

Product datasheet for **SC337381**

Semaphorin 3B (SEMA3B) (NM_001290061) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3B (SEMA3B) (NM_001290061) 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)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001290061, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCCGGGCGGGGCTGCCGCCGTGATCCCGGGCTGGCCCTGCTCTGGGCAGTGGGGCTGGGGAGTG
CCGCCCCACGCCCCACGCCTTCGGCTCTCCTTCCAAGAGCTCCAGGCCTGGCATGGTCTCCAGACTTT
CAGCCTGGAGCGAACCTGCTGCTACCAGGCCTTGCTGGTGGATGAGGAGCGTGGACGCCTGTTTGTGGGT
GCCGAGAACCATGTGGCCTCCCTCAACCTGGACAACATCAGCAAGCGGGCCAAGAAGCTGGCCTGGCCGG
CCCCTGTGGAATGGCGAGAGGAGTGCAACTGGGCAGGGAAGGACATTGGTACTGAGTGCATGAACTTCGT
GAAGTTGCTGCATGCCTACAACCGCACCCATTTGCTGGCCTGTGGCACGGGAGCCTTCCACCCAACCTGT
GCCTTTGTGGAAGTGGGCCACCGGGCAGAGGAGCCGCTCCTCCGGCTGGACCCAGGAAGGATAGAGGATG
GCAAGGGGAAGAGTCCTTATGACCCAGGCATCGGGCTGCCTCCGTGCTGGTGGGGGAGGAGCTATACTC
AGGGGTGGCAGCAGACCTCATGGGACGAGACTTTACCATCTTTCGCAGCCTAGGGCAACGTCCAAGTCTC
CGAACAGAGCCACAGACTCCCCTGGCTCAATGAGCCCAAGTTTGTCAAGGTATTTTGGATCCCGGAGA
GCGAGAACCAGACGACGACAAAATCTACTTCTTTCTTTCGTGAGACGGCGGTAGAGGCGGGCCGGCACT
GGGACGCCTGTCCGTGTCCCGCTTGGCCAGATCTGCCGGAACGACGTGGGCGGGCAGCGAGCCTGGTC
AACAAAGTGGACGACGTTCTGAAGGCGCGGCTGGTGTGCTCGGTGCCCGGCTCGAGGGCGACACCCACT
TCGATCAGCTCCGCCCTTCCCCGAGAGGATGTGTTTCTGTTGTCTCGCGGGACCACCGGACCCCGCT
GCTCTATGCCGTCTTCTCCACGTCCAGCAGCATTTCCAGGGCTCTGCGGTGTGCGTGTACAGCATGAAC
GACGTGCGCCGGGCTTCTTGGGACCTTTGCACACAAGGAGGGGCCATGCACCAGTGGGTGTACATACC
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GGACTTCCAGACGATGTCATCCAGTTTGCAGCAACCCACCCCTCATGTACAACCTGTCTGCTGCCACT
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CAGCCGCTGACGGACACTATGACGTCCTTTCATTGGCACAGACGTTGGCACGGTGTGAAGGTGATCTC
GGTCCCCAAGGGCAGTAGGCCACGCGCAGAGGGGCTGCTCCTGGAGGAGTGCACGTGTTTGAGGACTCG
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CTACTGCGCTGGGACGGGGTTCGCGTGCACGCGCTTCCAGCCCAGTGCCAAGAGGGCGTTCCGGCGGCAA
GACGTAAGGAATGGCGACCCAGCAGTGTGCTCCGGAGACTCGTCTCGTCCCGCGCTGCTGGAACACA
AGGTGTTCCGCGTGGAGGGCAGCAGCGCTTTCTGGAGTGTGAGCCCCGCTCGTGCAGGCGCGCGTGGA
GTGGACTTTCCAGCGCGCAGGGGTGACAGCCACACCCAGGTGCTGGCAGAGGAGCGCACCGAGCGCACC
GCCCGGGGACTACTGCTGCGCAGGCTGCGGCGCCGGGACTCGGGCGTGTACTTGTGCGCCCGCTGAGC
AGGGCTTTACGCAACCGCTGCGTGCCTGTGCTGCGTGCACGTGTTGAGTGTACGCAGGCCGAACGACTGGC
GCGGGCCGAGGAGGCTGCGCCCGCGCGCCGGGCCCAAACCTCTGGTACCGGACTTTCTGCGAGCTG
GTGGAGCCGGGCGGAGGTGGCAGCGCAACTCCCTGCGCATGTGCCGCCCGCAGCCTGCGCTGCAGTCA
TGCCCTGGAGTCGCGGAGAAAGGGCCGTAACCGGAGGACCCACGCCCTGAGCCTCGCGCTGAGCGGGG
GCCGCGCAGCGCAACGCACTGGTGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001290061

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:	<ol style="list-style-type: none">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:	<u>NM_001290061.1, NP_001276990.1</u>
RefSeq Size:	2830 bp
RefSeq ORF:	2265 bp
Locus ID:	7869
UniProt ID:	<u>Q13214</u>
Cytogenetics:	3p21.31
Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	Axon guidance
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR and uses an alternate in-frame splice site in the central coding region, compared to variant 1. The encoded isoform (3) is longer than isoform 1.</p>