

Product datasheet for **SC117510**

Semaphorin 3F (SEMA3F) (NM_004186) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3F (SEMA3F) (NM_004186) Human Untagged Clone
Tag:	Tag Free
Symbol:	Semaphorin 3F
Synonyms:	SEMA-IV; SEMA4; SEMAK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117510 sequence for NM_004186 edited (data generated by NextGen Sequencing)

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ATGCTTGTGCGCCGGTCTTCTTCTCTGGGCTTCCCTACTGACTGGGGCCTGGCCATCCTTCCCCACCCAGG
ACCACCTCCCGGCCACGCCCCGGTCCGGCTCTCATTCAAAGAGCTGAAGGCCACAGGCACCGCCCACTT
CTTCAACTTCTGCTCAACACAACCGACTACCGAATCTTGCTCAAGGACGAGGACCACGACCCGATGTAC
GTGGGCAGCAAGGACTACGTGCTGCCCTGGACCTGCACGACATCAACCCGAGCCCTCATTATACATT
GGGCAGCCTCCCCACAGCGCATCGAGGAATGCGTGCTCTCAGGCAAGGATGTCAACGCGAGTGTGGGAA
CTTCGTGACGGCTCATCCAGCCCTGGAACCGAACACACCTGTATGTGTGCGGGACAGGTGCCTACAACCC
ATGTGCACCTATGTGAACCGGGACGCCCGCCAGGCCACACCATGGACCCAGACTCAGGCGGTGAGAG
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CTACCTGGAGCCTGAGCGACTCGAGTCAAGGAAGGCAAGTGTCCGTACGATCCCAAGCTGGACACAGCA
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TCCGCACACTTGGAAAGCAGACGCCATGCGCACGGATCAGTACAACCTCCGGTGGCTGAACGACCCGTC
GTTTCATCCATGCTGAGCTCATTCTGACAGTGGCGAGCGCAATGATGATAAGCTTTACTTCTTCCGT
GAGCGGTGCGCAGAGGCGCCGACAGCCCGCGGTGTACGCCCGCATCGGGCGCATTTGCTGAACGATG
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ATGAAGTCCACCAAGGATTATCCTGATGAGGTGATCAACTTCATGCGCAGCCACCCATCATGTACCAGG
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CGTGGACCAGGTGGATGCAGCCGACGGGCGCTATGAGGTGCTTTTCTGGGCACAGACCCGCGGACAGTG
CAGAAGGTCAATGTGCTGCCAAGGATGACCAGGAGATGGAGGAGCTCATGCTGGAGGAGTGGAGGTCT
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CCCAAGCCACTGTTAAGTGGCTGTTCCAGCGAGATCCTGGTGACCGGCCGAGAGATTGTCGAGAGG
ACCGCTTCTGCGCACAGAGCAGGGCTTGTGCTCCGTGCACTGCAGCTCAGCGATCGTGGCCTCTACTC
CTGCACAGCCACTGAGAACAACTTTAAGCACGTCGTACACAGAGTGCAGCTGCATGTACTGGGCCGGAC
GCCGTCCATGCTGCCCTTCCACCCTGTCCATGAGCGCCCGCCACCCCGAGGCGCAGGCCCCCAA
CGCCTCTTACCAGGAGTTAGCCAGCTGCTGGCCAGCCAGAAGTGGGCTCATCCACCAGTACTGCCA
GGGTTACTGGCGCCATGTGCCCCCAGCCCCAGGAGGCTCCAGGGCACCCCGGTCTCTGAGCCCCAG
GACCAGAAAAAGCCCCGGAACCGCCGCCACCACCTCCGGACACA TGA
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Clone variation with respect to NM_004186.4
42:t=>c 279:t=>c 1507:a=>t

