

Product datasheet for **SC327566**

Semaphorin 7a (SEMA7A) (NM_001146030) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 7a (SEMA7A) (NM_001146030) Human Untagged Clone
Tag:	Tag Free
Symbol:	SEMA7A
Synonyms:	CD108; CDw108; H-SEMA-K1; H-Sema-L; JMH; SEMAK1; SEMAL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001146030, the custom clone sequence may differ by one or more nucleotides

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ATGAGAGGCTACGCCCTTCAGCCCGGACGAGAACTCCCTGGTCTGTTTGAAGGGGAC
GAGGTGTATTCCACCATCCGGAAGCAGGAATAACAATGGGAAGATCCCTCGGTTCCGCCGC
ATCCGGGGCGAGAGTGAGCTGTACACCAAGTACTGTATGCAGAACCCACAGTTTCATC
AAAGCCACCATCGTGCACCAAGACCAGGCTTACGATGACAAGATCTACTACTTCTTCCGA
GAGGACAATCCTGACAAGAATCCTGAGGCTCCTCAATGTGTCCCGTGTGCCCCAGTTG
TGCAGGGGGGACCAGGGTGGGAAAGTTCACTGTCAAGTCTCCAAGTGAACACTTTTCTG
AAAGCCATGCTGGTATGCAAGTGTGCTGCCACCAACAAGAACTTCAACAGGCTGCAAGAC
GTCTTCTGCTCCCTGACCCAGCGGCCAGTGGAGGGACACCAGGGTCTATGGTGTTTTC
TCCAACCCTGGAATACTCAGCCGTCTGTGTATTCCCTCGGTGACATTGACAAGGTC
TTCCGTACCTCCTCACTCAAGGGCTACCACTCAAGCCTTCCCAACCCGCGGCCTGGCAAG
TGCTCCAGACCAGCAGCCGATACCCACAGAGACCTCCAGGTGGCTGACCGTCACCCA
GAGGTGGCGCAGAGGGTGGAGCCATGGGGCCTCTGAAGACGCCATTGTTCCACTCTAAA
TACCACTACCAGAAAGTGGCCGTCCACCGCATGCAAGCCAGCCACGGGGAGACCTTTCAT
GTGCTTTACCTAACTACAGACAGGGGCACTATCCACAAGTGGTGAACCGGGGGAGCAG
GAGCACAGCTTCGCCTTCAACATCATGGAGATCCAGCCCTTCCGCGCGCGGCTGCCATC
CAGACCATGTGCTGGATGCTGAGCGGAGGAAGCTGTATGTGAGCTCCAGTGGGAGGTG
AGCCAGGTGCCCTGGACCTGTGTGAGGTCTATGGCGGGGGTCCACCGTTGCCTCATG
TCCCGAGACCCCTACTGCGGCTGGGACCAAGGCCGCTGCATCTCCATCTACAGCTCCGAA
CGGTCAAGTGTGCAATCCATTAATCCAGCCGAGCCACACAAGGAGTGTCCCAACCCAAA
CCAGACAAGGCCCACTGCAGAAGGTTTCCCTGGCCCCAACTCTCGCTACTACCTGAGC
TGCCCCATGGAATCCCGCCACGCCACCTACTCATGGCGCCACAAGGAGAAGCTGGAGCAG
AGCTGCGAACCTGGTCAACAGAGCCCCAACTGCATCCTGTTTCATCGAGAACCTCACGGCG
CAGCAGTACGGCCACTACTTCTGCGAGGCCAGGAGGGTCTACTTCCGCGAGGCTCAG
CACTGGCAGTGTGCCCCAGGACGGCATCATGGCCGAGCACCTGCTGGGTGATGCCTGT
GCCCTGGCCGCTCCCTCTGGCTGGGGTGTGCCACACTCACTTGGCTTGTGGTGC
CAC
    
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Restriction Sites: Please inquire

ACCN: NM_001146030

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:	<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_001146030.1</u> , <u>NP_001139502.1</u>
RefSeq Size:	3246 bp
RefSeq ORF:	1506 bp
Locus ID:	8482
UniProt ID:	<u>O75326</u>
Cytogenetics:	15q24.1
Protein Pathways:	Axon guidance
Gene Summary:	<p>This gene encodes a member of the semaphorin family of proteins. The encoded preproprotein is proteolytically processed to generate the mature glycosylphosphatidylinositol (GPI)-anchored membrane glycoprotein. The encoded protein is found on activated lymphocytes and erythrocytes and may be involved in immunomodulatory and neuronal processes. The encoded protein carries the John Milton Hagen (JMh) blood group antigens. Mutations in this gene may be associated with reduced bone mineral density (BMD). Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Feb 2016]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (3) has a shorter N-terminus and lacks a predicted signal peptide compared to isoform 1. Sequence Note: This RefSeq record represents the SEMA7A*001.1.1 allele.</p>