

Product datasheet for **SC127234**

SEMA4B (NM_020210) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA4B (NM_020210) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA4B
Synonyms:	SEMAC; SemC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_020210, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCGCACCCGCGATGGGCCTGAGGAGCTGGCTCGCCGCCCATGGGGCGCGCTGCCCTCGGCCAC
CGTGTGCTGCTCTCTGCTGCTGCTGCTCTGCTGCAGCCGCCCTCCGACCTGGGCGCTCAGCCCCCG
GATCAGCCTGCCTCTGGGCTCTGAAGAGCGGCCATTCTCAGATTCGAAGCTGAACACATCTCCAACACTA
ACAGCCCTTCTGCTGAGCAGGGATGGCAGGACCCTGTACGTGGGTGCTCGAGAGGCCCTCTTTGCACTCA
GTAGCAACCTCAGCTTCTGCCAGGCGGGGAGTACCAGGAGCTGCTTTGGGGTGCAGACGCAGAGAAGAA
ACAGCAGTGCAGCTTCAAGGGCAAGGACCACAGCGGACTGTCAAACTACATCAAGATCCTCCTGCCG
CTCAGCGGCAGTCACTGTTACCTGTGGCACAGCAGCCTTCAGCCCCATGTGTACCTACATCAACATGG
AGAAGTTCACCCCTGGCAAGGGACGAGAAGGGGAATGTCTCCTGGAAGATGGCAAGGGCCGTTGTCCCTT
CGACCCGAATTTCAAGTCCACTGCCCTGGTGGTTGATGGCGAGCTCTACACTGGAACAGTCAAGCAGCTTC
CAAGGGAATGACCCGGCCATCTCGCGGAGCCAAAGCCTTCGCCCCACCAAGACCGAGAGCTCCCTCACT
GGCTGCAAGACCCAGCTTTTGTGGCCTCAGCCTACATTCTGAGAGCCTGGGCAGCTTGAAGGCGATGA
TGACAAGATCTACTTTTTCTTACGCGAGACTGGCCAGGAATTTGAGTTCTTTGAGAACACCAATTGTGTCC
CGCATTGCCCGCATCTGCAAGGGCGATGAGGGTGGAGAGCGGGTGTACAGCAGCGCTGGACCTCCTTCC
TCAAGGCCAGCTGCTGTGCTCACGGCCGACGATGGCTTCCCCTTCAACGTGCTGCAGGATGTCTTAC
GCTGAGCCCCAGCCCCAGGACTGGCGTGACACCTTTTCTATGGGGTCTTCACTTCCCAGTGGCACAGG
GGAAGTACAGAAGGCTCTGCCGTCTGTCTTTCACAATGAAGGATGTGCAGAGAGTCTTACAGCGGCTCT
ACAAGGAGGTGAACCGTGAGACACAGCAGTGGTACACCGTGACCCACCCGGTGCCACACCCCGGCTGG
AGCGTGCATCACCAACAGTGCCTGGGAAAGGAAGTCAACTCATCCCTGCAGTCCCAGACCCGCTGCTG
AATTCCTCAAGGACCACTTCTGATGGACGGGACAGTCCGAAGCCGCATGCTGCTGCAGCCCCAGG
CTCGCTACCAGCGGTGGCTGTACACCGGTCCCTGGCCTGCACCACACCTACGATGTCTCTTCTGGG
CACTGGTGACGGCCGGCTCCACAAGGCAGTGAGCGTGGGCCCCCGGGTGCACATCATTGAGGAGCTGCAG
ATCTTCTCATCGGGACAGCCCGTGCAGAACTGCTCCTGGACACCCACAGGGGGTGTGTATGCGGCCCT
CACACTCGGGCGTAGTCCAGGTGCCATGGCCAACTGCAGCCTGTACAGGAGCTGTGGGGACTGCCTCCT
CGCCCCGGACCCCTACTGTGCTTGGAGCGGCTCCAGCTGCAAGCACGTCAGCCTTACCAGCCTCAGCTG
GCCACCAGGCCGTGGATCCAGGACATCGAGGGAGCCAGCCAAAGGACCTTTCAGCGCGCTTTCGGTTG
TGTCCCGTCTTTGTACCAACAGGGGAGAAGCCATGTGAGCAAGTCCAGTTCAGCCCAACACAGTGAA
CACTTTGGCCTGCCCGCTCCTCTCCAACCTGGCGACCCGACTCTGGCTACGCAACGGGGCCCCCGTCAAT
GCCTCGGCCTCCTGCCAGTGTACCCACTGGGGACCTGCTGCTGGTGGGCACCCAAACAGCTGGGGGAGT
TCCAGTGTGGTCACTAGAGGAGGGCTTCCAGCAGCTGGTAGCCAGTACTGCCAGAGGTGGTGGAGGA
CGGGGTGGCAGACCAAACAGATGAGGGTGGCAGTGTACCCGTATTATCAGCACATCGCGTGTGAGTGCA
CCAGCTGGTGGCAAGGCCAGTGGGGTGCAGACAGGTCCTACTGGAAGGAGTTCCTGGTGTGTGCACGC
TCTTTGTGCTGGCCGTGCTGCTCCAGTTTTATTCTTGTCTACCCGGCACCGGAACAGCATGAAAGTCTT
CCTGAAGCAGGGGAATGTGCCAGCGTGCACCCAAAGACCTGCCCTGTGGTGTGCCCTGAGACCCGC
