

Product datasheet for **RC206610**

SIGLEC5 (NM_003830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIGLEC5 (NM_003830) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIGLEC5
Synonyms:	CD33L2; CD170; OB-BP2; OBBP2; SIGLEC-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206610 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCCTGTGCTGCTGCCCTGTGTTGGGGGGTCCCTGCAGGAGAAGCCAGTGTACGAGCTGC
 AAGTGCAGAAGTCGGTGACGGTGACAGGAGGCCTGTGCGTCCTTGTGCCCTGCTCCTTCTTACCCTG
 GAGATCCTGGTATTCTCTCCCCACTCTACGTCTACTGGTTCGGGACGGGGAGATCCCATACTACGCT
 GAGGTTGTGGCCACAAACAACCCAGACAGAAGAGTGAAGCCAGAGACCCAGGGCCGATTCCGCTCCTTG
 GGGATGTCAGAGAAGAAGACTGCTCCCTGAGCATCGGAGATGCCAGAATGGAGGACACGGGAAGCTATTT
 CTTCCGCTGGAGAGAGGAAGGGATGTAATAATAGCTACCAACAGAATAAGCTGAACCTGGAGGTGACA
 GCCCTGATAGAGAAACCCGACATCCACTTTCTGGAGCCTCTGGAGTCCGGCCGCCACAAAGGCTGAGCT
 GCAGCCTCCAGGATCCTGTGAAGCGGGACCACCTCTCACATTCTCTGGACGGGAATGCCCTCAGCCC
 CCTGGACCCCGAGACCACCGCTCCTCGGAGCTCACCTCACCCAGGCCCGAGGACCATGGCACCAAC
 CTACCTGTCAGATGAAACGCCAAGGAGCTCAGGTGACCACGGAGAGAAGTGTCCAGCTCAATGTCTCCT
 ATGCACCACAGACCATCACCATTTTCAGGAACGGCATAGCCCTAGAGATCCTGCAAAACACCTCATACT
 TCCGGTCTGGAGGGCCAGGCTCTGCGGCTGCTGTGTATGCTCCAGCAACCCCTGCACACCTGAGC
 TGGTTCAGGGCTCCCCTGCCCTGAACGCCACCCCATCTCCAATACCGGATCTTGAGCTTCGTGAG
 TAAGGTCTGCAGAAGAAGGAGGCTTACCTGCCGCTCAGCACCCGCTGGGCTTCTGCAAATTTTTCT
 GAATCTCTCAGTTTACTCCCTCCACAGTTGCTGGGCCCTCTGCTCCTGGGAGCTGAGGGTCTGCAC
 TGCAGATGCTCCTTCGAGCCCGCCGGCCCTCCCTGTGCTGGCGCTTGAGGAGAAGCCGCTGGAGG
 GGAACAGCAGCCAGGGCTCATTCAAGTCACTCCAGCTCAGCTGGGCCCTGGCCCAACAGCTCCCTGAT
 CCTCCACGGGGGCTCAGCTCCGACCTCAAAGTCAGCTGCAAGGCTGGAACATCTATGGGTCCCAGAGC
 GGCTCTGTCTGTGCTGCAAGGAGATCGAACCTTGGACAGGAGTGGTTCCTGCAGCCCTTGGTGGT
 CTGGTGTATGGCCCTGCTGTATCTGTCTGTGCCTCATCTTCTTTTAAAGTAAAGCCCGCAGGAA
 GCAAGCAGCTGGGAGACCAGAGAAAATGGATGATGAAGACCCATTATGGGTACCATCACCTCGGTTCC
 AGGAAGAAGCCCTGGCCAGACAGCGCCGAGATCAAGCATCTCCTCCTGGGGATGCCCTCCCTTGAAG
 AACAAAAGGAGCTCCATTATGCCTCCCTTAGTTTTTCTGAGATGAAGTCGAGGGAGCCTAAGGACCAGGA
 GGCCCAAGCACCACGGAGTACTCGGAGATCAAGACAAGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206610 protein sequence
 Red=Cloning site Green=Tags(s)

