

Product datasheet for **RG206610**

SIGLEC5 (NM_003830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIGLEC5 (NM_003830) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SIGLEC5
Synonyms:	CD33L2; CD170; OB-BP2; OBBP2; SIGLEC-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206610 representing NM_003830
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCCCTGCTGCTGCTGCCCTGCTGTTGGGGGGTCCCTGCAGGAGAAGCCAGTGTACGAGCTGC
 AAGTGCAGAAGTCGGTGACGGTGACAGGAGGCCTGTGCGTCCTTTGCCCTGCTCCTTCTTACCCTG
 GAGATCCTGGTATTCTCTCCCCACTCTACGTCTACTGGTTCGGGACGGGAGATCCCATACTACGCT
 GAGGTTGTGGCCACAAACAACCCAGACAGAAGAGTGAAGCCAGAGACCCAGGGCCGATTCCGCTCCTTG
 GGGATGTCAGAGAAGAAGACTGCTCCCTGAGCATCGGAGATGCCAGAATGGAGGACACGGGAAGCTATTT
 CTTCCGCTGGAGAGAGGAAGGGATGTAATAATAGCTACCAACAGAATAAGCTGAACTTGAGGTGACA
 GCCCTGATAGAGAAACCCGACATCCACTTTCTGGAGCCTCTGGAGTCCGGCCGCCACAAAGGCTGAGCT
 GCAGCCTCCAGGATCCTGTGAAGCGGGACCACCTCTCACATTCTCTGGACGGGAATGCCCTCAGCCC
 CCTGGACCCCGAGACCACCGCTCCTCGGAGCTCACCTCACCCAGGCCCGAGGACCATGGCACCAAC
 CTCACCTGTCAGATGAAACGCCAAGGAGCTCAGGTGACCACGGAGAGAATGTCCAGCTCAATGTCTCCT
 ATGCACCACAGACCATCACCATTTTCAGGAACGGCATAGCCCTAGAGATCCTGCAAAACACCTCATACT
 TCCGGTCTGGAGGGCCAGGCTCTGCGGCTGCTGTGATGCTCCAGCAACCCCTGCACACCTGAGC
 TGGTTCAGGGCTCCCCTGCCCTGAACGCCACCCCATCTCCAATACCGGATCTTGAGCTTCGTCGAG
 TAAGGTCTGCAGAAGAAGGAGGCTTACCTGCCGCTCAGCACCCGCTGGGCTTCTGCAAAATTTTCT
 GAATCTCTCAGTTTACTCCCTCCACAGTTGCTGGGCCCTCTGCTCCTGGGAGCTGAGGGTCTGCAC
 TGCAGATGCTCCTTTGAGCCCGGCCGGCCCTCCCTGTGCTGGCGCTTGAGGAGAAGCCGCTGGAG
 GGAACAGCAGCCAGGGCTCATTCAAGTCACTCCAGCTCAGCTGGGCCCTGGCCCAACAGCTCCTGAT
 CCTCCACGGGGGCTCAGCTCCGACCTCAAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT
 GGCTCTGTCTGCTGCTGCAAGGAGATCGAACCTTGGACAGGAGTGGTTCCTGCAGCCCTTGGTGGT
 CTGGTGTGATGGCCCTGCTGTATCTGTCTGTGCCTCATCTTCTTTTAAATAGTAAAGCCCGCAGGAA
 GCAAGCAGCTGGGAGACCAGAGAAAATGGATGATGAAGACCCATTATGGGTACCATCACCTCGGTTCC
 AGGAAGAAGCCCTGGCCAGACAGCGCCGAGATCAAGCATCTCCTCCTGGGGATGCCCTCCCTTGAAG
 AACAAAAGGAGCTCCATTATGCCTCCCTTAGTTTTTCTGAGATGAAGTCGAGGGAGCCTAAGACCAGGA
 GGCCCAAGCACCACGGAGTACTCGGAGATCAAGACAAGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG206610 representing NM_003830
 Red=Cloning site Green=Tags(s)

MLPLLLLPLWGGSLQEKPVYELQVQKSVTVQEGLCVLPVCSFSYPWRSWYSSPPLYVYVWFRDGEIPYYA
 EVVATNPNDRVKPETQGRFRLLDVQKKNCSLSIGDARMEDTGSYFFRVERGRDVKYSYQQNKLNEVT
 ALIEKPDIFHLEPLESGRPTRLSCSLPGSCEAGPPLTFWTGNALSPLDPETTRSELTLTPRPEDHGTN
 LTCQMKRQGAQVTTERTVQLNVSYAPQTITIFRNGIALEILQNTSYLPVLEGQALRLLCDAPSNPPAHL
 WFQGPALNATPISNTGILELRRVRSAAEAGGFTCRAQHPLGFLQIFLNLVSYSLPQLLGPSCSWEAEGH
 CRCSFRARPAPSLCWRLEEKPLEGNSSQGSFKVNSSSAGPWANSSILHGGSSDLKVSCKAWNIYGSQS
 GSVLLLQGRSNLGTGVVPAALGGAGVMALLCICLCLIFLIVKARRKQAAGRPEKMDDEDPIMGITISGS
 RKKPWPDSAGDQASPPGDAPPLEEQKELHYASLSFSEMKSREPKDQEAPSTTEYSEIKTSK

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

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.

RefSeq: [NM_003830.1](#), [NP_003821.1](#)

RefSeq Size: 2130 bp

RefSeq ORF: 1656 bp

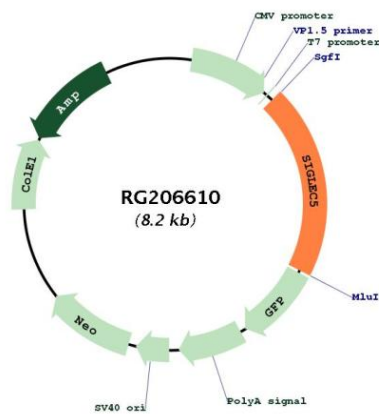
Locus ID: 8778

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]

Product images:



Circular map for RG206610