CCACTCAACGGCCTAGGGCCCCTAGCACCCCGCTCGATACCCGAGGGTACCAGTCCCTGTCAGACAGCC
CCCCGGGTCCCAGTCTTCACTGAGTCAGAGAAGAGGCCACTCAGCATCCAAGACAGCTTCGTGGAGGT
ATCCCCAGTGTGCCCCGGCCCCGGTCCGCCTTGCTCGGAGATCCGTGACTCTGTGGTGTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_020210 unedited</p> <p>TGGCAAGGGGGACGAGTCAGTGGACACTCCAGGAAGAGCGGCCCCCGGGGGGCGATGAC CGTGCGCTGACCCCTGACTCACTCCAGGTCCGGAGGCGGGGGCCCCCGGGGCGACTCGGGG GCGGACCCGCGGGGCGGAGCTGCCGCCGTGAGTCCGGCCGAGCCACTGAGCCCCGAGCCG CGGGACACCGTCGCTCCTGCTCTCCGAATGCTGCGCACCCGATGGGCCTGAGGAGCTGG CTCGCCGCCCATGGGGCGCGCTGCCGCCCTCGGCCACCCGCTGCTGCTCCTGCTGCTG CTGCTCCTGCTGCAGCCGCCCTCCGACCTGGGCGCTCAGCCCCGGATCAGCCTGCCT CTGGGCTCTGAAGAGCGGCCATTCTCAGATTCTGAAGCTGAACACATCTCCAACACACA GCCCTTCTGCTGAGCAGNGGATGGCAGGACCCTGGTACGTGGGTGGCTCGAGAGGCCCTC TTTGCACTCAGTAGCAACCTCAGCTTCTGCCAGGCGGGGAGTACCAGGAGAACATGGA GAACCTCACCTGGCAGGGACGAGAGGGGGGAATGTCCTCCTGGAGATGGGAAGNNCC GTTGTCCCTTCGACCCGAATTTCACTCCCTGCCCTGGNGGNTGATGGCGAGCTACAC TGGNACAGTCAGCAGCTCCAAGGAATGACCCCGCTNNTGCGGAGCCAAAGCTTCGCC CACAAGACCAGAGCTCCTAACGGGCTGAGACCCACTTTTTGTGGCCCAACCTACATTCT GAAGACTGGGCACTTGCAGGCCATGATGACAAATT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_020210 unedited</p> <p>NAAATCTNTGNNACCGCGCCGAATCTAGNATCGCGTTTTTTTTTTTTTTTTTTTTAAACA GTAATTTCTACTTTTATTAATAAATGACATAAAGTGCATCTTATTAATAAATATATAA AAACCACATAAATTCAGGGCCCTGTGCTGGGCAGTGTTGATATCCCTTAGAGTGGAGGA AGGTGAGGGATGGAGGTGAACGGGGACTGGGGAGAGGACCAGGGTGCAGTTAGTTCTCT CGTGTGTTGAGTTCAAAGATGGAGCGAGGGTGGATATGGTGGGAAGGGGCACACGGTTCT CACGCAACAACGAGGAAGGCAGGCGACAGTCTTCCCTGAATTCTGAGGGAAACGCGT ACATTGTCCCGAAATCTCTCTGAGCTCGCGCTGTCTCTCGTGTGGCCACAGCCTGATA CAGGCTGGAAGGTCCAGGAGTTGGGTCCGAGCCAGGACCTGGTGGGGCCGCGACTCC AACCTAGCCCTCTGGTCCCTGAGGTGGTGGGACGACGGCAACAACACTACATCCTCGGC TGACTGGCAAGGCAGAACGCACGACGCCAAGCTGGTCTGAATCTGCAGTGAGACAGGG CACCCGGTGGCAGCGGATAATGTGAAGGTGAAGAGGCCAGTTGGTGGGGTTTCCAAC TCTGTCTCAGACACCCCTTTGGATGCATCCCCAGCACCCCTGGGAAGCCTGAACTGGAGCA CCCGGGAGCTGATGCCATGCTATCCCTTCCTTTAATCCAATTTCCATCTGAAATGCTTC CTCACCACGGCCTCCCTTACATACGAATATTGTTCTACAACCTCGCTGCCCCCTACTT CTTTACCTTCTGGCCATTTTCTGATTCCCGTCCCCCGCCTTNTCCCTTCTTC CCCTTTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_020210
Insert Size:	4000 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:	NM_020210.2 , NP_064595.2
RefSeq Size:	3843 bp
RefSeq ORF:	2514 bp
Locus ID:	10509
UniProt ID:	Q9NPR2
Cytogenetics:	15q26.1
Protein Families:	Transmembrane
Protein Pathways:	Axon guidance
Gene Summary:	<p>Inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 are predicted to encode the same protein which is annotated as the largest open reading frame. Translation may initiate at either of the first two AUG sites. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>