

## Product datasheet for **SC331476**

### **SEMA4G (NM\_001203244) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SEMA4G (NM_001203244) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA4G
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC331476 representing NM\_001203244.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGTGGGGGAGGCTCTGGCCCTCCTCCTCAGCATCCTCACAGCAACTGCAGTCCCAGGACCCTCACTG
CGGAGACCGTCTAGAGAACTAGATGCCACCCTCGGATGACCATACCCTATGAAGAGCTCTCTGGGACC
CGGCACCTCAAGGGCCAAGCCCAGAACTACTCAACTGCTGCTGGAGGAGCCCTCAGCAAGGCTGCTG
GTGGGAGCCCGAGGTGCCCTGTTCTCTCAGTGCCAACGACATAGGAGATGGGGCTCACAAAGAGATC
CACTGGGAAGCCTCCCCAGAGATGCAAAGCAAATGTCATCAAAAAGGGAAAAACAACCAGACGGAGTGC
TTTAACCATGTGCGGTTCTGCAGCGGCTCAATTCTACCCACCTCTATGCATGTGGGACTCACGCCCTC
CAGCCCTCTGTGCAGCCATTGATGCTGAGGCCTCACCTTGCCAACCAGCTTCGAGGAGGGGAAGGAG
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AGGTATGAATCCGGAGCATTCTGACATCCGCCGAGCCGCCACCCACACTCCCTGAGAACTGAGGAG
ACACCAATGCATTGGCTCAATGATGCGGAGTTTGTGTTCTCCGCTCTCGTGGGAGAGCAAGGCCAGT
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TTCACTCAGAGCCGACGAGTACCGTGTGGCCGTGTGGCTCGTGTCTGCAAGGGAGACCTGGGAGGG
AAGAAGATCCTGCAGAAGAAGTGGACTTCTTCTGAAAGCCCGTCTATCTGCCACATCCACTGTAT
GAGACTGCGTGGGGTCTGCAGCCTGGATGCTGAAACCTCAAGCCGTACACACTTCTATGCAGCCTTC
ACGCTGAGCACACAGTGGAGACCCTGGAGGCCTCAGCCATCTGCCGCTATGACCTGGCAGAGATCCAG
GCTGTCTTTGAGGACCCTATATGGAATACCAGGATGGTTCGCCGCGCTGGGGTCCGATAGAGGGTGGG
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GACTTGCCATCCCTGGTCTGGACTTTGTAAGTTGCACCCACTGATGGCTCGGCCCGTTGTGCCACA
CGTGGACGGCCCTGCTGCTCAAGCGCAACATACGCTACACACACCTTACAGGGACACCTGTCACCAGC
CTGCTGGACTACCTATGACCTGCTTTTCTGGGCACAGTGTGGCTGGATCCACAAGGCCGTAGTC
CTGGGCTCTGGGATGCACATTATTGAAGAGACACAAGTGTTCAGGGAGTCCCAGTCTGTGAAAAATCTA
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CAGGACATAGAGAGAGGAAATCGAGGCTGTGAGAGCAGCAGGGATACAGGACAGGGCTCTGCAGGTCCAT
ATGGGCTCAATGCACCACCCTGCTATGGCCCTGTGTGCTGGATGGTCTGAAACCAGACAAGACCTC
TGCCAGCCACCTAAGCCCTGCGTACATTACATGCACACATGGAAGAATGTTTATCGGCTGGGCTGCAG
TGCCCCACCCTCACCTTCTCCTGGTGCATTCTGTTTATCCCTGCTTCTGGACTTGGGGTACCCTCC
CAATTGCCACATCCTATCTGGTCTCTTCCCAGCCCATGTGGTGACCTCTTTGTCAAGAGCTTGGGA
ACGGGCCAGCCTGGGAGGTAAGACTGCATCACTCCCCTCCTCTCCCTTCTGTGTGGCCCTTGTGAAT
CAGCCTCCCCTCTCCTTGGTCAATTCTCAAGAGTATGA
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001203244

**Insert Size:** 2109 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:**

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\\_001203244.1](#)

**RefSeq Size:** 3230 bp

**RefSeq ORF:** 2109 bp

**Locus ID:** 57715

**UniProt ID:** [Q9NTN9](#)

**Cytogenetics:** 10q24.31

**Protein Families:** Transmembrane

**Protein Pathways:** Axon guidance

**MW:** 77.6 kDa

**Gene Summary:** Semaphorins are a large family of conserved secreted and membrane associated proteins which possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Based on sequence and structural similarities, semaphorins are put into eight classes: invertebrates contain classes 1 and 2, viruses have class V, and vertebrates contain classes 3-7. Semaphorins serve as axon guidance ligands via multimeric receptor complexes, some (if not all) containing plexin proteins. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2011]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. It encodes isoform 2, which has a shorter and distinct C-terminus, compared to isoform 1.