

Product datasheet for **SC117239**

Semaphorin 3B (SEMA3B) (NM_004636) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3B (SEMA3B) (NM_004636) Human Untagged Clone
Tag:	Tag Free
Symbol:	Semaphorin 3B
Synonyms:	LUCA-1; SemA; SEMA5; SEMAA; semaV
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117239 sequence for NM_004636 edited (data generated by NextGen Sequencing)

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ATGGGGCGGGCCGGGGCTGCCGCCGTGATCCCGGGCTGGCCCTGCTCTGGGCAGTGGGG
CTGGGGAGTGCCGCCCCAGCCCCACGCCTTCGGCTCTCCTTCCAAGAGCTCCAGGCC
TGGCATGGTCTCCAGACTTTCAGCCTGGAGCGAACCTGCTGCTACCAGGCCTTGTGGTG
GATGAGGAGCGTGGACGCCTGTTTGTGGTGCCGAGAACCATGTGGCTCCCTCAACCTG
GACAACATCAGCAAGCGGGCCAAGAAGCTGGCCCTGGCCGGCCCTGTGGAATGGCGAGAG
GAGTGCAACTGGGCAGGGAAGGACATTGGTACTGAGTGCATGAACTTCGTGAAGTTGCTG
CATGCCTACAACCGCACCCATTTGCTGGCCTGTGGCACGGGAGCCTTCCACCCAACCTGT
GCCTTTGTGGAAGTGGGCCACCGGGCAGAGGAGCCCGTCTCCGGCTGGACCCAGGAAGG
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AAAATCTACTTCTTCTTTCGTGAGACGGCGGTAGAGGCGGCGCCGGCACTGGGACGCCTG
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CACGTGTTGAGTGTACGCAGGCCGAACGACTGGCGCGGGCCGAGGAGGCTGCGCCCGCC
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GGTGGCAGCGCAACTCCCTGCGCATGTGCCCGCCGACGCTGCGCTGCAGTCACTGCC
CTGGAGTCGCGGAGAAAGGGCCGTAACCGGAGGACCCACGCCCTGAGCCTCGCGCTGAG
CGGGGGCCGCGCAGCGCAACGCACTGGTGA
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Clone variation with respect to NM_004636.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004636 unedited TTACCATTGTAAACGACTCACTATAGGCGGCCGCGAAATTCGCACCAGGGCAGCTCAAG GCTCTCCACACACACACCCCGCTGAACCCTGAGCACCTGAGCTGCTGAGATGGGGCGGG CCGGGGCTGCCCGCTGATCCCGGGCTGGCCCTGCTCTGGGCAGTGGGGCTGGGGAGTG CCGNCCCCAACCCACGCCTTCGGCTCTCTTCCAAGAGCTCCAGGCCTGGCATGGTC TCCAGACTTTCAGCCTGGAGCGAACCTGCTGCTACCAGGCCTTGCTGGTGGATGAAGAGC GTGGACGCTGTTTGTGGGTGCCGAGAACCATGTGGCCTCCCTCAACCTGGACAACATCA GCAAGCGGGCCAAGAAGCTGGCCTGGCCGGCCCTGTGGAATGGCGAGAGGAGTGCAACT GGGCAGGGAAAGACATTGGTACTGAGTGCATGAACTTCGTGAAGTTGCTGCATGCCTACA ACCGCACCCATTGCTGGCCTGTGGCACGGGAGCCTCCACCCAACCTGTGCCTTTGTGG AAGTGGGCCACCGGGCATAGGAGCCCGTCTCCGGCTGGACCCAGGAAAGATAGAGGATG GCAAGGGGAATAGTCCTTATGACCCCCAGCATCGGGCTGCCTCCGGCTTGGTGGGGGAGG AGCTATACTCAGGGTGGCAGCAGACCTNATGGGACGAACTTTACCATCTTTTCAACC TAAGGCAANGTTCAAATCTCCGAACAGAACCCACGAATTCGGCTGGCTAATGAGCCCAAC TTGTCAAATCTTTGGATCCCGGGAGCCACAACCCAACAACAACAATCTACTCTCTT CCCGAAACGCGGAAAAGCCTCCCCGAATCGAACCCCGTCTGTCCCGCTTGGCCAAATC CCCTACCTCTTGGTCCGCAACCCACCTGTCAAATGGNAAACGTTCTTTAAACCCATT GTATTTCTTTA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004636 unedited NGAGCCATTTGGCTGATGGCAACCTTCCAGGTCCAGGAAAGCACTGGGGCAGGGTCACA GGGCATGCCACCCGGGTTACTGTTCCAGGAAAACAGCTATGACCGCGGCCCAATCTAGAG TCGAGTT CGGCCGGGG CCATTCACCTTTGGCTGAAAATGCGTTTATTGCGTTATTTAATACAGTGGGCCTGCCT CGCCCCACCTCCAGAAGCCAGCCTGTTAACAGCTTTTGTCTACTGTTCACTACCCAAG GAGGTGGGGTCTGTCTCCAGGGGGGCACTCCAGGCACCTCCTCGGCCCTGGTCTGTTGC TTTGAACTCGGCTTCCCGTCCCTTCCCTCCGGCTGAATCCTGCGCCCGACCTGTGCCG CCCTCCCGGGGCTGTACATTCAAGGGTATCCTGTTAATAAATAAACCCGCGCAGCTGC CCTCAACCAGGGCCTGTGCGTTGGTGTTCATCGGCCGGTGACCCCAATGTGCCCGGC CCCAACCGTCTTTTTTTAAGGGTCCGGTCTGGCTCCTCTCGCCTGTGCTCCTCTGCT TGGTTCGCGCGTGGGGACAGTCTGGTCAACCAATGCGTTGCGCTGCGCGGCCCTCTCA ACGCGAGGCTAAGGGGCGTGGGTCTCCGGTTACGGCACTTTCTCCCAACTCCAGGGCA TTGACTGCAACGCAAGCTGGGGGGGAACATGCCCAAGGATTTTGGGCTTTCCCTCTCC CCGGGTTCACTCAACTGAAAAATCCCGTCCAAAATTTGGGGCCCGGGCGCGGGGAAGC CAACCTCTCGGCCGNGCAATTCTTTGGGCTGGGAACCATTAACACTTGACAAGAA AAGGGAAACAGCGGTTTTGTTAAAGCCCTG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004636
Insert Size:	2900 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:	<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:	NM_004636.2 , NP_004627.1
RefSeq Size:	2989 bp
RefSeq ORF:	2250 bp
Locus ID:	7869
UniProt ID:	Q13214
Cytogenetics:	3p21.31
Domains:	Sema, IG, PSI
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 (1) represents the longest transcript and encodes isoform 1. Both variants 1 and 3 encode isoform 1. The 5' terminal exon of this variant is inferred based on tiled partial transcript alignments.</p>