cloning site Green=Tags(s)

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MSKRPSYAPPPTAPATQMPSTPGFVGYNPYSHLAYNNYRLGGNPGTNSRVTASSGITIPKPPKPPDKPL
MPYMRYSRKVWDQVKASNPDLKLWEIGKIIGGMWRDLTDEEKQEYLN EYAEKIEYNESMKAYHNSPAYL
AYINAKSRAEAAL EEE SRQRQSRMEKGEPIYMSIQPAEDPDDYDDGF SMKHTATARFQRNHRLISEILSES
VVPDVRVSVTTARMQVLKRQVQSLMVHQRKLEAELLQIEERHQEKRRKFL ESTDSFNNE LKRLCGLKVEV
DMEKIAAEIAQAEEQARKRQEEREKEAAEQAERSQSSIVPEEEQAANKGEEKDDENIPMETEETHLEET
TESQQNGEEGTSTPEDKESGQEGVDSMAEEGTSDSNTGSESNSATVEEPTDPIPEDEKKE
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003079

ORF Size: 1233 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_003079.5](#)

RefSeq Size: 2425 bp

RefSeq ORF: 1236 bp

Locus ID: 6605

UniProt ID: [Q969G3](#)

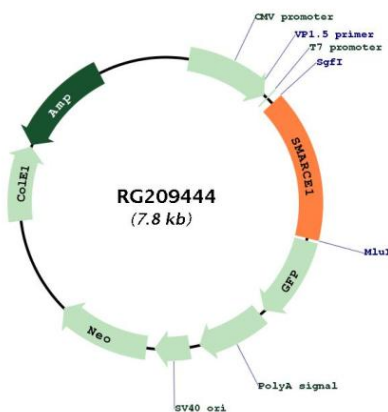
Cytogenetics: 17q21.2

Domains: HMG

Protein Families: Transcription Factors

Gene Summary: The protein encoded by this gene is part of the large ATP-dependent chromatin remodeling complex SWI/SNF, which is required for transcriptional activation of genes normally repressed by chromatin. The encoded protein, either alone or when in the SWI/SNF complex, can bind to 4-way junction DNA, which is thought to mimic the topology of DNA as it enters or exits the nucleosome. The protein contains a DNA-binding HMG domain, but disruption of this domain does not abolish the DNA-binding or nucleosome-displacement activities of the SWI/SNF complex. Unlike most of the SWI/SNF complex proteins, this protein has no yeast counterpart. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209444