

Product datasheet for **MC205153**

Sema3a (NM_009152) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sema3a (NM_009152) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sema3a
Synonyms: coll-1; Hsema-l; SEMA1; Semad; SemD
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC057588
ACAGTTGTGCCTCATTATCCGGTGCCTGGCTCGATTTTTTCTTTCTTTTTCTTTTTCTTTCTTTT
TTCTTTTTTTTTTTTTTTTTTTTTTTGAGGGTTGAAGTTTCTGTGATTCCGTGACTGTTACAGAAGAGA
CGTTAGTGTGCCATGAGGTCTTGATTGTCTGCATTTATGAATGAACTGACCTAAATCACCTGTTACCT
CCAGTTTCCAGATTGTTTGAACCTCTCTGGCCGACAATACAGGAAGGAAGGCTGCCGACCTCAGGGAC
CTCCAGCGTCTGCAGCATGGGCTGGTTCCTGAGGATTGCCTGTCTTTCTGGGGTGTATTACTTACAGCC
AGAGCAAATAATGCAAACGAAAGAAACAATGTGCCAAGACTGAAATTATCGTACAAAAGAAATGTTGGAAT
CCAACAATGTGATCACTTTAATGGCTTGGCCAACAGCTCCAGTTACCACACCTTCTTCTGGATGAAGA
ACGGAGTAGACTATATGTTGGAGCAAAAGATCATATATTTTCATTCAACTGGTGAACATTAAGATTTT
CAAAAGATTGTGTGGCCAGTATCTTACACAAGGAGAGATGAATGCAAATGGGCTGAAAAAGATATCTGA
AAGAATGTGCAATTTTCATCAAGGTCTGGAGGCTTATAATCAGACTCACTTGTATGCCTGTGGAAGTGG
GGCTTTCCATCCAATCTGCACCTATATTGAAGTTGGACATCATCTGAGGACAACATTTTTAAGCTGCAG
GACTCACATTTTGAAAACGGTCTGTGGGAAGAGCCCTTATGATCCCAAACACTACTGACTGCCTCTCTCTAA
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GAGTGATGTAAGAAGGGTGTTCCTTGGTCCATATGCTCACAGAGATGGTCCCAACTATCAGTGGGTGCCT
TACCAAGGAAGAGTCCCTTATCCACGGCCAGGAACCTGTCCAGTAAAACATTTGGCGGATTTGACTCCA
CAAAGGACCTTCTGATGATGTCATAACTTTTGAAGAAGTATCCAGCCATGTACAACCCAGTGTTTCC
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TTTCAGTCCCAAGGAGACTTGGCATGACCTAGAAGAAGTTCTTCTGGAAGAAATGACCGTCTTCCGGGA
ACCAACAACATTTTCGGCAATGGAGCTTCTACTAAACAGCAACAGCTGTACATTGGCTCAACTGCGGGA



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GTGGCACAGCTTCTCTACACCGCTGTGACATCTATGGCAAAGCCTGTGCAGAATGCTGCCTCGCTCGGG
 ACCCTTACTGTGCCTGGGATGGGTCTCATGCTCACGCTATTTTCTACTGCAAAGAGGGCGCACAAAGACG
 ACAAGATAAAGGAATGGAGACCCACTGACTCACTGCTGACTTGCAGCACCATGATAATCATCATGGG
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 AATGACACTGAGTGAAATAGTCTATGGAGATATAAAAACAAAACCCCATCATCCAGAGTAATGGAGT
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 TCCCTTTTGAAGAAACCAACAGATAGAAGGTTATCACCCCTGACTTGCAAGGTATTATCTAAGTTAACT
 CTCACATACATAATGTTTTAGTCAACCAAAAATTAAGACAGCACAAAAGAAAGAAAACAGTCATTAGAG
 GCATCCTGAAGGATCAAGAGCAAAATTAATTCATGTGTCTCATGAAAAGAACATTGTCTTAACAGAGTG
 TTGATAAAATGTCTTCCCTCTTGGCTTGAATATTTGCATGATGTGTGAGGCATAGGACTCGCTCATGAT
 TCCACATCCCACCAAGATTCTATTTTTCAGTCACTTAATGATTTCCAAAGCAGAGAGAAAGCGGGGGT
 GGGGGGAATCAGTGACATTCAGGACATGTTCTAACAACAAAATGACACATTTCTCAACTATTTCTTTGTG
 AATCAACTAAATTTTACCACCCTGTATGATACAATTATTTGTCTGAACAACCTATAAAGTGTATCTC
 AATGAGAGTGAACTATACACTTACCTAGAAAGTGCAAATTTCTTTGTTTTATGAATAAAATATAAGAT
 AACACAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Ascl-NotI
- ACCN:** NM_009152
- Insert Size:** 2319 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:

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: [BC057588](#), [AAH57588](#)

RefSeq Size: 4013 bp

RefSeq ORF: 2319 bp

Locus ID: 20346

UniProt ID: [O08665](#)

Cytogenetics: 5 A1

Gene Summary: 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]

Transcript Variant: This variant (1) represents the longest transcript. 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.