

## Product datasheet for **MG210479**

### Sema3f (NM\_011349) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3f (NM_011349) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sema3f
Synonyms:	Sema4; Semak
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210479 representing NM\_011349  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTTGTCACTGCCTTCATCCTCTGGCTTCCCTGCTGACCGGGCCTGGCCTGTACCCCTATCCAGG  
 ACCAGCTTCCAGCCACACCTAGAGTCCGACTGTCAATCAAAGAACTTAAGGCCACCGGTACCGCCACTT  
 CTTCAACTTTCTGCTCAACACTACAGACTACAGAATCCTGCTCAAGGATGAGGACCATGACCGCATGTAT  
 GTGGGCAGCAAGGACTACGTGCTGTCCCTGGACCTGCATGACATCAACCGAGAGCCCTTATTATCCATT  
 GGGCAGCCTCCCCGAGCGCATTGAGGAGTGCATACTGTCAGGCAAGGATGGCAATGGAGAGTGTGGTAA  
 CTTCTGTCGGCTCATCCAGCCTTGAACCGAACACACCTGTATGTGTGGGACCGGTGCCTACAACCCC  
 ATGTGCACCTATGTGAACCGTGGCCGTCGCGCACAGGATTACATCTTCTACCTGGAGCCTGAGAACTGG  
 AGTCAGGAAAAGGCAAATGTCCCTATGACCCCAAGCTGGACACAGCCTCAGCCCTCATCAATGAGGAACT  
 CTATGCAGGAGTGTACATCGATTTTATGGGTACCGATGCAGCCATTTCCGCACGCTGGGGAAGCAGACA  
 GCCATGCCACAGATCAGTACAACCTCCCGTGGCTCAATGATCCTTCCTCATACATGCTGAGCTCATCC  
 CTGACAGTGCAGAGCGCAATGACGATAAACTCTACTTCTTCTCCGAGAGCGCTCGGCAGAGGCGCCACA  
 GAACCTGCTGTGTATGCCCGCATCGGGCGCATCTGCCTCAACGATGACGGTGGCCATTGCTGCCTGGTC  
 AACAAAGTGGAGCACATTCCTGAAGGCTCGGCTCGTCTGCTCCGTGCCAGGCGAGGATGGTATTGAGACCC  
 ACTTCGACGAACCTCAGGATGTGTTTGTCCAGCAGACCCAGGACGTCAGGAACCCAGTCATTTATGCTGT  
 CTTTACCTCTTCAGGCTCTGTGTCCGAGGGTCTGCAGTGTGTCTACTCCATGGCTGATATCCGCATG  
 GTCTTCAATGGGCCTTTTGTCCACAAGGAGGGCCCAACTATCAATGGATGCCCTTCTCAGGAAAGATGC  
 CTTATCCTCGGCCTGGCACATGCCCTGGTGGAACTTACGCCCCTCGATGAAGTCCACTAAGGACTACCC  
 TGATGAAGTGATCAACTTCATGCGCACTCATCCGCTCATGTACCAGGCCGTCTACCCGCTCCAGCGCGCA  
 CCCCTGGTGGTCCGTACAGGCGCTCCCTACCGCTCACCACTGTCGCTGTGGACCAGGTGGATGCAGCTG  
 ATGGACGCTATGAGGTGCTTTTCTGGGCACAGACCGGGGACAGTGCAGAAGGTATCGTGTGCCCAA  
 GGACGACCAGGAGGTGGAAGAGCTGATGCTAGAGGAAGTGGAGTCTTCAAGGAACCAGCACCTGTTAAG  
 ACCATGACCATCTCTTCCAAGAGGCAACAACCTGTATGTGGCTCAGCCGTGGGTGTCACACACCTGAGCC  
 TGCACCGCTGCCAGGCCTATGGAGCTGCCTGTGCCGACTGCTGCCTTGCCCGGATCCCTACTGTGCCTG  
 GGATGGCCAGGCCTGCTCTCGCTACACAGCATCCTCAAGAGGCGGAGTCGCCGGAAGATGTCCGCCAC  
 GGAACCCCTATCAGACAGTGCCTGGTTTCAATCCAATGCAAACAAGAATGCCGTAGAGTCTGTGCAGT  
 ACGGAGTGGCCGGCAGCGCAGCTTTCCTTGAGTGTGAGCCCGCTCACCTCAAGCCACTGTCAAGTGGCT  
 GTTCCAGCGAGATCCCAGTGATCGGCGCGTGAGATTCGCGCAGAGGACCCTTCTGCGTACAGAGCAG  
 GGGCTGTTGCTTCGCGCCCTGCAGCTTGGTGACCGCGGCCTTACTCCTGCACGGCCACTGAGAACAAC  
 TCAAGCACATCGTACGCGGGTGCAGCTGCATGTACTGGGCCGGGATGCCGTCCATGCTGCCCTCTTCCC  
 CCCACTGGCTGTGAGCGTCCCTCCACCTCCTGGCACAGGCCCTCCAACGCCTCCTTACCAGGAGCTGGCC  
 CAGCTCCTAGCCCAGCCGGAAGTGGCCCTATCCATCAGTACTGCCAGGGTACTGGCGCCACGTGCCCC  
 CCAGACCCAGGGAGGCGCCAGGACACTTAGGCCTCCTGAACTCCAGGACCAGAAAAAGCCGAGGAACCG  
 CGCCACCACCCTCCGGACACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210479 representing NM\_011349  
 Red=Cloning site Green=Tags(s)

