

Product datasheet for **MR210159**

Scmh1 (NM_001159630) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scmh1 (NM_001159630) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scmh1
Synonyms:	AI315320; AI851618; Scml1; Scml3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210159 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGGTTTGCTACAGTGTTTAGCTTGTGAGAGTCTCTGGACCTTCCCTGCTCCATCATGGGGTCA
CTCTAGGTCATTTTACCTGGGACAAATACCTAAAAGAAACATGTTTCAGTCCCAGCGCCTGTCCATTGCTT
CAAGCAGTCTACACACCTCCAAGTAATGAGTTCAAGATCAGCATGAAATTGGAAGCACAGGATCCCAGG
AACACCACATCCACCTGTATTGCCACGGTCTGGATTGACAGGTGCCGACTTCGTCTGCGCCTTGATG
GCAGTGACAACAAGAATGACTTCTGGAGACTGGTTGACTCCTCTGAAATCCAGCCAATTGGAAACTGTGA
GAAGAATGGCGGGATGCTGCAGCCCCCTAGGATTTTCGGCTGAATGCCTCCTCTTGCCCATGTTCCCTT
TTGAAGACTAAATGGAGCAGAGATGGCTCCCATCAAGATTTCCATAAGGAGCCACCACACCTTCCC
ACAACCTTCTTCAAATGGGAATGAAGTTAGAAGCTGTAGACAGAAAGAACCCTCATTTCATTGGCCAGC
CACTATTGGAGAAGTTCGAGGCGCAGAAGTGTAGTACCTTTGATGGGTGGCGAGGCGCATTGACTAC
TGGTGGCGCTTTGACTCCCGGGACATCTTCTGTGGGCTGGTGTCTTTGACTGGAGATAACCTGCAGC
CACCTGGCACAAAGTTGTGATTCAAAGAATCCGTCCCCTTCATCTGATGTGAGCACTGAGAAGCCAG
CATCCACAGCACAAAATGTCTTGGAGCATCAGCCAGGGCAGAGGGGCCGAAACCAGGAAAGAAGCGG
GGCCGAACACCCAAGATCCTTATCCCCATCCCACCTCTACCCCATCCAAGTCAGCTGAACCTTTGAAAT
TTCAAAGAAGAGAGGTCCCAAGCTGGCAGTAAGAGGAAACCTCGGACTTTGCTGAGCCCACCACCCAC
CTCACCAACAACCAGCACCCCTGAACGGACACCAGCACTGTTCTCAAGATGCTGCCACCGTCCCAAGT
TCAGCCATGCAGGCCCCACAGTTTGTATCTACTTGAACAAGAGCGGCAGCAGCGGCCCCACCTGGATA
AGAAGAAGATCCAACAACCTCCCTGACCATTTTGGGCCAGCCGTGCCTCTGTGGTCTGCAGCAGGCTGT
CCAGGCTTGCACTGTGCTTATCACAGAAAACCTGTCTTCAGCTTCCCAAACAGGGCCACGGCGGT
GAAGTCATTTAGCCGTGTTTGACCGGGAACAGCACACTCTGAACCTCCCAGCAGTCAACAGCATACCT
ATGTCCTCCGTTTCTGGAGAAGCTCTGCCACAACCTTGAAGTGACAATCTGTTTGGCAACCAGCCCTT
TACACAGACTCACTTACTCACTGCCACAGAGTATAATCACAAACCAGCAGGTACCTACCAGGTGAA
ACCTTTGTCTTGGGGAATAGCCTGGCCCGTCTTGGAGACACTCAGACCTGATGGATTCTGCCTTGA
AGCCTGCCAACCTTGTGAGCAGTCCCAAAACCTTCGGACTCCTGGCTATCGGCCCTTGCTTCCCTCCTG
TGGCTCCCATTAAGCACTGTCTGCTGTGCGTAGGCTCTGCTCTAAGGGAGTGTTAAAAGGAAAAAAG
GAAAGAAGGGATGTGGAGTCATTTTGGAACTAAATCATTCCCCAGGGTCAGATCGACATCTGGAGAGCC
GAGATCCCCCTCGCTGAGTGGCCGGGACCCCTCCTCATGGACAGTGGAGGATGTGATGCAGTTTGTCCG
GGAAGCCGATCCTCAGCTTGGATCCCATGCTGACCTTCCGAAAACATGAAATCGATGGCAAGGCCCTG
CTCCTGCTGCGCAGTGACATGATGATGAAGTACATGGGCTGAAGCTGGGGCCCGCCCTCAAGCTCTCT
TTCACATTGACCGGCTGAAGCAGGTTTTTGGAAAGGGGAGACCATCCTCTGGTCCAGAGAGGGCCTCTC
CAGAGAAGTGTGGCCTATTTCAGAAGACTGCCTAGGGCACTTCTTCTGGAATGGACAAAGTATTT
GGCTCACTGAGCAAAAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210159 protein sequence
 Red=Cloning site Green=Tags(s)

