

Product datasheet for **RG213691**

Siglec 7 (SIGLEC7) (NM_016543) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Siglec 7 (SIGLEC7) (NM_016543) 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)
ORF Nucleotide Sequence:	>RG213691 representing NM_016543 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCTGCTGCTGCTGCTGCCCTGCTCTGGGGAGGGAGAGGGTGAAGGACAGAAGAGTAACCGGA
AGGATTACTCGTGACGATGCAGAGTTCCTGTGACCGTGCAAGAGGGCATGTGTGCCATGTGCGCTGCTC
TTCTCTACCCAGTGGACAGCCAGACTGACTCTGACCCAGTTCATGGCTACTGGTTCGGGGCAGGGAAT
GATATAAGCTGGAAGGCTCCAGTGGCCACAAACAACCCAGCTTGGGCAGTGCAGGAGGAACTCGGGACC
GATTCCACCTCCTTGGGGACCCACAGACCAAAAATTCACCCTGAGCATCAGAGATGCCAGAATGAGTGA
TGGGGGAGATACTTCTTCGTATGGAGAAAGGAAATATAAAATGGAATTATAAATATGACCAGCTCTCT
GTGAACGTGACAGACCCTCCTCAGAACTGACTGTGACTGTCTTCCAAGGAGAAGGCACAGCATCCACAG
CTCTGGGGAACAGCTCATCTCTTTCAGTCTAGAGGGCCAGTCTCTGCGCTTGGTCTGTGCTGTTGACAG
CAATCCCCTGCCAGGCTGAGCTGGACCTGGAGGAGTCTGACCCTGTACCCCTCACAGCCCTCAAACCT
CTGGTACTGGAGCTGCAAGTGCACCTGGGGGATGAAGGGGAATTCACCTGTGAGCTCAGAACTCTCTGG
GTTCCACGACGTTTCCCTGAACCTCTCCCTGCAACAGGAGTACACAGGCAAAAATGAGGCCTGTATCAGG
AGTGTGCTGGGGCGGTGCGGGGAGCTGGAGCCACAGCCCTGGTCTTCTCTCCTTCTGTGTATCTTC
ATTGTAGTGAGTCTGCAGGAAGAAATCGCAAGGCCAGCAGCGGACGTGGGAGACATAGGCATGAAGG
ATGCAAACACCATCAGGGGCTCAGCCTCTCAGGGTAACCTGACTGAGTCTGGGCAGATGATAACCCCGG
ACACCATGGCCTGGCTGCCACTCCTCAGGGGAGGAAAGAGAGATCCAGTATGCACCCCTCAGCTTTCAT
AAGGGGGAGCCTCAGGACCTATCAGGACAAGAAGCCACCAACAATGAGTACTCAGAGATCAAGATCCCCA
AG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213691 representing NM_016543
Red=Cloning site Green=Tags(s)

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MLLLLLLPLLWGRERVEGQKSNRKDYSLTMQSSVTVQEGMCVHVRCFSYPVDSQTDSDPVHGYWFRAGN
DISWKAPVATNNPAWAVQEETDRDRFHLLGDPQTKNCTLSIRDARMSDAGRYFFRMEKGNIKWNYKYDQLS
VNVTDPPQNLTVTVFQEGGTASTALGNSSSLVLEGGQSLRLVCAVDSNPPARLSWTWRSLTLYPSQPSNP
LVLELQVHLGDEGEFTCRAQNSLGSQHVSLNLSLQQEYTGKMRPVSGVLLGAVGGAGATALVFLSFCVIF
IVVRSRKKKSARPAADVGDIGMKDANTIRGSASQGNLTESWADDNPRHHGLAAHSSGEEREIQYAPLSFH
KGEPQDLSGQEATNNEYSEIKIPK
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016543

ORF Size: 1122 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_016543.3](#), [NP_057627.2](#)

RefSeq Size: 1475 bp

RefSeq ORF: 1125 bp

Locus ID: 27036

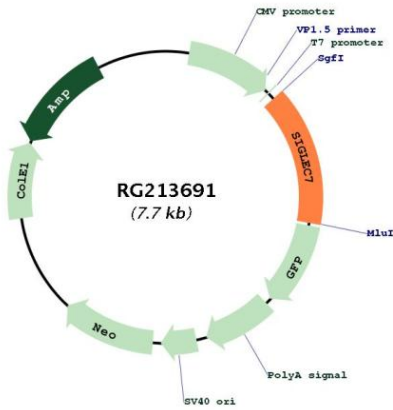
UniProt ID: [Q9Y286](#)

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 RG213691