

Product datasheet for **SC116160**

Semaphorin 3c (SEMA3C) (NM_006379) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3c (SEMA3C) (NM_006379) Human Untagged Clone
Tag:	Tag Free
Symbol:	Semaphorin 3c
Synonyms:	SEMAE; SemE
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_006379 edited
 GAATTCGGCAGCAGACTGCGAAAGGAGCAGGGTTGCGGAGCTAGGGCTCCAGCCTGCGGC
 CGCGCATTCTTGGCTCTGGCCAGCCGCGAGCTCTAAGGGTCGGCCCCCGCGGTCCGCC
 CCGCGGCTCCCTGCCAGGCTCTCGCGGGCGCGCTCGGGGTGGGGCTCGCGGCTGGCGGA
 GATGCGGCGGGGCTGCGCGGTGGTATGCGAGCCTGCTGGGCGGCGCGCGGGGAGCC
 GGAGCCGCGCGCGCGCGCTGTAATCGGACACCAAGAGCGCTCGCCCCGGCCTCCGGC
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 ACACGGCTGTGGAACTTTGTCCGTGTAATTCAGACTTTCAATCGCACACATTTGTATGT
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 AACTGATCAACATAAATCCAAATGGCTAAGTGAACCTATGTTTGTAGATGCACATGTCAT
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 GTGCTCGGTAACAGATGAAGACGGCCAGAAACACACTTTGATGAATTAGAGGATGTGTT
 TCTGCTGAAACTGATAACCCGAGGACAACACTAGTGTATGGCATTTTTACAACATCAAG



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CTCAGTTTTCAAAGGATCAGCCGTGTGTGTATCATTTATCTGATATACAGACTGTGTT
 TAATGGGCCTTTTGCCCAAAAGAAGGGCCAATCATCAGCTGATTTCTATCAGGGCAG
 AATTCCATATCTCGCCCTGGAACCTTGCCAGGAGGAGCATTTACACCCAATATGCGAAC
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 CATATAAACATTTTATTTATAGTTAATAATCTATGATGAAGGTAATTAAGTAGATTATG
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 ACACACAGAAATGTGTCAATGTAAGCCAAAACCATCTTCTGTGTTTATGGCCAATCTAT