MLVTAFILWASLLTGAWPATPIQDQLPATPRVRLSFKELKATGTAHFFNLLNTTDYRILLKDEDHDRMY  
 VGSKDYVLSLDLHDINREPLIIHWAASQRIIECILSGKDGNGECGNFVRLIQPWNRTHLYVCGTGAYNP  
 MCTYVNRGRRAQDYIFYLEPEKLESGKGCYPDPKLDASALINEELYAGVYIDFMGTDAEIFRTLKQQT  
 AMRTDQYNSRWLNDPSFIHAELIPDSAERNDDKLYFFFRERSAEAPQNPVAVYARIGRICLNDDGGHCCLV  
 NKWSTFLKARLVCSVPGEDGIETHFDELQDVVQQTQDVRNPVIYAVFTSSGSVFRGSAVCVYSMADIRM  
 VFNGPFAHKEGPNYQWMPFSGKMPYPRPGTCTPGGTFTPSMKSTKDYPDEVINFMRTHPLMYQAVYPLQRR  
 PLVVRTGAPYRLTTVAVDQVDAADGRYEVFLGTDRTVQKVIIVLPKDDQVEEELMEEVEVFKEPAPVK  
 TMTISSKRQQLYVASAVGVTHLSLHRCQAYGAACADCCCLARDPYCAWDGQACSRYTASSKRRSRQDVRH  
 GNPIRQCRGFNSNANKNAVESVQYGVAGSAAFLECPQSPQATVKWLFQRDPSDRRREIRAEDRFLRTEQ  
 GLLLRALQLGDRGLYSCTATENNFKHIVTRVQLHVLGRDAVHAALFPPLAVSVPPPPGTGPPTPPYQELA  
 QLLAQPEVGLIHQYCGYWRHVPPRPREAPGALRPELQDQKPRNRHRHPPDT

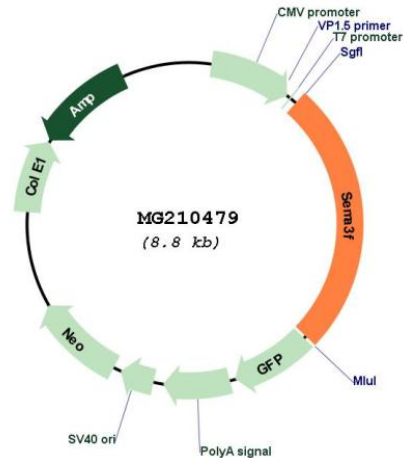
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_011349

**ORF Size:** 2262 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\\_011349.3](#), [NP\\_035479.2](#)

**RefSeq Size:** 3393 bp

**RefSeq ORF:** 2265 bp

**Locus ID:** 20350

UniProt ID: [O88632](#)

Cytogenetics: 9 F1