

Product datasheet for **RR217203**

Sema3g (NM_001100882) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3g (NM_001100882) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema3g
Synonyms:	CSG53; RGD1306079
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RR217203 representing NM_001100882
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCCTGCTCCGCTTGGGCCATCTGCTGCCTCTGGGGAGCCTTCTGTTCCACATGGGCAGCCCGA
 ACCTGGTCCCAGCACCAGTGTGCCTCGTCTGCGGCTCTCTACAGAGATCTCTGACTACCAACCGCTC
 TGCCATCTTTCTGGGTCCACGGGCTCCCTAGACCTCCAAGTCATGTACCTGGATGAGTATCGGGACCGC
 CTCTTTCTGGGAGGCCGAGATGCCCTTTACTCTGAGACTGGATCAGGCATGGCCAGATCCCCGGGAGG
 TCTTGTGGCCCGCAGCCCGGACAGAAGTGGAAATGTGTCCGAAAGGAAAAGACCCTTTGACCGAGTG
 TGCCAACCTCGTGCGGTCTTACAACCCACAACCGACCCTCTGCTGGCTGCGGCACCTGGCCCTTC
 CAGCCCATCTGCACCTTCATCACAGTGGGGCATCGGGGGAGCATGTGCTCCACTGGATCTAGCAGCA
 TCGAAAATGGAAGGGGGCTTGGCCACACGAGCCAGCCGTCCTTCGCCAGTACCTTTGAGTGGGGA
 GCTGTACACGGGCTCACTGCTGATTTCTCGGACGTGAGGCCATGATTTCCGGAGTGGGGTCCCGA
 CCAGCCCTGCGTTCTGACTCTGACCAGAGCCTCTACATGATCCCCGTTTGTGATGGCTGCTCGGATCC
 CAGATAACTCCGACCGGGATGATGACAAAGTACTTCTTCTCTGAGACTGTCCCTTACCAGATGG
 TGGCCAGGTCATGTCACCGTCAGCCGCGTGGTCCGAGTCTGTGTAATGATGCTGGTGGCCAGCGGGTG
 CTGGTGAATAAATGGAGCACGTTCTCAAGGCCAGGCTGGTATGCTCTGTGCCTGGCCCTGGCGGGCTG
 AGACTCACTTTGACCAGTGGAGGATGTGTTCTGCTGTGGCCAAAGGCAGGGAAGAACCTCGAGGTGTA
 TGCGCTGTTACAGACTGTAGTGTGTTCCGGGCTTGTGTCTGTGTGTACCACATGGTAGACATC
 TGGGAGGCTTCAACGGGCCCTTCGCTCACGAGATGGCCCTCAACATCAGTGGGACCCATGAGGGGCA
 AGGTGCCCTTCCCCGGCCTGGTGTGTGCCAGCAAGATGACCGCACAGCCCGCCGACCCCTTTGGCAG
 CACCAAGGACTACCCGGATGAGGTGCTGCAGTTTGTCCGAGGCCACCCGCTCATGTTCCAGCCTGTGAGG
 CCTCGGCTGGCCGCCCCGCTCTGGTCAAACTCACCTGGCTCAGCAACTGTGCCAGATCGTGGTGGACA
 GAGTGGAGGCTGAGGATGGGACCTACGATGTCATCTTCTAGGGACTGATTCAGGTTCTGTGCTCAAAAT
 CATCGCTCTCCAGGAGTGGCTTACCCGAACCGAAGAGGTGGTCTGGAGGAGCTCCAGGTGTTAAG
 GTACCAACACCCATCACTGAGATGGAGATCTCTGTCAAAGGCAAACGCTGTATGTGGGCTCTCCACTGG
 GCGTGGCCCGGCTGCAGCTGCACCAGTGTGAGACTTATGGCAGTGCCTGCGCTGAGTGTGCTGGCCCG
 GGACCCATACTGTGCTTGGGACGGCACTTCTGTGCCCGTACCGCCAGCTCGGGCAAGCGCAGGTTT
 CGACGACAGGACATCCGACATGGCAATCCTGCTGTGCAGTGTCTGGGCCAGGGCCAGAGCCAAGACAAG
 CCTCGGGACTGGTACCAGAGTCTTGGCACAGAGCACAAACAGTACCTTCCCTGAGTGCCGGCCAAAGTC
 TCCCCAGGCTGCAGTGGCTGGTCTTACAAGGCCAGGGGATAAGGGGGCTGACCAGGTGAAGACAGAT
 GAGCGAGTTGTGCAGACGGACCAGGGGCTTCTGTTCCGAAGGCTCAGCCGCTTGTGACAGGAACTACA
 CCTGTACCACTCTGGAGCACGGCTTCTCCAGACCGTGGTTCGTTTTGCCCTGGAGGTGATTGCGGCTGT
 GCAGCTGGACAGCCTGTTCTTCGGGAGCAAGGCTGGAGGAGCCCTCAGCCTGGCGAAGTGTGGCTTCT
 GCCTCACCAAGACTTGGTATAAGGACATCCTTCAGCTCACTGGTTTCGCCAACCTGCCCGCGTGGATG
 AGTACTGCGAACGTGTGGTGCAGGGGTGTCGGGAGCGCTCGGGCTCCTTCCGCGAAAGGGAAAGCA
 GGCGAAGGGCAAGAGCTGGGCGGGCTAGAGCTGGGCAGGAAGATGAAGAGCCGGGTGCAGGCTGAGCAC
 AATCGGACCCCCGGGAGGTAGAAGCCACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR217203 representing NM_001100882
Red=Cloning site Green=Tags(s)

