

Product datasheet for **MC216602**

Smarcd2 (NM_031878) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Smarcd2
Synonyms:	AW322457; Baf60b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>MC216602 representing NM_031878
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGGTATGGGCTATGGACCTCGGAGGGCTCGCCACTGACCTGTGTCCCTCCACTGTTCCACTTTC
 CTCAGCGTCTGGCATGTCAACAGGAAGCAGGATGCCCATGGCTGGCTTGCAGGTGGGACCTCCTGCCGG
 TTCCCCATTGGGCACAGCTGCTCCGCTCCGACCTGGCATGCCACCTACCATGATGGATCCATTCCGAAAA
 CGCCTGCTTGTGCTCAGGCCAGCCCCGATGCTGCCAGCGCCGAGGGTTAAAGAGGAGGAAGATGG
 CAGATAAGGTTCTACCTCAGCGAATCCGGAGCTTGTCCAGAGTCTCAGGCATACATGGATCTTTTAGC
 TTTCGAGAGGAAGCTGGACCAGACCATCGCTCGCAAGCGGATGGAGATTCAAGAGGCCATCAAGAAGCCT
 CTGACGCCAAAGCGAAAACCTTCGGATCTATATTCCAATACATTAGCCCCAGCAAGGCGGATGGAGATA
 ATGCGGGAAGTGCAGGACCCCTGGGGGAACCCCGCAGCAGACAAGGTGGCTCCTGGGAGCTTCGAGT
 AGAGGGGAACTGCTGGATGATCCTAGCAAACAGAAGAGGAAGTTCTCATCTTTAAGAGCCTTGTG
 ATTGATTGGACAAGGAAGTCTATGGGCCGACAACCATCTGGTGGAGTGGCATCGGATGCCACACAC
 AGGAAACAGATGGCTTTCAGGTGAAACGGCCAGGAGATCTCAATGTCAAGTGCACCTTCTGCTCATGCT
 GGATCATCAGCCTCCTCAGTATAAACTGGACCCCGCCTGGCAGGTTGCTGGGAGTGCACACAGACC
 AGGGCGGCAATCATGAGGCACTGTGGCTTTACATCAACACAACAGCTGCAGGACGGCCATGAGCGCG
 AGTACATCAACTGCAATCGTTACTTCCGCCAGATCTTCAGTTGTGGCCGACTCCGTTTCTCCGAGATTCC
 CATGAAGCTGGCTGGATTGCTGCAGCATCCAGACCCATTGTTATTAATCATGTCTTAGTGTGGATCCT
 AATGACCAAAAGAAGACAGCCTGCTATGACATTGATGTAGAGGTTGATGACCCACTGAAGGCCAGATGA
 GCAACTTCTGGCCTCTACCACCAACCAGCAGGAGATTGCTTCTCTGACGTCAAGATCCATGAGACCAT
 TGAGTCCATCAACCAGCTAAAGACCCAGAGGGATTTCATGCTCAGCTTTAGCACCGAGCCCCAGGACTTC
 ATCCAGGAGTGGCTCCGTTCCCAACGCCGAGACCTCAAGATCATCACAGATGTGATTGGAACCCCTGAGG
 AGGAGAGACGAGCTGCTTTCTACCACGACCCCTGGGCTCAGGAAGCAGTGGGGAGGCACATCTTGCCAA
 GGTGCAGCAGCGAAGGCAGGAAGTGAACAGGTGCTGGGAATTCGCCTGACCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_031878

Insert Size:

1455 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_031878.2</u> , <u>NP_114084.2</u>
RefSeq Size:	2401 bp
RefSeq ORF:	1455 bp
Locus ID:	83796
Cytogenetics:	11 E1
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] Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, compared to variant 1. The resulting isoform (2) has a distinct N-terminus and is shorter than isoform 1.