

Product datasheet for **RR204614**

Sema4c (NM_001106902) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema4c (NM_001106902) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema4c
Synonyms:	RGD1562837
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR204614 representing NM_001106902
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCCACACTGGGCTGTCTGGCTGCTGGCAGCAGGGCTGTGGGGCTGGGCATTGGGGCTGAGATGT
 GGTGGAACCTTGGCCTCGGAAGACTGTATCTTCTGGGGAGCTGGTCACAGTAGTGAGGCGTTCTCCCA
 GACAGGCATCCAGGACTTCTGACCCTGACCCTGACAGACCGTTCTGGCCTATTATATGTGGGGCCCGG
 GAGGCGCTGTTTGCCTTCAGCGTAGAGGCTCTGGAGCTTCAAGGAGTGATCTCCTGGGAGGCTCCAGCTG
 AGAAGAAAATTGAGTGTACCCAGAAAGGAAGAGCAACCAGACCGAGTGCTTCAACTTACCGCTTCT
 TCAGCCATAACAACGCCTCCCATCTGTACGTTTGTGGTACCTATGCCTTCCAGCCCAAGTGACCTACATC
 AACATGCTCACGTTACCTTGGATCGTGCAGAATTTGAGGACGGGAAGGGTAAATGCCCTTACGACCCAG
 CTAAGGGCCACACTGGACTCCTTGTGGATGGTGAAGTGTACTCGGCTACACTCAATAACTTCTGGGCAC
 AGAGCCGTTATCCTTCGAAACATGGGGCCCCACCACCCCATCAAGACGGAGTACCTGGCTTTTTGGTTG
 AATGAACCTCACTTTGTAGGCTCTGCCTTTGTCCCTGAGAGTGTGGGAAGCTTACGCGGAGATGATGACA
 AGATCTACTTCTTCTCAGTGAGCGGGCAGTGGAGTATGACTGCTACTCCGAGCAGGTGGTGGCTCGAGT
 GGCACGAGTCTGTAAGGGTGACATGGGGGGAGCACGGACCCTGCAGAAGAAGTGGACAACGTTCTGAAA
 GCTCGGTTGGTGTGCTCAGCCCCGATTGGAAGGTCTACTTCAACCAGCTGCGGGCAGTGACACACCTGC
 TGGGCGCTCCTGGCACAAACACCACCTTCTTCGCGTTTTTCAAGCTCGATGGGGTGATATGGACCTGTC
 AGCAGTCTGCGAGTACCAGTTGGAACATATCCAGCAGGTGTTGAGGGTCCCTTCAAGGAGTACAGCGAG
 CAAGCCAGAAGTGGGCCCGCTATACTGACCCAGTACCCACCCCGGCCGTTCTGTCATCAACAAC
 GGCACCGAGACAATGGCTACACCAGTTCTCTGGAGCTGCCGACAAACCCCTTAACTTCAAGAAAGCA
 CCCGCTGATGGAGGAACAGGTGAAGCCTCGGTTGGGCCGCCCTACTTGTAAAGAAGAACACGAACTTC
 ACACATGTGGTGGCCGACAGGATCCTAGGACTTGTATGGCGCCACCTATACAGTGTGTTTATTGGTACAG
 GAGATGGTTGGTGTGCTGAAAGCTGTAAGCCTGGGGCCCTGGATCCACATGGTGGAGGAGCTGCAGGTGTT
 TGACCAGGAGCCAGTGGAAAGTCTGGTGTGCTCAGAGCAAGAAGGTGCTGTTTGTGGCTCCCGTTCT
 CAACTGGTTCAGCTGTCGCTGGCGGACTGCACGAAGTATCGTCTTGTGTAGACTGTGCTTGGCAGGG
 ACCCTACTGTGCTGGAATGTCAACACCAGCCGCTGTGTGGCCACCGGTGGTCAATCAGGGTCCCTTCT
 GGTCCAACACGTGGCAAATTTGGACCCTCAAAGATGTGTATCCAGTATGCCATTAAGAAAGCCAGACCT
 GTTGTCCAAAAATATCACAGTTGTAGCAGGCACAGACCTGGTCTACCCTGCCACCTCTCCTCCAATT
 TGGCTCATGCCCTCTGGACCTTACAGAGGCCGGACCTGCCTGCAGAAACCTGGCTCCTCCTTTATGA
 CACGGGACTCCAGGCGCTGGTGGTGTATGGCCGCCAGTCCCGCCACTCTGGGCCCTATCATTGCTATTCA
 GAGGAGCAGGGGACAAAACCTGGCTGCAGAAAGCTACCTTGTCTGTCGTTGGCTGGCTCATCGGTGACCC
 TGGAGGCACGGGCTCCCTTGGAAAACCTGGGGCTTGTGTGGTAGCCGTGGTGGCCCTGGGGGCTGTGTG
 CCTGGTGTGCTGCTGTTGGTCTCTCGCTCCGCCGGCGCTGCGAGAAGAGCTGGAAAAGGGTTCCAAG
 GCAGCCGAGAGGACACTGGTGTACCCCTGGAAGTCCCAAGGAGCCAGCCAGTCCCCCTTCCGTCCTG
 GCCAGAAACCGATGAGAACTTTGGATCCTGTTGGTTACTACTATTAGATGGCTCCTCAAGATTGT
 GCCTGGTCAGCCCGGTGCCAGCCGGGGTGGGCCCTTCCCACCTCCTGGCATCCCCGGCCAGCCC
 TTGCCTTCTCAAACCTCGGCTTACCTAGGAGGTGGTGGAACTCAAATGCCAACGTTATGTGCGCTTAC
 AGTTGGGTGGAGAGGACCGAGAAGGATCTGGGCACCCACTGCCTGAGATTGCTGATGAATTACGACGGAA
 ACTGCAGCAGCGCCAGCCGCTGCCTGACTCCAACCCAGAGGAGTCTTCAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204614 representing NM_001106902
Red=Cloning site Green=Tags(s)