MARCSAWAICCLLGSLLFHMGSPNPGPSTSVPRRLRSYRDLLTTNRSAILFGPRGSLDLQVMYLDEYRDR
LFLGGRDALYSLRLDQAWPDPREVLWPPQPGQKVECVRKGDPLTECANFVRVLQPHNRTHLLACGTGAF
QPICTFITVGHGRGEHVLHLDPSSIENGRGRCPEPSRPFASFVGGELYTGLTADFLGREAMIFRSGGPR
PALRSDSDQSLLDHPRFVMAARIPDNSDRDDKVYFFFSETVPSPDGGPGHVTVSRVGRVCVNDAGGQRV
LVNKWSTFLKARLVCSVPGPGAETHFDQLEDVFLWPKAGKNLEVYALFSTVSAVFRGFVAVCVYHMVDI
WEVFNGPFAHRDGPQHGWGYPGGKVPFPRPGVCPKMTAQGRPFSTKDYDDEVLQFVRGHPLMFQPVV
PRRGRPVLVKTHLAQQLCQIVVDRVEAEDGTYDVIIFLGTDSGSLKIIALQGSGLPEPEEVVLEELQVFK
VPTPITEMEISVKRQTLVYGSPLGVARLQLHQCEYGSACAECCLARDPYCAWDGTSCARYRPSSGKRRF
RRQDIRHGNAVQCLGQGSQDKASGLVTRVFGTEHNSTFLECRPKSPQAAVRWFLQRPDGDGADQVKT
ERVVQTDQGLLFRRLSRLDAGNYTCTTLEHGFSTVVRFALEVIAAVQLDSLFLREPRLEEPSAWRSVAS
ASPKTWYKDILQLTGFANLPRVDEYCVWCRGVGERSGSRGKQAKGKSWAGLELGRKMKSRVQAEH
NRTPREVEAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001100882

ORF Size: 2340 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_001100882.1](#), [NP_001094352.1](#)

RefSeq Size: 3626 bp

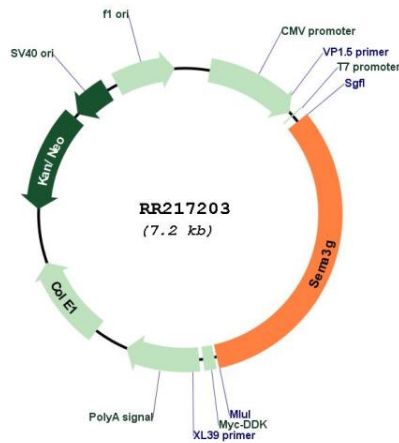
RefSeq ORF: 2343 bp

Locus ID: 290562

Cytogenetics: 16p16

MW: 86.9 kDa

Product images:



Circular map for RR217203