

## Product datasheet for **MC222003**

### Sema4g (NM\_011976) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sema4g (NM_011976) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sema4g
Synonyms:	A1507908; AW554132
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC222003 representing NM\_011976  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGGGGAGGCTCTGGCCCTCTCTCAGCTTTCTCACAGTAACAGCAGTGCCTGGACCCTCACTGC  
 GGAGACCATCCCGAGAGCTAGATGCCACCCACGGCTGACCATCTCCTATGAAGAGCTCTCCAGATTCCG  
 GCACTTCAAGGGCCAAACCCAGAATAATCAACTGCTGCTGGAGGAGGCTTCTGAGAGGCTGCTGGTG  
 GGGGCTCGAGGCGCCCTGTTCTCTCAGTGCCCGTGACATAAGAGATAGGACTCACAAAGAGATCCACT  
 GGGAGGCCTCCCGAGAGATGCAAAGCAAGTGTCATCAGAAAGGGAAAAACAACCAGACCGAGTGTTCAA  
 CCACGTGCGATTCTACAGCGGCTCAATGCCACCCACTTCTATGCATGTGGGACCCACGCTTCCAGCCC  
 CTCTGTGCAGCTATTGATGCTGAAACCTTCATCTTGCTACTAGTTTCGAGGAGGAAAGGAGAAATGTC  
 CTTATGACCCGGCCCGGGCTTACAGGCCTTATCATTGATGGAGGCTCTACACAGCCACCCGGTATGA  
 ATTCGGAGCATTCTGATATCCGCCGGAGCCGCCACCCACACTCTCTGAGAAGTGGAGGACCCCATG  
 CACTGGCTCAATGATGCTGAGTTTGTGTTCTGTGCTGGTGCGGGAGAGCAAGACAAGCGCAGTGGGTG  
 ATGATGACAAGATTTATTTCTTCTTCATGGAGCGTGAGGAAGGCTCCAGCAGTTTACACAGAGTGCAG  
 CAGCCACCGTGTGGCTAGAGTAGCCGTGTGTGCAAGGGAGATCTGGGAGGGAAGAAGATCCTACAGAAG  
 AAGTGGACATCCTTCTGAAGGCTCGTCTCATCTGCCACATCCCACAGTATGAGACACTACGTGGGTCT  
 GCAGCCTGAATGCTGATACATCATCCACACACATTTCTATGCCGTCTTACACTGACAACACAGTGAA  
 GACGCTGGAGGCTTACAGCATCTGCCGCTATGACCTGGCTGAGATTACAGGCTGTCTTACAGGCCCTTT  
 ATGGAGTACCAGGATGGTGCCCGGCTGGGGCCGCTATGAGGGTGGGTGCCTGAACCCCGGCTGGCT  
 CGTGATCACAGATTCATTGCGCAGCCGAGGCTACAACATCATCCAAGACTTGCATCCTTGGTTCTGGA  
 CTTTGTGAAGTTGCATCCCTGATGGCTCGGCCTGTGGTGCCACACAGTGGGCGGCCCTTGTCTGGAAG  
 CGCAATGTACGCTACACACATCTCACAGGAACACAGTACACACCTGTGGACCCACCTATGACCTGC  
 TCTTTCTGGGCACAGCTGATGGCTGGATCCACAAGGCCGTAGTCTGGGCTCTGGGATGCACATAATTGA  
 AGAGATAACAAGTGTTCAGGGAGCCCGAGTCTGTGGACAATCTAGTTATCTACCAATGCAGCACAGCCTC  
 TACGTGGGGGCTGCAAGTGGAGTCTCCAGTTTCTCTGTCCAGCTGCTCAGCTACCAGTCTGTATG  
 ACTGCATCCTGGCACGGGACCCCTACTGTGGCTGGGACTCCAGCATCCATGCCTGCATGGTGGCCACCAC  
 CGTAGCCAACAGGACAGAATTGATACAGGACATAGAGAGAGGAAATCGAGGCTGTGAGGGCAGCAGGGAT  
 GCAGGACCACCACCACCTCAAGACCCGATCTGTGCTCCGGGTGATGATGTCTCCTGCCCTGTGACC  
 AGCCGTCTAACCTGGCCCGGCTTTGTGGCTACTCAATGGGAGCAAGAGCCTGAGCGATGGCAGGATGG  
 CTACCCGCTGGGAGTGGATGGGCTGTGGTAACTGACACACAACCTGGAGCACAGTGGCAACTATGGCTGC  
 TATGCCGAGGAGAATGGCTCCGTATGCTGCTGGCGTCTACAGCCTCACAGTCCGGCCAGCCACCCCTG  
 CTCCAGCTCCACAAGCCCTGCCACACCTGGGGCAGAGTGGCACATGACATGAGGATGTCTATGTGGT  
 AGCCATTGCTATACTTGGTGGCTCTGCCTCATCTTGGCATCTTCCCTCCTCTATGTGGCTGTCTGAAG  
 GGAGGCAGACGAGGTGGAAGACGAAAATACTCATTGGGTGGGCTGGCCGGGAGGGGCTCGGCCGTGC  
 AGCTGCAGACTGTCTCAGGCCAGTGTCTGGAGAGGAAGATGAAGGTGATGATGGAGAAGGAACTGGGG  
 TCTGGAGAGTGGCTGCCTCCAGATCATTCCGGGGAAGGAGCCCAAGCCACCCACCCCAACCCCA  
 CCCCCACCCGCTGAGCTGACCAATGGGCTGGTGGCACTGCCAGCCGGCTGCGAAGGATGAATGGCAACA  
 GTTATGTGCTCCTGAGGCAGAGCAACAATGGAGTGCCAGCAGGACCCTGTCTTTGAGAGGAGCTCAG  
 CCGCATCTGGAGAAGAGGAAGCACACACAGCTTGTAGAGCAACTAGACGAGAGCTCTGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_011976  
**Insert Size:** 2514 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<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_011976.1</a> , <a href="#">NP_036106.1</a>
<b>RefSeq Size:</b>	4310 bp
<b>RefSeq ORF:</b>	2514 bp
<b>Locus ID:</b>	26456
<b>UniProt ID:</b>	<a href="#">Q9WUH7</a>
<b>Cytogenetics:</b>	19 C3
<b>Gene Summary:</b>	Cell surface receptor for PLXNB2. May play a role in axon guidance.[UniProtKB/Swiss-Prot Function]