

## Product datasheet for **SC109102**

### SEMA6C (NM\_030913) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA6C (NM_030913) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA6C
Synonyms:	m-SemaY; m-SemaY2; SEMAY
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_030913, the custom clone sequence may differ by one or more nucleotides

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ATGCCCGTGCCCCCACTTCATGCCCTTGCTGCTACTGCTGCTGCTGCTCCTCACTTCCCATACTCAGG
CCGCCTTTCAGGACCCCTCCCTCTGTTGATCTCTGACCTCAAGGTAATCCCATATCCTGGTT
TCGGGCTGGAGGATGATGCTGTGGCTGCAGAACTTGGGCTGGACTTTCAGAGATTCTGACCTTGAAC
CGGACCTTGTAGTGGCTGCCCGGATCACGTTTTCTCCTTCGATCTCAAGCCGAAGAAGGGGAGG
GGCTGGTGCCCAACAAGTATCTAACATGGAGAAGCAAGATGTGGAGAAGTGTGCTGTACGGGAAAGCT
GACGGATGAGTGTACAATAATTCGTGTTCTTGTCCCTGGGACTCCCAGACGCTCCTTGCTGTGGA
ACGAACTCATTACGCCCTGTGTGCCGAGTATGGGATAACTTCGCTGCAGCAGGAGGGTGAAGAACTGA
GTGGGCAGGCTCGATGCCCTTTGATGCCACCCAGTCCAACGTGGCCATCTTTCAGAGGGCAGCCTGTA
CTCAGCCACAGCTGCGGATTTCCAGGCCAGTGTGCTGTAGTTTACAGAAGCCTTGGGCCCCAGCCCCA
CTCCGCTCCGCCAAGTACTCCAAGTGGCTCCGAGAGCCACACTTTGTCAGGCCCTTGGAGCATGGAG
ACCATGTCTACTTCTTCCGCGAGGTCTCTGTGGAGGATGCTCGGCTGGGAGGGTGCAGTTCTCCCG
CGTAGCCCGAGTATGTAACGTGACATGGGCGGCTCGCCTCGGGCTTGGACCGCCACTGGACATCCTTC
CTGAAGCTTCGGCTCAACTGCTCTGTCCCTGGGACTCTACTTTCTATTTTATGATGTTTTACAGGCCCTTGA
CTGGGCTGTGAACCTGCATGGCCGCTCTGCTCTCTTGGGGTCTTACCACCCAGACCAATAGCATCCC
TGGCTCTGCCGTCTGCGCCTTCTACCTGGATGAGATTGAGCGTGGGTTTGAAGGCAAGTTCAAGGAGCAG
AGGAGTCTGGATGGGGCTGGACTCCTGTGTCTGAGGACAGAGTCCCTCACCCAGGCCAGGATCCTGTG
CAGGAGTAGGGGAGCTGCCTTGTCTCCTCTTCCCGAGACCTCCCTGATGATGCTCCTGACCTTCATCAA
GGCTCACCCGCTGCTGGACCCGCTGTACCACCTGTACCCATCAGCCTCTACTACTCTCACTAGCAGG
GCCCTACTGACCAAGTAGCTGTGGATGGCATGGTCCCCACAGTAAACATCACAGTATGTTCTTGTG
GCTCCAATGATGGGACAGTGTGAAGGTGCTGACCCAGGTGGGCGATCCGGGGGACCTGAGCCCATCCT
CCTGGAAGAGATTGATGCCTACAGCCCTGCCCGTGCAGTGGGAAGCGGACAGCCAAACAGCACGACGG
ATCATAGGGCTGGAGCTGGACACTGAGGGTACAGGCTTTTTGTGGCTTTTTCTGGCTGTATTGTCTACC
TCCCTCTCAGCCGGTGTGCCCGCATGGGGCTGTGAGGAGCTGTTGGCTTCTCAGGACCCATACTG
TGGATGGCATAGCTCCAGGGCTGTGTGGATATCAGGGGATCTGGTGGGACTGATGTGGATCAGGCTGGG
AACCAGGAATCCATGGAGCATGGTACTGCAAGATGGAGCTACTGGGAGTCACTGAGCTGAGCCCTGGGATT
CTGCTTATGGCGTGGCCGGGACCTGCCCCAGCCTCGGCTCCCGCTCCGTCCCATCCCCTCCTCCT
GGCCAGTGTGGCCGAGCTTTTGCCTGGGCGCCTCAGTCTCTGGCTCCTGGTCTCCTGTGCTTGTGCG
CGCGCCACCGACGTCCGGGCAAGGACATCGAGACTCCGGGGCTCCCGCGCCTCTCCTCCTCCGAGTT
TGGCCCGGCTCCACGGTGGGGGCCAGAGCCCCCGCCGCTCCAAGGACGGGGACGCGGTGCAGACGCC
GCAGCTTACACCACCTTCTGCCGCTCCGGAGGGCTGCCCCCGCGGAGCTGGCCTGCCTGCCACC
CCCAGTCCACGCCGGAGCTGCCGGTCAAGCACCTCCGCGCCCGCGGGGACCCCTGGGAGTGAACCCAGA
ACAGGAACAACGCCAAGGAGGGTCCGGGCGCTCACGGGGCGGGCACGCGGGGGGCGGGCCCGGCCCG
CGTGTGGTGGAGCCACCGCCCGCGCTGTCCGGGACAGGCGTGAAGTACCACCTGGAGGAACTG
CTGCGCTACCTGCACGGCCCGCAGCCGCCAGAAAGGGGGCCAGCCCCCGCCCTTAACTCGCGGG
CGCTCCCGCCGAGCCCCCGCCCTTTGGGCGGCCAGCCCCAGGCCACGAGTGCAGTCCGCTCGCC
GCTGAGGCTGGAGTGCCTCCGAGGGCAGGTGCGCCTCTGCCCGCCCGGGCCCGCTCTCCGCCCC
GCTCCCGGCTGGGCTGCGGAGGCGGAGGTTGCCTTTCTCCGGCCACCGGGCCCCCTGCCTGC
TCACTCGAGTCCCTCGGGAGGTCCTCCAGTACTCCGGGGTCCCGGGAAGCACCTCCTGTACCTGGG
