

Product datasheet for **SC214821**

Semaphorin 4D (SEMA4D) (NM_006378) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Semaphorin 4D (SEMA4D) (NM_006378) 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_006378
Insert Size:	1499 bp



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Insert Sequence: >SC214821 3'UTR clone of NM_006378
 The sequence shown below is from the reference sequence of NM_006378. 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
TTCGCTGACTCAGACGCAGATGGAGACTGAGGCCGGCTGTGCATCCCCGCTGGTGCCTCGGCTGCGACG
TGTCAGGCGTGGAGAGTTTTGTGTTTCTCCTGTTTCAGTATCCGAGTCTCGTGCAGTGTGCGTAGGTT
AGCCCGCATCGTGCAGACAACCTCAGTCTCTTGTCTATTTTCTTGGGTTGAGCCTGTGACTTGGTT
TCTCTTTGTCCTTTGGAAAAATGACAAGCATTGCATCCAGTCTTGTGTTCCGAAGTCAGTCGGAGTA
CTTGAAGAAGGCCACGGGCGGCACGGAGTTCTGAGCCCTTCTGTAGTGGGGAAAGGTGGCTGGAC
CTCTGTTGGCTGAGAAGAGCATCCCTTCAGCTTCCCCTCCCCGTAGCAGCCACTAAAAGATTATTTAAT
TCCAGATTGGAATGACATTTTAGTTTATCAGATTGGTAACTTATCGCCTGTTGCCAGATTGCCACGA
ACCTTTTCTTCCACTTAATTATTTTTTTAGGATTTTGCTTTGATTGTGTTTATGTCATGGGTCAATTTT
TTTTAGTTACAGAAGCAGTTGTGTTAATTTAGAGAAGATGTATATCTCCAGATTTTGTATATAT
TTGGCATAAAAATACGGCTTACGTTGCTTAAAGATTCTCAGGGATAAACTTCTTTTTGCTAAATGCATTCT
TTCTGCTTTTAGAAAATGTAGACATAAACTCCCCGGAGCCCACTCACCTTTTTTCTTTTTCTTTTTT
TTTTTAACTTTATTCCTTGAGGGAAGCATTGTTTTGGAGAGATTTCTTTCTGTACTTCGTTTTACT
TTTCTTTTTTTTTAACTTTTACTCTCTCGAAGAAGAGGACCTTCCCACATCCACGAGGTGGGTTTTGAG
CAAGGGAAGGTAGCCTGGATGAGCTGAGTGGAGCCAGGCTGGCCAGAGCTGAGATGGGAGTGGCGTAC
AATCTGGAGCCCACAGCTGTCGGTCAAGACCTCCTGTGAGACAGATGGAACCTTCAACAAGGGCGCCTT
GGTCTCTGAACATCTCCTTTCTTCTTCTTCAATTGCTTACCCACTGCCTGCCAGACTTTCTATC
CAGCCTCACTGAGCTGCCCACTACTGGAAGGGAAGTGGGCTCGGTGGCCGGGGCCGAGCTGTGACC
ACAGCACCTCAAGCATACGGCGCTGTTCTGCCACTGTCTGAAGATGTGAATGGGTGGTACGATTTT
AACACTGGTTAATTTCACTCCATCTCCCCGCTTTGTAATACCCATCGGGAAGAGACTTTTTTTCCA
TGGTGAAGAGCAATAAACTCTGGATGTTTGTGCGCGTGTGTGGACAGTCTTATCTTCCAGCATGATAGG
ATTTGACCATTTTGGTGTAAACATTTGTGTTTTATAAGATTTACCTTGTTTTTATTTTTCTACTTTGAA
TTGTATACATTTGAAAGTACCCAAATAAATGAGAAGCTTCTATCCTTGA
ACGCGTAAGCGGCCGCGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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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 µg dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_006378.4](#)

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:

57.2