

Product datasheet for MR225556

Smarcb1 (NM 001161853) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Smarcb1 (NM_001161853) Mouse Tagged ORF Clone

Tag:Myc-DDKSymbol:Smarcb1

Synonyms: AU020204; Baf47; Ini1; Snf5; SNF5/INI1

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR225556 representing NM_001161853
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGATGATGATGGCGTTGAGCAAGACCTTCGGGCAGAAGCCCGTCAAGTTTCAGCTGGAGGACGACGGGG AGTTCTACATGATCGGCTCCGAGGTGGGAAACTACCTGCGTATGTTCCGAGGTTCTCTGTACAAGAGATA CCCCTCACTCTGGCGGCGACTAGCCACTGTGGAAGAAAGGAAGAAAATAGTGGCATCGTCACATGATCAT GGATATACCACCCTGGCCACCAGCGTGACACTCCTGAAAGCCTCAGAGGTAGAAGAGATCCTGGATGGCA GAGGAACAGCCAGTGGGTCCCCACCCTGCCCAACAGCTCCCACCACCTGGATGCTGTGCCCTGTTCCACC ACCATCAACAGGAACCGCATGGGTCGGGACAAGAAGAAGAACCTTCCCCTTGTGCTTTGATGACCACGACC CAGCTGTGATCCATGAGAATGCGTCACAGCCTGAGGTGCTGGTGCCCATCCGGCTCGACATGGAGATCGA GAAATACTTTGTGATGACCTGGATTTGAATCCACTGACTTTTGTGCCAGCTATTGCCTCTGCCATTCGAC AGCAGATTGAGTCCTACCCCACAGACAGCATCCTAGAGGATCAATCCGACCAGCGTGTCATCATCAAGCT GAACATCCACGTGGGGAACATCTCCCTGGTGGACCAGTTTGAGTGGGACATGTCAGAGAAAGAGAACTCC CCAGAGAAGTTTGCCCTGAAGCTGTGCTCAGAGCTGGGCTTGGGCGGGGAGTTTGTCACCACCATTGCAT ACAGCATCCGAGGACAGCTGAGCTGGCACCAGAAGACCTATGCCTTCAGTGAGAACCCACTTCCCACAGT GAGATGGAGAAAAAGATCCGGGATCAAGATAGGAACACAAGGCGAATGAGGCGTCTTGCCAACACTGCCC CAGCCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR225556 representing NM_001161853

Red=Cloning site Green=Tags(s)

MMMMALSKTFGQKPVKFQLEDDGEFYMIGSEVGNYLRMFRGSLYKRYPSLWRRLATVEERKKIVASSHDH GYTTLATSVTLLKASEVEEILDGNDEKYKAVSISTEPPTYLREQKAKRNSQWVPTLPNSSHHLDAVPCST TINRNRMGRDKKRTFPLCFDDHDPAVIHENASQPEVLVPIRLDMEIDGQKLRDAFTWNMNEKLMTPEMFS EILCDDLDLNPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVIIKLNIHVGNISLVDQFEWDMSEKENS PEKFALKLCSELGLGGEFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDA EMEKKIRDQDRNTRRMRRLANTAPAW

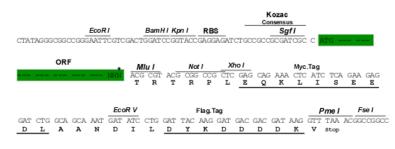
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3511 h06.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM 001161853

ORF Size: 1131 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at customport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

Smarcb1 (NM_001161853) Mouse Tagged ORF Clone - MR225556

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.

NM 001161853.1, NP 001155325.1 RefSeq:

43.2 kDa

RefSeq Size: 1647 bp RefSeq ORF: 1131 bp Locus ID: 20587 Cytogenetics: 10 C1 MW:

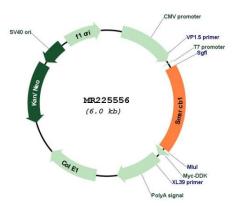
Core component of the BAF (SWI/SNF) complex. This ATP-dependent chromatin-remodeling **Gene Summary:**

complex plays important roles in cell proliferation and differentiation, in cellular antiviral activities and inhibition of tumor formation. The BAF complex is able to create a stable, altered form of chromatin that constrains fewer negative supercoils than normal. This change in supercoiling would be due to the conversion of up to one-half of the nucleosomes on polynucleosomal arrays into asymmetric structures, termed altosomes, each composed of 2 histones octamers. Stimulates in vitro the remodeling activity of SMARCA4/BRG1/BAF190A. Plays a key role in cell-cycle control and causes cell cycle arrest in G0/G1. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuronspecific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to postmitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for

dendrite growth.[UniProtKB/Swiss-Prot Function]



Product images:



Circular map for MR225556