

Product datasheet for **RC207808**

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:	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)



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ORF Nucleotide Sequence:

>RC207808 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTACTGCTGCTACTGCTGCCACCCTGCTCTGTGGGAGAGTGGGGGCTAAGGAACAGAAGGATT
 ACCTGCTGACAATGCAGAAGTCGTGACGGTGCAGGAGGCCCTGTGTCTCTGTGCTTTGCTCCTTCTC
 CTACCCCAAAATGGCTGGACTGCCTCCGATCCAGTTCATGGCTACTGGTTCCGGGCAGGGGACCATGTA
 AGCCGGAACATCCAGTGGCCACAAACAACCCAGCTCGAGCAGTGCAGGAGGAGACTCGGGACCGATTCC
 ACCTCCTTGGGGACCCACAGAACAAGGATTGTACCCTGAGCATCAGAGACACCAGAGAGAGTGATGCAGG
 GACATACGCTTTTGTGTAGAGAGAGGAAATATGAAATGGAATTATAAATATGACCAGCTCTCTGTGAAT
 GTGACAGCGTCCCAGGACCTACTGTCAAGATACAGGCTGGAGGTGCCAGAGTCGGTGACTGTGCAGGAGG
 GTCTGTGTCTCTGTGCCCTGCAGTGTCTTTACCCCACTTCAACTGGACTGCCTCTAGCCCTGTTTA
 TGGATCCTGGTTCAAGGAAGGGCCGATATACCATGGGATATTCCAGTGGCCACAACACCCCAAGTGA
 AAAGTGAAGAGGATACCCACGGTCGATTCCTCCTCCTTGGGGACCCACAGACCAACAACCTGCTCCCTGA
 GCATCAGAGATGCCAGGAAGGGGATTCAGGGAAGTACTACTTCCAGGTGGAGAGAGGAAGCAGGAAATG
 GAACTACATATATGACAAGCTCTCTGTGCATGTGACAGCCCTGACTCACATGCCACCTTCTCCATCCCG
 GGGACCTGGAGTCTGGCCACCCAGGAACCTGACCTGCTCTGTGCCCTGGGCTGTGAACAGGGGACGC
 CCCCCACGATCACCTGGATGGGGCCCTCCGTGTCTCCTGGACCCACTATCACTCGCTCCTCGATGCT
 CAGCCTCATCCCACAGCCCAAGGACCATGGCACCAGCCTCACCTGTCAGGTGACCTTGCCTGGGGCCGGC
 GTGACCATGACCAGGGCTGTCCGACTCAACATATCCTATCCTCCTCAGAACTTGACCATGACTGTCTTCC
 AAGGAGATGGCACAGCATCCACAACCTTGAGGAATGGCTCGGCCCTTTCAGTCTGGAGGGCCAGTCCCT
 GCACCTTGTCTGTGCTGTGACAGCAATCCCCCTGCCAGGCTGAGCTGGACCTGGGGGAGCCTGACCCTG
 AGCCCTCACAGTCTCGAACCTTGGGGTGTGGAGCTGCCTCGAGTGCATGTGAAGGATGAAGGGGAAT
 TCACCTGCCGAGCTCAGAACCCTTAGGCTCCCAGCACATTTCCCTGAGCCTCTCCCTGCAAAACGAGTA
 CACAGGCAAAATGAGGCCTATATCAGGAGTACGCTAGGGGCAATCGGGGAGCTGGAGCCACAGCCCTG
 GTCTTCTGTACTTCTGCATCATCTTGTGTAGTGTGAGGCTCCTGCAGGAAGAAATCGGCAAGGCCAGCAG
 TGGGCGTGGGGATACAGGCATGGAGGACGAAACGCTGTGAGGGCTCAGCCTCTCAGGGACCCCTGAT
 TGATCCCCGGCAGATGACAGCCCCCACACCATGCTCCGCCAGCCCTGGCCACCCCTCCCCAGAGGAA
 GGAGAGATCCAGTATGCATCCCTCAGCTCCACAAGCGAGGCCCTCAGTACCCACAGGAACAGGAGGCCA
 TCGGCTATGAGTACTCCGAGATCAACATCCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207808 protein sequence
 Red=Cloning site Green=Tags(s)

