

Product datasheet for MR219064

Scml4 (NM_172938) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scml4 (NM_172938) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scml4
Synonyms:	9330161D17; mFLJ00197
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219064 representing NM_172938 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGACACAGAGGGTGCCAGGGAGGAAACGTGGCCGGCCTCCACTTCACTCCACACGGGTGCAGATGG
CCGTCCATAACCTCTATTCTGCTTCTGCTGCTCTGTGCCAGCAGTGACAATCCCAAAGAAGAGAGGACG
GAAGCCCAGGTACAAGATCAAGTCTCCAGTGTCTCATGACTCCCTTGGCCCTGTACCTCCACGGAGTACC
CCGGAACCCGATCTCAGCTCCATCCCTCAGGATGCAGCCACCATTCCCAGCCTGGTGGTCCCAGAGGCTC
TCACAGTATGCCCTACATAAACAAACAGGCCGATGTGGGGCCGTACCTGGAGAGGAGGAAGCTACAGCA
GCTTCCGGAGCGCCTGGGACCTGAGCGGCCGCCACCGTCTGCAGCAGGCGGTGCAAGCATGCATCGAT
TGTGCGCACCCAGCCTCGGCTGGTCTTCCCTCGTCAAGCAGGGATACCGAGGCGAGCTGGTGTCTAGTCT
CTGCTTCCCTTCGATGAAAGCAGCACTTGGAGGTCTGCCTGTGGTGAACAGTGTGGGCTATGTCCTCCG
TTTCTGACCAAACCTGTGCCGACGCTCCTGTGTGACAACCTCTTCCAGCCACCTGCCTTTCCCGGGAGC
ATCGGCGCCTCTGACAAGGCGCAGGAGAGAGAGGATGGGAGGACTGAGTCAGCCAAGGTAGCCACGGCTG
AAGAGTGTCTGGCAAACGCAGTGGGCATGAACCGCTACGCCATGGACTTTAGCCACAGGGGCTCCGTAAC
CCACTCTTCTCACTGTACAAGAGGCTGACCTGCGGAGACAGCCACCTTGCCGGAGGCCCGCCACCACC
ACCAGTGGTTCCCGCACCAACCTGTTCCCTCTGGAGGTTGTCGTCACTGGACTGAGGCTGCCAGCTC
CCAGCCCCAAGAGGAATGGAACAGCCATCGAAGGAAACAGATGTGCCCGAGCCCTCTCCGGAGGTGCA
GGATACAGGCGACCAAGCAGCAGAAACCTTCTACCTGGACCGTGGAGGACGTGGTCCGGTTTGTGAAA
GATGCTGATCCCGAGGCTCTGGGACCTCATGTGGAGCTCTCAGAAAGCAGGATTGATGGCAATGCCT
TGTTGTTGCTGAGGAGCGACATGATCATGAAGTACCTGGGACTGAAGCTGGGACCCGCACTGAAACTCTG
CTATCACATTGACAAGCTAAAGCAAGCTAAATTC

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR219064 representing NM_172938
Red=Cloning site Green=Tags(s)

MQTQRVPGRKRGRPLHSTRVQMAVHNLYSASAASVPAVTIPKKRGRKPRYKIKSPVLMTPLALSPRST
 PEPDLSSIPQDAATIPSLVVPEALTVCLYINKQADVGPYLERRKLQQLPERLGPATVLLQAVQACID
 CAHQPRLVFSLVKQGYRGELVSVSASFDGKQHLRSLPVVNSVGYVLRFLTKLCRSLLCDNLFSHLPFPGS
 IGASDKAQEREDGRTESAKVATAEECLANAVGMNRYAMDFSHRGSVTHSSSLYKRLTCGDShLAGGPATT
 TSGSRTNPVPSGGSSPGLRLPASSPKRNGTAIEGNRCAPSPSPEVQDTRRPSSRNPPSTWTVEDVVRFBK
 DADPEALGPHVELFRKHEIDGNALLLLRSDMIMKYLGLKLGPAKLCYHIDKCLKQAKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9085_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_172938

ORF Size: 1224 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_172938.3](#), [NP_766526.3](#)

RefSeq Size: 4745 bp

RefSeq ORF: 1227 bp

Locus ID: 268297

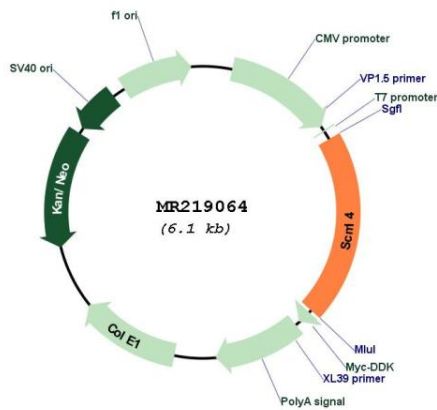
UniProt ID: [Q80VG1](#)

Cytogenetics: 10 B2

MW: 44.4 kDa

Gene Summary: Putative Polycomb group (PcG) protein. PcG proteins act by forming multiprotein complexes, which are required to maintain the transcriptionally repressive state of homeotic genes throughout development (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219064