

## Product datasheet for **MC221863**

### Sema4b (NM\_013659) Mouse Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Sema4b (NM_013659) Mouse Untagged Clone |
| Tag:                      | Tag Free                                |
| Symbol:                   | Sema4b                                  |
| Synonyms:                 | mKIAA1745; Semac; SemC                  |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**Fully Sequenced ORF:** >MC221863 representing NM\_013659  
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCCGGGCGAGCCGCTCCGCTGTCTGCGGCGCGCTGCTGCTGCTGCTACTGCTGCTGCTGC  
 GGACGACGACTACGCGGGCGCTCGGCCCCCGGATCAGTGTGCCGCTGGGCTCTGAAGAAAGGCTGATTAG  
 AAAATTTGAAGCTGAAAACATCTCCAACACACGCGCCCTTCTGCTGAGCCAGGATGGCAAGACGCTGTAT  
 GTGGGGGCCCGAGAGGCCCTCTTTGCACTTAACAGCAACCTCAGCTTCTTGCCAGGCGGGGAGTACCAAG  
 AGCTGCTGTGGAGTGCAGATGCTGACAGGAAGCAGCAGTGCAGCTTCAAGGGCAAGGACCCAAAGCGTGA  
 CTGTCAAAACTACATCAAGATCCTCCTGCCACTCAACAGCAGCCACCTGCTCACCTGTGGCACGGCCGCC  
 TTCAGCCCCCTGTGTCTTACATTACATAGCGAGCTTTACTTTAGCCCAAGATGAGGCCGGAATGTCA  
 TTCTGGAGGATGGCAAGGGTCGTTGTCCCTTTGACCCCAACTTCAAGTCCACGGCTCTGGTGGTTGATGG  
 TGAGCTGTACACTGGAACAGTCACTAGCTTCCAGGGAAACGACCCAGCCATTTCCCGGAGCCAGAGTTCC  
 CGCCCCACCAAGACTGAGAGCTCCCTCAACTGGCTACAAGACCCTGCCTTTGTGGCTCGGCCTAGTCC  
 CCGAGAGCCTGGGCGAGCCCATAGGTGATGATGATAAGATCTACTTCTTCTCAGCGAGACGGGCCAGGA  
 GTTTGAGTTCTTTGAGAACACCATCGTGTCCCGAGTTGCCGAGTCTGTAAGGGCGATGAGGGTGGAGAG  
 CGGGTGTTCAGCAACGCTGGACCTCCTTTCTCAAGGCTCAGCTCCTGTGCTCCCGCCTGATGATGGCT  
 TTCCCTTTAACGTGCTACAAGATGTCTTACCCTGAACCCCAACCTCAGGATTGGCGCAAGACCCTTTT  
 CTATGGGTCTTTACCTCCAGTGGCACAGAGGGACCACAGAAGGCTCTGCCATCTGCGTCTTACCATG  
 AATGATGTGCAGAAGGCCTTTGACGGCTGTACAAGAAAGTAAACAGAGAGACACAGCAGTGGTATACCC  
 AGACCCACAGGTGCCACACCCGCGGGGAGCGTGCATTACCAACAGTCCCGGGAACGGAAGATCAA  
 CTCGTCCCTGCAGCTCCAGACCGAGTGCCTGAACCTTCTCAAGGATCACTTCTTGATGGATGGGCGAGTC  
 CGCAGTCGCTGTGCTGCTGCAGCCAGACCCGCTACACGCTGTGGCTGTGCACCGTGTGCCTGGCC  
 TGCACAGCACTTATGATGCTCTATTTCTGGGCACTGGTGTGGCCGCTGCACAAAGCAGTGACCCTGAG  
 CTCCAGAGTCCACATCATTGAGGAGCTGCAGATCTTCCCTCAAGGACAGCCTGTGCAGAACCTGCTCTTG  
 GACAGCCATGGGGACTGTTGTATGCCTCCTCCATTCCGGGGTGGTGAAGTGGCCGTAGCCAACCTGCA  
 GCCTGTACCAACCTGTGGAGACTGCCTCCTGGCTCGAGACCCCTACTGCGCCTGGACTGGCTCTGCCTG  
 CAGGCTCGCTAGCCTCTACCAGCCTGATCTGGCCTCCAGGCCATGGACCCAGGACATTGAGGGTGCAGT  
 GTCAAGGAACCTGCAAGAATTCCTCATACAAGGCCCGGTTTCTTGTGCCAGGTAAGCCATGTAACAAG  
 TCAGATCCAACCAACACAGTGAACACCTGGCCTGCCACTCCTCTCAAACCTGGCCACTCGGCTCTG  
 GGTGCACAATGGAGCCCCAGTCAATGCCTCTGCCTCCTGCCGCTGTTACCCACCGGGGACCTGTGCTG  
 GTGGGCGAGCCAGCAGGGTTTGGGGGTGTTCCAGTGTGGTTCGATAGAAGAAGGATTCCAGCAGCTTGTGG  
 CCAGCTACTGCCAGAGGTGATGGAGGAGGGGGTAAATGGACAAAAGAACCAGCGTGATGGTACCCAGT  
 CATTATCAACACATCACGAGTGAAGTGCACCGGCTGGTGGCAGGGCCAGCTGGGGTGGGACAAGTCTAC  
 TGGAAATGAATTCCTGGTGTGTACTCTGTTTGTGTTGCTATGGTGTCTTTGTTTCTGTTCTTTCTCT  
 ACCGACATCGGGATGGCATGAACTCTTCTAAAGCAGGGCGAATGTGCCAGTGTGCACCCCAAGACTCG  
 CCCTATAGTGCTACCACCTGAGACCCGACCGCTGAATGGTGTGCGCCCTCCTAGCACCCCAAGACTGACC  
 CGAGGCTACCAGGCTCTGTCGGATAGCTCCCGAGGGCCAGAGTCTTCACTGAATCAGAGAAGAGGCCAC  
 TGAGCATCCAGGACAGCTTTGTAGAGGTGTCTCCCGTGTGTCGCCGCCCCGAGTTCGACTGGGCTCTGA  
 GATCCGAGACTCTGTGGTATGA

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_013659  
**Insert Size:** 2472 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | 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).   |
| <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_013659.4</a> , <a href="#">NP_038687.2</a>  |
| <b>RefSeq Size:</b>           | 3946 bp  |
| <b>RefSeq ORF:</b>            | 2472 bp  |
| <b>Locus ID:</b>              | 20352  |
| <b>UniProt ID:</b>            | <a href="#">Q62179</a>   |
| <b>Cytogenetics:</b>          | 7 D2   |
| <b>Gene Summary:</b>          | <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 longer transcript. Variants 1 and 2 both encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |