

Product datasheet for **RR208439**

Sema7a (NM_001108153) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema7a (NM_001108153) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema7a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR208439 representing NM_001108153
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGCCTCCTCCTCCCGACGTGCCGCCCCAGCGCACCGCGCGCCCGCTCCTCAGCCTGCCGGCTC
 GGTTCCGGCTCCCGCTGCGGCTGCGGCTGCTGCTGGTGTCTGGGTGACCGCCGCTCCGCCAAGGCCA
 CTCGAGGAGCGGACCCCGTATCTCCGCCGTCTGAAAAGGCGAGGACCATGTGGACTTTGGCCAGCCTGAG
 CCACACAATGTGCTTTTCCATGAGCCGGGACAGTTCTCTGTCTGGGTAGGTGGACGAGGCAAGGTCTACC
 TCTTCACTTCCCGAGGGCAAGAATGCCTCTGTGCGCACGGTGAACATTGGCTCCACAAAAGGGTCTGT
 TCAGGACAAAACAGGACTGCGAGAATTACATCACTCTTCTTGAGAGGCGGGGAATGGACTGCTGGTCTGT
 GGCACCAATGCCCGAAACCCAGCTGCTGGAATTGGTGAATGACAGTGTGGTGTACTTGGTGTGAGA
 TGAAAAGGCTATGCCCCCTCAGCCCGGATGAGAACTCCCTGGTTCTGTTGAAGGGGATGAAGTGTACTC
 TACAATCCGGAAGCAGGAATACAATGGCAAGATCCCTCGCTTTCGCCGATTCCGGGAGAGAGTGAAGTGT
 TACACAAGTGATACTGTCAATGCAGAATCCACAGTTCATCAAGGCCACCATTGTGACCAGGACCAAGCCT
 ATGATGATAAGATCTACTACTTCTCCGAGAAGACAACCCGTGACAAGAACCCCGAGGCTCCGCTCAATGT
 ATCCCGAGTGGCCAGTTATGCAGGGGGGACCAGGGTGGTGTGAGAGTTCATTGTCTGTCTCCAAGTGGAA
 ACCTTCTGAAAGCCATGCTGGTTTGCAGCGACGACGACCCACCAACAGGAACTTCAATCGACTGCAAGATG
 TCTTCTACTCCCTGACCCAGTGGCCAGTGGAGGGATACCAGGGTCTATGGCGTTTTCTCCAACCCCTG
 GAACTACTCAGCTGTCTGCGTGTATTGCTTGGTACATTGACAGAGTCTCCGTACCTCCTCACTCAA
 GGCTACCACATGGGCCTTCCAACCCCTGACCTGGCATGTGCCTCCAAAAAAGCAACCCATACCCACGG
 AAACCTTCCAGGTAGCCGACAGTCACCCGGAGGTGGCCAGAGAGTGGAAACCCATGGGGCCACTGAAGAC
 ACCATTGTTCCACTCTAAGTACCATTACCAGAAAAGTGGTTGTCCACCGCATGCAAGCCAGCAATGGGGAG
 ACCTTCCATGTACTTTACCTAACACAGACAGGGGACCACTTACAAGGTGGTGAATCAGGGGACCAGG
 AACACAGCTTTGTCTTCAACATCATGGAGATCCAGCCCTTTCACCGTGCAGCTGCCATCCAGGCCATATC
 GTTGGATGCTGACCGGCGGAAGCTCTATGTGACCTCCCGTGGGAAGTGAAGCCAGGTACCCTGGACATG
 TGTGGGTCTACAGTGGGGGCTGCCATGGCTGCCTCATGTCCCGAGACCCCTACTGTGGCTGGGACCAGG
 ACCAGGACCGCTGTGTCTATCTACAGCTCCCAACGGTCAAGTGTGCAGTCCATCAATCCAGCTGAGCC
 ACACAGAGAGTGTCCCAACCCCAACCCAGATGAGGCTCCATTGCAGAAGGTTTCCCTGGCCCGAACTCT
 CGATACTACCTGACCTGCCCATGGAGTCCCGCCACGCCACCTACTTATGGCGCCACGAGGAGAATGTGG
 AACAGAGCTGTGAGCCAGGCCACCAAGCCCGAGCTGCATTCTATTCATAGAGAACCTCACTGCCCGTCA
 GTACGGCCACTACCGCTGCGAGGCCAAGAGGGTTCTACCTCCATGAGGCTCAACTGGGAGCTGCTG
 CCGGAGGACAGAGCGCTGGCCGAACAGCTCTTGGGCCATGCCCGGGCCCTGGCCGCTCCTTCTGGCTGG
 GGGTCTGCCACACTCGTACTAGGTCTGCTGGTTAC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208439 representing NM_001108153
Red=Cloning site Green=Tags(s)

MTPPPPGRAAPSAPRARVLSLPAFGLPLRLRLLLVFWVTAASAQGHRSRSGPRISAVWKGQDHVDFGQPE
 PHNVLFHEPGSFVWVGGGRGKVYLFNFPEGKNASVRTVNIIGSTKGCQDKQDCENYITLLERRGNLLVC
 GTNARKPSCWNLVNSVMSLGEKMGYAPFSPDENSLVLFEGDEVYSTIRKQYNGKIPRFRRIRGESEL
 YTSDTVMQNPQFIKATIVHQDQAYDDKIYYFFREDNPDKNPEAPLNVSRVAQLCRGDQGGESSLSVSKWN
 TFLKAMLVCSDAATNRFNRLQDVFLLPDPGQWRDTRVYGVFVSNPWNYSAVCVYSLGDIRVFRSSSLK
 GYHMGLPNPRPGMCLPKKQPIPTETTFQVADSHPEVAQRVEPMGPKLTPLFHSKYHYQKVVVHRMQASNGE
 TFHVLVLTDRGTIHKVVESGDQEHFVFNIMEIQPFHRAAAIQAIQLDADRRKLYVTSPEVSVQVPLDM
 CGVYSGGCHGCLMSRDPYCGWDQDQRCVSIYSSQRSVLQSNINPAEPHRECPNPNPDEAPLQKVS LARNS
 RYLLTCPMESRHATYLRHEENVEQSCEPHQSPSCILFIENLTARQYGHYRCEAQEGSYLHEAQHWELL
 PEDRALAEQLLGHARALAAFWLGVLP LVLG LLVH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001108153

ORF Size: 1998 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_001108153.1](#), [NP_001101623.1](#)

RefSeq Size: 2622 bp

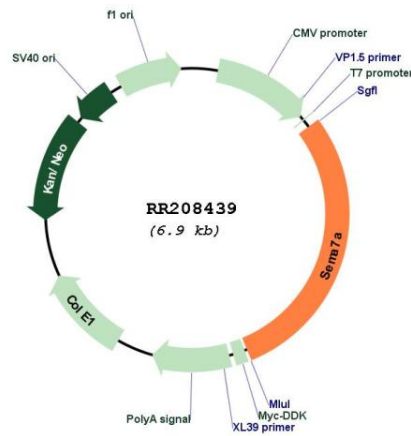
RefSeq ORF: 2001 bp

Locus ID: 315711

Cytogenetics: 8q24

MW: 75.1 kDa

Product images:



Circular map for RR208439