

Product datasheet for **MG210565**

Sema3a (BC057588) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3a (BC057588) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sema3a
Synonyms:	SemD, SEMA1, coll-1, Hsema-l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210565 representing BC057588
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGCTGGTTCCTGACTGGGATTGCCTGTCTTTTCTGGGGTGTATTACTTACAGCCAGAGCAAACATATGCAA
ACGGAAAAGAACAATGTGCCAAGACTGAAATTATCGTACAAAGAAATGTTGGAATCCAACAATGTGATCAC
TTTTAATGGCTTGGCCAACAGCTCCAGTTACCACACCTTCCTTCTGGATGAAGAACGGAGTAGACTATAT
GTTGGAGCAAAGATCATATATTTTCACTCAACTTGGTGAACATTAAGATTTTCAAAGATTGTGTGGC
CAGTATCTTACACAAGGAGAGATGAATGCAAAATGGGCTGGAAAAGATATCCTGAAAGAATGTGCCAATTT
CATCAAGTCTGGAGGCTTATAATCAGACTCACTTGTATGCCTGTGGAAGTGGGCTTTCCATCCAATC
TGCACCTATATTGAAGTTGGACATCATCCTGAGGACAACATTTTTAAGCTGCAGGACTCACATTTTGAAA
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AGAGTGACAACCCCTGAAGATGACAAGTATATTTTTCTCCGAGAAAATGCAATAGACGGAGAACACTC
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GTGTTCCCTGGTCCATATGCTCACAGAGATGGTCCCAACTATCAGTGGTGCCTTACCAAGGAAGAGTCC
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GCCAGTATGATGTTATGTTTCATCGGAACAGATGTTGGAACCGTCTTAAAGTGGTTTCAGTCCCCAAGGA
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GCAATGGAGCTTTCTACTAAACAGCAACAGCTGTACATTGGCTCAACTGCGGGAGTGGCAGACTTCCTC
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GTGGAAGCATGCAAGAGAGCAAGAAAGGTAGAAACAGGAGGACCCACGAGTTTGTAGCGGGCACCACAGA
AGTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210565 representing BC057588
 Red=Cloning site Green=Tags(s)

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MGWFTGIACLFWGVLLTARANYANGKNNVPRLKLSYKEMLESNNVITFNGLANSSSYHTFLLDEERSRLY
VGAKDHIFSFNLVNIKDFQKIVVPVSYTRRDECKWAGKDILKECANFIKVLEAYNQTHLYACGTGAFHPI
CTYIEVGHHPEDNIFKLDQSHFENGRGKSPYDPKLLTASLLIDGELYSGTAADFMRDFAIFRTLGHHP
IRTEQHDSRWLNDPRFISAHLIPESDNPEDDKVYFFFRENAIDGEGHSGKATHARIGQICKNDFGGHRSLV
NKWTTFLKARLICSVPGPNGIDTHFDELQDVFLMNSKDPKNPIVYGVFTTSSNIFKGSAVCMYSMSDVRR
VFLGPYHRDGPYQWVPYQGRVPYPRPGTCSKTFGGFDSTKDLRDDVITFARSHPAMYNPVFPINNRP
IMIKTDVNYQFTQIVVDRVDAEDGQYDVMFIGTDVGTVLKVVSPKETWHDLEEVLLLEEMTVFREPTTIS
AMELSTKQQQLYIGSTAGVAQLPLHRCDIYGKACAECCLARDPYCAWDGSSCSRYFPTAKRRTRRQDIRN
GDPLTHCSDLQHHDNHHGPSLEERIIYGVENSSTFLECSPKSQRALVYWQFQRRNEDRKEEIRMGDHIIR
TEQLLLRSLQKKDSGNYLCHAVEHGMQTLKVTLEVIDTEHLEELLHKDDDDGSGKIKEMSSSMTPSQ
KVWYRDFMQLINHPNLNTMDEFCEQVWKRDRKQRRQRPGHSGSSNKWKHMQESKKGRNRRRTHFERAPR
SV
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC057588

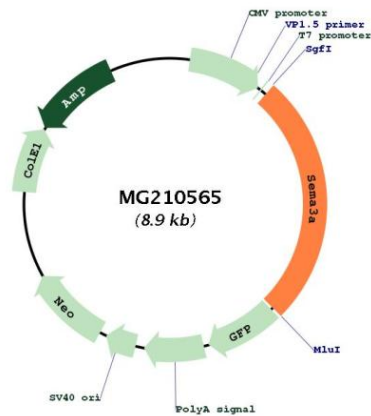
ORF Size: 2316 bp

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:** [BC057588](#), [AAH57588](#)
- RefSeq Size:** 4013 bp
- RefSeq ORF:** 2318 bp
- Locus ID:** 20346
- 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]

Product images:



Circular map for MG210565