

Product datasheet for **MC204159**

Sema4a (NM_013658) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema4a (NM_013658) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sema4a
Synonyms:	A132332; Semab; SemB
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC025800
 GTGCCTGGAGGGCCGCGGCCCGTTCCAGCCAGGCTGAGCCTGCTTGCCTTGCCTGGACCCCTTCTTTG
 CCTCGGATGGCACCCTGATTTCAGGGTTTGAACACAGGACTTCTCAGTGTGGCTGGCTCAAGGAACCATCT
 GGTGACCATCTCAGGCTGACCATGGCCCTACCATCCCTGGGCCAGGACTCATGGAGTCTCCTGCGTGTTT
 TTTTCTTCCAACCTTCTCTGCTGCCATCACTGCCACCTGCTTCTGGGACTGGTGGTCAGGGGCCATGCC
 CAGAGTCAAATACCATGCTGGAGACGGGCACAGGGCCCTCAGCTTCTTCCAACAAAAAGGCTCCGAGAC
 TTTGACACGCTGCTCCTGAGTGACGATGGCAACACTCTCTATGTGGGGGCTCGAGAGGCCGCTCTGGCCT
 TGAATATCCAGAACCAGGAATCCCAAGGCTAAAGAACATGATACCCTGGCCAGCCAGTGAGAGAAAAAA
 GACCGAATGTGCCTTTAAGAAGAAGAGCAATGAGACACAGTGTTTCAACTTCATTGAGTCTGGTCTCT
 TACAATGCTACTCACCTCTATGCCTGTGGGACCTTTCCTTACGCCCTGCCTGTACCTTCATTGAACTCC
 AAGATTCCTCCTGTTGCCCATCTTGATAGACAAGGTCATGGACGGGAAGGGCCAAAGCCCTTTGACCC
 TGTTTACAAGCACACAGTGTCTTGGTCGATGGGATGCTTTATTCGGCACCATGAACAACCTTCTGGGC
 AGCGAGCCATCCTGATGCGGACACTGGGATCCCAGCCTGTTCTCAAGACTGACATCTTCTTACGCTGGC
 TGCACGGGATGCCTCCTTCGTGGCAGCATTCCATCCACCCAGGTCGTCTATTTCTTCTTTGAGGAGAC
 AGCCAGCGAGTTTGACTTCTTTGAAGAGCTGTATATATCCAGGGTGGCTCAAGTCTGCAAGAACGACGTG
 GCGGTGAAAAGCTGCTGCAAGAAGTGGACCACCTTCTCAAAGCCAGTTGCTCTGCGCTCAGCCAG
 GGCAGCTGCCATTCACATCATCCGCCACGCGGTCTGCTGCCCGCCGATTCTCCCTCTGTTTCCCGCAT
 CTACGCAGTCTTTACCTCCCAGTGGCAGGTTGGCGGGACCAGGAGCTCAGCAGTCTGTGCCTTCTCTCTC
 ACGGACATTGAGCGAGTCTTTAAGGGAAGTACAAGGAGCTGAACAAGGAGACCTCCCGCTGGACCACTT
 ACCGGGGCTCAGAGGTGACGCCGAGGCCAGGCAGTTGCTCCATGGGCCCTCCTCTGACAAAAGCCTTGAC
 CTTTATGAAGGACATTTTCTGATGGATGAGCACGTGGTAGGAACACCCCTGCTGGTGAAGTCTGGTGTG
 GAGTACACACGGCTTGTGGAGTCACTCGGGGCTTGTGGTGCCTCAGGACAGCAGTCTTATCTCGTGGAGGAT
 GTACCTCACGGGCTCCCTGCACAAGGCTGTGGTGCCTCAGGACAGCAGTCTTATCTCGTGGAGGAT
 TCAGCTGAGCCCTGACTCTGAGCCTGTTTGAACCTGCAGCTGGCCCGCCAGGGTGCAGTGTGTTGCA
 GGCTTCTCTGGAGGCATCTGGAGAGTTCAGGCGCAATTGCAAGTGTCTACGAGAGCTGTGTGGACTGTG
 TGCTTGCAGGGACCCTCACTGTGCCTGGGACCCTGAATCAAGACTCTGCAGCCTTCTGTCTGGCTTAC
 CAAGCCTTGAAGCAGGACATGGAACGCGGCAACCCGAGTGGGTATGCACCCGTGGCCCATGGCCAGG
 AGCCCCGGCGTCAGAGCCCCCTCAACTAATTAAGAAGTCTGACAGTCCCCAACTCCATCCTGGAGC
 TGCCCTGCCCCACCTGTGAGCACTGGCCTTACCACCTGGAGTCATGGCCGAGCCAAAATCTCAGAAGC
 CTCTGCTACCGTCTACAATGGCTCCCTCTTGTCTGCTGCCGAGGATGGTGTGGGGGCTCTACCAGTGT
