

Product datasheet for **MC228846**

Sema3b (NM_001291539) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3b (NM_001291539) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sema3b
Synonyms:	LUCA; Se; sem; SemA; sema5; Sema; semaV
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228846 representing NM_001291539
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCGGGCTGAGGCCGCCCATGATCCCAGGCCCTGGCCCTTCTCTGGGTAGCAGGGCTAGGGGATA
 CTGCCCTAACCTTCCCGCCTTCGGCTCTCCTTTCAAGAATTACAGGCCGGCATGGTGTCCGAACCTT
 CAGGCTGGAGCGGACCTGCTGTTATGAAGCCTTGTGGTGGATGAGGAGCGTGGACGCCTGTTTGTGGGT
 GCTGAGAACCACGTGGCTTCCCTCAGCCTGGACAACATCAGCAAGCGAGCCAAGAAGCTGGCCTGGCCCG
 CCCCCGTGGAATGGCGTGAAGAAATGCAACTGGGCAGGGAAGGACATTGGTACCGAGTGCATGAACTTCGT
 GAAGCTGCTGCACACCTACAACCACACCCACTTGTGGCCTGTGGCACAGGGGCTTTCCACCCAACCTGT
 GCCTTTGTGGAGTGGGCCACCGCTGGAGGAACCCATGCTTCACTGGACCGGAGGAACTTGAGGACG
 GCAAGGGGAAGACTCCTTATGACCCAAGGCATCGGGCTGCCTCGGTGCTGGTGGGGGAAGAAGTGTATTC
 TGGGGTGACAGCAGACCTTATGGGCCGGGACTTTACCATCTTTGAAGCCTTGGTCAAGATCCGAGTCTC
 CGAACAGAGCCCCATGATTCGGCTGGCTCAATGAACCCAAGTTGTCAAGGTCTTTTGGATCCCAGAGA
 GTGAGAACCCTGATGACGATAAAATCTATTTCTTCCGCGAGTCCGCTGTGGAAGCAGCACCAGCAAT
 GGGGCGCATGTCTGTGTCTCGTGTGGCCAGATCTGCAGGAATGACCTGGGTGGCCAGCGGAGCTTGGTC
 AACAAATGGACCACATTTCTGAAGGCGCGGCTTGTGTGCTCAGTACCTGGAGTTGAGGGTACACCCACT
 TTGACCAACTTCAGGATGTTTTCTTCTGTCTCCCGAGACCGCCAGACACCTTCTCTATGCTGTCTT
 CTCCACCTCCAGTGGTGTCTTCCAGGGCTCTGCTGTGTGCGTGTACAGCATGAACGATGTGCGCCGAGCC
 TTCTTGGGACCTTTTGTCAAAAGAGGGGCTACACACCAGTGGGTGTCTACCAGGGTGTGTCCCT
 ACCCAAGACTGGCATGTGCCCCAGCAAGACTTTGGCACCTTCAGCTCCACCAAGGACTTCCAGATGA
 CGTTATCCAGTTTGTCTCGGAACCACCTCTCATGTACAACCCAGTCTGCCCATGGGGGGCGCCCTCTC
 TTCTTACAAGTGGGAGCTGGGTACACCTTACCACCAATCGCCGAGACCGAGTAGCAGCTGCCGATGGAC
 ACTACGATGTTCTTTCATTGGTACAGATGTGGGCACAGTGTGAAAGTATCTCAGTCCCCAAAGGCAG
 CCGACCTAATTCTGAAGGACTTCTCCTGGAAGAGCTGCAGGTGTTGAGGACTCTGCCGCTATCACCAGC
 ATGCAAATCTCCTCTAAAAGGCAACAACCTACATAGCATCGCGCAGCGCAGTGGCCAGATTGCTTTGC
 ATCGCTGCACTGCCCTAGGCCGCGCTGCGCAGAATGCTGCTTGGCCCGTATCCTTACTGCGCCTGGGA
 TGGATCAGCTTGCACACGCTTCCAGCCTACGGCCAAGAGACGGTTCGGGAGGCAAGACATAAGGAATGGC
 GACCCAGCACCTATGCTCTGGAGACTTCTCACTCTGTGCTGCTGGAGAAGAAGGTGTTGGGTGTGG
 AGAGCGGCAGCGGTTTCTGGAGTGTGAGCCCCGCTCGCTCCAGGCGCATGTGCAGTGGACCTTCCAAGG
 TGACGGGGAGGCAGCTCACACCCAGGTGCTGGCTGAGGAGAGAGTAGAGCGCACTGCGCGGGGGCTGCTG
 TTGCGGGGGTGCGGCGCCAGGACTCTGGCGTGTATCTTTGCGTCGCGGTTGAACAAGGCTTTTCAAC
 CACTGCGTGCCTGGTGTGCATGTGTTGAGTGCGGCGCAGGCTGAACGACTGGCACGGGAGAGGAAGC
 AGCCGCTCCTGCACCTCCTGGCCCTAACTCTGGTACCGGACTTTCTGCAGTTGGTGGAGCCAGGCGGT
 GGCGGAGGTGCAAACCTCCCTGCGAATGTGCCCGCCGACCCGGGACCACTCTGTGGCAGCAGATTAC
 GTCGTAAGGGTGCACACAGACGGATGCATGTCTGAGCTCCGTGCTGAGCGTGGACCACGTAGTGCAGC
 TCACTGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001291539
Insert Size: 2250 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001291539.1, NP_001278468.1</u>
RefSeq Size:	3687 bp
RefSeq ORF:	2250 bp
Locus ID:	20347
Cytogenetics:	9 58.31 cM
Gene Summary:	<p>This gene encodes a secreted protein that belongs to the class 3 semaphorin/collapsin family. Members of this family play a role in growth cone guidance during neurogenesis. The encoded protein inhibits axonal extension. This protein is thought to be an osteoblast protein that regulates bone mass and affects skeletal homeostasis. A similar gene in humans functions as a tumor suppressor gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR compared to variant 3. Variants 1 through 5 encode the same protein.</p>