

Product datasheet for **MC201448**

Smarcal1 (NM_018817) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smarcal1 (NM_018817) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smarcal1
Synonyms:	6030401P21Rik; AI851716; Mharp
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC029078 sequence for NM_018817
 CAGGTCTCAGCAAAGAGGAATGTCTATGTGGTGGTGTGCATTTGTGGTTTATGGTTTATTAGTTGGACCT
 CTCATTCGGTGGTCTCATCTCCCAACTGGGTCAGTCAGCATACCAGGCCTTGCTTTTACCAACTCCCA
 ACTAAAGGGTGACATCCCTGCATGAGCCTATCCTGTAAAAATGTCTTGCCACTTACAGAGGAGCAGAG
 GAAAAAGATTGAAGAGAATCGGCAAAAAGCTTTGGCCCGTCGAGCTGAGAAGTTGTCAGAACAGCCACAG
 AGCACAGCTTCAGGCTCCTCTGCTGCCGGCCCGTCCCAGTCCAAGCAGGGCTCTCTCTGAATCTCCTAG
 CGGAGCCTTCAAAGCCAGTGGGCCATGCCTCCATTTTCAAGCAACAGAATCTCAGTAATTCACCTTCTAC
 TGATCAGAGACCTCACAGCTCCCGCTGTTCTCAGCCAGCCAGCAGAGGAAACGACGGGGCTATGGAAG
 ACCCAAGGAGAGATGTCCACAGCCTGCCAAAAGCCTAACCCAAGTCTCCAGGAGCCTCTAACCAACCAC
 TTTTGGTTATAAATCCAGCGAGGGTCAACCCAGGCAACCTGGGACACAGGAGCTTCTCTTGGACC
 ATTCCCAGGGACCCCGAGTTAGAGGCCAAGGCAGCAAGGCCTTCCACCTTAGGCAGAGCATTCGGAC
 AGCTTTTATGTGTAGGGGAAAAACACCTAGGACAGAAGGGAGACCCCAACATACTGCAAAACCACAC
 CCCAAAACACAGGCTTTCTACGGGAGCGTGCATAAAGACTGGGATCGCTTCCGGGTAAGATCGGCTA
 CAACCAAGAGCTATTGCCGTGTTAAGTCTCTGCCAGCAGACACTATGATTCTTTACAAGACCTGG
 GACTTCAGCATGAGCGACTACAGAGCCTTGATGAAGGCAGTCGAGCGACTCTCCACGGTCTCCCTGAAGC
 CACTGGACGAGGCTGGTGGCAGTGTGGAGGACAGACCAGCCTTCCCTCAGCTCCATCCCTGACCTTTGT
 GACAGGGAAGTGCATGCTCATCTCTCGAGTCCGCTTTCGAGTTGACATCGGCTATTTCGGAGGCGGTGATT
 GGCTGTTTAAACAGATGGAGTCCAGGAGTTACGATATCAAGACCAGGAAGTGGAGTTTTCTTGGGAG
 AGCACAATAAACTAATTGCAAGGTCACGTGAAGTGAAGCAAGTTCAGCTGGACCCACTGCCAAGACAGT
 GACCCTGGCATTGTCATCTCAGCTGGAGAAAACGTCTCCCAAAGTGAAGCAGACGTGCCAGAAGCGGAC
 CTTTCCGGAGTGGATGCCAAGCTTGTGTCTAGCCTCATGCCCTTTCAGAGGGAGGGAGTTAGCTTTGCCA
 TATCAAAAAGAGGCCCGCTGCTACTTGGCGATGACATGGGCTAGGGAAGACCGTCCAAGCCATCTGCAT
 AGCAGCTTTTTACCGAAAGGAATGGCCACTGCTGGTGGTGCCTTCTCTGTGCGCTTACCTAAGGAG
 CAGGCCTTTCTTCGGTGGCTTCCATCTCTTAGCCAGAGAACATCAACGTGGTGGTACCCGGGAAGGGCC
 GCCTAACAGCTGGCTTGGTCAATATTGTGAGCTTTGACCTCCTTTGCAAGTTGGAGAGGCAGCTAAAAAC
 CCCTTTCAAAGTCGTCATTATTGATGAATCACACTTCTCAAGAACATAAAGACTGCCCGCTGCCGAGCA
