

## Product datasheet for **SC209755**

### SEMA4A (NM\_022367) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** SEMA4A (NM\_022367) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** SEMA4A  
**Synonyms:** CORD10; RP35; SEMAB; SEMB  
**ACCN:** NM\_022367  
**Insert Size:** 777 bp  
**Insert Sequence:** >SC209755 3'UTR clone of NM\_022367  
The sequence shown below is from the reference sequence of NM\_022367. The complete sequence of this clone may contain minor differences, such as SNPs.  
**Blue**=Stop Codon **Red**=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AACAACTGCCTAGGCACTGAGGTAGCTTAACTCTAGGCACAGGCCGGGGCTGCGGTGCAGGCACCTGG
CCATGCTGGCTGGGCGGCCAAGCACAGCCCTGACTAGGATGACAGCAGCACAAAAGACCACCTTTCTC
CCCTGAGAGGAGCTTCTGCTACTCTGCATCACTGATGACACTCAGCAGGGTGATGCACAGAGTCTGCC
TCCCCTATGGGACTCCCTTCTACCAAGCACATGAGCTCTCTAACAGGGTGGGGGCTACCCCCAGACCTG
CTCCTACACTGATATTGAAGAACCTGGAGAGGATCCTTCAGTTCTGGCCATTCCAGGGACCTCCAGAA
ACACAGTGTTTCAAGAGACCCTAAAAAACCTGCCTGTCCAGGACCCTATGGTAATGAACACCAAACAT
CTAAACAATCATATGCTAACATGCCACTCCTGAAACTCCACTCTGAAGCTGCCGCTTTGGACACCAAC
ACTCCCTTCTCCAGGGTCATGCAGGGATCTGCTCCCTCCTGCTCCCTTACCAGTCGTGCACCGCTGA
CTCCCAGGAAGTCTTTCTGAAGTCTGACCACCTTTCTTCTTGCTTCAGTTGGGGCAGACTCTGATCCC
TTCTGCCCTGGCAGAATGGCAGGGTAATCTGAGCCTTCTCACTCCTTTACCCTAGCTGACCCCTTCA
CCTCTCCCTCCCTTTTCTTTGTTTTGGGATTGAGAAACTGCTTGTCAGAGACTGTTTATTTTTTA
TTAAAAATATAAGGCTTA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).



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|--------------------|--|
| <b>Components:</b> | The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.   |
| <b>RefSeq:</b>     | <a href="#">NM_022367.4</a>  |
| <b>Summary:</b>    | This gene encodes a member of the semaphorin family of soluble and transmembrane proteins. Semaphorins are involved in numerous functions, including axon guidance, morphogenesis, carcinogenesis, and immunomodulation. The encoded protein is a single-pass type I membrane protein containing an immunoglobulin-like C2-type domain, a PSI domain and a sema domain. It inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons. It is an activator of T-cell-mediated immunity and suppresses vascular endothelial growth factor (VEGF)-mediated endothelial cell migration and proliferation in vitro and angiogenesis in vivo. Mutations in this gene are associated with retinal degenerative diseases including retinitis pigmentosa type 35 (RP35) and cone-rod dystrophy type 10 (CORD10). Multiple alternatively spliced transcript variants encoding different isoforms have been identified.[provided by RefSeq, Sep 2010] |
| <b>Locus ID:</b>   | 64218  |
| <b>MW:</b>         | 28.1   |