

Product datasheet for **SC305613**

SIGLECL1 (SIGLEC12) (NM_033329) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIGLECL1 (SIGLEC12) (NM_033329) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIGLEC12
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: >SC305613 representing NM_033329.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

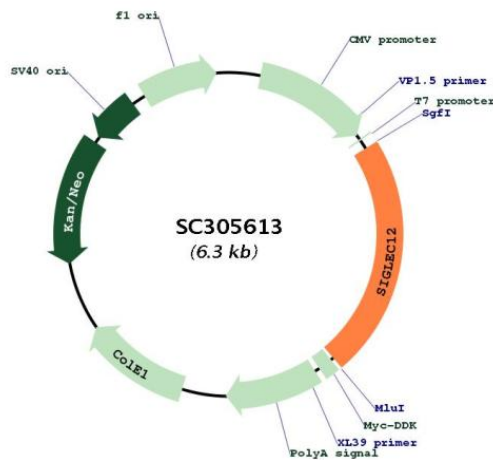
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CTGTGTGCTCTGTGCCCTGCAGTGTCTTTACCCCATTAACAAGTGGACTGCCTCTAGCCCTGTTTAT
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TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN: NM_033329

Insert Size: 1434 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:	<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_033329.2</u>
RefSeq Size:	1868 bp
RefSeq ORF:	1434 bp
Locus ID:	89858
UniProt ID:	<u>Q96PQ1</u>
Cytogenetics:	19q13.41
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transmembrane
MW:	51.7 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 (2), also known as SLG-Short (SLG-S), differs in the 5' UTR and uses an alternate segment in the 5' coding region compared to variant 1, resulting in the use of an alternate in-frame translation initiation codon. It encodes an isoform (b) with a different and shorter N-terminus compared to isoform a. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.