

## Product datasheet for **MR210565**

### Sema3a (NM\_009152) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3a (NM_009152) 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:

>MR210565 representing NM\_009152  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGCTGGTTCCTGGGATTGCCTGTCTTTCTGGGGTGTATTACTTACAGCCAGAGCAAACATATGCAA  
ACGGAAAGAACAATGTGCCAAGACTGAAATTATCGTACAAAGAAATGTTGGAATCCAACAATGTGATCAC  
TTTTAATGGCTTGGCCAACAGCTCCAGTTACCACACCTTCCTTCTGGATGAAGAACGGAGTAGACTATAT  
GTTGGAGCAAAGATCATATATTTTCATTCAACTTGGTGAACATTAAGATTTTCAAAGATTGTGTGGC  
CAGTATCTTACACAAGGAGAGATGAATGCAAAATGGGCTGGAAAAGATATCCTGAAAGAATGTGCCAATTT  
CATCAAGTCTGGAGGCTTATAATCAGACTCACTTGTATGCCTGTGGAAGTGGGCTTTCCATCCAATC  
TGCACCTATATTGAAGTTGGACATCATCCTGAGGACAACATTTTTAAGCTGCAGGACTCACATTTTGAAA  
ACGGTCGTGGGAAGGCCCTTATGATCCAAACTACTGACTGCCTCTCTTCTAATAGACGGTGAGTTGTA  
CTCTGGAAGTCTGCGGACTTCATGGGACGGGACTTCGCTATCTCAGAACACTGGGGCACCATCACCCC  
ATCAGGACGGAGCAGCATGACTCCCGTGGCTCAATGATCCTAGATTATCAGTGCCCATCTCATCCAG  
AGAGTGACAACCCCTGAAGATGACAAGTATATTTTTCTCCGAGAAAATGCAATAGACGGAGAACACTC  
TGGAAAAGCCACTCATGTAGAAATAGGTCAGATATGCAAGAATGACTTTGGTGGACACAGAAGTCTGTG  
AATAAATGGACAACATTCCTAAAAGCACGCCTGATTTGCTCTGTGCCCGTCCCAATGGCATTGACACCC  
ATTTTGATGAATTGCAGGATGATTTCTAATGAACTCTAAAGATCCTAAAAATCCGATCGTCTATGGAGT  
GTTCAACATCAAGCAACATCTTTAAGGGATCTGCTGTGTGCATGTACAGCATGAGTGTGAAGAAGG  
GTGTTCCCTGGTCCATATGCTCACAGAGATGGTCCCAACTATCAGTGGTGCCTTACCAAGGAAGAGTCC  
ATTATCCACGGCCAGGAACCTTGTCCAGTAAAACATTTGGCGGATTTGACTCCACAAGGACCTTCTGTA  
TGATGTCATAAAGTCTTGAAGAAGTATCCAGCCATGTACAACCCAGTGTTCCTATAAATAATCGCCCG  
ATCATGATCAAAACAGATGTAATTTATCAGTTCACACAAATTGTTGTAGACCGAGTGGATGCAGAAGATG  
GCCAGTATGATGTTATGTTTCATCGGAACAGATGTTGGAACCGTCTTAAAGTGGTTTCAGTCCCCAAGGA  
GACTTGGCATGACCTAGAAGAAGTCTTCTGGAAGAAATGACCGTCTTCCGGAACCAACAACATTTTCG  
GCAATGGAGCTTTCTACTAAACAGCAACAGCTGTACATTGGCTCAACTGCGGGAGTGGCAGACTTCCTC  
TACACCGCTGTGACATCTATGGCAAAGCCTGTGCAGAATGCTGCCTCGCTCGGGACCCCTTACTGTGCTG  
GGATGGTCTCATGCTCAGCTATTTTCTACTGCAAAGAGGCGCACAAAGACGACAAGATATAAGGAAT  
GGAGACCCACTGACTCACTGCTGACTTGCAGCACCATGATAATCATCATGGGCCAGCCTTGAAGAGA  
GAATCATCTATGGAGTGGAAAACAGTAGTACATTTTGAATGCAGTCCGAAGTACAGAGAGCCTTGGT  
ATATTGGCAATTTAGAGGAGAAATGAAGATCGAAAAGAGGAGATCAGAATGGGTGATCATATCATCAGG  
ACAGAACAAGGGCTCCTGCTCCGTAGCCTGCAGAAGAAGGATTACAGGCAATTACCTGTGTACGCTGTGG  
AACACGGATTCATGCAAACCTTTCTTAAGGTAACCCTGGAAGTCAATTGACACAGAACATTTGGAAGAACT  
TCTTCATAAAGATGACGATGGAGATGGCTTAAGATAAAAAGAAATGTGAGCAGCATGACGCCAGCCAG  
AAAGTCTGGTACCGAGACTTCATGCAGCTATTAACCACCCCAACCTGAACAGATGGATGAGTTCTGTG  
AACAAAGTGTGAAAAGGGACCGAAAGCAACGCCGACAAAGGCCGGGGCACTCTCAAGGGAGCAGCAACA  
GTGGAAGCACATGCAAGAGAGCAAGAAAGGTAGAAACAGGAGGACCCACGAGTTTGTAGCGGGCACCAG  
AGTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210565 representing NM\_009152  
Red=Cloning site Green=Tags(s)

