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Product datasheet for RC219265

SIGLECL1 (SIGLEC12) (NM_033329) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIGLECL1 (SIGLEC12) (NM_033329) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIGLECL1
Synonyms:	S2V; Siglec-XII; SIGLECL1; SLG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC219265 representing NM_033329
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCTGCCCCTGCTATGGGCAAATGAAGAGAGGGACAGTGGGGGCTGGGCTGACCCTCGTTTCTCCA
CAGCGTCCCAGGACCTACTGTCAAGATACAGGCTGGAGGTGCCAGAGTCGGTGACTGTGCAGGAGGGTCT
GTGTGTCTCTGTGCCCTGCAGTGTCCTTTACCCCCATTACAACTGGACTGCCTCTAGCCCTGTTTATGGA
TCCTGGTTCAAGGAAGGGGCCGATATACCATGGGATATTCCAGTGGCCACAAACACCCCAAGTGGAAAAG
TGCAAGAGGATACCCACGGTCGATTCCTCCTCCTTGGGGACCCACAGACCAACAACTGCTCCCTGAGCAT
CAGAGATGCCAGGAAGGGGGATTCAGGGAAGTACTACTTCCAGGTGGAGAGAGGAAGCAGGAAATGGAAC
TACATATATGACAAGCTCTCTGTGCATGTGACAGCCCTGACTCACATGCCCACCTTCTCCATCCCGGGGA
CCCTGGAGTCTGGCCACCCCAGGAACCTGACCTGCTCTGTGCCCTGGGCCTGTGAACAGGGGACGCCCCC
CACGATCACCTGGATGGGGGCCTCCGTGTCCTCCCTGGACCCCACTATCACTCGCTCCTCGATGCTCAGC
CTCATCCCACAGCCCCAGGACCATGGCACCAGCCTCACCTGTCAGGTGACCTTGCCTGGGGCCGGCGTGA
CCATGACCAGGGCTGTCCGACTCAACATATCCTATCCTCCTCAGAACTTGACCATGACTGTCTTCCAAGG
AGATGGCACAGCATCCACAACCTTGAGGAATGGCTCGGCCCTTTCAGTCCTGGAGGGCCAGTCCCTGCAC
CTTGTCTGTGCTGTCGACAGCAATCCCCCTGCCAGGCTGAGCTGGACCTGGGGGAGCCTGACCCTGAGCC
CCTCACAGTCCTCGAACCTTGGGGTGCTGGAGCTGCCTCGAGTGCATGTGAAGGATGAAGGGGAATTCAC
CTGCCGAGCTCAGAACCCTCTAGGCTCCCAGCACATTTCCCTGAGCCTCTCCCTGCAAAACGAGTACACA
GGCAAAATGAGGCCTATATCAGGAGTGACGCTAGGGGCATTCGGGGGAGCTGGAGCCACAGCCCTGGTCT
TCCTGTACTTCTGCATCATCTTCGTTGTAGTGAGGTCCTGCAGGAAGAAATCGGCAAGGCCAGCAGTGGG
CGTGGGGGATACAGGCATGGAGGACGCAAACGCTGTCAGGGGCTCAGCCTCTCAGGGACCCCTGATTGAA
TCCCCGGCAGATGACAGCCCCCCACACCATGCTCCGCCAGCCCTGGCCACCCCCTCCCCAGAGGAAGGAG
AGATCCAGTATGCATCCCTCAGCTTCCACAAAGCGAGGCCTCAGTACCCACAGGAACAGGAGGCCATCGG
CTATGAGTACTCCGAGATCAACATCCCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219265 representing NM_033329
Red=Cloning site Green=Tags(s)

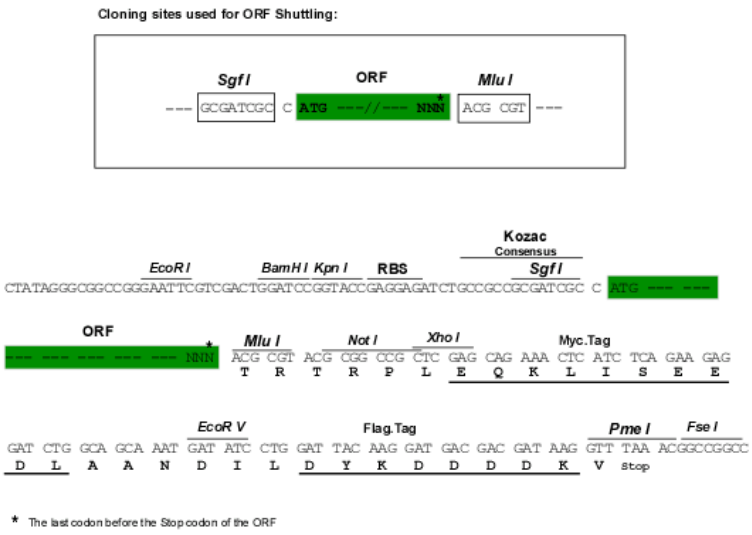
MLLPLLWANEERDSGGWADPRFSTASQDLLSRYRLEVPESVTVQEGLCVSVPCSVLYPHYNWTASSPVYG
SWFKEGADIPWDIPVATNTPSGKVQEDTHGRFLLLGDPQTNNCSLSIRDARKGDSGKYYFQVERGSRKWN
YIYDKLSVHVTALTHMPTFSIPGTLESGHPRNLTCSVPWACEQGTPPTITWMGASVSSLDPTITRSSMLS
LIPQPQDHGTSLTCQVTLPGAGVTMTRAVRLNISYPPQNLTMTVFQGDGTASTTLRNGSALSVLEGQSLH
LVCAVDSNPPARLSWTWGSLTLSPSQSSNLGVLELPRVHVKDEGEFTCRAQNPLGSQHISLSLSLQNEYT
GKMRPISGVTLGAFGGAGATALVFLYFCIIFVVVRSCRKKSARPAVGVGDTGMEDANAVRGSASQGPLIE
SPADDSPPHHAPPALATPSPEEGEIQYASLSFHKARPQYPQEQEAIGYEYSEINIPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8011_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033329

ORF Size: 1431 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_033329.2, NP_201586.1

RefSeq Size: 1736 bp

RefSeq ORF: 1434 bp

Locus ID: 89858

UniProt ID: Q96PQ1

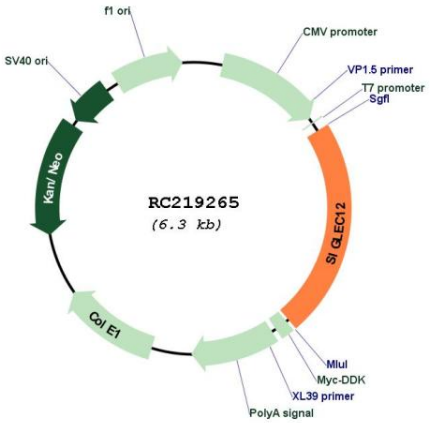
Cytogenetics: 19q13.41

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

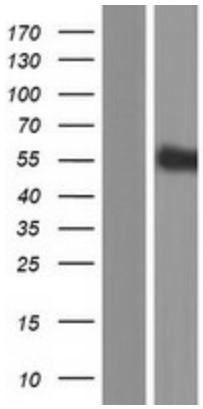
MW: 50.1 kDa

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]

Product images:



Circular map for RC219265



Western blot validation of overexpression lysate (Cat# [LY409587]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219265 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).