

Product datasheet for **MR207736**

Smarcd3 (NM_025891) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Smarcd3 (NM_025891) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Smarcd3 |
| Synonyms: | 1500001J14Rik; 2210409C08Rik; BAF60C |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR207736 representing NM_025891
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGCGGACGAAGTTGCCGGAGGGGCGCGCAAAGCCACGAAAAGCAAACCTTTTTGAGTTTCTGGTCC
 ATGGGGTGCGCCCGGGATGCCGTCTGGAGCCGAATGCCACCAGGGGCGCCATGGGCCCGCGGG
 CCCCCGTACATGGGCAGCCCCGCGGTACGACCCGGCCTGGCCCCGCGGGCATGGAGCCCGCCCAAG
 CGAGCAGCGCCCCGCCGGGCAGAGCCAGGCACAGGGCCAGGGCCAGCCGTGCCACCGCCCCAGCGC
 GGAGCCGAGTGC AAGAGGAGGAAGATGGCTGACAAAATCCTCCCTCAAAGGATTCGGGAGCTGGTACC
 CGAGTCCCAGGCTTACATGGACCTCTAGCATTGAGAGGAACTGGATCAAACCATCATGCGGAAGCGG
 GTGGACATCCAGGAGGCCCTGAAGAGGCCATGAAGCAAAGCGAAAGCTGCGCCTTTATATCTCCAATA
 CTTTTAACCTGCGAAGCCTGATGCGGAAGACTCTGATGCAGCATTGCCTCCTGGGAGCTGCGGGTGA
 GGGGAAGCTCTGGATGATCCTAGTAAGCAGAAGAGGAAGTTTTCTTCTTCAAGAGTTTGGTCATT
 GAGTTGGACAAAGACCTTTATGGCCAGACAACCACTTGTGAGTGGCACCAGGACCCACAACCCAGG
 AAACAGATGGGTTCCAAGTGAAGAGACCAGGGACTTGAGTGTGCGCTGCACCCTGCTCCTGATGCTGGA
 CTATCAGCCTCCCGATTCAAATTTGACCCCGCTTAGCCCGGCTGCTGGGGTTACACACAGAGCCGC
 TCAGCCATTGTCCAGGCACTGTGGCAGTATGTGAAGACCAACAGGCTACAGGACTCCCATGACAAGGAGT
 ACATCAATGGCGACAAGTATTTCCAGCAGATTTTGTACTGCCCGCCTAAAGTTCTCTGAGATCCCA
 GCGCCTCACAGCCTGCTGCTGCCCGCTGACCCATTGTGATCAACCACGTCATCAGCGTGGACCCATCA
 GACCAGAAGAAGCAGCGTGCTATGACATAGATGTGGAGTGGAGGAACCGCTGAAAGGGCAGATGAGTA
 GCTTCTCCTGTCCAGGCCAACAGCAGGAGATCAGTGCTCTGGACAGTAAGATCCATGAGACGATGTA
 GTCATAAACAGCTCAAGATCCAGAGGACTTCAAGTAAAGTTTCTCCAGAGACCCCAAAGGCTACGTC
 CAAGACCTGCTCCGCTCCAGAGCCGTGATCTCAAGGTGATGACAGATGTGGCAGGGAACCCGAGGAAG
 AACGCAGGGCTGAGTTCTACCACAGCCCTGGTCCCAGGAAGCCGTTAGCCGCTACTTCTACTGTAAGAT
 CCAGCAGCGCAGGAGGAGCTGGAGCAGTCGCTGGTCTGCGCAACACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207736 representing NM_025891
 Red=Cloning site Green=Tags(s)

MAADEVAGGARKATKSKLFEFLVHGVPRGMPGARMHQGAPMPPGSPYMGSPAVRPLAPAGMEPARK
 RAAPPPGQSQAQGGQPVPTAPARSRSARRKMDKILPQRIRELVPESEQAYMDLLAFERKLDQTIMRKR
 VDIQEALKRPMKQKRKLRLYISNTFNPAPDAEDSDGSIASWELRVEGKLLDDPSKQKRKFSFFKSLVI
 ELDKDLYGPDNHLVEWHRTPTTQETDGFQVCRPGDLVSRCTLLMLDYQPPQFKLDPRLARLLGLHTQSR
 SAIVQALWQYVKTNRQLQSDHKEYINGDKYFQQIFDCPRLKFSEIPQRLTALLPPDPIVINHVISVDPS
 DQKKTACYDIDVEVEEPLKGMSSFLLSTANQQEISALDSKIHETIESINQLKIQRDFMLSFSRDPKGYV
 QDLLRSQSRDLKVMTDVAGNPEEERRAEFYHQPWSQEAVSRYFYCKIQRRQLEQLSVVRNT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9036_g01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_025891

ORF Size: 1449 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_025891.3](#), [NP_080167.3](#)

RefSeq Size: 1743 bp

RefSeq ORF: 1452 bp

Locus ID: 66993

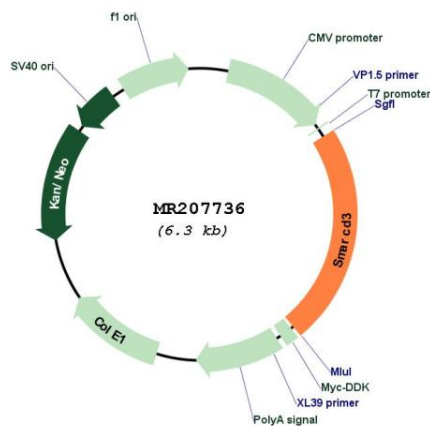
UniProt ID: [Q6P9Z1](#)

Cytogenetics: 5 A3

MW: 55.4 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 (PubMed:22952240, PubMed:26601204). Stimulates nuclear receptor mediated transcription. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific 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 (PubMed:17640523).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207736