

## Product datasheet for **SC330951**

### SEMA4F (NM\_001271662) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA4F (NM_001271662) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA4F
Synonyms:	M-SEMA; m-Sema-M; PRO2353; S4F; SEMAM; SEMAW
Vector:	pCMV6-Entry (PS100001)

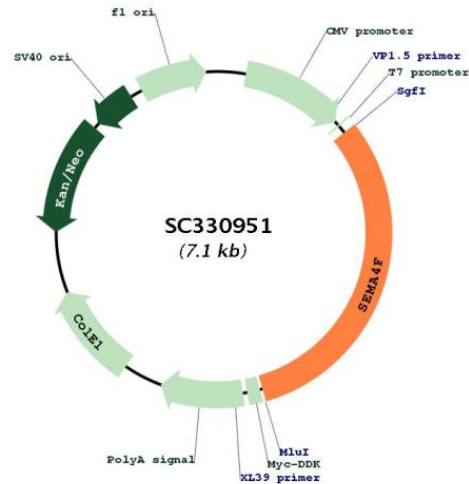


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Fully Sequenced ORF: >SC330951 representing NM\_001271662.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGCCGGCCTCTGCTGCGCGGCCCGCCCGGGTCCCGGGCAGCCTACAGCCTCGCCCTCCCGCTACTG
CTGCTGGCGGTGCTGAGCGGCCCGGTATCCGGCCCGTCCCGCTCGGTGCCAGAACCTCGTTCCA
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GTGGATCCTGCCTCCACACACTTTATGTTGGCGCCCGGGACACCATCTTCGTTTATCCCTGCCCTTC
TCAGGGGAGAGACCCCGCAGATTGACTGGATGGTTCTGAGGCTCACAGACAGAAGTGTAGGAAGAAA
GGCAAGAAAGAGGATGTGTCCAGGTTCCAGCAGGTTGAAAGACTTGAGAGTGCCCGGGGAAATGTCCT
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CAGTGGGAGGGGCTACTATCTCTGCTGTCTGTGCCTCCGACCAAGACATTCGGACAGTGTGAAT
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CCCCGGCGGGATGGACTGGAGGTGGTGGTACCCAGGGGCCATGGGCGTTATGCCTGTGAATGTCAG
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GAGCGGTTGCCGCTGGCCCTGGCCAAGAGGGGCACTGGCTTTGGTGGATTCTCACCACCCTTCTGCTT
GATCCTTGCCCAAGCCAGCCACATTCGGCTAACTGGGGCTCCTTAGCCACATGTGATGAAACATCC
ATCTAG
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001271662

**Insert Size:** 2214 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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](#)

**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 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]  
Transcript Variant: This variant (3) lacks an internal in-frame exon in the coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.