MGWFTGIACLFWGVLLTARANYANGKNNVPRLKLSYKEMLESNNVITFNGLANSSSYHTFLLDEERSRLY  
VGAKDHIFSFNLVNIKDFQKIVWPVSYTRRDECKWAGKDILKECANFIKVLEAYNQTHLYACGTGAFHPI  
CTYIEVGHHPEDNIFKLQDSHFENGRGKSPYDPKLLTASLLIDGELYSGTAADFMRDFAIFRTLGHHP  
IRTEQHDSRWLNDPRFISAHLIPESDNPEDDKVYFFFRENAIDGEHSGKATHARIGQICKNDFGGHRSV  
NKWTTFLKARLICSVPGPNGIDTHFDELQDVFLMNSKDPKNPIVYGVFTTSSNIFKGSAVCMYSMSDVRR  
VFLGPYAHRDGPYQWVPYQGRVPYPRPGTSPKTFGGFDSTKDLPPDDVITFARSHPAMYNPVFPINNRP  
IMIKTDVNYQFTQIVVDRVDAEDGQYDVMFIGTDVGTVLKVVSPKETWHDLEEVLLLEMTVFREPTTIS  
AMELSTKQQQLYIGSTAGVAQLPLHRCDIYGKACAECCLARDPYCAWDGSSCSRYFPTAKRRTRRQDIRN  
GDPLTHCSDLQHHDNHHGSPLEERIIYGVENSSTFLECSPKSQRALVYWQFQRNEDRKEEIRMGDHIIR  
TEQGLLLRSLQKKDSGNYLCHAVEHGMQTLKVTLEVIDTEHLEELLHKDDDGDGSKIKEMSSSMTPSQ  
KVWYRDFMQLINHPNLNTMDEFCEQVWKRDRKQRRQRPGHSQGSSNKWKHMQESKKGRNRRTHEFERAPR  
SV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: NM\_009152

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\\_009152.4](#)

**RefSeq Size:** 5946 bp

**RefSeq ORF:** 2319 bp

**Locus ID:** 20346

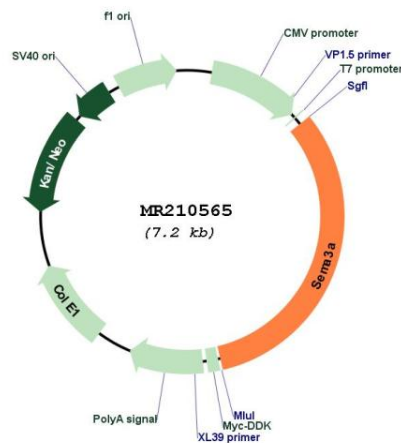
**UniProt ID:** [O08665](#)

**Cytogenetics:** 5 A1

**MW:** 89.2 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 MR210565