

Product datasheet for **SC332363**

SEMA5B (NM_001256348) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA5B (NM_001256348) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA5B
Synonyms:	SEMAG; SemG
Vector:	pCMV6-Entry (PS100001)



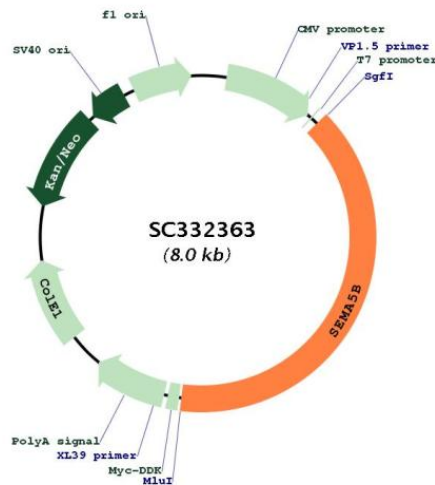
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Fully Sequenced ORF: >SC332363 representing NM_001256348.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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 TCCAGCTCCCAGGATGTCTCCAGTGAGCCAGCAGTGAGCAGCAGCTGTGCGCCCTTAGCAAGCACCCC
 ACCGTGGCCTTTGAAGACCTGCAGCCGTGGGTCTCTAACTTACCTACCCTGGAGCCGGGATTTCTCC
 CAGCTGGCTTTGGACCCCTCCGGGAACCACTCATCGTGGGAGCCAGAACTACCTTTCCAGACTCAGC
 CTTGCCAATGTCTCTTCTTTCAGGCCACAGAGTGGGCCTCCAGTGAGGACACGCCCGCTCCTGCCAA
 AGCAAAGGGAAGACTGAGGAGGAGTGTCAAGAACTACGTGCGAGTCTGATCGTCCGCCGGGAAGGTG
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 ATTGAGAAGATCAATGGTGTGGCCCGCTGCCCTATGACCACGCCACAACCTCCACAGCTGTCTATCTCC
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 ATCCCTGATGACAGAGCCAACTTACCCATTGCAGCAGACCAATGTGTACACGACTACTTACTACCCA
 AGCCCCCTGAACAAACACAGCTTCCGGCCCGAGGCTCACCTGGACAACGGTGTCCCCAACAGTGA

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001256348

Insert Size: 3174 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_001256348.1](#)

RefSeq Size: 4523 bp

RefSeq ORF: 3174 bp

Locus ID: 54437

Cytogenetics: 3q21.1

Protein Families: Transmembrane

Protein Pathways: Axon guidance

MW: 116.1 kDa

Gene Summary: This gene encodes a member of the semaphorin protein family which regulates axon growth during development of the nervous system. The encoded protein has a characteristic Sema domain near the N-terminus, through which semaphorins bind to plexin, and five thrombospondin type 1 repeats in the C-terminal region of the protein. The protein product may be cleaved and exist as a secreted molecule (PMID: 19463192). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 5' coding region, uses a downstream start codon and uses an alternate in-frame splice site in the 3' coding region compared to variant 1. The resulting protein (isoform 3) is shorter and has a shorter N-terminus 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.