CCGGCCCCGAGGGTACCGGGGCCGCGCCTGAAAAGGGTGGAGCTCGAGAAGCCCGAGTTGTCCCTGAAG
CCTCCCTCGTGGGCCCTCCTCCGCCAGGCCGTCGGAACGGCGGCCGTTCACTTTTAA
```

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_030913 unedited  
 CCCCCATTACCCCGCCCGTTGCCGAAAGGGCGGTAGGCGTGTACGGTGGGCAGGTCT  
 ATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAG  
 CGGCCCGGAATTCGGCACGAGGTGGACTTGGACCCAGGGCTCTCCCGACAGCGCCCTGGA  
 ACCCAAATTCAGCACCATCCAATTCGGACGCTCATCGCATCTCGCTGAGCACAACCAC  
 GGATTGCGAACTCAGCGCAGCGCTGGCCGCTGGCCGCCCGGGCGATCTCGATCCCGCT  
 GACCCGAATCCTGGAGTCAGAGGTTTCTATCCCCCTCAAGCCCCACAGGAGTACCAA  
 CCCAGGGCCGGCTTATGGGTGAGGGGGCACCCCTGGGGCTGAGCTGCCCGCACAGGA  
 TGCCCCGTGCCCCCACTTCATGCCCTTGTGCTACTGCTGCTGCTCTCACTTCCCC  
 ATACTCAGGCCGCTTTCCCGAGACCCCTCCCTCTGTTGATCTCTGACCTTCAAGGTA  
 CTTCCCCATTATCCTGGTTTCGGGGCTGGAGGATGATGCTGTGGCTGCAGAACTGGGC  
 TGGACTTTCAGAGATTCTGACCTTGAACCGACCTTGCTAGTGGCTGCCCGGGATCAG  
 TTTTCTCCTTCGATCTTCAAGCCGAAGAAGAGGGGAGGGGGCTGGTGCCCAACAAGTATC  
 TAACATGGAGAAGCAAGATGTGGAAGACTGTGCTGCACGGNGAAAGCTCGGGGATGAGT  
 GCTCCACTATAATCGCGTTCCTTGTCTCCCTGGGACTCCCAGACGCTCCTTGCCTGTGGGA  
 CGAACTCATACCCCTGTGTGCCGAGCTAAGGGGACACCTTCTGCGCAGGAGGGGTGA  
 GGAACCGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_030913 unedited  
 NANNGATCGGTTTTTTTTTTTTTTTTTAAACGTACTGCAGCTTCATTTTATTTCTCAA  
 AAAATCCCTCCGCGCCCATCCATAGACTAGGCCTTTAAGAAAGTCCCTTTACCTCG  
 ATCTGAAACGAGCTCCGAGGGCCTTCCCAGCCTCAACTAACTTTACGGGGTCCCC  
 TGGCCCTGGCTCACCTCGACACCGTTAATTCGCTCGTCTCCTTTAGGAAACCTTTCCAGA  
 CTGCCCCCGGGGGACCGCAGCCATCCCATACCCGGGAGAGCCAGGGCCAGATGAA  
 GGCAGAGAGCGAGGGCGCCAGAGCGAGCCGACCGACTGCCGCCCTCCCCGCCCCGAGTG  
 AAGTCAGGCAGTGGCTGCAGACCGGCTGATTGGGAAGCGGAGGCTCCTACACAGTAGG  
 AGAGGCACGTCCCAGACCAGGAGGGCCGAGGACTCTGGACACAGCGCGCGGCCCGCC  
 CGGGGCACAGTCTTGGGGGAGCCCCGAGGGGCGAGTTAAGGCAGCTTGGCTGGAAGGGA  
 GCGGGGAGTGGGAGTCCGCCAGTCCCCCTGAAATGCTGGCTCACTGAGGAGACGGGCTT  
 CTCACCTCCCACCTTTCTGTGAGGACAGGGGAAAGACAGTCAATAAATAAACCCCGAG  
 CGAAAAAGGGCCTCGGGAGACTCTGGCAGTCGGGAAAGCTGGAAGTGCCGGGCCAGGGGG  
 CGGTGAAAACCTCTGAAGAGCGCCACCTCGGGCCGAATAGGACTCGGCGCTCCCCACG  
 CTGAGGCGCCGGGACCCTCCCTTTAAAATTGAAACGCCCG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_030913

**Insert Size:**

4000 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\\_030913.3](#), [NP\\_112175.2](#)

**RefSeq Size:** 3928 bp

**RefSeq ORF:** 2793 bp

**Locus ID:** 10500

**UniProt ID:** [Q9H3T2](#)

**Cytogenetics:** 1q21.3

**Domains:** Sema

**Protein Pathways:** Axon guidance

**Gene Summary:** This gene encodes a member of the semaphorin family. Semaphorins represent important molecular signals controlling multiple aspects of the cellular response that follows CNS injury, and thus may play an important role in neural regeneration. [provided by RefSeq, May 2010]  
Transcript Variant: This variant (2) lacks an exon in the 3' coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the same N- and C-termini compared to isoform 1. 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.