

## Product datasheet for **MC228909**

### Sema3a (NM\_001243073) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3a (NM_001243073) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sema3a
Synonyms:	coll-1; Hsema-l; SEMA1; Semad; SemD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228909 representing NM\_001243073  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTGGTTCCTGCTGTCTTTCTGGGGTGTATTACTTACAGCCAGAGCAAACATATGCAA  
 ACGGAAAGAACAATGTGCCAAGACTGAAATTATCGTACAAAGAAATGTTGGAATCCAACAATGTGATCAC  
 TTTAATGGCTTGGCCAACAGCTCCAGTTACCACACCTTCCTTCTGGATGAAGAACGGAGTAGACTATAT  
 GTTGGAGCAAAGATCATATATTTTCATTCAACTTGGTGAACATTAAGATTTTCAAAGATTGTGTGGC  
 CAGTATCTTACACAAGGAGAGATGAATGCAAAATGGGCTGGAAAAGATATCCTGAAAGAATGTGCCAATTT  
 CATCAAGTCTGGAGGCTTATAATCAGACTCACTTGTATGCCTGTGGAAGTGGGCTTTCCATCCAATC  
 TGCACCTATATTGAAGTTGGACATCATCCTGAGGACAACATTTTTAAGCTGCAGGACTCACATTTTGAAA  
 ACGGTCGTGGGAAGGCCCTTATGATCCAAACTACTGACTGCCTCTCTTCTAATAGACGGTGAGTTGTA  
 CTCTGGAAGTCTGCGGACTTCATGGGACGGGACTTCGCTATCTCAGAACACTGGGGCACCATCACCCC  
 ATCAGGACGGAGCAGCATGACTCCCGTGGCTCAATGATCCTAGATTATCAGTGCATCCTCATCCAG  
 AGAGTGACAACCCGAAGATGACAAAGTATATTTTTCTCCGAGAAAATGCAATAGACGGAGAACACTC  
 TGGAAAAGCCACTCATGCTAGAATAGGTCAGATATGCAAGAATGACTTTGGTGGACACAGAAGTCTGTG  
 AATAAATGGACAACATTCCTAAAAGCACGCCTGATTTGCTCTGTGCCCGTCCCAATGGCATTGACACCC  
 ATTTTGATGAATTGCAGGATGATTTCTAATGAACTCTAAAGATCCTAAAAATCCGATCGTCTATGGAGT  
 GTTCAACATCAAGCAACATCTTTAAGGGATCTGCTGTGTGCATGTACAGCATGAGTGTGAAGAAGG  
 GTGTTCTTGGTCCATATGCTCACAGAGATGGTCCCAACTATCAGTGGTGCCTTACCAAGGAAGAGTCC  
 CTTATGCCACGGCCAGGAACCTGTCCCAGTAAAACATTTGGCGGATTTGACTCCACAAGGACCTTCTGTA  
 TGATGTCATAAATTTTGAAGAAGTATCCAGCCATGTACAACCCAGTGTTCCTATAAATAATCGCCCCG  
 ATCATGATCAAAACAGATGTAATTTATCAGTTCACACAAATGTTGTAGACCGAGTGGATGCAGAAGATG  
 GCCAGTATGATGTTATGTTTCATCGGAACAGATGTTGGAACCGTCTTAAAGTGGTTTCAGTCCCCAAGGA  
 GACTTGGCATGACCTAGAAGAAGTCTTCTGGAAGAAATGACCGTCTTCCGGAACCAACAATTTTCG  
 GCAATGGAGCTTTCTACTAAACAGCAACAGCTGTACATTGGCTCAACTGCGGGAGTGGCAGACTTCTCTC  
 TACACCGTGTGACATCTATGGCAAAGCCTGTGCAGAATGCTGCCTCGCTCGGGACCTTACTGTGCCTG  
 GGATGGTCTCATGCTCAGCTATTTTCTACTGCAAAGAGGCGCACAAAGACGACAAGATATAAGGAAT  
 GGAGACCCACTGACTCACTGCTGACTTGCAGCACCATGATAATCATCATGGGCCAGCCTTGAAGAGA  
 GAATCATCTATGGAGTGGAAAACAGTAGTACATTTCTGGAATGCAGTCCGAAGTACAGAGAGCCTTGGT  
 ATATTGGCAATTTAGAGGAGAAATGAAGATCGAAAAGAGGAGATCAGAATGGGTGATCATATCATCAGG  
 ACAGAACAAGGGCTCCTGCTCCGTAGCCTGCAGAAGAAGGATTCAGGCAATTACCTGTGTACGCTGTGG  
 AACACGGATTCATGCAAACCTTCTTAAAGTAACCCTGGAAGTCAATTGACACAGAACATTTGGAAGAACT  
 TCTTCATAAAGATGACGATGGAGATGGCTCTAAGATAAAAAGAAATGTGAGCAGCATGACGCCAGCCAG  
 AAAGTCTGGTACCGAGACTTCATGCAGCTATTAACCACCCCAACCTGAACACGATGGATGAGTTCTGTG  
 AACAAAGTGTGGAAAAGGGACCGAAAGCAACGCCGACAAAGGCCGGGGCACTCTCAAGGGAGCAGCAACA  
 GTGGAAGCACATGCAAGAGAGCAAGAAAGGTAGAAACAGGAGGACCCACGAGTTTGAGCGGGCACCAGAA  
 AGTGTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001243073  
**Insert Size:** 2319 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001243073.1, NP_001230002.1</u>
<b>RefSeq Size:</b>	6422 bp
<b>RefSeq ORF:</b>	2319 bp
<b>Locus ID:</b>	20346
<b>UniProt ID:</b>	<u>O08665</u>
<b>Cytogenetics:</b>	5 A1
<b>Gene Summary:</b>	<p>Plays a role in growth cones guidance. May function to pattern sensory projections by selectively repelling axons that normally terminate dorsally. Involved in the development of the olfactory system and in neuronal control of puberty (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same protein. 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.</p>