

Product datasheet for **SC127855**

SEMA4C (NM_017789) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA4C (NM_017789) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA4C
Synonyms:	M-SEMA-F; SEMACL1; SEMAF; SEMAI
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 SC127855 sequence for NM_017789 edited (data generated by NextGen Sequencing)

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ATGGCCCCACTGGGCTGTCTGGCTGCTGGCAGCAAGGCTGTGGGGCTGGGCATTGGG
GCTGAGGTGTGGTGAACCTTGTGCCGCTAAGACAGTGTCTTCTGGGGAGCTGGCCACG
GTAGTACGGCGGTTCTCCAGACCGCATCCAGGACTTCTGACACTGACGCTGACGGAG
CCCAGTGGGCTTCTGTACGTGGGCGCCGAGAGGCCCTGTTTGCCTTCAGCATGGAGGCC
CTGGAGTGAAGGAGCGATCTCCTGGGAGGCCCGTGGAGAAGAAGACTGAGTGTATC
CAGAAAGGGAAGAACAACCCAGACCGAGTCTTCAACTTCATCCGCTTCTGCAGCCCTAC
AATGCCTCCACCTGTACGTCTGTGGCACCTACGCCTTCCAGCCCAAGTGCACCTACGTC
AACATGCTCACCTTCACTTTGGAGCATGGAGAGTTTGAAGATGGGAAGGCAAGTGTCCC
TATGACCCAGCTAAGGGCCATGTGGCCTTCTTGTGGATGGTGGAGCTGTACTCGGCCACA
CTCAACAACCTTCTGGGCACGGAACCCATTATCCTGCGTAACATGGGGCCCCACCACTCC
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GAGGAGCAGGTGGGGCTCGGTGGAGCCGCCCTGCTCGTGAAGAAGGGCACCAACTTC
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GTGATGACCTCGGACACTTCAAGCATCTGCAACCTCCGTGGCAGTAAGAAAGTCAAGGCC
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TCCAACCTTGCCCATGCCCGCTGGACCTTTGGGGCCGGGACCTGCCTGCGGAACAGCCC
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CATGCCGGGGCTACCACTGCTTTTACAGAGGAGCAGGGGGCGCGGCTGGCTGCTGAAGGC
TACCTTGTGGCTGTCTGGCAGGCCCCGTGGTACCTTGGAGGCCGGGCCCCCTGGAA
AACCTGGGGCTGGTGTGGCTGGCGGTGGTGGCCCTGGGGCTGTGTGCCTGGTGTGCTG
CTGCTGGTGTGTATTGCGCCGGCGGCTGCGGGAAGAGCTGGAGAAAGGGGCCAAGGCT
ACTGAGAGGACCTTGGTGTACCCCTGGAGTGCCTCAAGGAGCCACCACTCCCCCTTC
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GGCTCCCTTAAGATAGTACCTGGCATGCCCGGTGCCAGCCCGTGGGGGGCCCCCTTCG
CCACCTCCAGGCATCCCAGGCCAGCCTCTGCCTTCTCAACTCGCTTACCTGGGGGT
GGGCGGAACCTCAAATGCCAATGTTACGTGCGCTTACAACCTAGGAGGGGAGGACCGGGGA
GGGCTCGGGCACCCCTGCCTGAGCTCGCGGATGAACTGAGACGCAAACTGCAGCAACGC
CAGCCACTGCCGACTCCAACCCGAGGAGTCATCAGTATGA

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Clone variation with respect to NM_017789.4