TCTCAAAGTTAAAAGTAAAATTGTTTCAGAGTCACAGTCCCTTTATTTACATAAGCCC
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 CATGAACATAACTCTGCTGAATGTAAAAGAAAATTTTTTTTCAAAAATGCTGTTAATGTA
 TACTACTGGTGGTTGATTGGTTTTATTTTATGTAGCTTGACAATTCAGTGACTTAATATC
 TATTTCCATTTGTATTGTACATAAAAATTTCTAGAAAATACACTTTTTTCCAAAAGTGAAGT
 TTGTGAATAGATTTTAGCATGATGAAACTGTCATAATGGTGAATGTTCAATCTGTGTAAG
 AAAACAAAATAAATGATGTTGTACACTAAAATTTAATTGGATATTGATGAAATCATTGG
 CCTGGCAAAAATAAACATGTTGAATCCCAAAAAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006379 unedited
 TAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGACTGCGAAAGGA
 GCAGGGTTGCGGAGCTAGGGCTCCAGCCTGCGGCCGCGCATTCTTGCCTGCGCCAGCCG
 CGAGCTTAAGGGTTCGGCCCCCGCGTCCGCCCGCGGCTCCCTGCCAGGCTCTCGCG
 GCGCGCTCGGGGTGGGGCTCGCGGCTGGCGGAGATGCGGCCGGGGCTGCGCGGTGGTG
 ATGCGAGCCTGCTGGGCGCGCGCCGGGCGAGCCGGAGCCGCGCGCCGCGCGCTGTAAT
 CGGACACCAAGAGCGCTCGCCCCGGCCTCCGGCCACTTTCATTCACTCCGAGGTGCTT
 GATTGAGCGACGCGGAGAAGAGCTCCGGGTGCCGCGCACTGCAGCGCTGAGATTCCTTT
 ACAAGAAACTCAGAGGACCGGGAAGAAAGAAATTTACCTTTGCGACGTGCTAGAAAATA
 AGGTGCTCTGGGAAAAGGACTGGAGACACAAGCGCATCCAACCCCGGTAGCAAATGATG
 ACTTTTCCGTGCTGATTTCTTTCAACCTCGGTATTTTCCCTTGGATATTAACCTTGCATAT
 CTGAAGAAATGGCATTCCGGACAATTTGCGTGTGGTTGGAGATTTATTTGTTCTATCT
 GTGTGAAAGGATCTTCCAGCCCAAGCAAGAGTTTATTTAACATTTGATGAACTTCGAG
 AAACCAAGACCTCTGAATACTTCAGCCTTTCCACCATCCTTTAGACTACAGGATNTAT
 TAATGGATGAAGATCAGGACCGGATATATGTGGGAAGCAAAGATCACNATTCTNTNCCCT
 GATATTAACAATAAAGTCAAGAAGCCTTGAGTGTNTCTGGCCAGCATCTACAATCAAA
 GTTGAGAATGCAAAATGGCTGGNCAAGATCCCACACACGCTGTGGNAACTTGTNCCGTG
 TATCAGACTTTTCATCGACACATTGNAGTCTGTGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006379 unedited
 TTGTACGCGGCCGCATCTATAGTCGGTTTTTTTTTTTTTTTTTTTTTTTTTTGGGAATTCAAC
 ATGTTTTATTTTCCAGGCCAATGATTTTCATCAATATCCAATTAATTTTAGTGTGACAA
 CTACATTTAGTTTGGTTTCTTACACAGATTGAACATTCACCATTATGACAGTTTCATCAT
 GCTAAAATCTATTCACAAACTTACACTTTGGAAAAAAGTGATTTCTAGAAAATTTATG
 TACAATACAAATGGAATAGATATTAACCGACTGAATTGACCAGCTCCCTAACATAACACG
 CCTGGACCACCAATTGTTTGCCTGACAGGGTTGCTGAAAAATAACCCCTTTTACCTTC
 TACCTCACCTGCTCTTGACCAACCTCCCCCTTCCACCACCCCGCCAGCGCCCCCCCC
 CCTCCCTCTGCCACTTTCATGAATTTGCGCTTCCCTCCCATCCTCAAACCTACCCTCA
 GTCCCCCAATCATTTCCATCCACTTGCACTCTTCTGGCCCCCGTACCCTCCCACCTTC
 CCCCCCTCCAACCTCCAACATCACGCTCTCCCCACGCTACCTCTTCTGCCCCCTCTC
 ACTTTTTTTTCTTCTCCCTTATCCCTCCGCTGCTCCATTCTTCTTTTACATTACTACC
 ATCTACCCCACTAACCCCTCCCCCTCCGTCACCCGACCTCCCTCCCCCCCCCTCGACCG
 CCCCCGTAATGATCGTCTTTTTTCCCTCATCAACACCTCGCCCCCTCTCCTTTTCT
 TTTCTCCTCACCCCACTCCACATCCACCTCCACCCTCTCCCTCTCCCTCCACCG
 TTACCTCTTAGCCCCACGCGATGCTCTCTCCCTATCCTCTACCGACTACCTATCTCTTC
 CTCCACTAATTTCTCCGATCGCGCACACCCGAGTATANGAGATTTTAACTTTATTC
 GATATCCCGCTCTCCGTCCATCTATTCCCGCTCCCCCGCCG

Restriction Sites:

NotI-NotI

ACCN:

NM_006379

Insert Size:

5150 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:	<u>NM_006379.2</u> , <u>NP_006370.1</u>
RefSeq Size:	5189 bp
RefSeq ORF:	2256 bp
Locus ID:	10512
UniProt ID:	<u>Q99985</u>
Cytogenetics:	7q21.11
Domains:	Sema, IG, PSI
Protein Families:	Secreted Protein
Protein Pathways:	Axon guidance
Gene Summary:	<p>This gene encodes a secreted glycoprotein that belongs to the semaphorin class 3 family of neuronal guidance cues. The encoded protein contains an N-terminal sema domain, integrin and immunoglobulin-like domains, and a C-terminal basic domain. Homodimerization and proteolytic cleavage of the C-terminal propeptide are necessary for the function of the encoded protein. It binds a neuropilin co-receptor before forming a heterotrimeric complex with an associated plexin. An increase in the expression of this gene correlates with an increase in cancer cell invasion and adhesion. Naturally occurring mutations in this gene are associated with Hirschsprung disease. [provided by RefSeq, May 2017]</p> <p>Transcript Variant: This variant (2) contains an alternate exon in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1.</p>