

Product datasheet for **SC314672**

Semaphorin 3D (SEMA3D) (NM_152754) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3D (SEMA3D) (NM_152754) Human Untagged Clone
Tag:	Tag Free
Symbol:	Semaphorin 3D
Synonyms:	coll-2; Sema-Z2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_152754 edited
 ATGAATGCTAATAAAGATGAAAGACTTAAAGCCAGAAGCCAAGATTTTCACCTTTTTCT
 GCTTTGATGATGCTAAGCATGACCATGTTGTTTCTCCAGTCACTGGCACTTTGAAGCAA
 AATATTCCAAGACTCAAGCTAACCTACAAAAGACTTGCTGCTTTCAAATAGCTGTATTCCC
 TTTTTGGGTTTCATCAGAAGGACTGGATTTCAAACCTTCTCTTAGATGAGGAAAGAGGC
 AGGCTGCTCTGGGAGCCAAAGACCACATCTTTCTACTCAGTCTGGTTGACTTAAACAAA
 AATTTTAAAGAAGATTTATTGGCCTGCTGCAAAGAACGGGTGGAATTATGTAATTAGCT
 GGGAAAGATGCCAATACAGAATGTGCAAATTTTCATCAGAGTACTTCAGCCCTATAACAAA
 ACTCACATATATGTGTGGAAGTGGAGCATTTCATCCAATATGTGGGTATATTGATCTT
 GGAGTCTACAAGGAGGATATTATTTCAAAGTACACACATAATTTGGAGTCTGGCAGA
 CTGAAATGTCCTTTGATCCTCAGCAGCCTTTTGTTCAGTAATGACAGATGAGTACCTC
 TACTCTGGAACAGCTTCTGATTTCTTGGCAAAGATACTGCATTCCTCGATCCCTTGGG
 CCTACTCATGACCACACTACATCAGAAGTACATTTTCCAGAGTACTGGCTCAATGGA
 GCAAAATTTATTGGAACCTTCTCATACCAGACACCTACAATCCAGATGATGATAAAATA
 TATTTCTCTTTGTAATCATCTCAAGAAGGCAGTACCTCCGATAAAACCATCCTTTCT
 CGAGTTGGAAGAGTTTGTAGAATGATGTAGGAGGACAACGCAGCCTGATAAACAAGTGG
 ACGACTTTTCTTAAAGCCAGACTGATTTGCTCAATTCCTGGAAGTGTGGGCGAGATACT
 TACTTTGATGAGCTTCAAGATATTTATTTACTCCCAAGAGATGAAAGAAATCCTGTA
 GTATATGGAGTCTTTACTACAACAGCTCCATCTTCAAAGGCTCTGCTGTTTGTGTGAT
 AGCATGGCTGACATCAGAGCAGTTTTTAAATGGTCCATATGCTCATAAGGAAAGTGCAGAC
 CATCGTTGGGTGCAGTATGATGGGAGAATCCTTATCCACGGCCTGGTACATGTCCAAGC
 AAAACCTATGACCACCTGATTAAGTCCACCCGAGATTTTCCAGATGATGCATCAGTTTC
 ATAAAGCGGCACCTCTGTGATGTATAAGTCCGTATACCCAGTTGCAGGAGGACCAACGTTT
 AAGAGAATCAATGTGGATTACAGACTGACACAGATAGTGGTGGATCATGTCATTGCAGAA
 GATGGCCAGTACGATGTAATGTTTCTTGGAACAGACATTGGAAGTGCCTCAAAGTTGTC
 AGCATTTCAAAGGAAAAGTGAATATGGAAGAGGTAGTGTGGAGGAGTGCAGATATTC
 AAGCACTCATCAATCATCTTGAACATGG:AATTGTCTCTGAAGCAGCAACAATTGTACAT
 TGGTTCCCGAGATGGATTGGTTCAGCTCTCCTTGCACAGATGCGACACTTATGGGAAAGC
 TTGCGCAGACTGTTGCTTGGCAGAGACCCTACTGTGCCTGGGATGGAATGCATGCTC
 TCGATATGCTCCTACTTCTAAAAGGAGAGCTAGACGCCAAGATGTAATAATGGCGACCC
 AATCACCAGTGTGGGACATCGAAGACAGCATTAGTCATGAAACTGCTGATGAAAAGGT
 GATTTTTGGCATTGAATTTAACTCAACCTTTCTGGAATGTATACCTAAATCCCAACAAGC
 AACTATTAATGGTATATCCAGAGGTGAGGGGATGAGCATCGAGAGGAGTTGAAGCCCGA
 TGAAAGAATCATCAAACGGAATATGGGCTACTGATTCGAAGTTTGCAGAAGAAGGATTC
 TGGGATGTATTACTGCAAAGCCAGGAGCACACTTTCATCCACACCATAGTGAAGCTGAC
 TTTGAATGTCATTGAGAATGAACAGATGGAAAATACCCAGAGGGCAGAGCATGAGGAGGG
 GAAGGTCAAGGATCTATTGGCTGAGTACCGTTGAGATACAAAGACTACATCCAAATCCT
 TAGCAGCCCAAACCTTCAAGCTCGACCACTGCGAACAGATGTGGCACAGGGGAGAAGCG
 GAGACAGAGAAAACAAGGGGGCCCAAAGTGAAGCACATGCAGGAAATGAAGAAGAAACG
 AAATCGAAGACATCACAGAGACCTGGATGAGCTCCCTAGAGCTGTAGCCACGTAG

Restriction Sites: Please inquire

ACCN: NM_152754

Insert Size: 2300 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_152754.1.
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_152754.2, NP_689967.2</u>
RefSeq Size:	6276 bp
RefSeq ORF:	2334 bp
Locus ID:	223117
UniProt ID:	<u>O95025</u>
Cytogenetics:	7q21.11
Domains:	IG, PSI
Protein Families:	Transmembrane
Protein Pathways:	Axon guidance
Gene Summary:	This gene encodes a member of the semaphorin III family of secreted signaling proteins that are involved in axon guidance during neuronal development. The encoded protein contains an N-terminal Sema domain, an immunoglobulin like domain and a C-terminal basic domain. The protein encoded by this gene binds neuropilin and plays an important role in cardiovascular development. [provided by RefSeq, Aug 2016]