

## Product datasheet for **RR207123**

### Sema3d (NM\_001104633) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3d (NM_001104633) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema3d
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RR207123 representing NM\_001104633  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAATGCTAATAAAGATGAGAACCAAGGCCAGAAGTCAAGATCTTCACCTTTTTTCATGCTGGGATGA  
TGTTAATCGTGACTGTGCTATATCTTCCTGTCCTGAAACATCTAAACAAAATATTCCACCGCTCAAGCT  
AACCTACAAAGACTTGCTGCTCTCAAACACCTGCATTCCCTTTTTGGGTTTCATCAGAAGGACTGGATTTCC  
CAGACTCTTCTTTGGATGAGGAGAGGGGCATACTGCTCCTAGGAGCCAAAGACCATGTCTTCTGCTCA  
ATCTGGTAGACTTGAACAAGAACTTAAGAAGATTTATTGGCCTGCTGCAAAGGAACGAGTGGAACTATG  
TAAACTAGCTGGGAAAGATGCCAATACAGAATGTGCAAATTTTCATCCGTGTGCTTCAACCCTACAATAAG  
ACTCATGTTTACGTGTGGAACCTGGAGCATTTCACCTGTGTGGATATATTGATCTTGGAGCCAACA  
AGGAGGAACTCATATTTAACTAGACATGCAGAACCTGGAGTCTGGCAGACTGAAATGTCCTTTGATCC  
TCAGCAGCCTTTTCTCGGTAATGACAGATGAGCACCTCTACTCTGGAACAGCTTCTGATTTTCTTGGC  
AAAGACACTGCATTACAAAGATCCCTTGGGCTAATGCAGGACCACCATTACATCAGAAGTACATTTCCGG  
AACACTACTGGCTCAATGGAGCAAAATTTATCGGAACGTTCCCCATCCCAGACACCTATAATCCGGACGA  
TGACAAAATATATTTCTTCTTTCGGGAATCATCTCAGGAAGGCAGTACTTCTGACAGAAGCATTCTTTCA  
AGAGTTGGGAGAGTTTGAAGAATGATGTGGGTGGGCAGCGGAGTCTGATAAACAATGGACTACTTTTCT  
TTAAGGCAAGACTGGTTTGTCTCAATTCCTGGAAGTGTGGGGCAGATACTCACTTTGATGAACCTCAAGA  
TATTTACTTACTCCCTACGAGAGATGAAAGAAATCCTGTTGTGTATGGAGCTTTACCACAACAGTTCC  
ATCTTCAAAGGCTCTGCTGTCTGTGTACAGCATGGCTGATATCAGAGCAGTTTTAACGGTCCCTATG  
CTCATAAGGAAAGTGCAGACCATCGTTGGGTGCAATATGATGGAAGGATACCTTATCCCGACCCGGAAC  
GTGTCCCAGCAAAACCTATGATCCACTGATTAAGTCCACCCGAGACTTCCCAGATGATGTTATCAGTTTC  
ATAAGGCGGCACCCGGTGTGTATAAGTCGGTGTATCCAGTGGCCGGAGCACCCACCTTCAAGAGAATTA  
ACGTGGATTACAGACTGACGCAGATAGTGGTGGATCACGTGGTCGCTGAAGACGGACAGTATGATGTCAT  
GTTTCTCGGAACAGACATTGGAACCGTCTGAAAGTTGTGAGCATTTCGAAGGAGAAGTGGAAATATGGAG  
GAGGTAGTCTCGAGGAGCTTCAAGTATCAAGCACCCAAACAGCCATCTTGAACATGGAGTTGTCGCTGA  
AGCAGCAACAGTTGTACGTGGTCTCTGGGATGGATTGGTTCAGCTCTCCTTGCACAGATGCGATACTTA  
TGGGAAAGCCTGTGCAGACTGCTGTCTCGCCAGAGACCCTTACTGTGCTGGGATGGAAATGCTTGTCTCC  
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GCTGGGACATAGAAGACAGCATTAGTCATGAAGCAGCTGATGAAAAGGTGATTTTCGGAATTGAATTTAA  
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GATGAGCATCGAGAAGAGTTGAAACCCGATGAAAGGATCATCAAAACGGACTATGGGCTACTGATTCCGAA  
GCCTGCAGAAGAAGGACTCTGGGATTTATTACTGCAAAGCACAGGAGCACACTTTTCATCCACACCATAGT  
GAAGCTGACTTTGAATGTCATTGAGAATGAACAGATGGAAAATAACCAGAGGGCAGAATACCAGGAGGGG  
CAGGTCAAGGATCTGTTGGCTGAGTCACGGTTGAGATACAAAGACTACATCCAAATCCTTAGCAGCCAA  
ACTTCAGCCTGGACCAGTACTGTGAGCAGATGTGGTACAGGGAGAAGCGGAGACAGCGCAACAAGGGCAG  
CGCAAAGTGGAAAGCACATGCAGGAAATGAAGAAGAAACGGAATCGACGGCATCACAGAGACCTGGATGAG  
CTTCAGAGATCAGTGGCTACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR207123 representing NM\_001104633  
 Red=Cloning site Green=Tags(s)