MLLLLLLLPPLLCGRVGAKEQKDYLLTMQKSVTVQEGLCVSVLCSFSYPQNGWTASDPVHGYWFRAGDHV
 SRNIPVATNPNPARAVQEE TRDRFHLLGDPQNKDCTL SIRDTRSDAGTYVFCVERGNMKNYKYDQLSVN
 VTASQDLLSRYRLEVPESVTVQEGLCVSVPCSVLYPHYNWTASSPVYGSWFKEGADIPWDIPVATNTPSG
 KVQEDTHGRFLLGDPQTNNCSL SIRDARKGDSGKYFQVERGSRKWNYYIDKLSVHVLTALHMPFTFSIP
 GTLESGHPRNL TCSVPWACEQGTPTITWVGASVSSLDPTITRSMMLSLIPQPQDHGTSLTCQVTLPGAG
 VTMTRAVRLNISYPQNL TMTVFQDGTASTTLRNGSALSVLEGQSLHLVCAVDSNPPARLSWTWGSLLT
 SPSQSSNLGVLELPRVHVKDEGEFTCRQNPGLSQHISLSLSLQNEYTGKMRPISGVTLGAFGGAGATAL
 VFYFCIIFVVVRSCRKKSARPAVGVGDTGMEDANAVRGSASQGPLIESPADDSPPHHAPPALATPSPEE
 GEIQYASLSFHKARPQYPQEQEAI GYEYSEINIPK

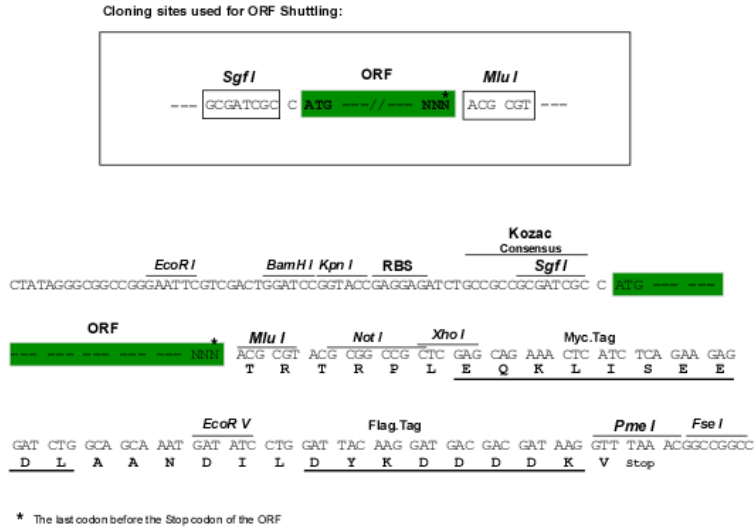
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6858_c01.zip

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.

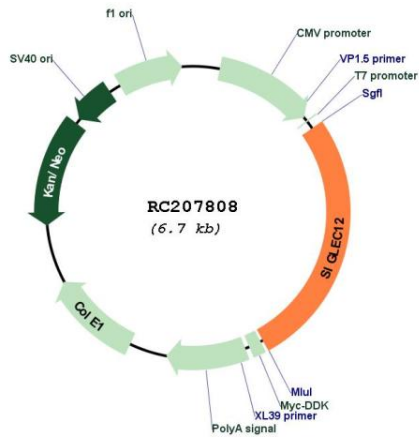
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

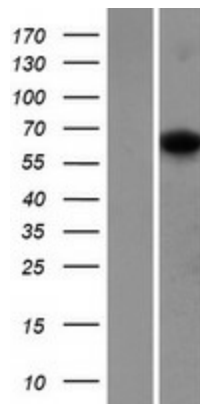
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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:	NM_053003.4
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:	<p>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]</p>

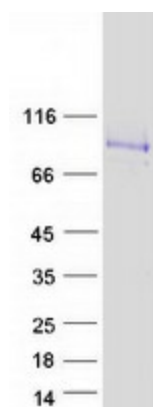
Product images:



Circular map for RC207808



Western blot validation of overexpression lysate (Cat# [LY409355]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207808 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SIGLEC12 protein (Cat# [TP307808]). The protein was produced from HEK293T cells transfected with SIGLEC12 cDNA clone (Cat# RC207808) using MegaTran 2.0 (Cat# [TT210002]).