

Product datasheet for **MR224417**

Smarcd2 (NM_001130187) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smarcd2 (NM_001130187) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smarcd2
Synonyms:	AW322457; Baf60b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR224417 representing NM_001130187
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGCCGTGGCGGGCGGGTCCCGCTGCCTCCGCTGAGCCCCGGCGGGCGCCGTTGCCGCG
 CCCTTGGTGCGCCGCTCCGCTGCGGGACCCGAATGCTGCCAGCCCGCGCTCAGGGCCCCGGGGCC
 TTCTGGAGGCATGGGGTACCGGGGCCCGCCCTCCGCCCCATGGGCCCGCTGGCCCCGCGCGCAG
 TACCAGCGTCTGGCATGTACCAGGAAGCAGGATGCCCATGGCTGGCTTGCAGGTGGGACCTCCTGCCG
 GTTCCCCATTTGGCACAGCTGCTCCGCTCCGACCTGGCATGCCACCTACCATGATGGATCCATTCGAAA
 ACGCTGCTTGTGCTCAGGCCAGCCCCGATGCCTGCCAGCGCCGAGGGTTAAAGAGGAGGAAGATG
 GCAGATAAGGTTCTACCTCAGCGAATCCGGGAGCTTGTCCAGAGTCTCAGGCATACATGGATCTTTT
 AGCTTTTCGAGAGGAAGCTGGACCAGACCATCGCTCGCAAGCGGATGGAGATCAAGAGGCCATCAAGAAGCC
 TCTGACGCAAAAGCGAAACTTCGATCTATATTTCCAATACATTCAGCCCCAGCAAGGGCGATGGAGAT
 AATGCGGGAACTGCGGGGACCCCTGGGGGAACCCCGGCAGCAGACAAGGTGGCCTCCTGGGAGCTTCGAG
 TAGAGGGGAACTGCTGGATGATCCTAGCAAACAGAAGAGGAAGTTCTCATCATTCTTTAAGAGCCTTGT
 GATTGAGTTGGACAAGGAAGTCTATGGGCCGACAACCATCTGGTGGAGTGGCATCGGATGCCACCACA
 CAGGAAACAGATGGCTTTCAGGTGAAACGGCCAGGAGATCTCAATGTCAAGTGCACCCCTTCTGCTCATGC
 TGGATCATCAGCCTCCTCAGTATAAACTGGACCCCGCTGGCGAGGTTGCTGGGAGTGCACACACAGAC
 CAGGGCGGCAATCATGCAGGCACTGTGGCTTACATCAAACACAACCAAGTGCAGGACGGCCATGAGCGC
 GAGTACATCAACTGCAATCGTTACTTCCGCCAGATCTTCAGTTGTGGCCGACTCCGTTTCTCCGAGATCC
 CCATGAAGCTGGCTGGATTGCTGCAGCATCCAGACCCCATTTGTTAATCATGTCATTAGTGGATCC
 TAATGACCAAAAGAAGACAGCCTGCTATGACATTGATGTAGAGGTTGATGACCCACTGAAGGCCAGATG
 AGCAACTTCTGCGCTCTACCACCAACAGCAGGAGATTGCTTCTTTCGCTCAAGATCCATGAGACCA
 TTGAGTCCATCAACCAGCTAAAGACCCAGAGGGATTTTCATGCTCAGCTTTCAGCCGAGCCCCAGGACTT
 CATCCAGGAGTGGCTCCGTTCCCAACGCCGAGACCTCAAGATCATCACAGATGTGATTGGAACCCCTGAG
 GAGGAGAGACGAGCTGCTTCTACCACAGCCCTGGGCTCAGGAAGCAGTGGGGAGGCACATCTTTGCCA
 AGGTGCAGCAGCGAAGGCAGGAAGTGAACAGGTGCTGGGAATTCGCCTGACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224417 representing NM_001130187
 Red=Cloning site Green=Tags(s)

MSGRGAGGFPLPPLSPGGGAVAAALGAPPPPAGPGMLPSPALRGPSPGGMGVPGAAAFRPMGPAGPAAQ
 YQRPMSPGSRMPMAGLQVGPAGSPFGTAAPLRPGMPPTMMDPFRKRLLPQAQPPMPAQRRLKRRKM
 ADKVLPRQIRELVPESQAYMDLLAFERKLDQTIARKRMEIQEAIKKPLTQKRKLRIYISNTFSPSKADGD
 NAGTAGTPGGTPAADKVASWELRVEGKLLDDPSKQKRKFSFFKSLVIELDKELYGPDNHLVEWHMPPT
 QETDGFQVCRPDLNVKCTLLMLDHQPPQYKLDPRLARLLGVHTQTRAAIMQALWLYIKHNQLQDHER
 EYINCNRIFRQIFSCGRLRFSEIPMKLAGLLQHPDPIVINHVISVDPNDQKKTACYDIDVEVDDPLKAQM
 SNFLASTTNQEIASLDVKIETHIESINQLKTQRDFMLSFSTEPQDFIQEWLRSQRRLKIITDVIENPE
 EERRAAFYHQWAEAVGRHIFAKVQRRQEQLEQVLGIRLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001130187

ORF Size: 1593 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_001130187.1](#), [NP_001123659.1](#)

RefSeq Size: 2767 bp

RefSeq ORF: 1596 bp

Locus ID: 83796

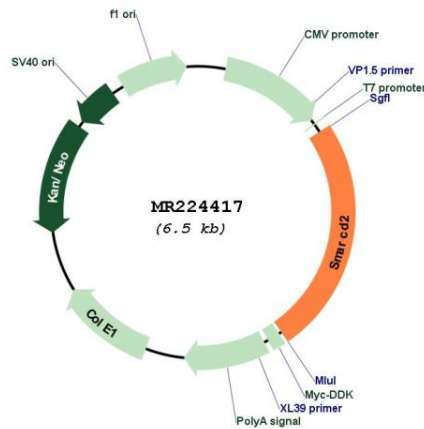
UniProt ID: [Q99JR8](#)

Cytogenetics: 11 E1

MW: 59.5 kDa

Gene Summary: Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner. Critical regulator of myeloid differentiation, controlling granulocytopoiesis and the expression of genes involved in neutrophil granule formation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224417