

## Product datasheet for **MR210594**

### Sema4f (NM\_011350) Mouse Tagged ORF Clone

#### Product data:

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



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ORF Nucleotide  
Sequence:

>MR210594 representing NM\_011350  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGGCCAGGGCCGAGCGGCCCGCCGGGCCCGCCGGCCCTCCGGTCTCTCTTCCCGCCGCGT  
 CGTCGCTGCTGCTGCTGCTGCTGGCGATGCTGAGCGCCCGGTGTGCGGCCGCGTCCCCCGCTCGGTGCC  
 CAGAACCTCGCTGCCATCTCCGAGGCTGACTCTATCTCACCCGGTTTGCGGCCCTCATACTGACAAT  
 TACTCTGCTCTCCTGGTGGATCTGCTTCTCACACTTTACGTCGGTGCACGGGACAGCATCTTCGCTT  
 TAACCCTGCCCTTCTCTGGGAAAAGCCTCGAAGGATCGACTGGATGGTGCCCGAGACTCACAGACAGAA  
 CTGTAGGAAGAAAGGCAAGAAAGAGGACGAATGCACAATTTATCCAGATTCTCGCCATTGCCAATGCC  
 TCTCACCTCTCACGTGTGCACCTTCGCTTTTGATCCGAAGTGCGGGGTATTGATGTCCAGTTTCC  
 AGCAGGTTGAAAGACTTGAGAGTGGCCGGGGAAATGCCTTTTGAGCCAGCTCAACGGTACGACGCTGT  
 AATGGCTGGGGGCGTCTACACCGCCACTGTGAAAACTTCTGGGGACAGAGCCGATTATCTCCCGA  
 GCTGTGGGTGAGCTGAGGACTGGATTCGAACAGAGACCTTGTCATCCTGGCTTAATGCCCCAGCCTTTG  
 TCGCAGCTATGGTCTGAGCCCGCTGAGTGGGGGATGAAGATGGAGACGATGAAATCTCTTTTTCTT  
 CACGGAGACCTCCCGAGTCTTGACTCATATGAGCGCATCAAGGTCCCACGAGTGGCCCGTGTGTGTGCG  
 GGGGACCTTGGGGGCCGAAGACCTTCAGCAGAGATGGACGACGTTTCTAAAGGCTGACCTGCTGTGTC  
 CAGGGCCCGAGCATGGAAGGGCTCGGGGGTCTGCAGGATATGACAGAGCTTCGACCTCAGCCTGGCGC  
 GGGGACCCCTCTTTTATGGCATCTTTCTCCAGTGGGAAGGAGCCGCAATTTCTGCTGTGTGTGCC  
 TTCCGACCCCAAGACATCCGGCAGTGTGAATGGTCCCTTTAGAGAGCTAAAACATGACTGCAACAGGG  
 GACTACTGTGATGGACAACGAGGTGCCCCAGCCAGACCTGGAGAGTGCATACCAACAACATGAAGT  
 CCAGCAGTTTGGATCCTCACTCTCCCTGCCAGACCGTGTGCTCACCTTTATCAGAGACCACCCGCTCATG  
 GACAGGCCGCTGTTTCCAGCTGATGGCCGCCCTGCTGGTCACTACGGATACAGCCTATCTCAGAGTTG  
 TGGCTCACCGGTGACCAGCCTCTCAGGAAAAGAAATGATGTGCTCTACCTGGGGACAGAGGATGGGCA  
 CCTCCATCGGGTGTGCGCATCGGAGCTCAGCTCAGTGTCTGGAGGATCTGGCCTTGTCCCGAAACA  
 CAGCCGGTTGAAAGCATGAAATGTACCATGATTGGCTTCTGGTGGGCTCCATACTGAGGTGACACAAG  
 TGAACACCAGCAACTGTGGCCGCTCCAGAGCTGCTCAGAATGTATCCTGGCCAGGATCCCGTGTGTGC  
 CTGGAGCTTCCGGCTCGATGCTTGTGTGCCCATGCAGGCGAGCACCGTGGGATGGTTCAAGACATAGAG  
 TCAGCAGATGTCTTTTGTGTCCAAAAGAACCTGGAGAACATCCGGTAGTGTGTTGAAGTTCCAGTGG  
 CTACGGTGGGCCAGTGGTCTGCGCTGCTCCCCAGTTCTGCCTGGGCATCCTGTGTGTGGCACCAGCC  
 CAGTGGAGTGACTTCGCTCACCCACGAAGGGATGGGCTAGAGGTGGTGGTGACCCAGGGGCCATGGGG  
 GCTTATGCTTGGCAGTGTGAGGAGGTGGAGCCCGCCGTGTGGTGGCTGCTTATAGCTTGGTGTGGGGCA  
 GCCAGAGGGGGCCGCAAAACCGGGCCACACCGTTGTGGGGGCTGGGCTGGTTGGCTTTTCTGGGTGT  
 TCTAGCAGCATCTCACTCTCCTGATTGGTCGCGCTCAGCAGCGCGGCGACAGAGGGAGCTTCTA  
 GCTAGAGACAAGTGGGCTTAGATCTGGGGCTCCACCTTCTGGGACCACAAGCTATAGCCAAGACCCTC  
 CCTCTCCTTACCTGAAGATGAACGGCTGCCCTGGCCCTGGGTAAAGCGGGCAGTGGTTTTGGTGGCTT  
 CCTCCACCCTTCTGCTGGATTCTTGGCCGAGCCAGCCACATCCGGTCACTGGGGCTCCTCTGGCC  
 ACGTGCGATGAGACGTCTATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210594 representing NM\_011350  
Red=Cloning site Green=Tags(s)

