

Product datasheet for **RG206995**

Siglec 7 (SIGLEC7) (NM_014385) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Siglec 7 (SIGLEC7) (NM_014385) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Siglec 7
Synonyms:	AIRM-1; AIRM1; CD328; CDw328; D-siglec; p75; p75/AIRM1; QA79; SIGLEC-7; SIGLEC19P; SIGLECP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206995 representing NM_014385
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTGCTGCTGCTGCTGCCCTGCTCTGGGGAGGGAGAGGGTGGAAAGACAGAAGAGTAACCGGA
 AGGATTACTCGCTGACGATGCAGAGTTCCTGTACCGTGCAAGAGGCATGTGTGCCATGTGCGCTGCTC
 CTTCTCCTACCCAGTGGACAGCCAGACTGACTCTGACCCAGTTCATGGCTACTGGTTCGGGCGAGGGAAT
 GATATAAGCTGGAAGGCTCCAGTGGCCACAAACAACCCAGCTTGGGCAGTGCAGGAGGAACTCGGGACC
 GATTCCACCTCCTGGGGACCCACAGACCAAAAATGCACCCTGAGCATCAGAGATGCCAGAATGAGTGA
 TGGGGGAGATACTTCTTTCGTATGGAGAAAGGAAATATAAAATGGAATTATAAATGACCAGCTCTCT
 GTGAACGTGACAGCCTTGACCCACAGGCCAACATCCTTATCCCCGGTACCCTGGAGTCTGGCTGCTTCC
 AGAATCTGACCTGCTCTGTGCCCTGGGCTGTGAGCAGGGGACGCCCCATGATCTCCTGGATGGGGAC
 CTCTGTGTCCCCCTGCACCCCTCCACCACCCGCTCCTCAGTGTCCACCTCATCCACAGCCCCAGCAC
 CACGGCACAGCCTCACCTGTGAGTGTGACTTGCCTGGGGCCGGCGTGACCACGAACAGGACCATCCAAC
 TCAATGTGTCCTACCCTCCTCAGAACTTGACTGTGACTGTCTTCAAGGAGAAGGCACAGCATCCACAGC
 TCTGGGAAACAGCTCATCTTTTCAGTCTAGAGGGCCAGTCTCTGCGCTTGGTCTGTGCTGTTGACAGC
 AATCCCCCTGCCAGGCTGAGCTGGACCTGGAGGAGTGTGACCCTGTACCCTCACAGCCCTCAAACCTC
 TGGTACTGGAGCTGCAAGTGCACCTGGGGGATGAAGGGGAATTCACCTGTGAGCTCAGAAGTCTCTGGG
 TCCCAGCACGTTTCCCTGAACCTCTCCCTGCAACAGGAGTACACAGGCAAAATGAGGCCTGTATCAGGA
 GTGTTGCTGGGGCGGTGGGGGAGCTGGAGCCACAGCCCTGGTCTTCTCTCTCTGTGTGTCATCTTCA
 TTGTAGTGAGTCTGCAGGAAGAAATCGGCAAGGCCAGCAGCGGACGTGGGAGACATAGGCATGAAGGA
 TGCAAACACCATCAGGGGCTCAGCCTCAGGGTAACTGACTGAGTCTGGGAGATGATAACCCCGA
 CACCATGGCTGCTGCCACTCCTCAGGGAGGAAAGAGAGATCCAGTATGCACCCCTCAGCTTTCATA
 AGGGGAGCCTCAGGACCTATCAGGTCAAGAAGCCACCAACAATGAGTACTCAGAGATCAAGATCCCCAA
 G

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206995 representing NM_014385
 Red=Cloning site Green=Tags(s)

MLLLLLLPLLWGRERVEGQKSNRKDYSLTMQSSVTVQEGMCVHVRCSFSYPVDSQTDSDPVHGYWFRAGN
 DISWKAPVATNPPAWAVQEETRDRFHLLGDPQTKNCTLSIRDARMSDAGRYFFRMEKGNIKWNYKYDQLS
 VNVLTALTHRPNILIPGTLESGCFQNLTCSPWACEQGTTPPMISWMGTSVSPLHPSTTRSSVLTLLIPQPQ
 HGTSLTCQVTLPGAGVTTNRTIQLNVSYPPQNLTVTVFQGEGTASTALGNSSSLSVLEGQSLRLVCAVDS
 NPPARLSWTWRSLLYPSQPSNPLVLELQVHLGDEGEFTCRAQNSLGSQHVSLNLSLQQEYTGKMRPVSG
 VLLGAVGGAGATALVFLSFCVIFIVVRSRKKKSARPAADVGDIGMKDANTIRGSASQGNL TESWADDNPR
 HHGLAAHSSGEEREIQYAPLSFHKGEPQDL SGQEATNNEYSEIKIPK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_014385

ORF Size: 1401 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_014385.2](#), [NP_055200.1](#)

RefSeq Size: 1754 bp

RefSeq ORF: 1404 bp

Locus ID: 27036

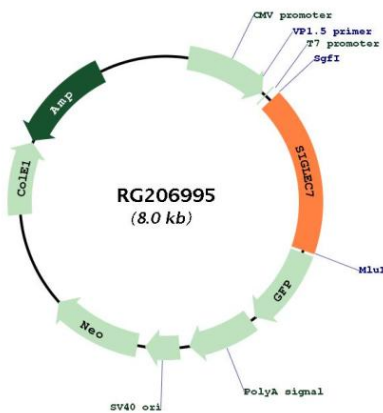
UniProt ID: [Q9Y286](#)

Cytogenetics: 19q13.41

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Gene Summary: Putative adhesion molecule that mediates sialic-acid dependent binding to cells. Preferentially binds to alpha-2,3- and alpha-2,6-linked sialic acid. Also binds disialogangliosides (disialogalactosyl globoside, disialyl lactotetraosylceramide and disialyl GalNAc lactotetraosylceramide). The sialic acid recognition site may be masked by cis interactions with sialic acids on the same cell surface. In the immune response, may act as an inhibitory receptor upon ligand induced tyrosine phosphorylation by recruiting cytoplasmic phosphatase(s) via their SH2 domain(s) that block signal transduction through dephosphorylation of signaling molecules. Mediates inhibition of natural killer cells cytotoxicity. May play a role in hemopoiesis. Inhibits differentiation of CD34+ cell precursors towards myelomonocytic cell lineage and proliferation of leukemic myeloid cells (in vitro). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG206995