

Product datasheet for **RC236032**

Siglec 7 (SIGLEC7) (NM_001277201) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Siglec 7 (SIGLEC7) (NM_001277201) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIGLEC7
Synonyms:	AIRM-1; AIRM1; CD328; CDw328; D-siglec; p75; p75/AIRM1; QA79; SIGLEC-7; SIGLEC19P; SIGLECP2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC236032 representing NM_001277201 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCTGCTGCTGCTGCTGCCCTGCTCTGGGGAGGGAGAGGGTGAAGGACAGAAGAGTAACCGGA
AGGATTACTCGTGACGATGCAGAGTCCCGTGACCGTGAAGAGGGCATGTGTGCCATGTGCGCTGCTC
CTTCTCCTACCCAGTGGACAGCCAGACTGACTCTGACCCAGTTTCATGGCTACTGGTTCGGGCAGGGAA
GATATAAGCTGGAAGGCTCCAGTGGCCACAACAACCCAGCTTGGGCAGTGCAGGAGGAACTCGGGACC
GATTCCACCTCCTTGGGGACCCACAGACCAAAAATTGCACCTGAGCATCAGAGATGCCAGAATGAGTGA
TGCGGGGAGATACTTCTTCGTATGGAGAAAGGAAATATAAAATGGAATTATAAATATGACCAGCTCTCT
GTGAACGTGACAGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC236032 representing NM_001277201 Red=Cloning site Green=Tags(s)
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MLLLLLLPLLWGRERVEGQKSNRKDYSLTMQSSVTVQEGMCMVHVRCSFSYPVDSQTDSDPVHGYWFRAGN
DISWKAPVATNPAWAVQEETDRFHLGDPQTKNCTLSIRDARMSDAGRYFFRMEKGNIKWNYKYDQLS
VNVTG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	Sgfl-MluI
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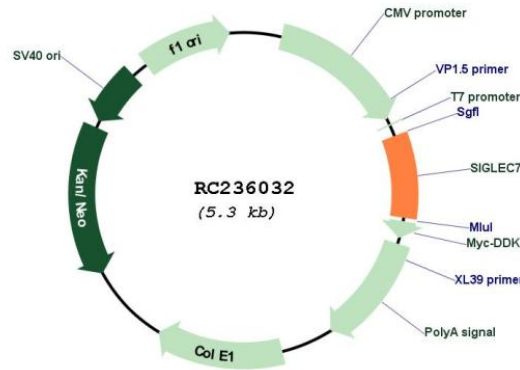


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001277201

ORF Size: 435 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:	<ol style="list-style-type: none">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:	<u>NM_001277201.1, NP_001264130.1</u>
RefSeq Size:	981 bp
RefSeq ORF:	438 bp
Locus ID:	27036
UniProt ID:	<u>Q9Y286</u>
Cytogenetics:	19q13.41
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
MW:	17.2 kDa
Gene Summary:	<p>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]</p>