

Product datasheet for **RN201384**

Sema3a (NM_017310) Rat Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Sema3a (NM_017310) Rat Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Sema3a |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >RN201384 representing NM_017310
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTGGTTCACTGGGATTGCCTGTCTTTTCTGGGGTATATTACTTACAGCAAGACAACTATGCAA
 ACGGAAAGAACAATGTGCCAAGACTGAAATTATCGTACAAAGAAATGTTGGAATCCAACAATGTGATCAC
 TTTCAATGGCTTGGCCAACAGCTCCAGTTATCACACTTTTCTTCTGGATGAGGAACGGAGTAGACTGTAT
 GTTGGAGCAAAGGATCATATATTTTCACTCAACTTGGTGAATATTAAGATTTTCAAAGATTGTGTGGC
 CAGTATCTTATACCAGGAGAGATGAATGCAAGTGGGCTGGAAAAGATATCCTGAAAGAATGTGCAAAATTT
 CATCAAGTCTCAAGGCTTATAATCAGACTCACTTGTACGCCTGTGGAACGGGGCTTTCCATCCAATT
 TGCACCTATATTGAAGTTGGACATCATCCTGAGGACAACATTTTTAAACTGCAGGACTCACATTTTGAAA
 ACGGTCGTGGGAAGAGTCTTATGACCCCAAATCTGACTGCCTCTTCTAATAGATGGTGGATTATA
 CTCTGGAAGTCTGCGGATTTTCATGGGACGAGACTTTGCTATCTTCAGAACATTGGGGCACCATCATCCC
 ATCAGGACCGAGCAGCAGACTCCCGGTGGCTCAATGATCCTAGATTATCAGTGCATCCTCATCCCAG
 AGAGTGATAACCCCTGAAGATGACAAAGTATATTTTTCTCCGAGAAAATGCAATAGATGGAGAATTC
 TGGAAAAGCCACTCATGTAGAAATAGGTCAGATATGCAAGAATGACTTTGGAGGACACAGAAGTCTTGTG
 AATAAATGGACAATTTCTGAAAGCACGCCTGATTTGCTCTGTGCCAGTCCCAATGGCATTGACACAC
 ATTTTGATGAATTACAGGATGATTTCTTAATGAACTCTAAAGATCCTAAAAATCCAATTGTCTATGGAGT
 GTTCAACATCAAGCAACATCTTTAAGGGCTCTGCTGTGTGTATGTACAGTATGAGTGTGAAGAAGG
 GTGTTCTTGGTCCATATGCTCACAGAGATGGTCCCAACTATCAGTGGTACCTTACCAAGGAAGAGTCC
 CTTATCCACGACCAGGAACCTGTCCAGTAAAACATTTGGTGGATTTGACTCCACAAGGACCTTCTGTA
 TGATGTCATAACCTTTGCAAGAAGCCATCCAGCCATGTACAACCCAGTGTTCCTATTAATAATCGCCCA
 ATAATGATCAAAACAGATGTAATTTATCAGTTCACACAAATTGTTGTAGACCGGGTGGATGCAGAAGATG
 GCCAGTATGATGTTATGTTTCATCGGAACGGATGTTGGAAGTGTCTTAAAGTGGTTTCAGTCCCCAAGGA
 GACTTGGCATGACCTAGAAGAAGTTCTTCTGGAAGAAATGACAGTCTTCCGGGAACCAACAATTTTCA
 GCAATGGAGCTTTCTACTAAACAGCAACAAGTACATTTGGCTCAACTGCTGGAGTAGCACAGCTTCTCTC
 TACACCGTTGTGACATTTATGGCAAAGCCTGTGCGGAATGCTGCCTTGTCTGGGACCTTATTGTGCTG
 GGATGGGTATCATGCTCAGCTATTTTCTACTGCAAAGAGGCGCACAAAGACGACAGGATATAAGGAAT
 GGAGACCCACTGACTCACTGCTCCGACTTGACGATCATGATAATCATCATGGGCACAGTCTTGAAGAGA
 GAATCATCTATGGAGTAGAAAATAGTAGACATTTCTTGAATGCAGTCCGAAGTCACAGAGAGCCTTGGT
 ATATTGGCAATTTAGAGGCGAAATGAAGATCGAAAGGAGGAGATCAGAGTGGGTGATCATATCATCAGG
 ACAGAACAGGGGCTCTGCTTCTGAGTCTGCAGAAGAAGGATTCAGGCAATTACCTGTGTACGCGCTGG
 AGCACGGTTTTCATGCAAACTCTTCTTAAGGTGACCCTGGAAGTATCGATACAGAACATTTGGAGGAACT
 TCTTCATAAAGATGACGATGGAGATGGCTCTAAGACCAAAGAAATGTCCAGTAGCATGACGCCAGCCAG
 AAGGTCTGGTACAGAGACTTTCATGCAGCTCATCAACCACCCCACTGAACACAATGGATGAGTTCTGTG
 AACAAAGTGTGGAAAAGGGACCGAAAACAACGCCGACAAAGGCCGGGGCACTCTCAAGGGAGCAGCAACA
 GTGGAAGCATGCAGGAGAGCAAGAAAGGTAGAAACAGGAGGACCCACGAGTTTGAGAGGGCACCCAGG
 AGTGTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3811_f11.zip

Restriction Sites: SgfI-MluI

ACCN: NM_017310

Insert Size: 2319 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.

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:

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_017310.1](#), [NP_059006.1](#)

RefSeq Size: 2319 bp

RefSeq ORF: 2319 bp

Locus ID: 29751

UniProt ID: [Q63548](#)

Cytogenetics: 4q12

Gene Summary: induces neuronal cell death; induces apoptosis of retinal ganglion cells in response to injury [RGD, Feb 2006]