

Product datasheet for **RC213691**

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:	Myc-DDK
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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC213691 representing NM_016543
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCTGCTGCTGCTGCTGCCCTGCTCTGGGGAGGGAGAGGGTGGAAAGACAGAAGAGTAACCGGA
 AGGATTACTCGCTGACGATGCAGAGTCCGTGACCGTGCAAGAGGCATGTGTGCCATGTGCGCTGCTC
 CTTCTCCTACCCAGTGGACAGCCAGACTGACTCTGACCCAGTTCATGGCTACTGGTTCGGGCAGGGAAT
 GATATAAGCTGGAAGGCTCCAGTGGCCACAAACAACCCAGCTTGGGCAGTGCAGGAGAACTCGGGACC
 GATTCCACCTCCTGGGGACCCACAGACAAAAATTGCACCCTGAGCATCAGAGATGCCAGAATGAGTGA
 TGGGGGAGATACTTCTTTCGTATGGAGAAAGAAATATAAAATGGAATTATAAATGACCAGCTCTCT
 GTGAACGTGACAGACCCTCCTCAGAACTGACTGTGACTGTCTTCCAAGGAGAAGGCACAGCATCCACAG
 CTCTGGGGAACAGCTCATCTCTTTCAGTCTAGAGGGCCAGTCTCTGCGCTTGGTCTGTGCTGTTGACAG
 CAATCCCCTGCCAGGCTGAGCTGGACCTGGAGGAGTCTGACCCTGTACCCTCACAGCCCTCAAACCT
 CTGGTACTGGAGCTGCAAGTGCACCTGGGGATGAAGGGGAATCACCTGTGCGACTCAGAACTCTCTGG
 GTTCCCAGCACGTTTCCCTGAACCTCTCCCTGCAACAGGAGTACACAGGCAAAATGAGGCCTGTATCAGG
 AGTGTGCTGGGGCGGTGCGGGGAGCTGGAGCCACAGCCCTGGTCTTCTCCTTCTGTGTCATCTTC
 ATTGTAGTGAGGTCTGCAGGAAGAAATCGGCAAGGCCAGCAGCGGACGTGGGAGACATAGGCATGAAGG
 ATGCAAACACCATCAGGGGCTCAGCCTCTCAGGGTAACCTGACTGAGTCTGGGCAGATGATAACCCCGG
 ACACCATGGCCTGGCTGCCACTCCTCAGGGGAGGAAAGAGAGATCCAGTATGCACCCCTCAGCTTTCAT
 AAGGGGAGCCTCAGGACCTATCAGGTCAAGAAGCCACCAACAATGAGTACTCAGAGATCAAGATCCCCA
 AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC213691 representing NM_016543
 Red=Cloning site Green=Tags(s)

MLLLLLLPLLWGRERVEGQKSNRKDYSLTMQSSVTVQEGMCVHVRCFSFYPVDSQTDSDPVHGYWFRAGN
 DISWKAPVATNPPAWAVQEETRDRFHLLGDPQTKNCTLSIRDARMSDAGRYFFRMEKGNIKWNYKYDQLS
 VNVTDPPQNLTVTVFQEGTASTALGNSSSLVLEGQSLRLVCAVDSNPPARLSWTWRSLTYPSQPSNP
 LVLELQVHLGDEGEFTCRAQNSLGSQHVSLNLSLQQEYTGKMRPVSGVLLGAVGGAGATALVFLSFCVIF
 IVVRSRKKKSARPAADVGDIGMKDANTIRGSASQGNL TESWADDNPRHHGLAAHSSGEEREIQYAPLSFH
 KGEPQDLSGQEATNNEYSEIKIPK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6503_c04.zip

Restriction Sites:

Sgfl-Mlul

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](#)

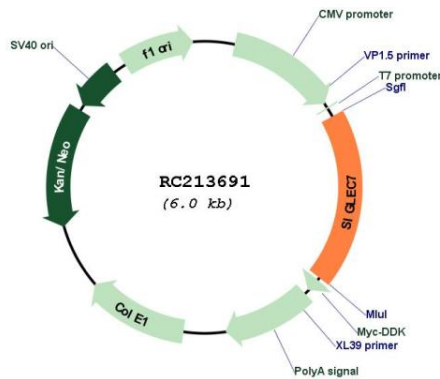
Cytogenetics: 19q13.41

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

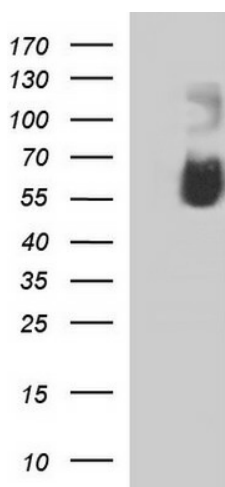
MW: 41.1 kDa

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]

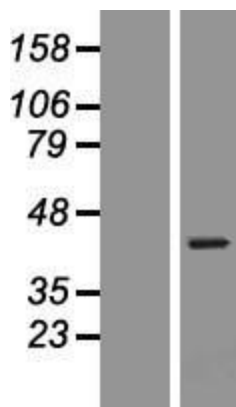
Product images:



Circular map for RC213691



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SIGLEC7 (Cat# RC213691, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SIGLEC7 (Cat# [TA507377]). Positive lysates [LY413916] (100ug) and [LC413916] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY413916]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213691 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).