MLPLLLLPLLWGGSLQEKPVEYLQVQKSVTVQEGLCVLVPCSFSPWRSWYSSPLYVYVWFRDGEIPYYA
 EVVATNPNDRRVKPEQTQGRFRLLGDVQKKNCSLSIGDARMEDTGSYFFRVERGRDVKYSYQKNLNEVT
 ALIEKPDIFHLEPLESGRPTRLSCSLPGSCEAGPPLTFWSWGNALSPLDPETTRSSSELTLTPRPEDHGTN
 LTCQMKRGAQVTTERTVQLNVSYPQTITIFRNGIALEILQNTSYLPVLEGQALRLLCDAPSNPPAHL
 WFQGSALNATPISNTGILELRRVRSAAEAGFTCRAQHPLGFLQIFLNLVYSLPQLLGPSCSWEAEGH
 CRCSFRARPAPSLCWRLKPLEGNSSQGSFKVNSSAGPWANSSLIHGGSSDLKVSCKAWNIYGSQS
 GSVLLLQGRSNLGTGVVPAALGGAGVMALLCICLCLIFLIVKARRKQAAGRPEKMDDEDPIMGTITSGS
 RKKPWPDAGDQASPPGDAPPEEQKELHYASLSFSEMKSREPDKQEPSTTEYSEIKTSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6286_c06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_003830

ORF Size: 1653 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_003830.3](#)

RefSeq Size: 2523 bp

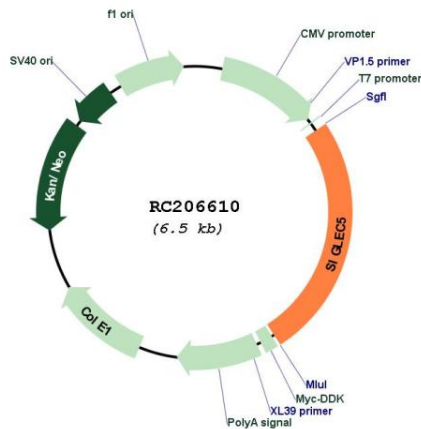
RefSeq ORF: 1656 bp

Locus ID: 8778

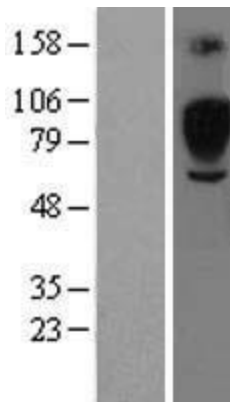
UniProt ID: [O15389](#)
Cytogenetics: 19q13.41
Domains: ig
Protein Families: Druggable Genome, Transmembrane
MW: 60.7 kDa

Gene Summary: This gene encodes a member of the sialic acid-binding immunoglobulin-like lectin (Siglec) family. These cell surface lectins are characterized by structural motifs in the immunoglobulin (Ig)-like domains and sialic acid recognition sites in the first Ig V set domain. The encoded protein is a member of the CD33-related subset of Siglecs and inhibits the activation of several cell types including monocytes, macrophages and neutrophils. Binding of group B Streptococcus (GBS) to the encoded protein plays a role in GBS immune evasion. [provided by RefSeq, Feb 2012]

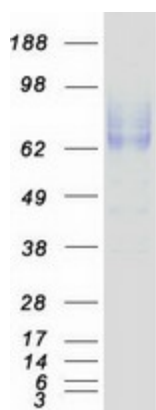
Product images:



Circular map for RC206610



Western blot validation of overexpression lysate (Cat# [LY418402]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206610 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SIGLEC5 protein (Cat# [TP306610]). The protein was produced from HEK293T cells transfected with SIGLEC5 cDNA clone (Cat# RC206610) using MegaTran 2.0 (Cat# [TT210002]).