

## Product datasheet for SC310229

### SEMA6D (NM\_153619) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA6D (NM_153619) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA6D
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153619, the custom clone sequence may differ by one or more nucleotides

```

ATGAGGGTCTTCCTGCTTTGTGCCTACATACTGCTGCTGATGGTTTCCCAGTTGAGGGCA
GTCAGCTTTTCTGAAGATGATGAACCCCTTAATACTGTCGACTATCACTATTCAAGGCAA
TATCCGGTTTTAGAGGACGCCCTTCAGGCAATGAATCGCAGCACAGGCTGGACTTTTCAG
CTGATGTTGAAAATTCGAGACACACTTTATATTGCTGGCAGGGATCAAGTTTATACAGTA
AACTTAAATGAAATGCCAAAACAGAAGTAATACCCAACAAGAACTGACATGGCGATCA
AGACAACAGGATCGAGAAAACGTGCTATGAAAGGCAAGCATAAAGATGAATGCCACAAC
TTTATCAAAGTATTTGTTCCAAGAAACGATGAGATGGTTTTTGTGGTACCAATGCA
TTCAATCCCATGTGTAGATACTACAGGTTGAGTACCTTAGAATATGATGGGGAAGAAATT
AGTGGCCTGGCAAGATGCCCATTTGATGCCAGACAACCAATGTTGCCCTCTTGTGAT
GGGAAGCTGTATTCTGCCACAGTGGCTGACTTCTTGGCCAGCGATGCCGTTATTTATCGA
AGCATGGGTGATGGATCTGCCCTTCGCACAATAAAATATGATTCCAAATGGATAAAAGAG
CCACACTTTCTTCATGCCATAGAATATGGAACTATGTCTATTTCTTCTTCGAGAAATC
GCTGTGCAACATAATAATTTAGGCAAGGCTGTGATTTCCCGCTGGCCCGCATATGTAAA
AACGACATGGGTGGTTCCAGCGGGTCTGGAGAAACACTGGACTTCATTTCTAAAGGCT
CGGCTGAACTGTTCTGTCCCTGGAGATTGTTTTTCTACTTTGATGTTCTGCAGTCTATT
ACAGACATAATACAAATCAATGGCATCCCCACTGTGGTCGGGGTGTACCACGCAGCTC
AATAGCATCCCTGGTTCTGCTGTCTGTGCATTTAGCATGGATGACATTGAAAAAGTATTC
AAAGGACGGTTTAAAGAACAGAAAACCTCCAGATTCTGTTTGGACAGCAGTTCCCGAAGAC
AAAGTGCCAAAGCCAAGGCTGGCTGTTGTGCAAAAACACGGCCTTGCCGAAGCTTATAAA
ACCTCCATCGATTTCCCGGATGAACTCTGTATTATCAAAATCTCATCCCCTGATGGAC
TCTGCCGTTCCACCCATTGCCGATGAGCCCTGGTTCACAAAGACTCGGGTCAGGTACAGA
CTGACGGCCATCTCAGTGGACCATTAGCCGGACCCTACCAGAACTACACAGTCACTTTT
GTTGGCTCTGAAGCTGGCATGGTACTTAAAGTTCTGGCAAAGACCAGTCCCTTTCTTTT
AACGACAGCGTATTACTGGAAGAGATTGAAGCCTACAACCATGCAAAGTGCAGTGCCTGAG
AATGAGGAAGACAAAAGGTCATCTCATTACAGTTGGATAAAGATCACCCGCTTTATAT
GTGGCGTTCTCTAGTGCATTATCCGCATCCCCCTCAGTCGCTGTGAGCGTTATGGATCA
TGTA AAAAGTCTTGATTGCATCTCGTGACCCGATTGTGGCTGGTTAAGCCAGGGATCC
TGTGGTAGAGTGACCCAGGGATGCTTGTGCTGAAGGATATGAACAAGACACAGAATTCGGC
AACACAGTCTCATAGGGGACTGCCATGACATGGAGGTATCTTCATCTTCTGTTACCACA
ATGGTGTACGATGGGAAGTCCAGTCTGGAGAGTCCAACCATGATGGTCCACATGA

```



[View online »](#)

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_153619
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_153619.1</a> , <a href="#">NP_705872.1</a>
<b>RefSeq Size:</b>	5919 bp
<b>RefSeq ORF:</b>	1794 bp
<b>Locus ID:</b>	80031
<b>UniProt ID:</b>	<a href="#">Q8NFY4</a>
<b>Cytogenetics:</b>	15q21.1
<b>Domains:</b>	Sema
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Axon guidance

**Gene Summary:**

Semaphorins are a large family, including both secreted and membrane associated proteins, many of which have been implicated as inhibitors or chemorepellents in axon pathfinding, fasciculation and branching, and target selection. All semaphorins possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Additional sequence motifs C-terminal to the semaphorin domain allow classification into distinct subfamilies. Results demonstrate that transmembrane semaphorins, like the secreted ones, can act as repulsive axon guidance cues. This gene encodes a class 6 vertebrate transmembrane semaphorin that demonstrates alternative splicing. Several transcript variants have been identified and expression of the distinct encoded isoforms is thought to be regulated in a tissue- and development-dependent manner. [provided by RefSeq, Nov 2010]

Transcript Variant: This variant (5) lacks an internal exon and uses an alternative splice site on another exon, compared to variant 4. The encoded isoform (5) is missing an internal segment and has a unique C-terminus relative to isoform 4.