

## Product datasheet for **MC218959**

### Sema4f (NM\_001113481) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sema4f (NM_001113481) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sema4f
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218959 representing NM\_001113481  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGGCCAGGGCCGAGCGGCCCGCCGGCCCGCCGGCCCTCCGGTCTCTCTTCCCGCCGCGT  
 CGTCGCTGCTGCTGCTGCTGGCGATGCTGAGCGCCCCGGTGTGCGGCCGCGTCCCCCGCTCGGTGCC  
 CAGAACCTCGCTGCCATCTCCGAGGCTGACTCTATCTCACCCGGTTTGCGGCCCTCATACTACAAT  
 TACTCTGCTCTCCTGGTGGATCTGCTTCTCACACTTTACGTCGGTGCACGGGACAGCATCTTCGCTT  
 TAACCCTGCCCTTCTCTGGGAAAAGCCTCGAAGGATCGACTGGATGGTCCCGAGACTCACAGACAGAA  
 CTGTAGGAAGAAAGGCAAGAAAGAGGACGAATGCACAATTTATCCAGATTCTCGCCATTGCCAATGCC  
 TCTCACCTCTCAGTGTGGCACCTTCGCTTTTGATCCGAAGTGCGGGGTATTGATGTGCCAGTTCC  
 AGCAGGTTGAAAGACTTGAGAGTGGCCGGGGAAATGCCTTTTGAGCCAGCTCAACGGTCAAGCAGCTGT  
 AATGGCTGGGGGCTCCTTACACCGCCACTGTGAAAACTTCTGGGGACAGAGCCGATTATCTCCCGA  
 GCTGTGGGTGAGCTGAGGACTGGATTCGAACAGAGACCTTGTCATCCTGGCTTAATGCCCCAGCCTTTG  
 TCGCAGCTATGGTCTGAGCCCGCTGAGTGGGGGATGAAGATGGAGACGATGAAATCTCTTTTTCTT  
 CACGGAGACCTCCCGAGTCTTGGACTCATATGAGCGCATCAAGGTCCCACGAGTGGCCCGTGTGTGTGC  
 GGGGACCTTGGGGCCGGAAGACCCTTCAGCAGAGATGGACGACGTTTCTAAAGGCTGACCTGCTGTGC  
 CAGGGCCCGAGCATGGAAGGGCTCGGGGGTCTGCAGGATATGACAGAGCTTCGACCTCAGCCTGGCGC  
 GGGGACCCCTCTTTATGGCATCTTTTCTCCAGTGGGAAGGAGCCGCCATTTCTGCTGTGTGTGCC  
 TTCCGACCCCAAGACATCCGGGCAGTGTGAATGGTCCCTTTAGAGAGCTAAAACATGACTGCAACAGGG  
 GACTACCTGTGATGGACAACGAGGTGCCCCAGCCAGACCTGGAGAGTGCATCACCACCAACATGAAGTT  
 CCAGCAGTTTGGATCCTCACTCTCCCTGCCAGACCGTGTGCTCACCTTTATCAGAGACCACCCGCTCATG  
 GACAGGCCGTGTTTCCAGCTGATGGCCGCCCTGCTGGTCACTACGGATACAGCCTATCTCAGAGTTG  
 TGGCTCACCGGTGACCAGCCTCTCAGGAAAAGAAATGATGTGCTTACCTGGGGACAGAGGATGGGCA  
 CCTCCATCGGGTGTGCGCATCGGAGCTCAGCTCAGTGTCTGGAGGATCTGGCCTTGTCCCGAAACA  
 CAGCCGGTTGAAAGCATGAAATGTACCATGATTGGCTTCTGGTGGGCTCCATACTGAGGTGACACAAG  
 TGAACACCAGCAACTGTGGCCGCTCCAGAGCTGCTCAGAAATGTATCCTGGCCAGGATCCCGTGTGTGC  
 CTGGAGCTCCGGCTCGATGCTTGTGTGCCCATGCAGGGCAGCACCGTGGG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001113481

**Insert Size:** 1665 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001113481.1](#), [NP\\_001106953.1](#)

**RefSeq Size:** 2735 bp

**RefSeq ORF:** 1665 bp

**Locus ID:** 20355

**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]