

Product datasheet for **SC315145**

SEMA6D (NM_153618) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA6D (NM_153618) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA6D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315145 representing NM_153618. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGGTCTTCCTGCTTTGTGCTACATACTGCTGCTGATGGTTTCCAGTTGAGGGCAGTCAGCTTT
CCTGAAGATGATGAACCCCTTAATACTGTGCACTATCACTATTCAAGGCAATATCCGGTTTTAGAGGA
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TATGAACAAGACACAGAATTCGGCAACACAGCTCATCTAGGGGACTGCCATGAAATTTTGCCTACTTCA
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 TCCAGACAGCCTAGTATGAACCGTGGAGGATATATGCCACCCCACTGGGGCGAAGGTGGACTATATT
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 GTTCTCAAACCCATCTGTCCAGCCACTGAACAAATACACATAC TAG
 ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_153618
- Insert Size:** 3222 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).
- 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:**
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_153618.1](#)

RefSeq Size:	6109 bp
RefSeq ORF:	3222 bp
Locus ID:	80031
UniProt ID:	Q8NFY4
Cytogenetics:	15q21.1
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Axon guidance
MW:	119.9 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) is the longest transcript and encodes the longest isoform (4).</p>