 GCTGTGCCTATCCTAAAGTTGCCAAGAGGGTGTCTACTGTGACAGCACACCCGCCATGTCGGGCCCCG
 CAGAGCTTACACACAGATCATTGCTGTCAAGCCAACCTTCTCCCTCAGTTTATGCCTTTGGACTCCG
 TACTGTGACGCCAAACGGCTCCCTTGGGGCTGGGACTACTCAGGCTCCTCAACCTGGGCGAGCTGAAG
 CTGCTGTAGAGGAAGCAATCATGCTGCGGCGCCTCAAATCCGACGTGCTCTCCAGCTTCCGGCCAAGC
 AGCGCAAGATGGTGGTGGTCAACCCTGGTCCGATCAGCTCCAGGGCTAAGGCAGCCCTGGATGCAGCAGC
 CAAAGAAATGACCAAGGACAAAACCTAAACAGCAACAGAAAGAAGCTCTCCTTGTCTTCTAACAGGACA
 GCAGAAGCTAAAAATCCCATGTGTGTCGAGTATATCCTGGACCTTCTGGACAGCGGACGAGAGAAGTTTC
 TAGTGTGTTGCACACCATAAGGTGATTCTGGATGCAGTTGCCAAGGAGCTCGAGAGGAAGAAGTTCAACA
 CATCCGGATCGATGGCTCCACTCCCTCAGCAGACCCGGGAGGCTCAGTGCCAGCGGTTCCAGCTGTCCAAA
 GGGCACACAGTGGCACTGTTGTCATCACAGCCGCAACATGGGCTCACCTTCTCCACAGCTGATCTGG
 TCGTGTGTTGCTGAGCTCTTCTGGAACCCAGGGTGTGATCCAGGCCGAGGACCGTGTGCACCGCATTGG
 ACAGACAAACTCTGTGAGCATCCACTACCTGGTGGCAAAGGCACAGCAGATGACTACCTTTGGCCTCTG
 ATCAAGAGAAGATTAAGTTCTGGGGGAAGCTGGGCTTTCTGAGACCAATTTCTCGGAAATGACGGAAG
 CTACAGACTACGTGCACAAGGACCCAAAGCAGAAGACGATCTATGACCTGTTCCAGCAGTCTTTGAAGA
 CGATGGAATGACATGGAATTCCTGGAAGCAGCAGAGTCTTTGAGCTAGGAAGTACTTCAGGAACCTCT
 GGAAACATTTCCAGGATCTGGGAGATCTCTTAGATGAAGACGAAGGCAGTCCGCCAAAAGAAAAGCAGAT
 TTGAATCTTTGATAAATTGGGACAGCTTTTCTCTCCCTTTTACAGGGTCAAGAAAAGAAAAGAAACGAA
 AGAAAAGCAGTCACAAAATCATGGGGCTCATTGAAATAAAGTATTTTCTTTAAAAAAAAAAAAAAAAAAAAA AAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_018817
Insert Size: 2733 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:	<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:	BC029078 , AAH29078
RefSeq Size:	3015 bp
RefSeq ORF:	2733 bp
Locus ID:	54380
UniProt ID:	Q8BJL0
Cytogenetics:	1 36.72 cM
Gene Summary:	ATP-dependent annealing helicase that binds selectively to fork DNA relative to ssDNA or dsDNA and catalyzes the rewinding of the stably unwound DNA. Rewinds single-stranded DNA bubbles that are stably bound by replication protein A (RPA). Acts throughout the genome to reanneal stably unwound DNA, performing the opposite reaction of many enzymes, such as helicases and polymerases, that unwind DNA. May play an important role in DNA damage response by acting at stalled replication forks (By similarity). [UniProtKB/Swiss-Prot Function]