

Product datasheet for **MR231119**

Sema3a (NM_001243072) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3a (NM_001243072) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema3a
Synonyms:	coll-1; Hsema-l; SEMA1; Semad; SemD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR231119 representing NM_001243072
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGGTTCACTGGGATTGCCTGTCTTTCTGGGGTGTATTACTTACAGCCAGAGCAAACATATGCAA
 ACGGAAAGAACAATGTGCCAAGACTGAAATTATCGTACAAAGAAATGTTGGAATCCAACAATGTGATCAC
 TTTAATGGCTTGGCCAACAGCTCCAGTTACCACACCTTCCTTCTGGATGAAGAACGGAGTAGACTATAT
 GTTGGAGCAAAGATCATATATTTTCATTCAACTTGGTGAACATTAAGATTTTCAAAGATTGTGTGGC
 CAGTATCTTACACAAGGAGAGATGAATGCAAAATGGGCTGGAAAAGATATCCTGAAAGAATGTGCCAATTT
 CATCAAGTCTGGAGGCTTATAATCAGACTCACTTGTATGCCTGTGGAAGTGGGCTTTCCATCCAATC
 TGCACCTATATTGAAGTTGGACATCATCCTGAGGACAACATTTTTAAGCTGCAGGACTCACATTTTGAAA
 ACGGTCGTGGGAAGGCCCTTATGATCCAAACTACTGACTGCCTCTCTTCTAATAGACGGTGAGTTGTA
 CTCTGAACTGCTGCGGACTTCATGGGACGGGACTTCGCTATCTCAGAACACTGGGGCACCATCACCCC
 ATCAGGACGGAGCAGCATGACTCCCGTGGCTCAATGATCCTAGATTATCAGTGCCCATCTCATCCCAG
 AGAGTGACAACCCCTGAAGATGACAAGTATATTTTTCTCCGAGAAAATGCAATAGACGGAGAACACTC
 TGGAAAAGCCACTCATGTAGAAATAGGTCAGATATGCAAGAATGACTTTGGTGGACACAGAAGTCTGTG
 AATAAATGGACAACATTCCTAAAAGCACGCCTGATTTGCTCTGTGCCCGTCCCAATGGCATTGACACCC
 ATTTTGATGAATTGCAGGATGATTTCTAATGAACTCTAAAGATCCTAAAAATCCGATCGTCTATGGAGT
 GTTCAACATCAAGCAACATCTTTAAGGGATCTGCTGTGTGCATGTACAGCATGAGTGATGAAGAAGG
 GTGTTCCCTGGTCCATATGCTCACAGAGATGGTCCCAACTATCAGTGGTGCCTTACCAAGGAAGAGTCC
 CTTATCCACGGCCAGGAACCTGTCCAGTAAAACATTTGGCGGATTTGACTCCACAAGGACCTTCTGTA
 TGATGTCATAAATTTGCAAGAAGTCATCCAGCCATGTACAACCCAGTGTTCCTATAAATAATCGCCCG
 ATCATGATCAAAACAGATGTAATTTATCAGTTCACACAAATTGTTGTAGACCGAGTGGATGCAGAAGATG
 GCCAGTATGATGTTATGTTTCATCGGAACAGATGTTGGAACCGTCTTAAAGTGGTTTCAGTCCCCAAGGA
 GACTTGGCATGACCTAGAAGAAGTCTTCTGGAAGAAATGACCGTCTTCCGGAACCAACAATTTTCG
 GCAATGGAGCTTTCTACTAAACAGCAACAGCTGTACATTGGCTCAACTGCGGGAGTGGCAGACTTCCTC
 TACACCGCTGTGACATCTATGGCAAAGCCTGTGCAGAATGCTGCCTCGCTCGGGACCCCTACTGTGCCTG
 GGATGGTCTCATGCTCAGCTATTTTCTACTGCAAAGAGGCGCACAAAGACGACAAGATATAAGGAAT
 GGAGCCCACTGACTCACTGCTGACTTGCAGCACCATGATAATCATCATGGGCCAGCCTTGAAGAGA
 GAATCATCTATGGAGTGGAAAACAGTAGTACATTTCTGGAATGCAGTCCGAAGTCACAGAGAGCCTTGGT
 ATATTGGCAATTTAGAGGAGAAATGAAGATCGAAAAGAGGAGATCAGAATGGGTGATCATATCATCAGG
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 AACACGGATTCATGCAAACCTTTCTTAAGGTAACCCTGGAAGTCATTGACACAGAACATTTGGAAGAACT
 TCTTCATAAAGATGACGATGGAGATGGCTCTAAGATAAAAAGAAATGTCGAGCAGCATGACGCCAGCCAG
 AAAGTCTGGTACCGAGACTTCATGCAGCTATTAACCACCCCAACCTGAACACGATGGATGAGTTCTGTG
 AACAAAGTGTGGAAAAGGGACCGAAAGCAACGCCGACAAAGGCCGGGGCACTCTCAAGGGAGCAGCAACA
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 AGTGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231119 representing NM_001243072
Red=Cloning site Green=Tags(s)

