

Product datasheet for **MR210903**

Sema4g (NM_011976) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema4g (NM_011976) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema4g
Synonyms:	A1507908; AW554132
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR210903 representing NM_011976
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGGGGAGGCTCTGGCCCTCTCTCAGCTTTCTCACAGTAACAGCAGTGCCTGGACCCTCACTGC
 GGAGACCATCCCGAGAGCTAGATGCCACCCACGGCTGACCATCTCCTATGAAGAGCTCTCCAGATTCCG
 GCACTTCAAGGGCCAAACCCAGAATAATCAACTGCTGCTGGAGGAGGCTTCTGAGAGGCTGCTGGTG
 GGGGCTCGAGGCGCCCTGTTCTCTCAGTGCCCGTGACATAAGAGATAGGACTCACAAAGAGATCCACT
 GGGAGGCCTCCCGAGAGATGCAAAGCAAGTGTCATCAGAAAGGGAAAAACAACCAGACCGAGTGTTCAA
 CCACGTGCGATTTCTACAGCGGCTCAATGCCACCCACTTCTATGCATGTGGGACCCACGCTTCCAGCCC
 CTCTGTGCAGCTATTGATGCTGAAACCTTCATCTTGCTACTAGTTTCGAGGAGGAAAGGAGAAATGTC
 CTTATGACCCGGCCCGGGCTTACAGGCCTTATCATTGATGGAGGCTCTACACAGCCACCCGGTATGA
 ATTCGGAGCATTCTGATATCCGCCGGAGCCGCCACCCACACTCTCTGAGAAGTGAAGGAGCAGCCATG
 CACTGGCTCAATGATGCTGAGTTTGTGTTCTGTGCTGGTGCGGAGAGCAAGACAAGCGCAGTGGGTG
 ATGATGACAAGATTTATTTCTTCTTTCATGGAGCGTGAGGAAGGCTCCAGCAGTTTACACAGAGTCCGAG
 CAGCCACCGTGTGGCTAGAGTAGCCGTGTGTGCAAGGGAGATCTGGGAGGGAAGAAGATCCTACAGAAG
 AAGTGGACATCCTTCTGAAGGCTCGTCTCATCTGCCACATCCCACAGTATGAGACACTACGTGGGTCT
 GCAGCCTGAATGCTGATACATCATCCACACACATTTCTATGCCGTCTTACACTGACAACACAGTGAA
 GACGCTGGAGGCTTACAGCATCTGCCGCTATGACCTGGCTGAGATTACAGGCTGTCTTACAGGCCCTTTT
 ATGGAGTACCAGGATGGTGCCCGGCTGGGGCCGCTATGAGGGTGGGTGCCTGAACCCCGGCTGGCT
 CGTGATCACAGATTCATTGCGCAGCCGAGGCTACAACATCCCAAGACTTGCCATCCTTGTTCTGGA
 CTTTGTGAAGTTGCATCCCTGATGGCTCGGCCTGTGGTGCCACACAGTGGGCGGCCCTTGTCTGCTGAAG
 CGCAATGTACGCTACACACATCTCACAGGAACACAGTACGACACCTGTGGACCCACCTATGACCTGC
 TCTTTCTGGGCACAGCTGATGGCTGGATCCACAAGGCCGTAGTCTGGGCTCTGGGATGCACATAATTGA
 AGAGATAACAAGTGTTCAGGGAGCCCGAGTCTGTGGACAATCTAGTTATCTACCAATGCAGCACAGCCTC
 TACGTGGGGGCTGCAAGTGGAGTCTCCAGTTTCTCTGTCCAGCTGCTCAGCTACCAGTCTGCTATG
 ACTGCATCCTGGCACGGGACCCCTACTGTGGCTGGGACTCCAGCATCCATGCCTGCATGGTGGCCACCAC
 CGTAGCCAACAGGACAGAATTGATACAGGACATAGAGAGAGGAAATCGAGGCTGTGAGGGCAGCAGGGAT
 GCAGGACCACCACCACCTCAAGACCCGATCTGTGCTCCGGGTGATGATGTCTCCTGCCCTGTGACC
 AGCCGTCTAACCTGGCCCGGGCTTTGTGGCTACTCAATGGGAGCAAGAGCCTGAGCGATGGGCAGGATGG
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 TATGCCGAGGAGAATGGCTCCGTATGCTGCTGGCGTCTACAGCCTCACAGTCCGGCCAGCCACCCCTG
 CTCCAGCTCCACAAGCCCTGCCACACCTGGGGCAGAGTGGCACATGACATGAGGATGTTCATGTGGT
 AGCCATTGCTATACTTGGTGGCTCTGCCTCATCTTGGCATCTTCCCTCCTCTATGTGGCTGTCTGAAG
 GGAGGCAGACGAGGTGGAAGACGAAAATACTCATTGGGTGGGCTGGCCGGGCAGGGGCTCGGCCGTGC
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 TCTGGAGAGTGGCTGCCTCCAGATCATTCCGGGGAAGGAGCCCAAGCCCAACCCCAACCCCAACCCCA
 CCCCCACCCGCTGAGCTGACCAATGGGCTGGTGGCACTGCCAGCCGGCTGCGAAGGATGAATGGCAACA
 GTTATGTGCTCCTGAGGCAGAGCAACAATGGAGTGCCAGCAGGACCCTGCTCCTTTGAGAGGAGCTCAG
 CCGCATCTGGAGAAGAGGAAGCACACACAGCTTGTAGAGCAACTAGACGAGAGCTCTGTC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210903 representing NM_011976
Red=Cloning site Green=Tags(s)