MAPHWAVWLLAAGLWGLGIGAEMWNLAPRKTVSSGELVTVRRFSQTGIQDFLTLTLDTRSGLLYVGAR
EALFAFSVEALELQGVISWEAPAEKKIECTQKGSNQTECFNFI RFLQPNASHLYVCGTYAFQPKCTYI
NMLTFTLDRAEFEDGKGCYPYDPAKGHTGLLDGELYSATLNNFLGTEPVILRNMGPHHPKTEYLAFWL
NEPHFVGSFAVPESVGSFTGDDDKIYFFSERAVEYDCYSEQVVARVARVCKGDMGGARTLQKKWTTFLK
ARLVCSAPDWKVYFNQLRAVHTLLGASWHNTTFFAVFQARWGDMDLSAVCEYQLEHIQQVFEGPFKEYSE
QAQKWARYTDPVPTPRPGSCINNWHRDNGYTSSLELPDNTLNF IKKHPLMEEQVKPRLGRPLL VKKNTNF
THVVADRILGLDGATYTVLFIGTGDGWLKAVSLGPWIHMVEELQVFDQEPVESL VLSQSKKVL FAGSRS
QLVQLSLADCTKYRFCVDCVLARDPYCAWNVNTRCVATGGHSGSLLVQHVANLDP SKMCIQYAIKKARP
VVPKNITVVAGTDLVLPCHLSSNLAAHALWTFRGRDLPAEQPGSFLYDTGLQALVMAAQSRHSGPYHCYS
EEQGTKLAAESYLVSVVAGSSVTLEARAPLENLGLVWLAVVALGAVCLVLLLLVLSLRRRLREELEKGSK
AAERTLVYPLELPKEPASPFRPGPETDEKLWDPVGYYS DGS LKIVPGHARCQPGGGPPSPPPGIPGQP
LPSPTRLHLGGGRNSNANGYVRLQLGGEDREGSGHPLPEIADELRRKLQQRQPLPDSNPEESSV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

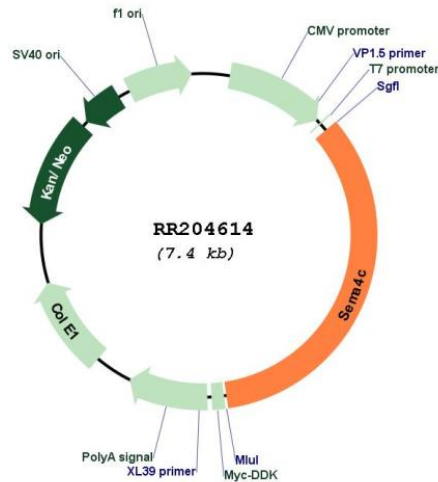
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001106902

ORF Size: 2502 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_001106902.1](#), [NP_001100372.1](#)

RefSeq Size: 4189 bp

RefSeq ORF: 2505 bp

Locus ID: 301346

Cytogenetics: 9q21

MW: 92.5 kDa