

Product datasheet for **MR221333**

Scml2 (NM_133194) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Scml2 (NM_133194) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Scml2
Synonyms:	4932420G07Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR221333 representing NM_133194
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCAAACAGCGAATGAAGATCATTTTGACTGGGACAAGTACTTGAAGAGACTGGATCGATAAGTG
 CTCTTCTGAATATTTTCAGACAGTCTAAGACTCCACCACTAATGAATCAAATTTGGTATGAAATTTGGA
 AGCCCGTGACCCTCGCAATATTGATTCCGGTGTGTGTTGCTTCGGTCATTGGAATTAAGGAGCCAGGTTA
 CGTCTACGACTGGATGGTAGTACAATAAGAATGATTTTTGGAGACTTGTGGATTCATCAGACATAACAAC
 CTGTTGGGACGTGTGAACAAGGAGGAGATTTACTTCAGCCTCCACTGGGGTACACACTGAATACTTCATC
 ATGGCCCATGTTCTTACTACGTGTAATACTGGATCTGAACTGGCACCTGCAGTGTCTTTAAGGAGGAA
 CCACCAGTCCACTCCAAAATAATTTATAGTTGGGATGAAGATTGAAGCTGTCGATAGAAAAATCCAT
 TTATGATCTGCTGCCACAATTGGAGCTGTCTGTGGAGATCAACTTCATATCCTTTTGGATGGATGGAG
 TGGAGCATTTGATTATTGGTGTGACTATGACTCCCGAGACATCTCCAGTTGGATGGTGTGCGCTCACA
 GGAGATGTATTACAGCCACCAGGAAAAATTTGTTGAAAAAGACCAAGGCGCAAAAGAAGAACCCAGACTAT
 GGAGACTTAGAAGTCTCTTTTGGGAAATGAAGAAGAGGCCCCAGAAGCTGCAGAAGAACCTGGGACCAG
 TGTACTTACTTTTGGAGATGAAAACAGAAGTGTGAAAGATTGCCGAGGAGAAGCTGCAGAAGAACCTGGG
 ACCAGTGCATTTACTTTTGGAGATGAAAACAGAAGTGTGAAAGATTGCCAAGGAGGTTGGAAAAACCCA
 AGGGCAGAGGATTCATCAAACCTGGAAAAGATGAAACCAGACCTGGGAAACATGACCAAGGAGCCCCAGC
 TGGGAAAAACCCAGGGGAGAGGATTCACCCAACCTTTGGAAGATGAAGCCAGACCAGGAAGAGATGTC
 CAAGTAGCCCCAGCTGAGAAAAACGCAAGGGCAAAACAGTCAACACCTTTGGACTGAGGATCCAGACTT
 TTTTGCAGATCAAGGAGATGCCCCAGCTGAGAAAAACGCAAGGGCAAAACAGTCAACACCTTTGGACTT
 TGAGGATCCCAGACTTTTTCAGATCAAGGAGATGCCCCAGCTGAGAAAAACGCAAGGGCAAAACAGTCA
 ACCACACCTTGGACTGAGGATCCCAGACTTTTTCAGATCAAGGAGCAGCCCCAGCTGAGAAAAACGCA
 AGGGCAAAACAGTCAACACCTTGGACTGAGGATCCCAGACTTTTTCAGATCAAGGAGATGCCCCAGC
 TGAGAAAAACGCAAGGGCAAAACAGTCAACACCTTGGACTGAGGATCCCAGACTTTTTCAGATCAA
 GGAGATGCCCCAGCTGAGAAAAACGCAAGGGCAAAACAGTCAACACCTTGGACTGAGGATCCCAGAC
 TTTTTCAGATCAAGGAGCAGCCCCAGCTGAGAAAAACGCAAGGGCAAAACAGTCAACACCTTGGAC
 TGAGGATCCCAGACTTTTTCAGATCAAGGAGATGCCCCAGCTGAGAAAAACGCAAGGGCAAAACAGTCA
 ACCACACCTTGGACTGAGGATCCCAGACTTTTTCAGATCAAGGAGATGCCCCAGCTGAAAAAAACCCA
 AGGGCAAAAGAGTCAACAAATCTCGGAAAGACCAAGCCAGTTTTTAGCTGATGAAGAAGCAATGCCAGC
 TCTTAGTGTGAGCAGTACAGAGAGAACCACCTTCTTCTCTGAACAACCAAAGTCTTCTACCTCTGGG
 AAAACAAATCCACCTCTAGAGGGGCTCAAACCTCAAGGAAGTCTCCACGGAAAAACAAGTGTGTGCAAC
 CAGTACCAAAGACCAGCAAGAAAGCAGGAAAACTAAGTCTACTGGAAATCTTTCATCCCCTAAGAAGGG
 CATTACTATTAATTTGCTCTACCAAAGAAAAAGGGTGGAAAGTCTGGAAAAAGGAAAAAGTATTCCA
 GTTATTTCTTCTACATCTCAGCTTCTTAAAGTACTGATGAAAAGTCTTCTCATCTAATAAGACTTCTG
 CGGGCCATCTAAATAGTGTGTCTACAGTTTGTGTATATAAATAACATGGAGATTGTGGCCCTT
 CCTGGATCCACAGAAGGTTCCAGCAGTACCTAACCCTTCGGTCCAGCCCTGTGAATGTCATTCTCCAG
 CGGACTGTGCAGGCTGTGTCAATTGTGCCTTTCAGGCCAAGGATGTGTTTCTATTTCTTAAACAGATA
 ATAGAGGAGGAGAAATGATAACTGCCTTCTTGTGGGAAAGTTCATACTGTTCCAGCTCCCTCCAGTGAA
 TAGTGCATCATTTGCACTTCGCTTTCTTGAATTTCTGCAAAGCCTGCAGTGTGATACTTTTGGAGT
 AGCCAGCCTTTCAGAGCTGAGGCTCAAGTTCCTACCCAGATACAGGCACTGATCAAAGCAAACCAGAAA
 ATGGGGAACCAAAGGAAAAAGAGAAGCCTCAAACGATTGTCTCTGCATCCTCATGTTCTGCTCCTGTCTC
 ATCTAAGGTTCCAGAAAGTCTGGGCAAGCGTCTAAAGGAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221333 representing NM_133194
 Red=Cloning site Green=Tags(s)