MWGRLWPLLFSLTVTAVPGPSLRPSRELDATPRLTISYEELSQRHFHKGQTQNYSTLLLEEASERLLV
GARGALFSLSARDIRDRTHKEIHWEASPEMQSKCHQKGNQTECFNHVRFLQRLNATHFYACGTHAFQP
LCAAIDAETFILPTSFEEGKEKCPYDPARGFTGLIIDGGLYTATRYEFRSIPDIRSRHPHSLRTEEAPM
HWNDAEFVFSVLVRESKTSAVGDDDKIYFFMEREEGSSFTQSRSSHRVARVARVCKGDLGGKKILQK
KWTSLFKARLICHIPQYETLRGVCSLNADTSSHTFYAVFTLTTQWKTLEASAIcryDLAEIQAVFTGPF
MEYQDGARRWGRYEGGVPEPRPGSCITDSLRSRGYNSSQDLPSLVDFVKLHPLMARPVVPTGRPLLLK
RNVRYTHLTGTHVSTPAGPTYDLLFLGTADGWIHKAVVLGSGMHIEEIQVFREPQSVNLSVSPMQHSL
YVGAASGVLQFPLSSCSRYQSCYDCILARDPYCGWSSIHACMVATTVANRTELIQDIERNRGCEGSRD
AGPPPPLKTRSVLRGDDVLLPCDQPSNLARALWLLNGSKSLSDGQDGYRVGVDGLLVTDQLEHSGNYGC
YAEENGLRMLLASYSLTVRPATPAPAPQAPATPGAQLAHDMRMFYVVAIAILGGLCLILASSLLYVACLK
GRRRGRRRKYSLGRAGRAGGSVQLQTVSGQCPGEEDEGDDGEGTGGLESGCLQIIPGEGAPAPPPPPP
PPPAELTNGLVALPSRLRRMNGNSYVLLRQSNNGVPAGPCSAEELSRILEKRKHTQLVEQLDESSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9012_h02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011976

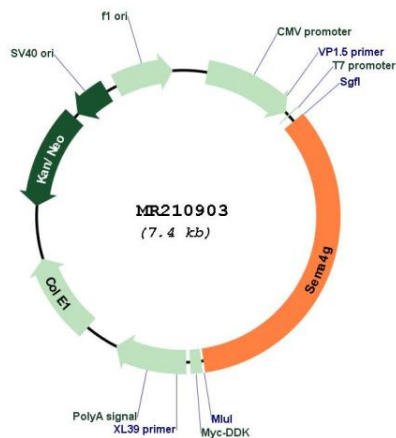
ORF Size: 2511 bp

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.

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:	<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_011976.1 , NP_036106.1
RefSeq Size:	4310 bp
RefSeq ORF:	2514 bp
Locus ID:	26456
UniProt ID:	Q9WUH7
Cytogenetics:	19 C3
MW:	92.8 kDa
Gene Summary:	Cell surface receptor for PLXNB2. May play a role in axon guidance.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210903