

Product datasheet for **MC221485**

Sema4f (NM_011350) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema4f (NM_011350) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sema4f
Synonyms:	Sema W
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221485 representing NM_011350
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGCCAGGGCCGAGCGGCCCGCCGGGCCCGCCGGCCCTCCGGTCTCTCTTCCCGCCGCGT
 CGTCGCTGCTGCTGCTGCTGGCGATGCTGAGCGCCCGGTGTGCGGCCGCGTCCCCCGCTCGGTGCC
 CAGAACCTCGCTGCCATCTCCGAGGCTGACTCTATCTCACCCGGTTTGCGGCCCTCATACTGACAAT
 TACTCTGCTCTCCTGGTGGATCTGCTTCTCACACTTTACGTCGGTGCACGGGACAGCATCTTCGCTT
 TAACCCTGCCCTTCTCTGGGAAAAGCCTCGAAGGATCGACTGGATGGTGCCGAGACTCACAGACAGAA
 CTGTAGGAAGAAAGGCAAGAAAGAGGACGAATGCACAATTTATCCAGATTCTCGCCATTGCCAATGCC
 TCTCACCTCTCAGTGTGGCACCTTCGCTTTTGATCCGAAGTGGGGGTTATTGATGTCCAGTTTCC
 AGCAGGTTGAAAGACTTGAGAGTGGCCGGGGAAATGCCTTTTGAGCCAGCTCAACGGTACGACGCTGT
 AATGGCTGGGGGCTCCTTACACCGCCACTGTGAAAACTTCTGGGGACAGAGCCGATTATCTCCCGA
 GCTGTGGGTGAGACTGAGGACTGGATTCGAACAGAGACCTTGTCATCCTGGCTTAATGCCCCAGCCTTTG
 TCGCAGCTATGGTCTGAGCCCGGCTGAGTGGGGGATGAAGATGGAGACGATGAAATCTCTTTTTCTT
 CACGGAGACCTCCCGAGTCTTGGACTCATATGAGCGCATCAAGGTCCCACGAGTGGCCCGTGTGTGTGCG
 GGGGACCTTGGGGGCCGAAGACCTTCAGCAGAGATGGACGACGTTTCTAAAGGCTGACCTGCTGTGTC
 CAGGGCCCGAGCATGGAAGGGCTCGGGGGTCTGCAGGATATGACAGAGCTTCGACCTCAGCCTGGCGC
 GGGGACCCCTCTTTATGGCATCTTTCTCCAGTGGGAAGGAGCCGCCATTTCTGCTGTGTGTGCC
 TTCCGACCCCAAGACATCCGGCAGTGTGAATGGTCCCTTTAGAGAGCTAAAACATGACTGCAACAGGG
 GACTACCTGTGATGGACAACGAGGTGCCCCAGCCAGACTGGAGAGTGCATACCAACAACATGAAGTT
 CCAGCAGTTTGGATCCTCACTCTCCCTGCCAGACCGTGTGCTCACCTTTATCAGAGACCACCCGCTCATG
 GACAGGCCGCTGTTCCAGCTGATGGCCGCCCTGCTGGTCACTACGGATACAGCCTATCTCAGAGTTG
 TGGCTCACCGGTGACCAGCCTCTCAGGAAAAGAAATGATGTGCTTACCTGGGACAGAGGATGGGCA
 CCTCCATCGGGTGTGCGCATCGGAGCTCAGCTCAGTGTCTGGAGGATCTGGCCTTGTCCCGAAACA
 CAGCCGGTTGAAAGCATGAAATGTACCATGATTGGCTTCTGGTGGGCTCCATACTGAGGTGACACAAG
 TGAACACCAGCAACTGTGGCCGCTCCAGAGCTGCTCAGAATGTATCCTGGCCAGGATCCCGTGTGTGC
 CTGGAGCTTCCGGCTCGATGCTTGTGTGCCCATGCAGGCGAGCACCGTGGGATGGTTCAAGACATAGAG
 TCAGCAGATGTCTTTTGTGTCCAAAAGAACCTGGAGAACATCCGGTAGTGTGTAAGTTCCAGTGG
 CTACGGTGGGCCAGTGGTCTCGCGTGTCTCCCCAGTTCTGCCTGGGCATCCTGTGTGTGGCACCAGCC
 CAGTGGAGTGACTTCGCTCACCCACGAAGGGATGGGCTAGAGGTGGTGGTGACCCAGGGGCCATGGGG
 GCTTATGCTTGGCAGTGTGAGGAGGTGGAGCCCGCCGTGTGGTGGCTGCTTATAGCTTGGTGTGGGGCA
 GCCAGAGGGGGCCGCAAAACCGGGCCACACCGTTGTGGGGGCTGGGCTGGTTGGCTTTTCTGGGTGT
 TCTAGCAGCATCTCACTCTCCTGATTGGTCGCCGTGAGCAGCGCGGCGACAGAGGGAGCTTCTA
 GCTAGAGACAAGGTGGGCTTAGATCTGGGGCTCCACCTTCTGGGACCACAAGCTATAGCCAAGACCCTC
 CCTCTCCTTACCTGAAGATGAACGGCTGCCCTGGCCCTGGGTAAAGCGGGCAGTGGTTTTGGTGGCTT
 CCCTCCACCCTTCTGCTGGATTCTTGGCCGAGCCAGCCACATCCGGTCACTGGGGCTCCTCTGGCC
 ACGTGCGATGAGACGTCTAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_011350
Insert Size: 2334 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_011350.4](#), [NP_035480.3](#)

RefSeq Size: 4103 bp

RefSeq ORF: 2334 bp

Locus ID: 20355

UniProt ID: [Q9Z123](#)

Cytogenetics: 6 35.94 cM

Gene Summary: This gene encodes a member of semaphorin family of membrane-bound and secreted proteins that are involved in guiding axonal growth. The encoded protein is a transmembrane protein localized to the glutamatergic synapses via its association with a synapse-associated scaffolding protein. In oligodendrocyte precursor cells, the encoded protein contributes to the outward migration and differentiation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2015]
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).