

Product datasheet for **MC203244**

Sema3e (NM_011348) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3e (NM_011348) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sema3e
Synonyms:	6430702L12; AA408817; mKIAA0331; Semah
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC057956
 GGCGGCATCCCCGCTGGGTGGATCCCAGCCTCCTGGCGCAAGTGGCACTTCTTGCTTCTAATTATCGAGA
 GGAGAGGCGAATACGAAGTAGCTGCTCGGCAAGTCAGTGCAGGAGGCTGACTTCTGGGAGGCTGGCGGGG
 AGGCTGGGGGAAGAGCTGGGGGAGGCTGCTGCTGCTCGGACTGTTTTCTCAATGAATAGCTGGCGGGG
 AGACTGAAGCTAGCCACAGCCTCCTCCTCACTCCGCGTCTGGGTGACGGCGACAGCACCAGCCGGACCT
 GGCTCTCAAGACGCGCTCCTTGGACGGTCTCTTGTCCGCGCTTCAACCACCGGGCCCAAGGACAGAAA
 GGCTTAGCGGATCCAAATATTGCCCGGCAATGGCACTTGGGAATGGTATTTTCTGATGACAACCCCTTC
 TGTTTGTGACAAAAGCCTGTCGCCCGCAGTTGCCCTGGAGGGAAGTACTAAGTAAAACCTCAATCCTGTCT
 TAAAGTGTGGCTGCAGGGGCCAGAGGAGCCAGCACGCACCATGGCACCGGCCGACACATCCTCACCT
 TGCTGCTCTGGGGTACCTGCTGGAAGTCTGGACCCAGGTCCTCCGGAACCCCTCCTACCCAGGCT
 ACGCTGTACATAAAGAAGTCTTGGAACTGAATAGGACTTCAATATTTCAAAGCCCTTGGATTTCTT
 GATCTCCATACAATGCTGCTGGATGAGTATCAAGAACGGCTCTTGTGGGAGGCAGAGACCTTGTCTATT
 CCCTGAAGTGGAAACGAGTCACTGACGGCTACAGAGAGATATACTGGCCGAGCACAGCAGTAAAGGTAGA
 AGAATGCATAATGAAAGGAAAAGACGCAATGAGTGTGCCAATTATATCCGGGTTTTGCATCACTACAAC
 AGGACACACCTTCTGACCTGTGCTACTGGAGCTTTTGTCCACACTGTGCCTTCATCAGAGTCCGGCACC
 ATTCAGAGGAACCCCTGTTTACCTGGAGTCCACAGATCTGAGAGAGGAAGGGGAGATGTCCTTTTGA
 CCCCACCTCCTCTTGTGTCCACGCTAGTTGGGAATGAGCTGTTTGTGGACTCTACAGTACTATTGG
 GGCAGAGACTCGGCGATCTCCGAGCATGGGGAAGTTAGGCCATATTCGCACTGAGCATGACGATGAGC
 GGCTCCTGAAAGAACCAAAATTTGTAGGTTCAATATGATTCTGATAACGAAGACCGAGATGACAACAA
 AATGTACTTTTTCTTACTGAGAAGGCGCTGGAGGCGGAGAACAACGCCACACGATCTACACCCGAGTG
 GGGCGGCTGTGCGTGAATGACATGGGAGGACAGAGAATCCTGGTGAACAAGTGGAGCACTTTCCTTAAAG
 CGCGGCTGGTTTGTCTCAGTCCCGGAATGAATGGAATCGACACATACTTTGACGAACTAGAGGATGTGTT
 TTTACTGCCGACAGAGATCCTAAGAATCCAGTGATATTTGGACTGTTTAAATACTACCAGCAATATTT
 AGAGGCCATGCTGTATGTGTATCACATGTCAAGTATCCGGGAAGCCTTAAATGGCCCATATGCTCATA
 AAGAAGGCCCTGAATACCACTGGTCACTATATGAAGGAAAAGTCCCTACCCAAGGCCTGGTTCTGTGC
 CAGCAAAGTAAACGAGGCAAGTATGGAACCACCAAGATTACCCGATGACGCCATCCGGTTCCGAAGG
 ATGCATCCTCTAATGTATCAGCCATAAAACCTGTTTCAAAAAACCAATACTGGTAAAAACAGATGGAA
 AATACAACCTGAGGCACTTCCCGTGGATCGGGTGGAAAGCGGAGGATGGCCAGTATGACGCTTATTTAT
 TGGGACAGACACAGGAATTGTGCTGAAAGTAAATCACAATTTACAACCAAGAAACAGAGTGGATGGAGGAA
 GTCATTCTAGAGGAACTTCAAAATTTCAAGGATCCAGCCCTATCATTCTATGGAAATTTCTTCAAAGA
 GACAACAGCTTTACATTGGATCAGCCTCTGCTGTGGCACAAGTCAAGTCCATCACTGCGACATGTATGG
 CAGTGCTTGTGCTGACTGCTGCCTGGCTCGAGACCCGACTGTGCTGGGATGGCATATCCTGCTCCAGG
 TACTACCAACAGGTGCACACGCAAGAGGAGGTTCCGACAGCAGGACGTTCCGGCATGGCAACGCCGCC
 AACAGTGTCTTGGACAGCAATTTGTTGGAGACGCGTTGGACAGGACTGAAGAGAGGCTGGCTTATGGCAT
 AGAGAGCAACAGTACTCTGTTGGAATGCACCCCGCATCACTACAAGCAAAAGTCATCTGGTTTGTACAG
 AAGGGACGCGACGTAAGAAAAGAAGAGGTGAAGACGGATGACAGAGTGTCAAGTGGACTTGGGCTTGC
 TCTTCTCAGAGTACGCAAGTCAAGTGCAGGGACCTATTTTTGCCAGACAGTAGAACAATTTTGTCCA
 TACTGTGCGTAAAATCACCTTGGAGTGGTCAAGAGCATAAAGTGGAGGGCATGTTTATAAAGGACCAT
 GAAGAGGAAAGACATCACAAGATGCCCTGCCCTCCCTAAGCGGTATGTCTCAGGGGACAAAACCGTGGT
 ACAAGGAATCTTGCAGCTGATTGGCTACAGCACTTCCAGAGAGTGGAAAGTACTGCGAAAAGGTGTG
 GTGTACAGATAAGAAGAGGAAAAAGCTTAAATGTCTCCCTCAAAGTGGAAAGTATGCCAACCCCAAGGAA
 AAGAGGCTTCGCTCTAAAGCTGAGCACTTCCGCTGCCAGGCACACGCTGCTCTCTGAGGGCGCCCTC
 TGCCGGCGGCTGAGGAACCTAGGATGGAACATTTTTTTAAAGGGGGTAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
 ACCN: NM_011348
 Insert Size: 2328 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:	<ol style="list-style-type: none">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:	BC057956 , AAH57956
RefSeq Size:	2935 bp
RefSeq ORF:	2328 bp
Locus ID:	20349
UniProt ID:	P70275
Cytogenetics:	5 A1
Gene Summary:	Plays an important role in signaling via the cell surface receptor PLXND1. Mediates reorganization of the actin cytoskeleton, leading to the retraction of cell projections. Promotes focal adhesion disassembly and inhibits adhesion of endothelial cells to the extracellular matrix. Regulates angiogenesis, both during embryogenesis and after birth. Can down-regulate sprouting angiogenesis. Required for normal vascular patterning during embryogenesis. Plays an important role in ensuring the specificity of synapse formation. [UniProtKB/Swiss-Prot Function]