MLVCYSVLACESLWDLPCSIMGSPLGHFTWDKYLKETCSVPAPVHCFKQSYTPPSNEFKISMKLEAQDPR
 NTTSTCIATVVGLTGARLRLRLDGSNDKDFWRLVDSSEIQPIGNCEKNGMQLPPLGFRLNASSWPMFL
 LKTLNGAEMAPIKIFHKEPPSPSHNFFKMGMKLEAVDRKNPHFICPATIGEVARGAEVLVTFDGRGAFDY
 WCRFDSRDIFPVGWCSLTGDNLQPPGTVVIVIPKNPSPSSDVSTEKPSIHSTKTVLEHQPGQRGRKPKGKR
 GRTPKILIPHTSTPSKSAEPLKFKRGPKPGSKRKPRTLSPPTSTPTSTPEPDTSTVPQDAATVPS
 SAMQAPTVCIIYLNKSGSTGPHLDKKKIQQLPDHFGPARASVVLQAVQACIDCAYHQKTVFSFLKQGHGG
 EVISAVFDREQHTLNLPAVNSITYVLRFLLEKLNLRSDNLFNGQPFTQTHLSLTATEYNHNHNDRYLPE
 TFLVGNLSARSLETHSDLMSALKPANLVSTSQLRTPGYRPLLSCGLPLSTVSAVRRKCSKGVKGGK
 ERRDVESFWKLNHSPGSDRHLESRDPPRLSGRDPSSWTVEDVMQFVREADPQLGSHADLFRKHEIDGKAL
 LLLRSDMMMKYMLKLGPAKLSFHIDRLKQVFWKRETIWSREGLSREVPISDIALGHFFSGMDKVF
 GSKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001159630

ORF Size: 2121 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_001159630.1](#), [NP_001153102.1](#)

RefSeq Size: 2889 bp

RefSeq ORF: 2121 bp

Locus ID: 29871

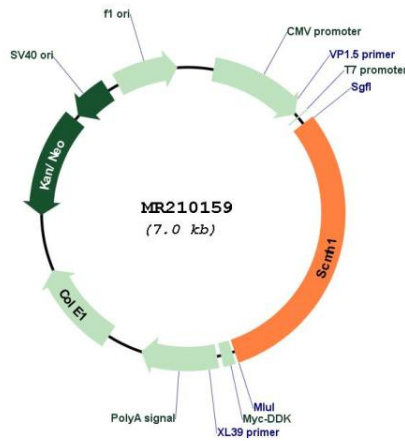
UniProt ID: [Q8K214](#)

Cytogenetics: 4 56.52 cM

MW: 78.7 kDa

Gene Summary: Associates with Polycomb group (PcG) multiprotein complexes; the complex class is required to maintain the transcriptionally repressive state of some genes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210159