MGWFTGIACLFWGVLLTARANYANGKNNVPRLKLSYKEMLESNNVITFNGLANSSSYHTFLLDEERSRLY
VGAKDHIFSFNLVNIKDFQKIVWPVSYTRRDECKWAGKDILKECANFIKVLEAYNQTHLYACGTGAFHPI
CTYIEVGHHPEDNIFKLQDSHFENGRGKSPYDPKLLTASLLIDGELYSGTAADFMRDFAIFRTLGHHP
IRTEQHDSRWLNDPRFISAHLIPESDNPEDDKVYFFFRENAIDGEHSGKATHARIGQICKNDFGGHRSV
NKWTTFLKARLICSVPGPNGIDTHFDELQDVFLMNSKDPKNPIVYGVFTTSSNIFKGSAVCMYSMSDVR
VFLGPYAHRDGPYQWVPYQGRVYPRPGTSPKTFGGFDSTKDLPPDDVITFARSHPAMYNPVFPINNRP
IMIKTDVNYQFTQIVVDRVDAEDGQYDVMFIGTDVGTVLKVVSPKETWHDLEEVLLLEMTVFREPTTIS
AMELSTKQQQLYIGSTAGVAQLPLHRCDIYGKACAECCLARDPYCAWDGSSCSRYFPTAKRRTRRQDIRN
GDPLTHCSDLQHHDNHHGSPLEERIIYGVENSSTFLECSPKSQRALVYWQFQRRNEDRKEEIRMGDHIIR
TEQGLLLRSLQKKDSGNYLCHAVEHGMQTLKVTLEVIDTEHLEELLHKDDDGDSKIKEMSSSMTPSQ
KVWYRDFMQLINHPNLNTMDEFCEQVWKRDRKQRRQRPGHSQSSNKWKHMQESKKGRNRRTHEFERAPR
SV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001243072

ORF Size: 2316 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_001243072.1](#), [NP_001230001.1](#)

RefSeq Size: 6582 bp

RefSeq ORF: 2319 bp

Locus ID: 20346

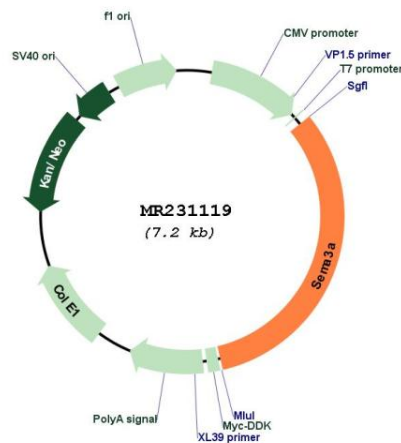
UniProt ID: [O08665](#)

Cytogenetics: 5 A1

MW: 88.8 kDa

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]

Product images:



Circular map for MR231119