MNANKDENPRPRSQDLHLFHAGMMLIVTVLYLPVTETSKQNIPLKLYKDLLLSNTCIPFLGSSEGLDF  
 QTLLEDEERGILLGAKDHVFLNLVDLNKNFKKIYWPAKVERVELCKLAGKDANTECANFIRVLQPYNK  
 THVYVCGTGAFHPLCGYIDLKANKEELIFKLDMQNLESGRLKCPFDPPQPFASVMTDEHLYSGTASDFLG  
 KDTAFTRSLGLMQDHHYIRTDISEHYWLNKAKF IGTFPIPDTYNPDDDKIYFFFRESSQEGSTSDRSILS  
 RVGRVCKNDVGGQRSLINKWTTFLKARLVCSIPGSDGADTHFDELQDIYLLPTRDERNPVYGVFTTTSS  
 IFKGSAVCVYSMADIRAVFNGPYAHKESADHRWVQYDGRIPYPRPGT CPSKTYDPLIKSTRDFPDDVISF  
 IRRHPVMYKSVYPVAGAPTFKRINVDYRLTQIVVDHVVAEDGQYDVMFLGTDIGTVLKVVVISKEKWME  
 EVVLEELQVFKHPTAILNMELESLKQQQLYVGSWDGLVQLSLHRCPTYGKACADCCCLARDPYCAWDGNACS  
 RYAPTSKRARRQDVKYGDPITQCWDIEDSISHEAADEKVIKIEFNSTFLECIPKSQQASVEWYIQRSG  
 DEHREELKPDERIKTDYGLLIRSLQKKDSGIYCKAQEHTFIHTIVKLTLNVIENQEMENNQRAEYQEG  
 QVKDLLEAERLRYKDYIQLSSPNFSLDQYCEQMWYREKRRQRNKGSAKWKHMQEMKKKRNRRHRDLDE  
 LQRSVAT

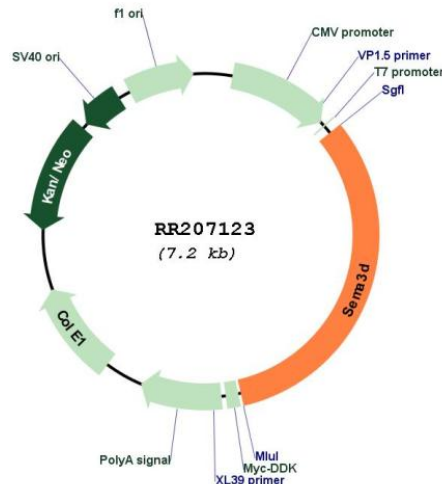
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001104633

**ORF Size:** 2331 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\\_001104633.1](#), [NP\\_001098103.1](#)

**RefSeq Size:** 4922 bp

**RefSeq ORF:** 2334 bp

**Locus ID:** 246262

**Cytogenetics:** 4q12

MW: 89.5 kDa