

## Product datasheet for **SC215714**

### Semaphorin 4D (SEMA4D) (NM\_001142287) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Semaphorin 4D (SEMA4D) (NM_001142287) Human 3' UTR Clone
Symbol:	Semaphorin 4D
Synonyms:	A8; BB18; C9orf164; CD100; coll-4; COLL4; GR3; M-sema-G; SEMA
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001142287
Insert Size:	1645 bp



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**Insert Sequence:** >SC215714 3'UTR clone of NM\_001142287  
 The sequence shown below is from the reference sequence of NM\_001142287. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
TGGGAAAGCTGTAGCAAGGACACCCTGTAGCCACCAGGAAGGAGTCCCTGACACCGACCTCAACCCCAA
CAAGACCCTGCTGCCACTGACCACAGCCACCCCGGAGAAGGCCTGGTCCCCACAACTGTGAAGTGTCT
TTGCCAAGCCTGCTCTGAACACAGCCATTGGGCCACCACCTGATGGGCAGAGGCGGGACAGTGGAGAA
GCCTGGAACCCAAGTGGGCTGTGACAGGAACTAAGACTTAAAAAATTAGGTGCTTACCTGGGACAGTA
AGTTCTGTCTGGCACAAGCAGGTAACCAGGATGGCTAACAGGCTTTGATAGCTGCTCGTGAACCTAAAC
AGCAGGGTGTGTGCAGGTTCTCTCTACGGTCAGGCAGCAGGCTCTGAAGGCTGATCTACACCGTCC
CAGTGACTCCCCTTGACAGAGTGCCCCACCCCTAATAGCCAACAGGGTTAGCATGGCCAGCACAGAT
CGCTGCTTTTATTGATGCAAATCAAGCCTGCTGCTTCTCTCCCTGCAGACTTAGCCAAGGAACTCCAA
GATGCATGACTGGGACAAGAAAAGGTGAGACTCCACATGGAAATGCCTTGCCTAAACCTTGAATGACT
GTGAGATGCGATCTGGGAGTGCATCTGTCAAGTCTTTGTGTTTTCTTCACTAACCTCAGAATACTGGGC
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AACTTGATGCAGAAAGCCAAATAGGTCAATTATGCAAATCTCCTGGTGCCATATTAATTTCTTGACGA
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CCTCTTTCTGGAGCTGGACAAATCTCTACCAGCCTTTGTGTGGGATCAGCATACATCGCCTGCTAATT
CCTTCAGGATCCATCACACAGGTGTCCTGAAGATGCTGGAGACACCCTGGTTGTCTCCACACGTTCCC
CCTCCGCACCCCAAGTCGAGAGGCCAGCTGCCTGTGAGGTGTGTGCTTGCCCATCCAGCCAAGGATGC
CAGTCTTGCTCACGGAACCATCACATACTATAACCTGAAGTTTTCTGTAAAATATCCATCAGCTCAC
TGTGGTCTTGCTTTGGGTGTGGCTTCAACCACTACAACTGATGAGTGAATGCTATGGGCTTTAGGC
TTATATCTTGCTGCTGTTTTCTGTCTCTCTCCTGAAGTCTGGATTTCAAGCACTTTCACACTTAACA
AAATAATTACATACTGAAGTTTTCGTAATGTGGAGTGTCTACTGGGAAATGGAGTTATGAGGATGAA
TTTCTGAGTCTTTCTTTGCTCTGCTGGAATAAATAAGAGTTGTACATTGTTCA
ACGCGTAAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTTTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**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).

**Components:** 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.

**RefSeq:** [NM\\_001142287.2](#)

**Summary:** Cell surface receptor for PLXNB1 and PLXNB2 that plays an important role in cell-cell signaling (PubMed:20877282). Regulates GABAergic synapse development (By similarity). Promotes the development of inhibitory synapses in a PLXNB1-dependent manner (By similarity). Modulates the complexity and arborization of developing neurites in hippocampal neurons by activating PLXNB1 and interaction with PLXNB1 mediates activation of RHOA (PubMed:19788569). Promotes the migration of cerebellar granule cells (PubMed:16055703). Plays a role in the immune system; induces B-cells to aggregate and improves their viability (in vitro) (PubMed:8876214). Induces endothelial cell migration through the activation of PTK2B/PYK2, SRC, and the phosphatidylinositol 3-kinase-AKT pathway (PubMed:16055703). [UniProtKB/Swiss-Prot Function]

**Locus ID:** 10507

**MW:** 60.3