

Product datasheet for **RC233108**

SEMA4F (NM_001271662) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA4F (NM_001271662) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEMA4F
Synonyms:	M-SEMA; m-Sema-M; PRO2353; S4F; SEMAM; SEMAW
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC233108 representing NM_001271662
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGCCTCTGCTGCGCGGCCCGCCGGGTCCCGGGCAGCCTACAGCCTCGCCCTTCCCGCTACTGC
TGCTGGCGGTGCTGAGCGGCCCGGTATCCGGCCCGTCCCGCGCTCGGTGCCAGAACCTCGCTTCCAAT
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Protein Sequence: >RC233108 representing NM_001271662
 Red=Cloning site Green=Tags(s)

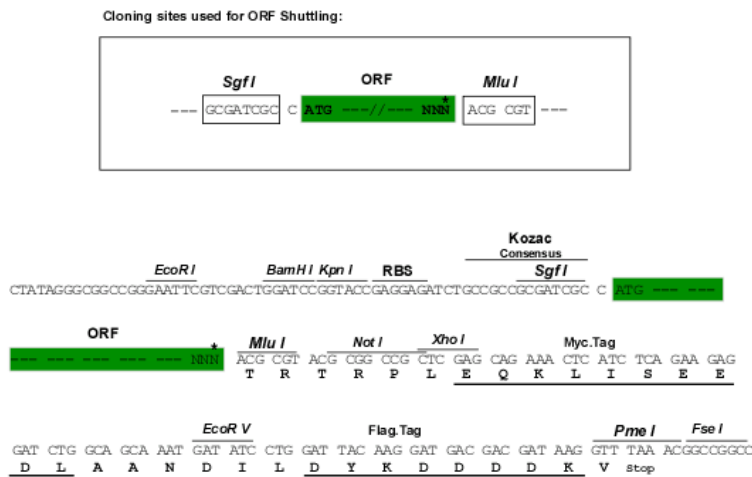
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 CITNNMKLRHFGSSLSLPDRVLTFRDHPMLDRPVFPADGHPDLLVTTDTAYLRVVVAHRVTSLSGKEYDVL
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 LAQDPVCAWSFRLDECVAHAGEHRLVQDIESADVSSLCPEKGERPVVFEVPAVAAHVLPSPSSAW
 ASCVWHQPSGVTALPRRDGLEVVVTPGAMGAYACECEGGAHVVAAYSLVWGSQRDAPSRAHTVGAGL
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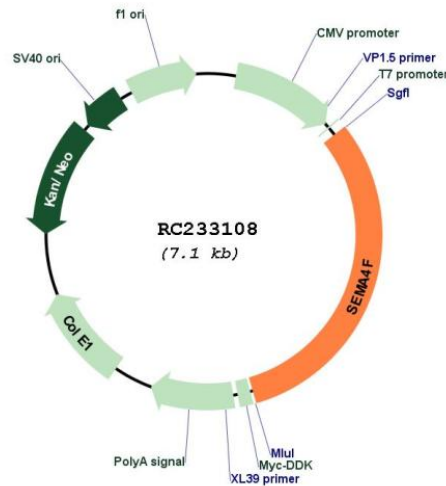
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001271662

ORF Size: 2211 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_001271662.1](#), [NP_001258591.1](#)

RefSeq Size: 6023 bp

RefSeq ORF: 2214 bp

Locus ID: 10505

UniProt ID: [O95754](#)

Cytogenetics: 2p13.1

Protein Families: Transmembrane

Protein Pathways: Axon guidance

MW: 80.4 kDa

Gene Summary: This gene encodes a transmembrane class IV semaphorin family protein, which plays a role in neural development. This gene may be involved in neurogenesis in prostate cancer, the development of neurofibromas, and breast cancer tumorigenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]