

Product datasheet for **SC305716**

SIGLECL1 (SIGLEC12) (NM_053003) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIGLECL1 (SIGLEC12) (NM_053003) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIGLECL1
Synonyms:	S2V; Siglec-XII; SIGLECL1; SLG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC305716 representing NM_053003.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTACTGCTGCTACTGCTGCCACCCCTGCTCTGTGGGAGAGTGGGGGCTAAGGAACAGAAGGAT
TACCTGCTGACAATGCAGAAGTCCGTGACGGTGACAGGAGGCCTGTGTCTCTGTGCTTTGCTCCTTC
TCCTACCCCAAATGGCTGGACTGCCTCCGATCCAGTTCATGGCTACTGGTTCCGGGCAGGGGACCAT
GTAAGCCGGAACATTCCAGTGGCCACAACAACCCAGCTCGAGCAGTGCAGGAGGAGACTCGGGACCGA
TTCCACCTCCTTGGGGACCCACAGAACAAGGATTGTACCCTGAGCATCAGAGACACCAGAGAGAGTGAT
GCAGGGACATACGTCTTTTGTGTAGAGAGAGGAAATATGAAATGGAATTATAAATATGACCAGCTCTCT
GTGAATGTGACAGCGTCCAGGACCTACTGTCAAGATACAGGCTGGAGGTGCCAGAGTCCGTGACTGTG
CAGGAGGGTCTGTGTCTCTGTGCCCTGCAGTGCCTTACCCCAATTACAACTGGACTGCCTCTAGC
CCTGTTTATGGATCCTGGTTCAAGGAAGGGGCCGATATACCATGGGATATCCAGTGGCCACAAACACC
CCAAGTGGAAAAGTGCAAGAGGATACCCACGGTCGATTCTCCTCTTGGGGACCCACAGACCAACAC
TGCTCCCTGAGCATCAGAGATGCCAGGAAGGGGATTACAGGAAGTACTACTTCCAGGTGGAGAGAGGA
AGCAGGAAATGGAACACATATATGACAAGCTCTCTGTGCATGTGACAGCCCTGACTCACATGCCACC
TTCTCCATCCCGGGACCCCTGGAGTCTGCCACCCAGGAACCTGACCTGCTCTGTGCCCTGGCCCTGT
GAACAGGGGACGCCCCACGATCACCTGGATGGGGGCCCTCCGTGCTCCTCCCTGGACCCACTATCACT
CGCTCCTCGATGCTCAGCCTCATCCACAGCCCCAGGACCATGGCACCAGCCTCACCTGTGAGGTGACC
TTGCCCTGGGGCCGGCGTGACCATGACCAGGGCTGTCCGACTCAACATATCCTATCCTCCTCAGAATTG
ACCATGACTGTCTTCAAGGAGATGGCACAGCATCCACAACCTTGAGGAATGGCTCGGCCCTTTCAGTC
CTGGAGGGCCAGTCCCTGCACCTTGTCTGTGCTGTGACAGCAATCCCCCTGCCAGGCTGAGCTGGACC
TGGGGGAGCCTGACCCTGAGCCCCACAGTCTCGAACCTTGGGGTGGTGGAGCTGCCTCGAGTGCAT
GTGAAGGATGAAGGGGAATTCACCTGCCGAGCTCAGAACCCTCTAGGCTCCAGCACATTTCCCTGAGC
CTCTCCCTGAAAACGAGTACACAGGCAAAATGAGGCCTATATCAGGAGTGACGCTAGGGGCATTGGGG
GGAGCTGGAGCCACAGCCCTGGTCTTCTGTACTTCTGCATCATCTTCGTTGTAGTGAGGTCTGCAGG
AAGAAATCGGCAAGGCCAGCAGTGGGCGTGGGGGATACAGGCATGGAGGACGCAAACGCTGTGAGGGC
TCAGCCTCTCAGGGACCCCTGATTGAATCCCCGGCAGATGACAGCCCCCACACCATGCTCCGCCAGCC
CTGGCCACCCCTCCCCAGAGGAAGGAGAGATCCAGTATGCATCCCTCAGCTTCCACAAAGCGAGGCCT
CAGTACCCACAGGAACAGGAGGCCATCGGCTATGAGTACTCCGAGATCAACATCCCAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: Sgfl-Mlul
ACCN: NM_053003
Insert Size: 1788 bp

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:

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_053003.3](#)

RefSeq Size: 2258 bp

RefSeq ORF: 1788 bp

Locus ID: 89858

UniProt ID: [Q96PQ1](#)

Cytogenetics: 19q13.41

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transmembrane

MW: 65 kDa

Gene Summary:

Sialic acid-binding immunoglobulin-like lectins (SIGLECs) are a family of cell surface proteins belonging to the immunoglobulin superfamily. They mediate protein-carbohydrate interactions by selectively binding to different sialic acid moieties present on glycolipids and glycoproteins. This gene encodes a member of the SIGLEC3-like subfamily of SIGLECs. Members of this subfamily are characterized by an extracellular V-set immunoglobulin-like domain followed by two C2-set immunoglobulin-like domains, and the cytoplasmic tyrosine-based motifs ITIM and SLAM-like. The encoded protein, upon tyrosine phosphorylation, has been shown to recruit the Src homology 2 domain-containing protein-tyrosine phosphatases SHP1 and SHP2. It has been suggested that the protein is involved in the negative regulation of macrophage signaling by functioning as an inhibitory receptor. This gene is located in a cluster with other SIGLEC3-like genes on 19q13.4. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

Transcript Variant: This variant (1), also known as SLG-Long (SLG-L), encodes the longer isoform (a). Unlike other members of the SIGLEC3-like subfamily, which contain only one V-set immunoglobulin-like domain, isoform a contains two.