

Product datasheet for **SC321803**

SIGLEC5 (NM_003830) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIGLEC5 (NM_003830) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIGLEC5
Synonyms:	CD33L2; CD170; OB-BP2; OBBP2; SIGLEC-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003830.1
 GCCGGACCTGGGACTGGGCTGGGGCCCTGGCGGATGGAGACATGCTGCCCTGCTGCTGC
 TGCCCCTGCTGTGGGGGGGTCCCTGCAGGAGAAGCCAGTGTACGAGCTGCAAGTGCAGA
 AGTCGGTGACGGTGCAGGAGGGCCTGTGCGTCTTGTGCCCTGCTCCTTCTTACCCT
 GGAGATCTGGTATTCTCTCCCCACTCTACGTCTACTGGTCCGGGACGGGGAGATCC
 CATACTACGTGAGTTGTGGCCAAAAACCCAGACAGAAGAGTGAAGCCAGAGACCC
 AGGGCCGATTCCGCCTCCTTGGGGATGTCCAGAAGAAGAACTGCTCCCTGAGCATCGGAG
 ATGCCAGAATGGAGGACACGGGAAGCTATTTCTCCGCTGGAGAGAGGAAGGGATGTAA
 AATATAGCTACCAACAGAATAAGCTGAACCTGGAGGTGACAGCCCTGATAGAGAAACCCG
 ACATCCACTTTCTGGAGCCTCTGGAGTCCGGCCGCCCAAGGCTGAGCTGCAGCCTTC
 CAGGATCTGTGAAGCGGGACCCTCTCACATTCTCTGGACGGGGAATGCCCTCAGCC
 CCCTGGACCCCGAGACCACCCGCTCCTCGGAGCTACCCTCACCCAGGCCCGAGGACC
 ATGGCACCAACCTCACCTGTCAGATGAAACGCCAAGGAGCTCAGGTGACCACGGAGAGAA
 CTGTCCAGCTCAATGTCTCTATGCACCACAGACCATCACCATCTTCAGGAACGGCATAG
 CCCTAGAGATCCTGCAAAACACCTCATACCTTCCGGTCTGGAGGGCCAGGCTCTGCGGC
 TGCTCTGTGATGCTCCCAGCAACCCCTGCACACCTGAGCTGGTTCAGGGCTCCCTG
 CCCTGAACGCCACCCCATCTCCAATACCGGGATCTTGGAGCTTCGTTCGAGTAAGGTCTG
 CAGAAGAAGGAGGCTTACCTGCCGCGCTCAGCACCCGCTGGGCTTCTGCAATTTTTTC
 TGAATCTCTCAGTTTACTCCCTCCCACAGTTGCTGGGCCCTCCTGCTCCTGGGAGGCTG
 AGGGTCTGCACTGCAGATGCTCCTTTCGAGCCCGCCGGCCCCCTCCTGTGCTGGCGGC
 TTGAGGAGAAGCCGCTGGAGGGGAACAGCAGCCAGGGCTCATTCAAGTCAACTCCAGCT
 CAGCTGGGCCCTGGGCCAACAGTCCCTGATCCTCCACGGGGGCTCAGCTCCGACCTCA
 AAGTCAGCTGCAAGGCCGGAACATCTATGGGTCCCAGAGCGGCTCTGTCCTGCTGCTGC
 AAGGGAGATCGAACCTTGGGACAGGAGTGGTTCCTGCAGCCCTTGGTGGTCTGGTGTCA
 TGCCCTGCTCTGTATCTGTCTGTGCTCATCTTCTTTTAAATAGTAAAAGCCCGCAGGA
 AGCAAGCAGCTGGGAGACCAGAGAAAAATGGATGATGAAGACCCATTATGGGTACCATCA
 CCTCGGGTTCCAGGAAGAAGCCCTGGCCAGACAGCGCCGAGATCAAGCATCTCCTCCTG
 GGGATGCCCTCCCTTGGAAGAACAAAAGGAGCTCCATTATGCCTCCCTTAGTTTTCTG
 AGATGAAGTCGAGGGAGCCTAAGGACCAGGAGGCCCAAGCACCACGGAGTACTCGGAGA
 TCAAGACAAGCAAGTGAAGATTTGCCAGAGTTCAGTCTGGCTGGAGGAGCCACAGCCT
 GTCTGGGGAAAAGACAAGTCAGGGACCACTTGTGAAGCACGAAGAGCCCTTGTGGCAA
 TGTTAACATTAAGTATGTTAAGTGTCCAAGCAGAGCAGAAAGAAAACAGATGATGGA
 ATTAGAGAGGTGGGCTCAATCTAGGCCCTGGCACTGTCATCAAGCAATCACTGCATCC
 CTCTGTGCCTCAGTTTCCATTCTGTAATCAGAGATCATGCATGCTACCTCAAAGGTTG
 TTGTGAACATTAAGAAATCAACACATGGAAATCAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_003830

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_003830.1](#), [NP_003821.1](#)

RefSeq Size: 2130 bp

RefSeq ORF: 1656 bp

Locus ID: 8778

UniProt ID: [O15389](#)

Cytogenetics: 19q13.41

Domains: ig

Protein Families: Druggable Genome, Transmembrane

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]