

Product datasheet for **MG211594**

Smarcc1 (BC052423) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smarcc1 (BC052423) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Smarcc1
Synonyms:	Rsc8, BAF155, SRG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211594 representing BC052423 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGACAGCGGGTGGCGGTCCGGGAGCAGCAGCAGGCGCCGTGGGTGCAGGGGGTGCGGCGCGG
CCTCCGGGCTGGCCGTGTACCGGAGGAAGGACGGGGGCCCGCCAGCAAGTTTGGGAGAGCCGGACAC
GGTGTCCAGCTAGATTCGGTGCAGTCTGGCTGGCAAGCACTACAAGAAGTATGTTTCATGCAGATGCT
CCTACCAATAAAACACTAGCTGGACTGGTGGTGCAGCTTCTACAGTTCCAAGAAGATGCCTTTGGGAAGC
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GTGTCACATTCTGGGGCAGCTTACAAGTACAAAATGAACAGGGCTGGCGGAGATTTGATCTTCAGAAC
CCATCCCGAATGGATCGTAACGTTGAAATGTTTCATGAACATTGAGAAAACATTGGTACAGAACAACCTGTC
TGACTAGACCAACATCTACCTCATTCCAGACATTGATTTGAAGTTGGCTAACAGTTGAAAGATATCAT
CAAACGGCATCAGGGGACATTTACTGATGAGAAGTCAAAGCTTCCCACCATATTTATCCATATCCTTCC
TCACAAGAGGATGAGGAGTGGCTGAGACCAGTGATGAGGAGAGACAAGCAGGTGCTGGTGCAGTGGGTT
TCTACCCAGACAGCTATGACACTTGGGTCCACAGTAATGATGTTGATGCTGAAATGAAGATGCACCAAT
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CCCTTCTCCTCCTCCTCCACAGCCACAGAGTCCCGCAAGAAGAGCGGGAAGAAAGGACAAGCTAGCCTT
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AGACCAATCACATCATTATCCAGCTACGCATCCTGGTTTGATTATAATTGATTTCATGTCATTGAACG
GCGTGCCTTCTGAGTCTTTAATGAAAAACAATCCAAGACCCCTGAAATATACTTGGCATATCGA



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AATTTTATGATTGACACATACCGTCTAAACCCTCAAGAATATTTAACCAGCACTGCTTGCCGGCGAAACC
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 CCACTTGGAGCCACAGGCCACCTGGCATGATGCCGCATCAGCAGCCCTCCCTACCCACTGATGCACC
 ATCAGATGCCGCCACCCATCTCCCAACCAGGTCAAATACCAGGCCCTGGCTCCATGATGCTGGCCCA
 GCCATGCCAGGTGCATGATCCCGCTGTGGCAGCCAACATTCACCTACTGGGAGTGGCCCTACCCCT
 CCTGGTATGCCTCCAATGCCCGAAACATCTTAGGACCCCGGTACCCCTCACAGCACAAACGGCATGT
 GTAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG211594 representing BC052423
 Red=Cloning site Green=Tags(s)

MAATAGGGPGAAAGAVGAGGAAAAAGSLAVYRRKDGPPASKFWESPDTVSQQLDSVRVWLGKHYKKYVHADA
 PTNKTLAGLVVQLLQFQEDAFGKHVTNPAFTKLPKCFMDFKAGGTLCHILGAAYKYKNEQGWRRFDLQN
 PSRMDRNVEMFMNIEKTLVQNNCLTRPNIYLPIDIDLKLANLKDIIKRHQGTFDDEKSKASHHIYPYPS
 SQEDEEWLRPVMRRDKQVLVHWGFYPDSYDTWVHSNDVDAEIEDAPIPEKPWKVHVWILDTDFVNEWMN
 EEDYEVDENRKPVSFRQRISTKNEEPVRSERRDRKASANSRKRKPSPPPPPTATESRKKSGKKGQASL
 YGKRRSQKEEDEQEDLTKDMEDPTVPVNIIEVVLKPNVNPCKDSENTPVKGGTVADLDEQDEEAVTTGGK
 EDEDPSKGDPSRSDPVEDNVTEQTNHIIIPSYASWFDYNCIHVIERRALPEFFNGKNKSKTPEIYLAYR
 NFMIDTYRLNPQEYL TSTACRRNLTGDVCAVMRVHAFLEQWGLVNYQVDPESRPMAMGPPPTPHFNVLAD
 TPSGLVPLHLRSPQVPAQQMLNFPEKNKEKPIDLQNFGLRTDIYSKKTAKSKGASAGREWTEQETLLL
 LEALEMYKDDWNKVSEHVGSRTEQDEILHFLRLPIEDPYLENSDASLGPLAYQPVVPSQSGNPMVMSTVAF
 LASVVDPRVASAAAALAEFVSRVREEVPLELVEAHVKKVQEAARASGKVDPTYGLESSCIAGTGPDEPE
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 TDTCKERESDAGKKKVEHEISEGNVATAAAAALASAATKAKHLAAVEERIKSLVALLVETQMKKLEIKL
 RHFELEETIMDREKEALEQQRQQLLTERQNFHMEQLKYAELLARQMEQQQHQGTPQQAHQHTGGPGMA
 PLGATGHPGMMPHQPPPYPLMHHQMPPHPHPQGPQIPGPGSMMPGQMPMPGRMIPAVAANIHPHTGSGPTP
 PGMPPMPGNILGPRVPLTAPNGMCK

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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:	BC052423 , AAH52423
RefSeq Size:	3532 bp
RefSeq ORF:	3227 bp
Locus ID:	20588
Cytogenetics:	9 F2
Gene Summary:	<p>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. May stimulate the ATPase activity of the catalytic subunit of the complex. 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. [UniProtKB/Swiss-Prot Function]</p>