

Product datasheet for **MR217350**

Sema3d (NM_028882) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3d (NM_028882) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema3d
Synonyms:	4631426B19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217350 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAATGTTACTAAAGATGAGAACCAAGATCCAGAAGTCAAGATCTTCACCTTTTTTCATGCTTGGATGA
 TGTTAATCATGACGGTGCCTTTTCTTCTGTCCTGAAACGTCTAAACAAAATATTCCAAGACTCAAGCT
 AACCTACAAAGACTTGCTGCTTTCAAACACCTGTATCCCTTTTTGGGTTTCATCAGAAGGATTGGATTTCC
 CAGACTCTTCTTTGGATGAGGAGAGGGGCATACTGCTCCTAGGAGCCAAAGACCATGTCTTCTGCTCA
 GTCTGGTTGACTTGAACAAGAATTTTAAGAAGATTTATTGGCCTGCTGAAAAGAACGAGTGGAGCTATG
 TAAATTAGCTGGGAAAGATGCCAATGCAGAATGTGCAATTTTCATCCGTGTGCTTCAACCTATAATAAG
 ACTCACGTTTACGTGTGGAACGGAGCGTTTCATCCGCTGTGGGTACATTGATCTCGGCGCCAACA
 AGGAGAACTCATATTTAACTAGACACGCACAACCTGGAGTCTGGCAGACTGAAATGTCCCTTTGATCC
 TCAGCAGCCTTTTCTCAGTAATGACAGATGAGCACCTCTACTCTGGAACAGCTTCTGATTTCCCTTGGC
 AAAGACACTGCATTCACAAGGTCTCTGGGGCTAATGCAGGACCACCATTCCATCAGAAGTACATTTTCAG
 AGCACCCTGGCTCAATGGAGCAAAATTTATCGGAACATTCCCCATTCCAGACACCTATAATCCAGATGA
 TGATAAAATATATTTCTTCTTTCGAGAATCATCCAGGAAGGCAGTACTTCTGACAGAAGCATTCTTTCA
 AGAGTTGGAAGAGTTTGTAAAGATGATGTAGGTGGGCAACGAAGTCTGATAAACAATGGACAACTTTTTC
 TAAAGGCAAGACTGATTTGCTCGATTCTGGAAGCGATGGGGCAGATACCCATTTTGGTAACTCCAAGA
 TATTTACTTACTCCCTACGAGAGATGAAAGAAATCCTGTAGTATATGGAGTCTTTACCACAACAGCTCC
 ATCTTCAAAGGCTCTGCTGTCTGTGTACAGCATGGCTGATATCCGAGCAGTCTTAATGGTCCCTATG
 CTCATAAGGAAAGTCTGACCATCGCTGGGTGCAATATGATGGAAGGATACCTTACCCCGACCTGGAAC
 GTGTCCAAGCAAAACCTATGACCCACTGATTAAGTCCACCCGAGACTTTCCAGACGATGTTATCAGTTTC
 ATAAGGCGGCACCCTGTGATGTATAAGTCCGTGTACCCAGTGGCAGGAGCACCGACCTTCAAGAGATCA
 ACGTGGATTACAGACTGACGCAGATAGTGGTGGATCACGTGGTGCCTGAAGACGGGCAGTATGATGTCAT
 GTTTCTCGGAACAGACATTGGAACAGTCTGAAAGTTGTGAGCATCTCCAAGGAGAAGTGGAAATATGGAA
 GAGGTCGACTGGAGGAGCTTCAAGTATCAAGCACCCAAACAGCTATCTTGAACATGGAGTTGTCGCTGA
 AGCAGCAACAGTGTACGTTGGTTCCTGGGATGGATTGGTCCAGCTCTCCTTGCACAGATGCGACACTTA
 CGGAAAGCATGTGCAGACTGCTGTCTCGCCAGAGACCCTTACTGTGCCTGGGATGGAAATGCTTGTCTCC
 AGATATGCACCCAGTCTAAAAGGCGAGCTAGACGCCAGGATGTAAAATATGGGGACCCAACTCACTCAGT
 GCTGGGACATAGAAGACAGCATTAGTCATGAAACAGCTGATGAAAAGGTGATTTTGGAAATGAATTTAA
 TTCAACCTTTTTGGAGTGTATACCTAAATCCCAACAAGCCTCTGTTGAGTGGTACATCCAGCGGTACGGA
 GATGAGCATCGAGAGGAGTTGAAACCTGATGAAAGGATCATCAAACTGACTATGGGCTACTGATTCGAA
 GTCTGCAGAAGAAGGATTCTGGGATGATTAAGTCAAAAGCACAGGAGCACACTTTTCATCCACACCATAGT
 GAAGCTGACTTTGAATGTCATTGAGAATGAACAGATGGAAAATACCCAGAGGGCAGAATACCAGGAGGGG
 CAGGTCAAGGATCTGTTGGCTGAGTCACGGTTGAGATACAAGACTACATCCAAATCCTTAGCAGCCCGA
 ACTTCAGCCTGGACCAGTACTGTGAGCAGATGTGGTACAAGGAGAAGCGGAGACAGCGCAACAAGGGCAG
 CCCAAAGTGAAGCACATGCAGGAAATGAAGAAGAAACGAAATCGACGACATCACAGAGACCTCGATGAG
 CTCCAGAGATCAGTAGCTACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217350 protein sequence
 Red=Cloning site Green=Tags(s)