MLARAERPRGPRPPVSLFPPSSLLLLLAMLAPVCGRVPRSPRTSLPISEADSYLTRFAAPHTYN  
YSALLVDPASHTLYVGARDSIFALTLPFSGEKPRRIDWMPETHRQNCRKKGKKEDECHNFIQILAIANA  
SHLLTCGTFAFDPKCGVIDVSSFQQVERLESGRGKCPFEPQRSAAVMAGGVLYTATVKNFLGTETIISR  
AVGRAEDWIRTETLSSWLNAPAFVAAMVLSAEWGEDGDDEIFFFFETETSRVLDSYERIKVPRVARVCA  
GDLGGRKTLQQRWTTFLKADLLCPGPEHGRASGVLQDMTELRPQPGAGTPLFYGIFSSQWEGAAISAVCA  
FRPQDIRAVLNGPFRELKHCNRGLPVMNEVPQPRPGECITNNMKFQQFGSSLSLPDRVLTIFIRDHPLM  
DRPVFPADGRPLLVTDDTAYLRVVAHRVTSLSGKEYDVLVLGTEDGHLHRAVRIGAQLSVLEDLALFPET  
QPVESMKLYHDWLLVGSHTVETQVNTSNCGRQLQSCSECILAQDPVCAWSFRLDACVAHAGEHRGMVQDIE  
SADVSSLCPEKGEHPVVFEVPVATVGHVVLPCSPSSAWASCVWHQPSGVTSLTPRRDGLVVVTPGAMG  
AYACECQEGGAARVVAAYSLVWGSQRGPANRAHTVVGAGLVGFFLVLAASLTLILLIGRRQRRRQRELL  
ARDKVGLDLGAPPSGTTSYSQDPPSPSPEDERLPLALGKRGSFGGFPFLLDSCPSAHIRLTGAPLA  
TCDETSI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9013\\_b07.zip](https://cdn.origene.com/chromatograms/mm9013_b07.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_011350

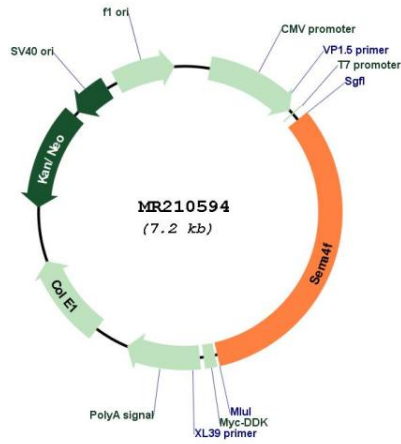
ORF Size: 2331 bp

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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011350.4</a> , <a href="#">NP_035480.3</a>
<b>RefSeq Size:</b>	4067 bp
<b>RefSeq ORF:</b>	2334 bp
<b>Locus ID:</b>	20355
<b>UniProt ID:</b>	<a href="#">Q9Z123</a>
<b>Cytogenetics:</b>	6 35.94 cM
<b>MW:</b>	84.9 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR210594