**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RG207808

## SIGLECL1 (SIGLEC12) (NM_053003) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | SIGLECL1 (SIGLEC12) (NM_053003) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | SIGLECL1 |
| **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:**

>RG207808 representing NM_053003
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTACTGCTGCTGCTACTGCTGCCACCCCTGCTCTGTGGGAGAGTGGGGGCTAAGGAACAGAAGGATT
ACCTGCTGACAATGCAGAAGTCCGTGACGGTGCAGGAGGGCCTGTGTGTCTCTGTGCTTTGCTCCTTCTC
CTACCCCCAAAATGGCTGGACTGCCTCCGATCCAGTTCATGGCTACTGGTTCCGGGCAGGGGACCATGTA
AGCCGGAACATTCCAGTGGCCACAAACAACCCAGCTCGAGCAGTGCAGGAGGAGACTCGGGACCGATTCC
ACCTCCTTGGGGACCCACAGAACAAGGATTGTACCCTGAGCATCAGAGACACCAGAGAGAGTGATGCAGG
GACATACGTCTTTTGTGTAGAGAGAGGAAATATGAAATGGAATTATAAATATGACCAGCTCTCTGTGAAT
GTGACAGCGTCCCAGGACCTACTGTCAAGATACAGGCTGGAGGTGCCAGAGTCGGTGACTGTGCAGGAGG
GTCTGTGTGTCTCTGTGCCCTGCAGTGTCCTTTACCCCCATTACAACTGGACTGCCTCTAGCCCTGTTTA
TGGATCCTGGTTCAAGGAAGGGGCCGATATACCATGGGATATTCCAGTGGCCACAAACACCCCAAGTGGA
AAAGTGCAAGAGGATACCCACGGTCGATTCCTCCTCCTTGGGGACCCACAGACCAACAACTGCTCCCTGA
GCATCAGAGATGCCAGGAAGGGGGATTCAGGGAAGTACTACTTCCAGGTGGAGAGAGGAAGCAGGAAATG
GAACTACATATATGACAAGCTCTCTGTGCATGTGACAGCCCTGACTCACATGCCCACCTTCTCCATCCCG
GGGACCCTGGAGTCTGGCCACCCCAGGAACCTGACCTGCTCTGTGCCCTGGGCCTGTGAACAGGGGACGC
CCCCCACGATCACCTGGATGGGGGCCTCCGTGTCCTCCCTGGACCCCACTATCACTCGCTCCTCGATGCT
CAGCCTCATCCCACAGCCCCAGGACCATGGCACCAGCCTCACCTGTCAGGTGACCTTGCCTGGGGCCGGC
GTGACCATGACCAGGGCTGTCCGACTCAACATATCCTATCCTCCTCAGAACTTGACCATGACTGTCTTCC
AAGGAGATGGCACAGCATCCACAACCTTGAGGAATGGCTCGGCCCTTTCAGTCCTGGAGGGCCAGTCCCT
GCACCTTGTCTGTGCTGTCGACAGCAATCCCCCTGCCAGGCTGAGCTGGACCTGGGGGAGCCTGACCCTG
AGCCCCTCACAGTCCTCGAACCTTGGGGTGCTGGAGCTGCCTCGAGTGCATGTGAAGGATGAAGGGGAAT
TCACCTGCCGAGCTCAGAACCCTCTAGGCTCCCAGCACATTTCCCTGAGCCTCTCCCTGCAAAACGAGTA
CACAGGCAAAATGAGGCCTATATCAGGAGTGACGCTAGGGGCATTCGGGGGAGCTGGAGCCACAGCCCTG
GTCTTCCTGTACTTCTGCATCATCTTCGTTGTAGTGAGGTCCTGCAGGAAGAAATCGGCAAGGCCAGCAG
TGGGCGTGGGGGATACAGGCATGGAGGACGCAAACGCTGTCAGGGGCTCAGCCTCTCAGGGACCCCTGAT
TGAATCCCCGGCAGATGACAGCCCCCCACACCATGCTCCGCCAGCCCTGGCCACCCCCTCCCCAGAGGAA
GGAGAGATCCAGTATGCATCCCTCAGCTTCCACAAAGCGAGGCCTCAGTACCCACAGGAACAGGAGGCCA
TCGGCTATGAGTACTCCGAGATCAACATCCCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

