

## Product datasheet for **MR222495**

### Sema3g (NM\_001025379) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3g (NM_001025379) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema3g
Synonyms:	AK129018
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR222495 representing NM\_001025379  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACCCATCTGCGTGGGCCATCTGCTGCCTCCTGGGGAGCCTTCTGTTCCATGTGGGCATCCCCAGCC  
 CTGGTCCCAGCCCAGTGTGCCTCGTCTGCGGCTCCTACAGAGATCTCCTGTCTACCAACCGCTCTGC  
 CATCTTTCTGGGCCACGGGTTCCCTAGACCTCCAAGTCATGTACCTGGATGAGTATCGAGATCGCCTC  
 TTTCTGGGAAGCCGAGATGCCCTTACTCTGAGACTGGATCAGGCATGGCCAGACCCCGGGAGGTCT  
 TGTGGCTGCCACAGCCAGGACAGAAGGTGGAATGTGTCCGCAAGGGAAAAGACCCTTTGACGGAGTGTGC  
 CAACTTCGTGCGGGTCTTACAACCCATAACCGGACCCATCTGCTGGCCTGTGGCACAGGAGCCTTCCAA  
 CCCATCTGCACCTTCATCACAGTGGGGCATCGAGGGGAGCATGTGCTCCGCTTGGATGCTAGCAGCGTCG  
 AGAATGGAAGGGGGCGTTGCCACATGAGCCCAGCCGACCCTTCCGACGACCTTTGTAGGTGGGGAGCT  
 ATACACAGGTCTACTGCCGATTTCTGGGACGTGAGGCCATGATTTTCCGGAGTGGGGTCCCCGACCA  
 GCCTGCGTTCTGACTCTGACCAGACCTCTACATGAACCCCGTTTGTGATGGCTGCTCGGATCCAG  
 ATAACTCTGACCGGGACGACGACAAGGTGACTTCTTCTCTCCGAGACTGTCCCGTACCAGATGGTGG  
 CCCAGGTGATGTACCATCAGCCGAGTGGGCCGCGTCTGTGTGAATGATGCTGGTGGCCAGCGGGTGTG  
 GTGAACAAATGGAGCACTTCTCAAGGCCCGGCTGGTGTGCTCTGTGCCTGGCCCGGTGGGGTGTGAGA  
 CTCACCTTGACAGCTAGAGGATGTGTTCTGCTGTGGCCCAAGGCCGGGAAGAGCCTCGAGGTGTATGC  
 GCTGTTGACACTGTGAGTGTGTTCCAGGGCTTGTGCTGTGTGTGTACCACATGGTAGACATCTGG  
 GAGGTTCAATGGGCCCTTGGCCACGAGATGGCCCTCAGCATCAGTGGGACCCTATGGGGCAAGG  
 TGCCCTTCCCTCGCCCCGGTGTGTGCTTAGCAAGATGACCGCACAGCCAGGCCGACCCTTGGCAGCAC  
 CAAGGACTACCCAGACGAGGTGTGTCAGTTTGTCCGAGACCACCACTCATGTTCCAGCCTGTGAGGCCT  
 CGGCGTGGCCGCTGTCTGGTCAAACTCACTTGGCTCAGCGACTGCGCCAGATTGTGGTGGATCGAG  
 TGGAGGCTGAGGATGGGACCTATGATGTCATCTTCTAGGGACTGATTCGGGTTCTGTGCTCAAAGTCAT  
 TGCCCTCCAGGGTGGTGGCTTACTGAACCTGAAGAGGTGGTTTTGGAGGAGCTCCAGGTGTTAAGGTG  
 CCAACGCCATCACTGAGATGGAGATCTGTCAAAGGCCAAACGCTGTATGTGGCTCTCCACTGGGTG  
 TGGCCCGCTGCAGCTGCACCAGTGTGAGACTACGGCAGTGCCTGTGCTGAGTGTGCCTGGCCCGGA  
 CCCATACTGTGCTTGGGATGGCACTGCCTGTGCCGCTACCGCCAGCTCTGGCAAGCGCAGGTTCCGT  
 CGGCAGGACATACGCCATGGCAACCCTGTGTGCAAGTGTCTGGCCAGGGCCAGGCCAAAACAAAGCAG  
 CTTCCGGGCTCATGACCAGAGTCTTGGCACAGAGCACAAACAGCACCTTCCCTGAGTGCCTGCCAAGTC  
 TCCTCAGGCTGCAGTGGCTGGTCTTACAAGGCCAGGGGATAAGGGGACTGACCAGGTGAAGACAGAT  
 GAGAGAGTTGTGCAGACGGCCAAAGGGCTGCTGTTCCGAAGGCTCAGCCGCCATGACGCAGGAACTACA  
 CTTGCACCACTCTGGAACATGGCTTCTCCAGACCGTGGTCCGTTTTGCCCTGGAGGTGATTGCAGCTGT  
 GCAACTGGACAGCCTGTTCTTCGGGAGTCAAGGCTAGAGGAGCCCTCAGCCTGGGGAAGCCTGGCCTCT  
 GCCTCCCCAAGACTTGGTATAAGGACATCCTTACGCTCACGGGCTTCGCCAACCTGCCCGTGTGGATG  
 AGTACTGTGAACGTGTATGGTGCAGGGGTGTGGGGAGCGCTCAGGCTCCTTCCGCGAAAGGGAAAGCA  
 AGCGAAGGGCAAGAGCTGGCAGGGCTGGAACCTGGCAAGAAGATGAAGAGCAGGCTGCTGGCTGAGCAC  
 AATCGGACACCCCGGGAGGTAGAAGCCACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001025379

**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\\_001025379.1](#), [NP\\_001020550.1](#)

**RefSeq Size:** 3686 bp

**RefSeq ORF:** 2343 bp

**Locus ID:** 218877

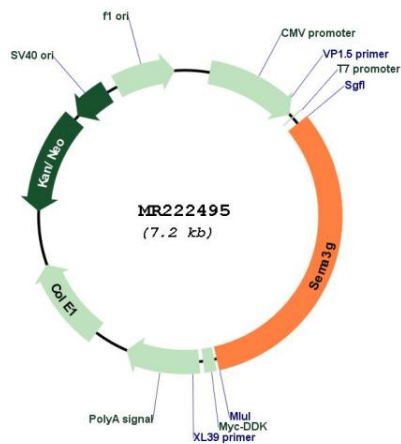
**UniProt ID:** [Q4LFA9](#)

**Cytogenetics:** 14 B

MW: 87.1 kDa

Gene Summary: Has chemorepulsive activities for sympathetic axons. Ligand of NRP2.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222495