

## Product datasheet for **RG208582**

### **SIGLEC8 (NM\_014442) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SIGLEC8 (NM_014442) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SIGLEC8
Synonyms:	SAF2; SIGLEC-8; SIGLEC8L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG208582 representing NM\_014442  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCTGCTGCTGCTGCTGCTGCTGCCCTGCTCTGGGGACAAAGGGGATGGAGGGAGACAGACAATATG  
 GGGATGGTTACTTGTCTGCAAGTGCAGGAGCTGGTGACGGTGCAGGAGGGCCTGTGTGTCATGTGCCCTG  
 CTCTTCTCTACCCCAAGGATGGCTGGACTGACTCTGACCCAGTTCATGGCTACTGGTTCGGGCAGGA  
 GACAGACCATAACAAGACGCTCCAGTGGCCACAAACAACCAGACAGAGAAGTGCAGGCAGAGACCCAGG  
 GCCGATCCAACCTCTGGGGACATTTGGAGCAACGACTGCTCCCTGAGCATCAGAGAGCCAGGAAGAG  
 GGATAAGGGTTCATATTTCTTTCGGCTAGAGAGAGGAAGCATGAAATGGAGTTACAAATCACAGTTGAAT  
 TACAAAATAAGCAGCTGTCTGTGTTTGTGACAGCCCTGACCCATAGGCCTGACATCCTCATCTAGGGA  
 CCCTAGAGTCTGGCCACCCAGGAACCTGACCTGCTCTGTGCCCTGGGCCTGAAGCAGGGGACACCCCC  
 CATGATCTCCTGGATTGGGGCCTCGGTCTCCTCCCGGGCCCCACTACTGCCCGCTCCTCAGTGTCTACC  
 CTTACCCCAAAGCCCAGGACCACGGCACCCAGCCCTCACCTGTGAGGTGACCTTGCCCTGGGACAGGTGTA  
 CCACGACCACTACCGTCCGCCTCGATGTGTCTACCCCTCCTGGAACCTGACCATGACTGTCTTCCAAGG  
 AGATGCCACAGCATCCACAGCCCTGGGAAATGGCTCATCTCTTTCAGTCTTGAGGGCCAGTCTCTGCGC  
 CTGGTCTGTGCTGTCAACAGCAATCCCCCTGCCAGGCTGAGCTGGACCCGGGGGAGCCTGACCCTGTGCC  
 CCTCACGGTCTCAAACCTGGGCTGCTGGAGCTGCCTCGAGTGACGTGAGGGATGAAGGGGAATTCAC  
 CTGCCGAGCTCAGAACGCTCAGGGCTCCAGCACATTTCCCTGAGCCTCTCCTGCAGATGAGGGCACA  
 GGCACCTCAAGACCTGTATCACAAGTGAAGTGGTCTCAGCAGCAGTGGGGGAGCTGGAGCCACAGCCCTGGCCT  
 TCCTGTCTTCTGCATCATCTTTCATCATAGTGAGGTCTCGAGGAAGAAATCGGCAAGGCAGAGCGGG  
 CGTGGGGATACAGGCATGGAAGATGCAAAGGCCATCAGGGGCTCGGCCTCTCAGGGACCCCTGACTGAA  
 TCCTGAAAGATGGCAACCCCTGAAGAAGCCTCCCCAGCTGTTGCCCCCTCGTCAGGGGAGGAAGGAG  
 AGCTCCATTATGCAACCCCTCAGCTTCCATAAAGTGAAGCCTCAGGACCCGACGGGACAGGAGGCCACTGA  
 CAGTGAATACTCGGAGATCAAGATCCACAAGCGAGAACTGCAGAGACTCAGGCCTGTTTGAGGAATCAC  
 AACCCCTCCAGCAAAGAAGTCAGAGGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG208582 representing NM\_014442  
 Red=Cloning site Green=Tags(s)

MLLLLLLLLPLWGTGKMEGDRQYGDGYLLQVQELVTVQEGLCVHVPCSF SYPQDGWTDSDPVHGYWFRAG  
 DRPYQDAPVATNPNPDREVQAETQGRFQLLGDIWSNDCSL SIRDARKRDKGSYFFRLERGSMLKWSYKSQLN  
 YKTKQLSVFVTAL THRPDIL ILGTLES GHPRNLTCSVPWACKQGT PPMISWIGASVSSPGPTTARSSVLT  
 LTPKPDHGTSLTCQVTLPGTGVTTTSTVRLDVSYPPWNL TMTVFQGDASTALGNSSLSVLEGQSLR  
 LVCAVNSNPPARLSWTRGSLTLCPSSRNPGLLELPRVHVRDEGEFTCRAQNAQGSQHISLSLSLQNEGT  
 GTSRVSQVTLAAVGGAGATALAFLSFCII FIIIVRSCRKKSARPAAGVGDGTMEDAKAIRGSASQGPLETE  
 SWKDGNPLKPPPAVAPSSGEEGELHYATLSFHKVKPQDPQGQEATDSEYSEIKIHKRETAETQAACLRNH  
 NPSSKEVRG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_014442

**ORF Size:** 1497 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](mailto: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\\_014442.2](#), [NP\\_055257.2](#)

RefSeq Size: 2967 bp

RefSeq ORF: 1500 bp

Locus ID: 27181

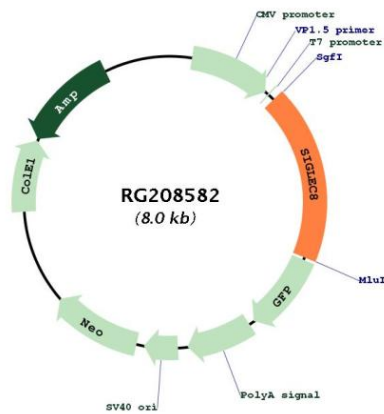
UniProt ID: [Q9NYZ4](#)

Cytogenetics: 19q13.41

Protein Families: Druggable Genome, Transmembrane

**Gene Summary:** Sialic acid-binding immunoglobulin (Ig)-like lectins, or SIGLECs (e.g., CD33 (MIM 159590)), are a family of type 1 transmembrane proteins each having a unique expression pattern, mostly in hemopoietic cells. SIGLEC8 is a member of the CD33-like subgroup of SIGLECs, which are localized to 19q13.3-q13.4 and have 2 conserved cytoplasmic tyrosine-based motifs: an immunoreceptor tyrosine-based inhibitory motif, or ITIM (see MIM 604964), and a motif homologous to one identified in signaling lymphocyte activation molecule (SLAM; MIM 603492) that mediates an association with SLAM-associated protein (SAP; MIM 300490) (summarized by Foussias et al., 2000 [PubMed 11095983]).[supplied by OMIM, May 2010]

**Product images:**



Circular map for RG208582