

Product datasheet for SC335914

Semaphorin 3B (SEMA3B) (NM_001290063) Human Untagged Clone

Product data:

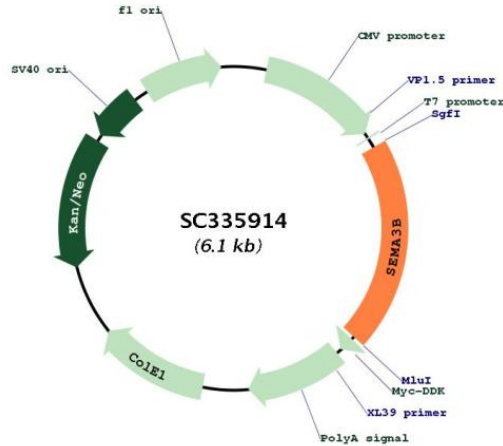
Product Type:	Expression Plasmids
Product Name:	Semaphorin 3B (SEMA3B) (NM_001290063) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA3B
Synonyms:	LUCA-1; SemA; SEMA5; SEMAA; semaV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335914 representing NM_001290063. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAACGACGTGCGCCGGGCTTCTTGGGACCCTTGCACACAAGGAGGGGCCATGCACCAGTGGGTG
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TCCACCAAGGACTTCCAGACGATGTATCCAGTTTGGCGGAACCACCCCTCATGTACAACCTCTGTC
CTGCCACTGGGGGGCGCCCTCTTTTCTACAAGTTGGAGCCAATTACACCTTCACTCAAATGGCCGG
GACCGGGTTGACGCCGTGACGGACACTATGACGTCCTCTTATTGGCACAGACGTTGGCAGGTGCTG
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CGGTTCCGGCGGCAAGACGTAAGGAATGGCGACCCAGCACGTTGTGCTCCGGAGACTCGTCTGTCCTCC
GCGCTGCTGGAACACAAGGTGTTTCGCGTGGAGGGCAGCAGCGCCTTTCTGGAGTGTGAGCCCCGCTCG
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GAGCGCACCGAGCGCACCGCCCGGGGACTACTGCTGCGCAGGCTGCGCGCCGGGACTCGGGCGTGTAC
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CCTGAGCCTGCGCTGAGCGGGGCCGCGCAGCGCAACGCACTGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_001290063

Insert Size: 1221 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_001290063.1](#)

RefSeq Size: 2121 bp

RefSeq ORF: 1221 bp

Locus ID: 7869

UniProt ID: [Q13214](#)

Cytogenetics: 3p21.31

Protein Families: Secreted Protein, Transmembrane

Protein Pathways: Axon guidance

MW: 45 kDa

Gene Summary:

The protein encoded by this gene belongs to the class-3 semaphorin/collapsin family, whose members function in growth cone guidance during neuronal development. This family member inhibits axonal extension and has been shown to act as a tumor suppressor by inducing apoptosis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2014]

Transcript Variant: This variant (6) lacks several 5' exons but contains alternate 5' exon structure, and it thus differs in its 5' UTR and initiates translation from a downstream in-frame start codon, compared to variant 1. The encoded isoform (4) is shorter at the N-terminus, compared to isoform 1. Both variants 5 and 6 encode isoform 4.