

Product datasheet for **MC220227**

Sema7a (NM_011352) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema7a (NM_011352) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sema7a
Synonyms:	2900057C09Rik; CDw108; H-Sema-L; M-Sema-L; Semal
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220227 representing NM_011352
Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGCCTCCTCCTCCCGACGTGCCGCCCCAGCGCACCGCGCCCGCTCCTCAGCCTGCCGGCTC
GGTTCGGGCTCCCGCTGCGGCTGCGGCTTCTGCTGGTGTCTGGGTGGCCGCCCTCCGCCAAGGCCA
CTCGAGGAGCGGACCCCGCATCTCCGCCGTCTGGAAAGGCGAGGACCATGTGGACTTTAGCCAGCCTGAG
CCACACACCGTGCTTTTCCATGAGCCGGGACGTTCTCTGTCTGGGTGGGTGGACGTGGCAAGGTCTACC
ACTTCACTTCCCGAGGGCAAGAATGCCTCTGTGCGCACGGTGAACATCGGCTCCACAAAGGGTCTGT
TCAGGACAACAGGACTGTGGGAATTACATCACTCTTCTAGAAAGGCGGGGAATGGGCTGCTGGTCTGT
GGCACCAATGCCCGGAAGCCAGCTGCTGGAATTGGTGAATGACAGTGTGGTGTACTTGGTGTGAG
TGAAAGGCTATGCCCCCTCAGCCCGGATGAGAACTCCCTGGTTCTGTTGAAGGAGATGAAGTGTACTC
TACCATCCGGAAGCAGGAATACAACGGGAAGATCCCTCGTTCGACGCATTCGGGGCGAGAGTGAAGTGT
TACACAAGTGATACAGTCATGCAGAACCACAGTTCATCAAGGCCACCATTGTGCACCAAGCAAGCCCT
ATGATGATAAGATCTACTACTTCTCCGAGAAGACAACCCGTGACAAGAACCCCGAGGCTCCTCTCAATGT
GTCCCGAGTAGCCAGTTGTGACGGGGGACCAGGGTGGTGTGAGAGTTCGTTGTCTGTCTCCAAGTGGAA
ACCTTCTGAAAGCCATGTTGGTCTGCAGCGATGCAGCCACCAACAGGAACCTCAATCGGCTGCAAGATG
TCTTCTGCTCCCTGACCCAGTGGCCAGTGGAGAGATACCAGGGTCTATGGCGTTTTCTCCAACCCCTG
GAACTACTCAGCTGTCTGCGTGTATTGCTTGGTGACATTGACAGAGTCTCCGTACCTCATCGCTCAA
GGCTACCACATGGGCCTTCCAACCCCTGACCTGGCATGTGCCTCCAAAAAAGCAGCCCATACCCACAG
AAACTTCCAGGTAGCTGATAGTCACCCAGAGGTGGCTCAGAGGGTGAACCTATGGGGCCACTGAAGAC
ACCATTGTTCCATTCTAAGTACCATTACCAGAAAGTGGTCGTTACCCGCATGCAAGCCAGCAATGGAGAG
ACCTTCCATGTGCTTTATCTAACCACAGACAGGGGCACCATTACAAGGTGGTGAATCAGGGGACCAGG
ACCATAGCTTTGTCTTCAATATCATGGAGATCCAGCCCTTTCACCGTGCAGCGGCCATCCAGGCTATATC
ATTGGATGCTGACCGCGGAAGCTCTATGTGACCTCCAGTGGGAAGTGTGAGCCAGGTACCCTGGACATG
TGTGAGGTCTACAGCGGGGGCTGCCATGGCTGCCTCATGTCCCGAGACCCTACTGTGGCTGGGACCAGG
ACCGCTGCGTGTCTATCTACAGCTCCCAACGATCAGTGTGTCAGTCCATTAATCCAGCGGAGCCACACAG
AGAGTGTCCCAACCTAAACCAGACGAGGCTCCATTGCAGAAGGTTTCCCTGGCTCGGAACCTCTCGATAC
TACCTGACCTGCCCATGGAGTCCGCCACGCCACTTACTTATGGCGCCATGAGGAGAATGTGGAACAGA
GCTGTGAGCCAGGCCACCAAGCCCTAGCTGCATCCTGTTCAATTGAGAACCTCACGGCCCGTCAGTATGG
CCACTACCGCTGCGAGGCCAAGAGGGCTCCTACCTCCGTGAGGCTCAACACTGGGAGCTGCTGCCAGAG
GACAGAGCACTGGCCGAACAATAATGGGCCATGCCCGGGCCCTGGCCGCTCCTTCTGGCTGGGGGTCC
TGCCACACTCATACTTGGTCTGCTGGTTCACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_011352
Insert Size: 1995 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC057875](#), [AAH57875](#)

RefSeq Size: 3290 bp

RefSeq ORF: 1995 bp

Locus ID: 20361

UniProt ID: [Q9QUR8](#)

Cytogenetics: 9 B

Gene Summary: Plays an important role in integrin-mediated signaling and functions both in regulating cell migration and immune responses. Promotes formation of focal adhesion complexes, activation of the protein kinase PTK2/FAK1 and subsequent phosphorylation of MAPK1 and MAPK3. Promotes production of proinflammatory cytokines by monocytes and macrophages. Plays an important role in modulating inflammation and T-cell-mediated immune responses. Promotes axon growth in the embryonic olfactory bulb. Promotes attachment, spreading and dendrite outgrowth in melanocytes.[UniProtKB/Swiss-Prot Function]