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_017789 unedited GGCCGCGAATTCGGCACGNGNNGCGGAACGCGAGGGCGGCGCCCGGGGACTGGAGCTGC GCGCAATAGGACAGCTGGCCTGAAGCTCAGAGCCGGGGCGTGCGCCATGGCCCCACACTG GGCTGTCTGGCTGCTGGCAGCAAGGCTGTGGGGCTGGGCATTGGGGCTGAGGTGTGGT GAACCTTGTGCCGCTAAGACAGTGTCTTCTGGGGAGCTGGCCACGGTAGTACGGCGGTT CTCCCAGACCGGCATCCAGGACTTCCTGACACTGACGCTGACGGAGCCCACTGGGCTTCT GTACGTGGGGCCCAAAGGCCCTGTTTGCCTTACAGCATGGAGGCCCTGGAGCTGCAAGG AGCGATCTCTGGAGGCCCCCGTGGAGAAGAACTGATTGTATCCAAAAGGGAAGAC CAACCAGACCGAATGCTTTCACCTTCATCCGGCTTCTGCACNCCTACAATGGCTCCCAA CCTGTACTTCTGTGGCAACCTACGCCTTCCAAGCCAAGTGCACCTAACGTCACCATGCG TAACCTCCACTTNGGAACATTGGAGAGTTGGAAGATGGAAGGGCAAGTGTCCCTATGA CCCAACTAGGGCCATGTTGGCCTTCTTGTGGATGGTACTTGTACTGGCCAACCTAAAA CTTCTGGACGGAACATTATCTGGTAACAGGGGCCACATTCTGAGACGATACTGCCT TTGGTAAACAACAATTGAGGTTTCTGTCTGAAG
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_017789 unedited ACTGGGGAGGGTACANNNNNNNACCCGGGATCTGTTACGAAACAGCTATGACCGCG GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTAATCGTTTCATTTTCTCCA TTTTATTTGTCAATATANAATACTCAAATATTTACAACAAAATAATACGCCGGGACCCC ATTAGTTACTGGTAGGAGCCCTCCTCCTAAGGCTGGAAAAAATATGCCATTGTCCAC AGGAAGGCCAACCTTTTCTTTTTTCCCTTAAAAAGCTTTTCCAACCTGGTCAAGAA GAAGGGCAGTTTTAAATACCCCTGAACCCCGGGGCCAATGGGAAGGCCAACCAACCTT TCCCCAAAAACCAAGAAGGTTCAATTTCCCTTCCCCAACCTGAAAACATTTACAGCCC TAAGAGCCAGAGTTGGCCACCCCAAGGCTGGACTCTCTTGAAGGGCAAAGAACCC TGTTACCCACCTCCCTATGTTTCATATCTTGCCCGACACTTTGGGGCATTGGGGGGTTG GGAGAGAACAAATGGTTACGACCCCTTTTCCCTTTATAAGATTCCATGGAGTCATCCAG GAGGGACGCCCGCGCAACGGGAAGAATTCTGCTCGCAAACCGGGGAAGGGGTATGCTTC ACAAGAGCCCACACGCGGTGCGCCCAACCCATTATGCCCCACGCGCCGAAACACATTGT TGCTATAATCTGGAGAAAACACCCCTTTGTGAGAATATCTTGCCTCTAAAAAATTTT TTGGCGCATGGGGGGCCCGCGGTGGTCTTGATATTACCAAAGGGGAGAGAT
Restriction Sites:	NotI-NotI
ACCN:	NM_017789
Insert Size:	4000 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_017789.3, NP_060259.3</u>
RefSeq Size:	3537 bp
RefSeq ORF:	2502 bp
Locus ID:	54910
UniProt ID:	<u>Q9C0C4</u>
Cytogenetics:	2q11.2
Domains:	PSI, IG, PSI
Protein Families:	Transmembrane
Protein Pathways:	Axon guidance
Gene Summary:	Cell surface receptor for PLXNB2 that plays an important role in cell-cell signaling. PLXNB2 binding promotes downstream activation of RHOA and phosphorylation of ERBB2 at 'Tyr-1248'. Required for normal brain development, axon guidance and cell migration (By similarity). Probable signaling receptor which may play a role in myogenic differentiation through activation of the stress-activated MAPK cascade.[UniProtKB/Swiss-Prot Function]