MGQTANEDHFDWDKYLKETGSISAPSEYFRQSKTPPTNEFKIGMKLEARDPRNIDSVCVASVIGITGARL
 RLRLDGSNDKNDWFRLVDSSDIQPVGTCEQGGDLLQPPLGYTLNTSSWPMFLLRVLTGSELAPAVFFKEE
 PPRPLQNNFIVGMKIEAVDRKNPFMICPATIGAVCGDQLHITFDGWSGAFDYWCDYDSRDIFPVGWCRLT
 GDVLQPPGKIVEKRPRRKRRLWRLRTALLGNEEEAPEAAEPEGTSVLTFGDNRTLKDCRGEAAEPEG
 TSAFTFGDENRTLKDCQGGWKKPKGRGFIKPGKDETRPGKHQDQAPAGKKPRGRGFTQPLEDEARPRDQV
 QVAPAEEKRKGKTVTTPWTEDPRLFADQGDAPAEKKRKGKTVTTPWTEDPRLFADQGDAPAEKKRKGKTV
 TTPWTEDPRLFADQGAAPAEKKRKGKTVTTPWTEDPRLFADQGDAPAEKKRKGKTVTTPWTEDPRLFADQ
 GDAPAEKKRKGKTVTTPWTEDPRLFADQGAAPAEKKRKGKTVTTPWTEDPRLFADQGDAPAEKKRKGKTV
 TTPWTEDPRLFADQGDAPAEKKPKGRVTKSRKDQAQFLADEEAMPALSVSSTERTPPSSSEQPKSSTSG
 KTKSTSRGAQTSRKSPRKTSVVQVPVKTSKKAGKSKSTGNTSSPKKGITIKIVLPKKGKSGKKEKSIP
 VISSTSSASLSTLMKSSSNKTSAGPSKIVMSTVCVYINKHGDCGPFLLDPQKVQQLPNHFGPVPNVILQ
 RTVQACVNCFAQAKDVFLFLKTDNRGGEMITAFFDGKVHTVQLPPVNSASFALRFLFNFCQSLQCDNFLS
 SQPFRREAQVPTPDTGTDQSKPENGEPEKERSLKRLLSLHPHSAPVSSKVPKRSQASKGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1586_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

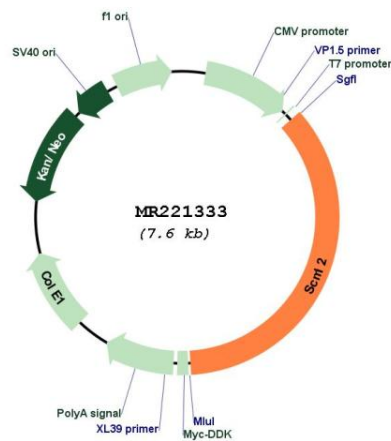


* The last codon before the Stop codon of the ORF

ACCN: NM_133194

ORF Size:	2703 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:	<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:	NM_133194.3 , NP_573457.3
RefSeq Size:	4847 bp
RefSeq ORF:	2706 bp
Locus ID:	107815
Cytogenetics:	X F4
MW:	99.6 kDa

Product images:



Circular map for MR221333