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004186 unedited</p> <pre>GGATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGAGAGTGGAG CCTGCTTCTGGGCCCTAGGCCCTCCACAAATGCTTGTGCGCGGTCTTCTTCTGGGC TTCCCTACTGACTGGGGCCTGGCCATCCTTCCCACCCAGGACCACCTCCCGGCCACGCC CCGGGTCCGGCTCTCATTCAAAGAGCTGAAGGCCACAGGCACCGCCACTTCTTCAACTT CCTGCTCAACACAACCGACTACCGAATCTTGCTCAAGGACGAGGACCACGACCGCATGTA CGTGGGCAGCAAGGACTACGTGCTGTCCCTGGACCTGCACGACATCAACCGCGAGCCCTC ATTATACATTGGGCAGCCTCCCCACAGCGCATCGAGGAATGCGTGCTCTCAGGCAAGGA TGTAACGGCGAGTGTGGAACTTCGTCAAGGCTCATCCAGCCCTGGAACCGAACACACCT GTATGTGTGCGGGACAGGTGCCTACAACCCCATGTGCACCTATGTGAACCGCGGACGCCG CGCCCAGGCCACACCATGGACCCAGACTCAGGCGGTGAGAGCCGCGGCAGCAGAGCCAC GGATGGTGCCCTCCGCCGATGCCACAGCCCCAGCCAGGATTACATCTTCTACCTGGA GCCTGAGCGACTCGAGTCAGGGAAGGGCAAGTGTCCGTACGATCCCAAGCTGGACACAGC ATCGGCCCTCATCAATGAGGAGCTCTATGCTGGTGTGACATCGATTTTATGGGCACTGA TGCAGCCATCTTCCGCACACTTGGGAAGCAGACAGCCATGCGCACGGATCAGTACAACNTN CCCGGTGGGCTGACGACCCCGTTCATCCATGCCTGAGCTCATTNCCTGACAGTGGCGG GAGCGCAATGATGATAAGCTTTACTTCTCCTTCCGTGAGCGGTCCGCAAAGGCGCGCAA GCCCGCGNTGTCGCC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004186 unedited</p> <pre>TTGGACGCGGCCCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTAAGTTTTGGAGGAT GCTGCCACTGAGGCAGGCTATATTTCAACCCACCAATAAACTGTCTTTGCAGGGGCGAGG GTGTGTATAGAATATAGATATTTTATATATATATATATATATATATATATATATCTTTTA TATTAAGGGACAAGGGCTAGGCTGGCCCATGGCAGGCACAGGCACTGGCCTCATGTG TCCGGAGGGTGGTGCCGGCGGTTCCGGGGCTTTTCTGGTCTGGGGCTCAGGAGACCGG GGTGCCCTGGAGCCTCCCTGGGGCTGGGGGACATGGCGCCAGTAACCTGGCAGTAC TGGTGGATGAGGCCCACTTCTGGCTGGGCCAGCAGCTGGGCTAACTCCTGGTAAGGAGGC GTTGGGGGGCTGCGCCTGGGGTGGCGGGGCGCTCATGGACAGTGGTGGGAAGAGGGCA GCATGGACGGCGTCCCGCCAGTACATGCAGCTGCACTCGTGTGACGACGTGCTTAAAG TTGTTCTCAGTGGCTGTGAGGAGTAGAGGCCACGATCGCTGAGCTGACGTGCAGTGCACGGAG AACAAAGCCCTGCTGTGCGCAGGAAGCGTCCCTGACGCAATCTCTCGGCGCCGGTCA CCAGGATCTCGTGGAACAGCCACTTAAACAGTGGCTTGGGGCGAGCGGNGCTGGCACTCA AGGAAGCTGCGCTNGCCGCCACGCCATACTGCACAGACTNCACGGCATTCTTGTGGCAT TNGGAGTGAACCCACGCACTGCCTGATGGGTTTTCTGCGCGGAGTNCNCGCANNNGCT CGCTCTGNAGGAGCTGATAGNGGAGCAGCTGCCATCCCAGCCAGTAGGGTCCCGGGCAG CANAGTCACACAGCAGCCCTACNCTGCNANGTGCAGCTCAGTGTGACACCCGCTGAC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_004186
Insert Size:	2680 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_004186.2](#), [NP_004177.2](#)

RefSeq Size: 3535 bp

RefSeq ORF: 2358 bp

Locus ID: 6405

UniProt ID: [Q13275](#)

Cytogenetics: 3p21.31

Domains: Sema, IG, PSI

Protein Families: Secreted Protein

Protein Pathways: Axon guidance

Gene Summary: This gene encodes a member of the semaphorin III family of secreted signaling proteins that are involved in axon guidance during neuronal development. The encoded protein contains an N-terminal Sema domain, an immunoglobulin loop and a C-terminal basic domain. This gene is expressed by the endothelial cells where it was found to act in an autocrine fashion to induce apoptosis, inhibit cell proliferation and survival, and function as an anti-tumorigenic agent. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2016]
Transcript Variant: This variant (1) encodes the longest isoform (1).