

## Product datasheet for **SC307813**

### SEMA4B (NM\_198925) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA4B (NM_198925) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA4B
Synonyms:	SEMAC; SemC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC307813 representing NM\_198925.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
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GGCTCGGAGATCCGTGACTCTGTGGTGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
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**Restriction Sites:** SgfI-MluI  
**Plasmid Map:** □  
**ACCN:** NM\_198925  
**Insert Size:** 2514 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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_198925.2</a></u>
<b>RefSeq Size:</b>	3780 bp
<b>RefSeq ORF:</b>	2514 bp
<b>Locus ID:</b>	10509
<b>UniProt ID:</b>	<u><a href="#">Q9NPR2</a></u>
<b>Cytogenetics:</b>	15q26.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Axon guidance
<b>MW:</b>	92.8 kDa
<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 (2) represents an alternate 5' UTR and transcription from an alternate promoter compared to variant 1. 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>