

Product datasheet for **MC221937**

Sema4c (NM_001126047) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema4c (NM_001126047) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC221937 representing NM_001126047
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCCCACACTGGGCTGTCTGGCTGCTGGCAGCAGGGCTGTGGGGCTGGGCATCGGGGCTGAGATGT
 GGTGGAACCTTGTGCCCCGGAAGACAGTATCTTCTGGGGAGCTGGTCACAGTAGTGAGGCGTTCTCCCA
 GACAGGCATCCAGGACTTCTGACACTGACCCTGACAGAACATTCTGGCCTTTTATATGTGGGGGCCGA
 GAGGCGCTGTTTGCCTTCAGTGTAGAGGCTCTGGAGCTGCAAGGAGCGATCTCTGGGAGGCTCCAGCTG
 AGAAGAAAATTGAATGTACCCAGAAAGGAAGAGCAACCAGACCGAATGCTTCAACTTACCGCTTCT
 TCAGCCATACAATTCTCCCATCTGTATGTCTGCGGCACCTATGCCTTCCAGCCCAAGTGACCTACATC
 AACATGCTCACGTTACCTTGGACCGTGCAGAATTTGAGGATGGGAAGGGTAAATGCCCATATGACCCAG
 CTAAGGGTCACACCGACTCCTTGTGGACGGTGTAGCTGTACTCAGCCACACTCAATAACTTCTGGGCAC
 AGAGCCGGTTATCCTTCGATACATGGGGACCCACACTCCATCAAGACAGAGTACCTGGCTTTTTGGCTG
 AATGAACCCCACTTTGTAGGCTCTGCCTTTGTCCCTGAGAGTGTGGGAAGCTTACGCGGAGACGATGACA
 AGATCTACTTCTTCTCAGTGAGCGGGCAGTGGAGTATGACTGCTATTCCGAGCAGGTGGTGGCTCGTGT
 GGCGAGAGTCTGTAAAGGTGACATGGGGGGAGCACGGACGCTGCAGAAGAAATGGACGACGTTCTGAAG
 GCTCGGTTGGTGTCTCAGCCCCGACTGGAAGGTCTACTTCAACCAGCTGAAGGCGGTGCACACCTGC
 GGGGCGCTCTTGGCACAACACCACCTTCTCGGGGTTTTTCAAGCGGATGGGGCGATATGGACCTGTC
 TGCAGTTTGTGAGTACCAGTTGGAACAGATCCAGCAAGTGTGGAGGTCCTACAAGGAGTACAGTGAG
 CAAGCCAGAGAAGTGGGCCCGCTATACTGACCCGGTACCCAGCCCTCGGCCTGGTTCGTGTATCAACA
 AAGCCAGAGACAATGGCTACACCAGTCCCTGGAACCTGCCGACAAACACCCTCAACTTCAAGAAGCA
 CCCCTGATGGAGGACCAGGTGAAGCCTCGGTTGGGCCGCCCCCTACTTGTGAAGAAGAACAATACTTC
 ACACACGTGGTGGCCGACAGGGTCCCAGGGCTTGATGGTGCCACCTATACAGTGTGTTTATTGGTACAG
 GAGATGGCTGGTGTGAAGGCTGTGAGCCTGGGGCCCTGGATCCACATGGTGGAGGAACTGCAGGTGTT
 TGACCAGGAGCCAGTGGAAAGTCTGGTGTCTCAGAGCAAGAAGTGTCTTTGCTGGCTCCCGCTCT
 CAGCTGGTTCAGCTGTCTTGGCCGACTGCACAAAGTACCGTTTCTGTGTAGACTGTGCTTGGCCAGGG
 ACCCTTACTGTGCTGGAATGTCAACACCAGCCGCTGTGTGGCCACCACCAGTGGTGCCTCGGGTCTCT
 TCTGGTCCAACATGTGGCGAATTTGGACACTTCAAAGATGTGTAACCAGTATGGCATTAAAAAGTCAGA
 TCTATTCCAAGAACATACCGTTGTGTGACGGCAGACCTGGTCTACCCTGCCACCTCTCGTCCAATT
 TGGCCATGCCCACTGGACCTTCGGAAGCCAGGACCTGCCTGCAGAACAACCTGGCTCCTTCTTTATGA
 CACGGGACTCCAGGCGCTGGTGGTGTATGGCCGCACAGTCCCGTCACTCTGGACCCATCGTTGCTATTCA
 GAGGAGCAGGGGACAAGACTGGCTGCAGAAAGCTACCTTGTGTGCTGCTGGCCGGCTCGTCCGTGACAC
 TGGAGGCACGGGCTCCCTTGGAAAACCTGGGGCTCGTGTGGCTCGCTGTGGTGGCCCTGGGGGCTGTGTG
 CCTGGTGTGCTGCTGCTGGTCTATCGCTCCGCCGGCGACTTCGAGAAGAGCTAGAAAAGGGTGCCAAG
 GCATCTGAGAGGACACTGGTGTACCCCTTGGAACTGCCAAGGAGCCTGCCAGTCCCCCTTCCGTCTGT
 GCCCGAAACTGATGAGAACTTTGGATCCTGTGGGTAATACTATTTCGGATGGCTCTCAAGATTGT
 GCCTGGTCACGCCGGTGCAGCCTGGGGTGGGCCCTTCCCACCTCCTGGCATACTTGGCCAGCCT
 CTGCCTTCTCAAACCTCGGCTCCACCTAGGAGGTGGTGGAACTCAAATGCCAATGGTTATGTGCGTTTAC
 AGTTGGGCGGAGAGGACCAGGAGGATCTGGGCACCCACTGCCTGAGCTCGCGGATGAATTACGACGGAA
 ACTACAACAGCGCCAGCCGCTGCCTGACTCCAACCCAGAGGAGTCTTCAGTAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001126047
Insert Size: 2505 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](#)

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_001126047.3](#), [NP_001119519.1](#)

RefSeq Size: 3808 bp

RefSeq ORF: 2505 bp

Locus ID: 20353

UniProt ID: [Q64151](#)

Cytogenetics: 1 B

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]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.