MNVTKDENPRSRSQDLHLFHAWMLIMTVLFLPVTETSKQNIPLKLTWKDLLLLSNTCIPFLGSSEGLDF
 QTLLLDEERGILLGAKDHFLLSLVDLNKFKKIYWPAKERVLCCLAGKDANAECANFIRVLQPYNK
 THVYVCGTGAFHPLCGYIDLGANKEELIFKLDTHNLESGRLKCPFDPPQPFASVMTDEHLYSGTASDFLG
 KDTAFTRSLGLMQDHHSIRTDISEHHWLNKAKFIGTFPIPDTYNPDDDKIYFFFRESSQEGSTSDRSILS
 RVGRVCKNDVGGQRSLINKWTFKARLICSIPGSDGADTHFDELQDIYLLPTRDERNPVYGVFTTTSS
 IFKGSAVCVYSMADIRAVFNGPYAHKESADHRWVQYDGRIPYPRPGTSPSKTYDPLIKSTRDFPDDVISF
 IRRHPVMYKSVYPVAGAPTFKRINVDYRLTQIVVDHVVAEDGQYDVMFLGTDIGTVLKVVISKEKWNME
 EVVLEELQVFKHPTAILNMELESLKQQQLYVGSWDGLVQLSLHRCPTYGKACADCCCLARDPYCAWDGNACS
 RYAPTSKRARRRQDVKYGDPITQCWDIEDSISHETADEKVIIFGIEFNSTFLECIPKSQQASVEWYIQRSG
 DEHREELKPDERIIKTDYGLLIRSLQKKDSGMYCKAQEHTFIHTIVKLTLNVIENEQMENTQRAEYQEG
 QVKDLLAESRLRYKDYIQLSSPNFSLDQYCEQMWYKEKRRQRNKGSPKWKHMQEMKKRNRHRDLDE
 LQRSVAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shuttling:

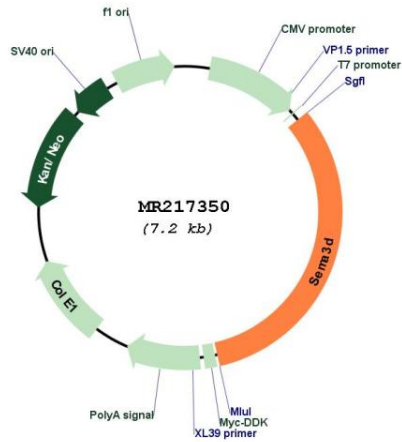


* The last codon before the Stop codon of the ORF

ACCN: NM_028882
 ORF Size: 2334 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_028882.4 , NP_083158.3
RefSeq Size:	6521 bp
RefSeq ORF:	2334 bp
Locus ID:	108151
UniProt ID:	Q8BH34
Cytogenetics:	5 A1
MW:	89.5 kDa
Gene Summary:	Induces the collapse and paralysis of neuronal growth cones. Could potentially act as repulsive cues toward specific neuronal populations. Binds to neuropilin (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217350