

Product datasheet for **SC319265**

Semaphorin 3B (SEMA3B) (NM_001005914) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3B (SEMA3B) (NM_001005914) Human Untagged Clone
Tag:	Tag Free
Symbol:	Semaphorin 3B
Synonyms:	LUCA-1; SemA; SEMA5; SEMAA; semaV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001005914.1
 GCAGAGTCCAGGGCAGCTCAAGGCTCCTCCACACACACCCCGTGAACCCTGAGCACCC
 TGAGTGTGATGAGATGGGGCGGGCCGGGGCTGCCGCCGTGATCCCGGGCCTGGCCCTGCTC
 TGGGCAGTGGGGCTGGGGAGTGCCGCCCCAGCCCCACGCCTTCGGCTCTCCTTCCAA
 GAGCTCCAGGCCGTGGCATGGTCTCCAGACTTTCAGCCTGGAGCGAACCTGCTGTACCAG
 GCCTTGTGGTGGATGAGGAGCGTGGACGCCTGTTTGTGGGTGCCGAGAACCATGTGGCC
 TCCCTCAACCTGGACAACATCAGCAAGCGGGCCAAGAAGCTGGCCTGGCCGGCCCTGTG
 GAATGGCGAGAGGAGTGCAACTGGGCAGGGAAGGACATTGGTACTGAGTGCATGAACTTC
 GTGAAGTTGCTGCATGCCTACAACCGCACCCATTTGCTGGCCTGTGGCACGGGAGCCTTC
 CACCCAACCTGTGCCTTTGTGGAAGTGGGCCACCGGGCAGAGGAGCCCGTCTCCGGCTG
 GACCCAGGAAGGATAGAGGATGGCAAGGGGAAGAGTCTTATGACCCAGGCATCGGGCT
 GCCTCCGTGCTGGTGGGGAGGAGCTATACTCAGGGGTGGCAGCAGACCTCATGGGACGA
 GACTTTACCATCTTTCGACGCCTAGGGCAACGTCCAAGTCTCGAACAGAGCCACACGAC
 TCCCGCTGGCTCAATGAGCCCAAGTTTGTCAAGGTATTTTGGATCCCGGAGAGCGAGAAC
 CCAGACGACGACAAAATCTACTTCTTCTTCTGAGACGGCGGTAGAGGGCGCGCCGGCA
 CTGGGACGCCTGTCCGTGCCCGCTGGCCAGATCTGCCGGAACGACGTGGGCGGCCAG
 CGCAGCCTGGTCAACAAGTGGACGACGTTCTGAAGGCGCGGTGGTGTGCTCGGTGCC
 GGCGTCGAGGGGACACCCACTTCGATCAGCTCCAGGATGTGTTTCTGTTGCTCCTCGCGG
 GACCACCGGACCCCGCTGCTCTATGCCGTCTTCTCCACGTCCAGCATCTTCCAGGGCTCT
 GCGGTGTGCGGTACAGCATGAACGACGTGCGCCGGGCCCTTCTGGGACCTTTGCACAC
 AAGGAGGGGCCATGCACCAGTGGGTGCATACCAGGGTCGCGTCCCCTACCCGGGCCA
 GGCATGTGCCCGAGCAAGACCTTTGGCACCTTCAGTTCACCAAGGACTTCCCAGACGAT
 GTCATCCAGTTTTCGCGGAACCCCTCATGTACAACCTGTGCTCCTGCCACTGGGGGG
 CGCCCTTTTTCTACAAGTTGGAGCCAATTACACCTTCACTCAAATTGCCGCGGACCGG
 GTTGACGCGCTGACGGACACTATGACGCTCTTCTTATTGGCACAGACGTTGGCACGGTG
 CTGAAGGTGATCTCGGTCCCAAGGGCAGTAGGCCAGCGCAGAGGGGCTGCTCCTGGAG
 GAGCTGCACGTGTTTGGGACTCGGCCGCTGTCACCAGCATGCAAATTTCTTCCAAGAGG
 CACCAGCTGTACGTAGCCTCGCGGAGCGCGGTGGCCAGATCGCGTTGCACCGCTGCGCT
 GCCACGCGCGCTGTCACCGAATGCTGTCTGGCGGTGACCCCTACTGCGCTGGGAC
 GGGTTCGCGTGCACGCGCTTCCAGCCCAGTGCCAAGAGGGCGTTCGGCGGCAAGACGTA
 AGGAATGGCGACCCAGCAGGTTGTGCTCCGGAGACTCGTCTCGTCCCGCTGTGGAA
 CACAAGGTGTTCCGCGTGGAGGGCAGCAGCGCCTTCTGGAGTGTGAGCCCGCTCGCTG
 CAGGCGCGCTGGAGTGGACTTTCAGCGCGCAGGGGTGACAGCCACACCCAGGTGCTG
 GCAGAGGAGCGCACCGAGCGCACCGCCGGGACTACTGCTGCGCAGGCTGCGGCGCCGG
 GACTCGGGCGTACTTGTGCGCCGCGCTCGAGCAGGGCTTACGCAACCGCTGCGTGC
 CTGTGCTGCACGTGTTGAGTGTACGCAGGCCGAACGACTGGCGCGGGCCGAGGAGGCT
 GCGCCCGCGCGCCCGGGCCCCAACTCTGGTACCGGGACTTCTGACGTGGTGGAG
 CCGGGCGGAGGTGGCAGCGCAACTCCCTGCGCATGTGCCCGCCGAGCCTGCGTGCAG
 TCACTGCCCTGGAGTCGCGGAGAAAGGGCCGTAACCGGAGGACCCACGCCCTGAGCCT
 CGCGCTGAGCGGGGCCGCGCAGCGCAACGCACTGGTGACCAGACTGTCCCCACGCGGG
 AACCAAGCAGGAGACGACAGGCGAGAGGAGCCAGACAGACCCTGAAAAGAAGGACGGG
 TTGGGGCCGGCACATTGGGGTCAACGGCCGATGGAGACACCAACCGACAGGCCCTGGC
 TGAGGGCAGTGCAGGGCTTATTTATTAACAGGATAACCCTTGAATGTAGCAGCCCGG
 GAGGGCGGCACAGGTGGGGCAGGATTAGCCGGAGGGAAGGGACGGGAAGCCGAGCT
 CCAGAGCAACGACAGGGCCGAGGAGGTGCTGGAGTGGCCACCTGGGAGACAGACCC
 ACCTCCTTGGGTAGTGCAGTGCAGAGAAAGCTGTGAACAGGCTGGGCTGCTGGAGGTG
 GGGCGAGGCGAGGCGACTGTAATAAGTAACGCAATAAACGCATTATCAGCCAAAAAAA
 AA

Restriction Sites: Please inquire
ACCN: NM_001005914

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001005914.1</u> , <u>NP_001005914.1</u>
RefSeq Size:	2986 bp
RefSeq ORF:	2247 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 (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1, resulting in an isoform (2) that is 1 aa shorter than isoform 1. The 5' terminal exon of this variant is inferred based on tiled partial transcript alignments.</p>