 GTGGCGACTGAGAACGGCTACTCATACCCTGTGGTCTCCTATTGGGTAGACAGCCAGGACCAGCCCTGG
 CGCTGGACCTGAGCTGGCGGGCTTCCCGTGGAGCGTGTGCAGGTCCCGCTGACCAGGGTCCGAGGCGG
 AGCTTCCATGGCTGCCAGCGGTCTACTGGCCCCATTTTCTCATCGTTACCGTCTCTCTGGCCATCGTG
 CTCTGGGAGTGTCACTCTCCTCCTCGCTTCCCCACTGGGGGCTGCGGGCTCGGGGTAAAGTTTCAAG
 GCTGTGGGATGTGCCCCAGGGGAAAGGCTCCACTGAGCAGGGACCAGCACCTCCAGCCCTCAAAGGA
 CCACAGGACCTCTGCCAGTGACGTAGATGCCGACAACAACCATCTGGGCGCCGAAGTGGCTTAAACAGGG
 ACACAGATCCGCAGCTGAGCAGAGCAAGCCACTGGCCTTGTGGTATGCCAGGCACAGTGGCACTCTGA
 CCAGGGTAGGAGGCTCTCCTGCTAACGTGTGTACCTACAGCACCCAGTAGGTCCTCCCTGTGGGACTC
 TCTTGTCAAGCACATTGGGCTGTCCATACCTGTACTTGTGCTGTGACAGGAAGAGCCAGACAGGTTT
 CTTTGATTTTATTGATGACCCAAGAGCCCTCCTGTAACAAACGTGCTCCAGGAGACCATGAAAGGTGGCT
 GTCTGGGATTCTGTGGTGAACCTAAGCATCCGAGCAAGCTGGGGCTATTCTGCAAACTCCATCCTG
 AACGCTGTCACTTAGAAGCAGCTGCTGCTTTGAACACCAGCCACCCTCCTTCCCAAGAGTCTCTATGG
 AGTTGGCCCTTGTGTTTCTTTACCAGTCATGCCATACTGTTTGGGAAGTCATCTCTGAAGTCTAACCA
 CCTTCTTCTTGCTTCAAGTTGGACAGATTGTTATTATTGTCTCTGCCCTGGCTAGAATGGGGGCATAA
 TCTGAGCCTTGTCCCTGTCCAGTGTGGCTGACCCTTGACCTTCTCCTCCTCCCTTTGTTTTGGG
 ATTCAGAAAAGTCTTGTACAGACAATTTATTTTTTATTAATAAAGATATAAGCTTTAAAGAAAAAAA AAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_013658
Insert Size: 2283 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:	BC025800 , AAH25800
RefSeq Size:	3159 bp
RefSeq ORF:	2283 bp
Locus ID:	20351
UniProt ID:	Q62178
Cytogenetics:	3 F1
Gene Summary:	<p>Cell surface receptor for PLXNB1, PLXNB2, PLXNB3 and PLXND1 that plays an important role in cell-cell signaling (PubMed:20043131, PubMed:17318185). Regulates glutamatergic and GABAergic synapse development (PubMed:29981480). Promotes the development of inhibitory synapses in a PLXNB1-dependent manner and promotes the development of excitatory synapses in a PLXNB2-dependent manner (PubMed:29981480). Plays a role in priming antigen-specific T-cells, promotes differentiation of Th1 T-helper cells, and thereby contributes to adaptive immunity (PubMed:15780988). Promotes phosphorylation of TIMD2 (PubMed:12374982). Inhibits angiogenesis (PubMed:17318185). Promotes axon growth cone collapse (PubMed:20043131). Inhibits axonal extension by providing local signals to specify territories inaccessible for growing axons (PubMed:20043131).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. All four variants encode the same protein.</p>