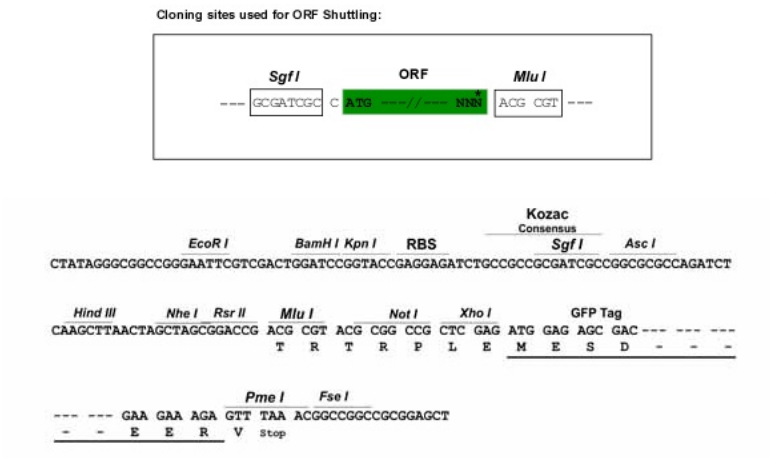
>RG207808 representing NM_053003
Red=Cloning site Green=Tags(s)

MLLLLLLLPPLLCGRVGAKEQKDYLLTMQKSVTVQEGLCVSVLCSFSYPQNGWTASDPVHGYWFRAGDHV
SRNIPVATNNPARAVQEETRDRFHLLGDPQNKDCTLSIRDTRESDAGTYVFCVERGNMKWNYKYDQLSVN
VTASQDLLSRYRLEVPESVTVQEGLCVSVPCSVLYPHYNWTASSPVYGSWFKEGADIPWDIPVATNTPSG
KVQEDTHGRFLLLGDPQTNNCSLSIRDARKGDSGKYYFQVERGSRKWNYIYDKLSVHVTALTHMPTFSIP
GTLESGHPRNLTCSVPWACEQGTPPTITWMGASVSSLDPTITRSSMLSLIPQPQDHGTSLTCQVTLPGAG
VTMTRAVRLNISYPPQNLTMTVFQGDGTASTTLRNGSALSVLEGQSLHLVCAVDSNPPARLSWTWGSLTL
SPSQSSNLGVLELPRVHVKDEGEFTCRAQNPLGSQHISLSLSLQNEYTGKMRPISGVTLGAFGGAGATAL
VFLYFCIIFVVVRSCRKKSARPAVGVGDTGMEDANAVRGSASQGPLIESPADDSPPHHAPPALATPSPEE
GEIQYASLSFHKARPQYPQEQEAIGYEYSEINIPK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_053003

**ORF Size:** 1785 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

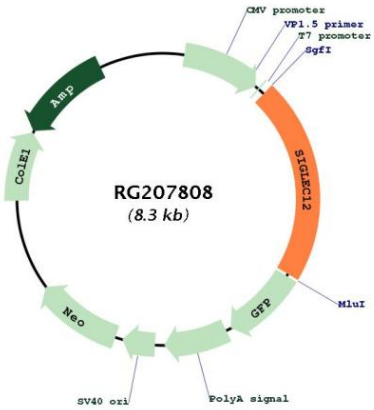
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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_053003.4 |
| **RefSeq Size:** | 2126 bp |
| **RefSeq ORF:** | 1788 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] |

## Product images:




Circular map for RG207808