

## Product datasheet for **RG230331**

### **SIGLEC10 (NM\_001171157) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SIGLEC10 (NM_001171157) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SIGLEC10
Synonyms:	PRO940; SIGLEC-10; SLG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230331 representing NM\_001171157  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTACTGCCACTGCTGCTGCTCGCTGCTGGCGGGTCCCAGGCTATGGATGGGAGATTCTGGATAC  
 GAGTGCAGGAGTCAGTGATGGTGCCGGAGGGCCTGTGCATCTCTGTGCCCTGCTCTTTCTCTACCCCCG  
 ACAAGACTGGACAGGGTCTACCCAGCTTATGGCTACTGGTCAAAGCAGTGACTGAGACAACCAAGGGT  
 GCTCCTGTGGCCACAACCACCAGAGTCGAGAGGTGAAATGAGCACCCGGGGCCGATTCCAGCTCACTG  
 GGGATCCCGCCAAGGGAACTGCTCCTTGGTGATCAGAGACGCGCAGATGCAGGATGAGTCACAGTACTT  
 CTTTCGGGTGGAGAGAGGAAGCTATGTGAGATAAATTCATGAACGATGGGTTCTTTCTAAAAGTAACA  
 GCCCTGACTCAGAAGCCTGATGTCTACATCCCCGAGACCCTGGAGCCCGGCAGCCGGTGACGGTCACT  
 GTGTGTTAACTGGGCCCTTGGGAATGTCCACCCCTCTTTCTCCTGGACGGGGCTGCCCTCTCCTC  
 CCAAGGAACCAACACGACCTCCACTTCTCAGTGCTCAGCTTACGCCCAGACCCAGGACCACAAC  
 ACCGACCTCACCTGCCATGTGGACTTCTCCAGAAAGGGTGTGAGCGCACAGAGGACCGTCCGACTCCGTG  
 TGGCCTATGCCCCAGAGACCTTGTATCAGCATTTCACGTGACAACACGCCAGCCCTGGAGCCCCAGCC  
 CCAGGGAAATGTCCCATACCTGGAAGCCAAAAAGGCCAGTTCCTGCGGGTCTCTGTGCTGCTGACAGC  
 CAGCCCCCTGCCACTGAGCTGGTCTGCAGAACAGAGTCTCTCCTCGTCCCATCCCTGGGGCCCTA  
 GACCCCTGGGGCTGGAGCTGCCCGGGTGAAGGCTGGGGATTACGGGCGTACACCTGCCGAGCGGAGAA  
 CAGGCTTGGTCCCAGCAGCGAGCCCTGGACCTCTGTGCAGTATCCTCCAGAGAACCTGAGAGTGATG  
 GTTTCCCAAGCAAACAGGACAGTCTGGAAAACCTTGGAAACGGCACGTCTCTCCAGTACTGGAGGGCC  
 AAAGCCTGTGCCCTGGTCTGTGTACACACAGCAGCCCCAGCCAGGCTGAGCTGGACCCAGGGGACA  
 GGTTCTGAGCCCTCCCAGCCCTCAGACCCCGGGTCTGGAGCTGCCTCGGGTTCAAGTGGAGCACGAA  
 GGAGAGTTCACCTGCCACGCTCGGCACCCACTGGGCTCCCAGCACGTCTCTCAGCCTCTCCGTGCACT  
 ATAAGAAGGGACTCATCTCAACGGCATTCTCAACGGAGCGTTTCTGGAATCGGCATCACGGCTCTTCT  
 TTTCTCTGCCTGGCCCTGATCATCATGAAGATTCTACCGAAGAGACGGACTCAGACAGAAAACCCGAGG  
 CCCAGGTTCTCCCGGCACAGCACGATCCTGGATTACATCAATGTGGTCCCAGCGGCTGGCCCCCTGGCTC  
 AGAAGCGGAATCAGAAAGCCACACCAACAGTCTCGGACCCCTTCCACCAGGTGCTCCCTCCCAGA  
 ATCAAAGAAGAACCAGAAAAAGCAGTATCAGTTGCCAGTTTCCAGAACCCAAATCATCCACTCAAGCC  
 CCAGAATCCCAGGAGAGCAAGAGGAGCTCCATTATGCCAGCTCAACTCCCAGGCGTCAGACCCAGGC  
 CTGAGGCCGGATGCCAAAGGGCACCCAGGCGGATTATGCAGAAGTCAAGTTCCAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG230331 representing NM\_001171157  
 Red=Cloning site Green=Tags(s)

MLLPLLLSSLLGGSQAMDGRFWIRVQESVMVPEGLCISVPCSFSYPRQDWTGSTPAYGYWFKAVTETTKG  
 APVATNHQSREVMSTRGRFQLTGDPKGNCSLVIRDAQMQDESQYFFRVERGSYVRYNFMNDGFFLKVT  
 ALTQKPDVYIPETLEPGQPVTVICVFNWAFEECPSPFSWTGAALSSQGTKPTTSHFSVLSFTPRPQDHN  
 TDLTCHVDFSRKGVSAQRTVRLRVAYAPRDLVISIRDNTPALEPQPQGNVPYLEAQKGQFLRLLCAADS  
 QPPATLSWVLQNRVLSSSHWPGRPLGLELPGVKAGDSGRYTCRAENRLGSQQRALDLSVQYPPENLRVM  
 VSQANRTVLENLNGTSLPVLEGQSLCLVCVTHSSPPARLSWTQRGOVLSQSPSDPGVLELPRVQVEHE  
 GEFTCHARHPLGSQHVSLSLSVHYKKGLISTAFSNGAFLGITALLFLCLALIIMKILPKRRTQTETPR  
 PRFSRHSTILDYINVVPTAGPLAQKRNQKATPNSPRTPLPPGAPSPESKKNQKKQYQLPSFPEPKSSTQA  
 PESQESQEELHYATLNFPGVRRPEARMPKGTQADYAEVKFQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001171157

**ORF Size:** 1806 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\\_001171157.1](#), [NP\\_001164628.1](#)

**RefSeq Size:** 3115 bp

**RefSeq ORF:** 1809 bp

**Locus ID:** 89790

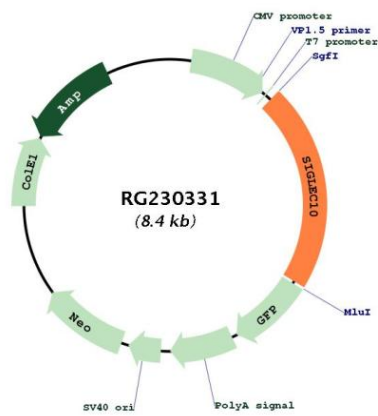
**UniProt ID:** [Q96LC7](#)

**Cytogenetics:** 19q13.41

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** SIGLECs are members of the immunoglobulin superfamily that are expressed on the cell surface. Most SIGLECs have 1 or more cytoplasmic immune receptor tyrosine-based inhibitory motifs, or ITIMs. SIGLECs are typically expressed on cells of the innate immune system, with the exception of the B-cell expressed SIGLEC6 (MIM 604405).[supplied by OMIM, Jul 2002]

**Product images:**



Circular map for RG230331