

Product datasheet for **RG219265**

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:	TurboGFP
Symbol:	SIGLEC12
Synonyms:	S2V; Siglec-XII; SIGLECL1; SLG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG219265 representing NM_033329
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTGCCCTGCTATGGGCAAATGAAGAGAGGGACAGTGGGGGCTGGGCTGACCCCTGTTTCTCCA
 CAGCGTCCAGGACCTACTGTCAAGATACAGGCTGGAGGTGCCAGAGTCGGTGACTGTGCAGGAGGGTCT
 GTGTGTCTCTGTGCCCTGCAGTGTCTTTACCCCACTTACAACCTGGACTGCCTCTAGCCCTGTTTATGGA
 TCCTGGTTCAAGGAAGGGGCCGATATACCATGGGATATCCAGTGGCCACAAACACCCCAAGTGGAAAAG
 TGCAAGAGGATACCCACGGTCGATTCTCCTCCTTGGGGACCCACAGACCAACAACCTGCTCCCTGAGCAT
 CAGAGATGCCAGGAAGGGGATTAGGGAACTACTTCCAGGTGGAGAGAGGAAGCAGGAAATGGAAC
 TACATATATGACAAGCTCTGTGCATGTGACAGCCCTGACTCACATGCCACCTTCTCCATCCCGGGGA
 CCCTGGAGTCTGGCCACCCAGGAACCTGACCTGCTCTGTGCCCTGGGCCTGTGAACAGGGGACGCCCCC
 CAGGATCACTGGATGGGGCCCTCGTGTCTCCTGGACCCACTATCACTCGCTCCTCGATGCTCAGC
 CTATCCACAGCCCCAGGACCATGGCACCAGCCTCACCTGTGAGGTGACCTTGCCTGGGCCGGCGTGA
 CCATGACCAGGGCTGTCCGACTCAACATATCCTATCCTCCTCAGAACTTGACCATGACTGTCTTCAAGG
 AGATGGCAGCATCCACAACCTTGAGGAATGGCTCGGCCCTTTCAGTCTGGAGGGCCAGTCCCTGCAC
 CTTGTCTGTGCTGTGCAGCAATCCCCCTGCCAGGCTGAGCTGGACCTGGGGGAGCCTGACCCCTGAGCC
 CCTCACAGTCTCGAACCTTGGGGTGTGGAGCTGCCTCGAGTGCATGTGAAGGATGAAGGGGAATTCAC
 CTGCCGAGCTCAGAACCTTAGGCTCCAGCACATTTCCCTGAGCCTCTCCCTGCAAAACGAGTACACA
 GGCAAAATGAGGCCTATATCAGGAGTACGCTAGGGCATTGGGGGAGCTGGAGCCACAGCCCTGGTCT
 TCCTGTACTTCTGCATCATCTTCGTTGTAGTGAGGTCTGCAGGAAGAAATCGGCAAGGGCAGCAGTGGG
 CGTGGGGGATACAGGCATGGAGGACGCAACGCTGTGAGGGCTCAGCCTCTCAGGGACCCCTGATTGAA
 TCCCCGGCAGATGACAGCCCCACACCATGCTCCGCCAGCCCTGGCCACCCCTCCCCAGGAAGGAG
 AGATCCAGTATGCATCCCTCAGCTTCCACAAAGCGAGGCCTCAGTACCCACAGGAACAGGAGGCCATCGG
 CTATGAGTACTCCGAGATCAACATCCCCAAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

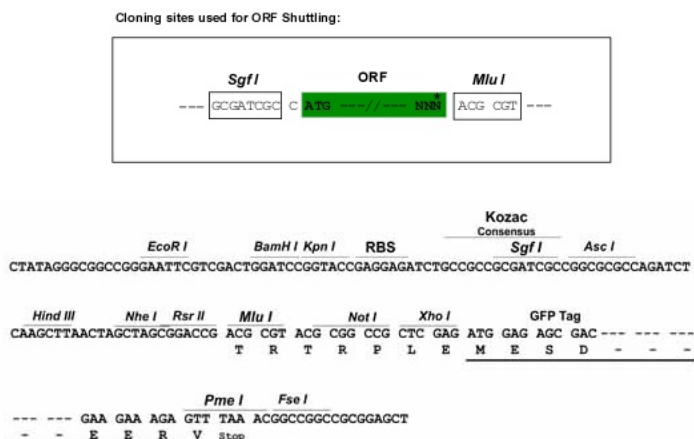
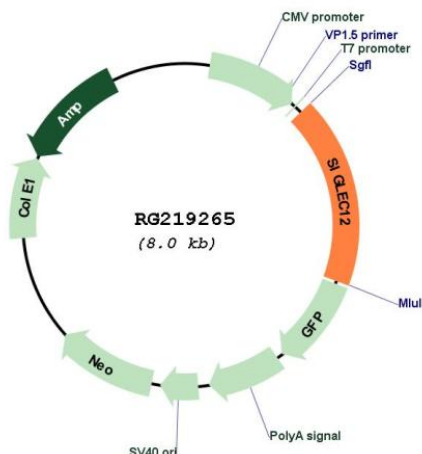
>RG219265 representing NM_033329
 Red=Cloning site Green=Tags(s)

MLLPLLWANEERDSGGWADPRFSTASQDLLSRYRLEVPEVSVTVQEGLCVSVPCSVLYPHYNWTASSPVY
 SWFKEGADIPWDIPVATNTPSGKVQEDTHGRFLLLDGPQTNNCSLSIRDARKGDSGKYYFQVERGSRKWN
 YIYDKLSVHVLTALHMPFISIPGTLESGHPRNLTCVWPWACEQGTPTITWMGASVSSLDPTITRSSMLS
 LIPQPQDHGTSLTQVTLPGAGVTMTRAVRLNISYPPQNLMTVFQGDGTAATTLRNGSALSVLEGQSLH
 LVCAVDSNPPARLSWTWGSLLTSPSQSSNLGVLELPRVHVKDEGEFTCRAQNPLGSQHISLSLQNEYT
 GKMRPISGVTLGAFGGAGATALVFLYFCIIFVVVRSRKKSRPAGVGDGTMEDANAVRGSASQGPLIE
 SPADDSPPHAPPALATPSPEEGEIQYASLSFHKARPQYPQEQAIGYEYSEINIPK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


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

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]