

Product datasheet for **MR226572**

Sema4c (NM_001126047) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema4c (NM_001126047) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema4c
Synonyms:	AI426163; M-Sema F; Se; Sem; Sema; Semacl1; Semaf; Semaj; sema I
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226572 representing NM_001126047
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCCACACTGGGCTGTCTGGCTGCTGGCAGCAGGGCTGTGGGGCCTGGGCATCGGGGCTGAGATGT
 GGTGGAACCTTGTGCCCCGGAAGACAGTATCTTCTGGGGAGCTGGTCACAGTAGTGAGGCGTTCTCCCA
 GACAGGCATCCAGGACTTCTGACACTGACCCTGACAGAACATTCTGGCCTTTTATATGTGGGGGCCGA
 GAGGCGCTGTTTGCCTTCAGTGTAGAGGCTCTGGAGCTGCAAGGAGCGATCTCTGGGAGGCTCCAGCTG
 AGAAGAAAATTGAATGTACCCAGAAAGGAAGAGCAACCAGACCGAATGCTTCAACTTACCGCTTCT
 TCAGCCATACAATTCTCCCATCTGTATGTCTGCGGCACCTATGCCTTCCAGCCCAAGTGCACCTACATC
 AACATGCTCACGTTACCTTGGACCGTGCAGAATTTGAGGATGGGAAGGGTAAATGCCCATATGACCCAG
 CTAAGGGTCACACCGACTCCTTGTGGACGGTGTACTCAGCCACACTCAATAACTTCTGGGCAC
 AGAGCCGGTTATCCTTCGATACATGGGGACCCACACTCCATCAAGACAGAGTACCTGGCTTTTTGGCTG
 AATGAACCCCACTTTGTAGGCTCTGCCTTTGTCCCTGAGAGTGTGGGAAGCTTACGCGGAGACGATGACA
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 CAAGCCAGAGAAGTGGGCCGCTATACTGACCCGGTACCCAGCCCTCGGCCTGGTTCGTGTATCAACA
 ACTGGCCAGAGACAATGGCTACACCAGTCCCTGGAACCTGCCGACAAACACCCTCAACTTCAAGAAGCA
 CCCCTGATGGAGGACCAGGTGAAGCCTCGGTTGGGCCGCCCCCTACTTGTGAAGAAGAACAATACTTC
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 GAGATGGCTGGTGTGTAAGGCTGTGAGCCTGGGGCCTGGATCCACATGGTGGAGGAACTGCAGGTGTT
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 CAGCTGGTTCAGCTGTCTTGGCCGACTGCACAAAGTACCGTTTCTGTGTAGACTGTGCTTGGCCAGGG
 ACCCTTACTGTGCTGGAATGTCAACACCAGCCGCTGTGTGGCCACCACCAGTGGTGCCTCGGGTCTCT
 TCTGGTCCAACATGTGGCGAACTTGACACTTCAAAGATGTGTAACCAGTATGGCATTAAAAAGTCAGA
 TCTATTCCAAGAACATACCGTTGTGTCAGGCACAGACCTGGTCTACCCTGCCACCTCTCGTCCAATT
 TGGCCATGCCCACTGGACCTTCGGAAGCCAGGACCTGCCTGCAGAACAACCTGGCTCCTTCTTTATGA
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 GAGGAGCAGGGGACAAGACTGGCTGCAGAAAGCTACCTTGTGTGCTGCTGGCCGGCTCGTCCGTGACAC
 TGGAGGCACGGGCTCCCTTGGAAAACCTGGGGCTCGTGTGGCTCGCTGTGGTGGCCCTGGGGGCTGTGTG
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 GCATCTGAGAGGACACTGGTGTACCCCTTGGAACTGCCAAGGAGCCTGCCAGTCCCCCTTCCGTCCTG
 GCCCGAAACTGATGAGAACTTTGGATCCTGTGGGTAATACTATTTCGGATGGCTCTCAAGATTGT
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 ACTACAACAGCGCCAGCCGCTGCCTGACTCCAACCCAGAGGAGTCTTCAGTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226572 representing NM_001126047
Red=Cloning site Green=Tags(s)

MAPHWAVWLLAAGLWGLGIGAEMWNLVPRKTVSSGELVTVRRFSQTGIQDFLTLTEHSGLLYVGAR
EALFAFSVEALELQGAIWEAPAEKKIECTQKGSNQTECFNFI RFLQPYNSSHL YVCGTYAFQPKCTYI
NMLTFTLDRAEFEDGKGCPCYDPAKGHTGLLDGELYSATLNNFLGTPEVILRYMGTHHSIKTEYLAFWL
NEPHFVGSFAFVPEVSVGSFTGDDDKIYFFSERAVEYDCYSEQVVARVARVCKGDMGGARTLQKKWTF
ARLVCSAPDWKVYFNQLKAVHTLRGASWHNTTFFGVFQARWGDMDLSAVCEYQLEIQQVFEGPYKEYSE
QAQKWARYTDPVPSRPGSCINNWHRDNGYTSSLELPDNTLNF IKKHPLMEDQVKPRLGRPLL VKKNTNF
THVADRVPGLDGATYTVLFIGTGDGWLKAVSLGPWIHMVEELQVFDQEPVESL VLSQSKKVL FAGSRS
QLVQLSLADCTKYRFCVDCVLARDPYCAWNVNTRCVATTSGRSGSFLVQHVANLDTSKMCNQYGIKKVR
SIPKNITVVSGTDLVLPCHLSSNLAHAHWTFGSQDLPAEQPGSFLYDTGLQALVMAAQRHSGPYRCYS
EEQGTRLAAESYLVAVVAGSSVTLEARAPLENLGLVWLAVVALGAVCLVLLLLVLSLRRRLREELEKGA
ASERTLVYPLELPKEPAPPPFRPGPETDEKLWDPVGYYS DGS LKIVPGHARCQPGGGPPSPPPGIPGQP
LPSPTRLHLGGGRNSNANGYVRLQLGGEDRGGSGHPLPELADELRRKLQQRQPLPDSNPEESSV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_g05.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001126047

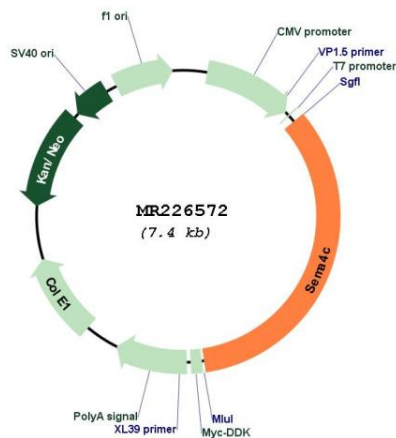
ORF Size: 2502 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_001126047.3, NP_001119519.1</u>
RefSeq Size:	3805 bp
RefSeq ORF:	2505 bp
Locus ID:	20353
UniProt ID:	<u>Q64151</u>
Cytogenetics:	1 B
MW:	93 kDa
Gene Summary:	This gene encodes a member of the semaphorin family of proteins that have diverse functions in neuronal development, heart morphogenesis, vascular growth, tumor progression and immune cell regulation. Lack of the encoded protein in some mice causes exencephaly resulting in neonatal lethality. Mice that bypass exencephaly show no obvious behavioral defects but display distinct pigmentation defects. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2015]

Product images:



Circular map for MR226572