

## Product datasheet for **SC318328**

### **SEMA4G (NM\_017893) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SEMA4G (NM_017893) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA4G
Vector:	<u><a href="#">pCMV6 series</a></u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_017893, the custom clone sequence may differ by one or more nucleotides

```

ATGTGGGGGAGGCTCTGGCCCCTCCTCCTCAGCATCCTCACAGCAACTGCAGTCCCAGGA
CCCTCACTGCGGAGACCGTCTAGAGAACTAGATGCCACCCTCGGATGACCATACCCTAT
GAAGAGCTCTCTGGGACCCGGCACTTCAAGGGCCAAGCCAGAACTACTCAACTGTCTG
CTGGAGGAGGCCCTCAGCAAGGCTGTGGTGGGAGCCGAGGTGCCCTGTTCTCTCTCAGT
GCCAAGCATAGGAGATGGGGCTCACAAGAGATCCACTGGGAAGCCTCCCAGAGATG
CAAAGCAAATGTATCAAAAAGGGAAAAACAACCAGACGGAGTGTCTTAACCATGTGCGG
TTCTGCAGCGGCTCAATTCTACCCACCTCTATGCATGTGGGACTCACGCCTTCCAGCC
CTCTGTGCAGCCATTGATGCTGAGGCCTTACCTTGCCAACCAGCTTCGAGGAGGGGAAG
GAGAAGTGTCTTATGACCCAGCCCGTGGCTTACAGGCCTCATCATTGATGGAGGCCTC
TACACAGCCACTAGGTATGAATTCGGAGCATTCTGACATCCGCCGGAGCCGCCACCCA
CACTCCCTGAGAAGTGGAGACACCAATGCATTGGCTCAATGATGCGGAGTTTGTGTTT
TCCGCTCTCGTGGGGAGAGCAAGGCCAGTGCAGTGGGTGATGATGACAAGGTGTACTAC
TTCTTACGGAGCGTGCCACTGAGGAGGGCTCTGGCAGCTTCACTCAGAGCCGCAGCAGT
CACCGTGTGGCCGTGTGGCTCGTGTCTGCAAGGGAGACCTGGGAGGGAAGAAGATCCTG
CAGAAGAAGTGGACTTCTTCTGAAAGCCCGTCTCATCTGCCACATTCCACTGTATGAG
ACACTGCGTGGGGTCTGCAGCCTGGATGCTGAAACCTCAAGCCGTACACACTTCTATGCA
GCCTTACCGTGAACACAGTGGAAAGACCCTGGAGGCCCTCAGCCATCTGCCGCTATGAC
CTGGCAGAGATCCAGGCTGTCTTTGAGGACCCTATATGGAATACCAGGATGGTTCCCGG
CGCTGGGGTGCATGAGGGTGGGGTGCCTGAGCCCCGGCCTGGCTCGTGTATCACAGAT
TCATTGCGCAGCAAGGCTACAATTCATCCAAGACTTGCCATCCCTGGTCTGGACTTT
GTAAAGTTGCACCCACTGATGGCTCGGCCGTTGTGCCACACGTGGACGGCCCCCTGTG
CTCAAGCGCAACATACGCTACACACACCTTACAGGGACACCTGTACCACGCCTGTGGA
CCTACCTATGACCTGCTCTTTCTGGGCACAGCTGATGGCTGGATCCACAAGGCCGTAGTC
CTGGGCTCTGGGATGCACATTATTGAAGAGACACAAGTGTTCAGGGAGTCCCAGTCTGTG
GAAAATCTAGTCATCTCTCTATTGCAGCACAGCCTCTATGTGGGGCTCTAGCGGAGTC
ATCCAGCTACCACTCTCCAGCTGCTCCCGTACCGATCCTGCTATGACTGCATCTGGCC
CGAGACCCCTACTGTGGCTGGGACCCTGGCACCCATGCCTGCGCAGCAGCCACCACCATA
GCCAACAGGTCCCAGGGAAGCAGGACAGCACTGATACAGGACATAGAGAGAGGAAATCGA
GGCTGTGAGAGCAGCAGGATACAGGGCCACCACCACCTGAAGACCCGCTCTGTGCTC
CGGGGTGATGATGTCCTCCTGCCCTGTGACCAGCCATCCAACCTGGCCCCGGCCTTGTGG
CTACTCAATGGGAGCATGGGCCTGAGCGATGGGCAGGGTGGCTACCGTGTGGCGTGGAC
GGGCTGTGGTTACAGATGCACAGCCTGAGCACAGTGGCAACTATGGCTGCTATGCCGAG
GAAAATGGCCTCCGCACCCTGTGGCCTCTATAGTCTCACAGTCCGGCCAGCCACTCCT
GCCCCAGCTCCAAAAGCCCTGCCACACCTGGGGCACAGCTGGCACCTGATGTGAGACTG
CTCTATGTGCTAGCCATTGCCCGCTTGGTGGCCTCTGCCTATCCTGGCCTCCTCCCTC
CTGATGTGGCCTGTCTCGGGAAGGCAGACGAGGGCGCCGACGGAATACTCACTGGGT
CGGGCCAGCCGGCAGGAGGATCTGCGGTGCAACTGCAGACAGTCTCAGGCCAGTGTCTC
GGAGAGGAAGATGAGGGTATGATGAGGGGGCTGGGGCCTGGAGGGCAGCTGTCTCCAG
ATCATCCCTGGGAGGGAGCCCCAGCCCCACCACCCACCACCCGCCACCCGGCT
GAGCTGACCAATGGCTTGGTGGCACTGCCAGCCGGCTGCGGAGGATGAATGGCAATAGC
TATGTGCTTCTGAGGCAGAGCAACAATGGAGTACCAGCAGGGCCCTGCTCCTTCGCCGAG
GAACTCAGCCGCATCCTGGAAAAAGGAAGCACACGCAGCTCGTGGAGCAGCTAGATGAG
AGCTCTGTC

```

**Restriction Sites:** Please inquire

**ACCN:** NM\_017893

<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_017893.2</a></u> , <u><a href="#">NP_060363.2</a></u>
<b>RefSeq Size:</b>	4400 bp
<b>RefSeq ORF:</b>	2532 bp
<b>Locus ID:</b>	57715
<b>UniProt ID:</b>	<u><a href="#">Q9NTN9</a></u>
<b>Cytogenetics:</b>	10q24.31
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Axon guidance
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>