

Product datasheet for **MC222376**

Sema6b (NM_013662) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema6b (NM_013662) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sema6b
Synonyms:	Sema; Seman; semaZ; Vlb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222375 representing NM_001130456
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGACCCCGGAGTGCCCCCTCCACGCCCGCCCTGTCGTTTTCTGCTGTTGCTCCTGGGGTCA
 CCTATGGCCTTTTCCAGAAGAACCACCTCCACTCAGCGTGGCTCCAGGGACTACTTGAGCCACTATCC
 CGTGTTCTGTTGGGAGCGGGCCTGGTCGTCTGACCCTGCGGAGGGTGTGAGGACCTCAACATCCAGAGA
 GTGCTACGTGTTAACAGGACACTGTTTCATTGGGGACAGAGATAACCTGTACCAAGTAGAACTGGAGCCAT
 CCACCTCCACGGAGCTGCGATATCAGAGGAAGCTGACCTGGCGCTCAACCCCAAGTGACATCGATGTGTG
 TCGAATGAAGGGCAAGCAAGAGGGTGTGAGTGTGCGAACTTGTCAAGGTGCTCCTGCTTCGCGATGAGTCC
 ACGCTGTTCTGTCGCGCTCCAATGCGTTCAATCCCATCTGCGCAATTACAGTATGGACACACTGCAGC
 TTCTTGGTGACAGCATCAGCGGTATGGCCCGCTGCCCTATGACCCAAACATGCCAATGTCGCCCTCTT
 CTCAGATGGGATGCTCTTACAGCCACGGTGACTGACTTCTAGCCATCGACGCTGTTATCTACCGCAGC
 CTTGGGGACCGGCCACACTGCGCACAGTAAAGCACGACTCCAAGTGGTTTAAAGAGCCGTAATTTGTGC
 ATGCAGTGGAGTGGGGAAGCCACGTCTATTTCTTCTCCGGGAGATCGCCATGGAGTTTAACTACCTGGA
 AAAGTGGTGGTGTCTCGAGTGGCCGTGTGTGCAAGAATGACGTGGGCGGCTCGCCACGAGTGTGGAG
 AAGCAGTGGACTTCTTCTGAAGGCCCGGCTCAACTGCTCAGTGCCAGGGGATTCACACTTCTACTTCA
 ACGTCTCGAGGCTGTGACGGGCGTGGTGTGAGCCTGGTGGTGTGTCGGTGTGCTCGCTGCTTCTCAAC
 TCCTAGCAACAGCATCCCGGCTCAGCCGTCTGCGCCTTGACATGAACCAAGTGGCTGCTGTGTTGAA
 GGCCGCTCCGGGAACAGAAGTGCCTGAGTCGATCTGGACACCAGTGCCTGAAGACCAAGTGCACCGCC
 CCAGGCTGGGTGCTGCGCGCACCTGGCATGCAGTACAACCGCTCCAGTGCCCTCCCTGACGAGATCCT
 CAACTTTGTAAAGACCCACCCACTGATGGATGAGGCAGTACCTTCCCTGGGTCACTCGCCGTGGATTGTG
 AGAACTCTGATGCGGCACCAGCTGACCCGAGTGGCTGTGGATGTGGGTGCGGGTCCATGGGGCAATCAGA
 CAATAGTCTTCTTGGCTCCGAGGCTGGCACAGTCTCAAATTTCTTGTGAAGCCCAACGCCAGTGTCTC
 AGGGACCACAGGGCCAGCATCTTTTGGAGGAGTTTGTAGACCTACCGCCAGACAGGTGTGGACGACCC
 AGCAGTGTGGTGTGAGTGGGGCAGCGACTTCTCAGCCTGGAGCTGGATGCAGCCTCAGGGGGCTGCTGG
 CAGCCTTCCCGGCTGTGTGGTTCGTGTTCTGTTGCCGTTGCCAGTGTACTCGGGTGCATGAAGAA
 CTGATTGGCAGCCAGGATCCATACTGCGGGTGGGCCCTGATGGCTCCTGCATCTTCTCAGACCAGGA
 ACTAGTGCCACGTTTGTGCAAGATGTGTCCGGGGCCAGCACCTTGGCTTAGGTGACTGCACTGGACTCT
 TGCAGCCAGCCTCTCAGATGACCGCGCAGGGCTGGTGTGCGTGAACCTGCTAGTGACGCTCCTCGGTGGC
 AGCGTTCTGTTGGTGGGTGCCGTGGTGTCCGGCTTCAAGTGTAGGCTGGTTCGTGGGTCTCCGCGAGCGCGG
 GAGCTGGCCCGCGCAAGGACAAGGAGGCCATTCTGGCGCACGGCGGAGCGAGGAGGATCTGAGCGTGA
 GCCGACTAGGCGAGCGCAGGGGGACCGGGCCCGGGGTCGTGGAGGAGCCGGCGGGTCCCGGAGGTCC
 CCCGGAGGCCCTGCTGGCCCCGTTATGCAGAATGGCTGGACAAAGGCAGCGCTGCTGCATGGTGGCCCT
 CACGACCTGGACACGGGGCTGCTGCCACCCAGAGCAGACGCTTACCCAGAAACGCCTGCCACGC
 CACACCCACACGCCACGCCCTGGGGTCTCGAGCCTGGGACCACAGCCACGCGCTGCTGTGCGCCTCAGC
 CTCCACCTCTTGTCTCTACTGGCGCCCGCCGCGCCTCTGAGCAGCCCAAGTGCCAGCCGAGCGGCGGG
 CCGGAATCTCGCCTCTGCGCCCCAGATCTTCCGGGCTCTCACCCAGGCGACTTCCCGCTCACGCCCC
 ACGCCAGCCCGGACCGCGGGTGGTGTCCGCACCCACGGGCCCTTGGACCTTCTGGTGGGCGACGG
 CCTGCCCGGGCCATGGAGCCACCTGCAACCAGCAGCCTGCGGAGGCGGGTCCCCACGGGCCCCCA
 GCCGCCCTACGGCGCACACACATTCAACAGCGGCGAGGCTCGGCCGGGGTTCATCGTCTCGCCGCC
 ACCCACCCGCGGACTCTACACACTTGTGCCCTGCGGGACGGGCGAGCGGACTGCACCCCGGTACCCTA
 G

AC**GGGCCGC**TCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
 TTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-NotI
ACCN: NM_013662

Insert Size:	2661 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:	<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_013662.2</u> , <u>NP_038690.1</u>
RefSeq Size:	3847 bp
RefSeq ORF:	2661 bp
Locus ID:	20359
UniProt ID:	<u>O54951</u>
Cytogenetics:	17 D
Gene Summary:	Functions as a cell surface repellent for mossy fibers of developing neurons in the hippocampus where it plays a role in axon guidance (PubMed:20484647). May function through the PLXNA4 receptor expressed by mossy cell axons (PubMed:20484647). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.