

## Product datasheet for **SC317599**

### Siglec 7 (SIGLEC7) (NM\_016543) Human Untagged Clone

#### Product data:

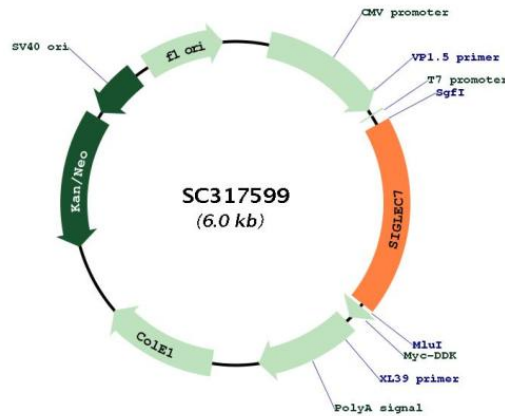
Product Type:	Expression Plasmids
Product Name:	Siglec 7 (SIGLEC7) (NM_016543) Human Untagged Clone
Tag:	Tag Free
Symbol:	SIGLEC7
Synonyms:	AIRM-1; AIRM1; CD328; CDw328; D-siglec; p75; p75/AIRM1; QA79; SIGLEC-7; SIGLEC19P; SIGLECP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317599 representing NM_016543. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCTGCTGCTGCTGCTGCCCTGCTCTGGGGGAGGGAGAGGGTGGGAAGGACAGAAGAGTAACCGG
AAGGATTACTCGCTGACGATGCAGAGTTCGGTACCGTGCAAGAGGGCATGTGTGTCATGTGCGCTGC
TCCTTCTCCTACCCAGTGGACAGCCAGACTGACTCTGACCCAGTTCATGGCTACTGGTTCGGGCGAGGG
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GACCGATTCCACCTCCTTGGGGACCCACAGACCAAAAATTGCACCCTGAGCATCAGAGATGCCAGAATG
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CTCTCTGTGAACGTGACAGACCCCTCCTCAGAACTTGACTGTGACTGTCTTCCAAGGAGAAGGCACAGCA
TCCACAGCTCTGGGGAACAGCTCATCTCTTTCAGTCTAGAGGGCCAGTCTCTGCGCTTGGTCTGTGCT
GTTGACAGCAATCCCCCTGCCAGGCTGAGCTGGACCTGGAGGAGTCTGACCTGTACCCCTCACAGCCC
TCAAACCTCTGGTACTGGAGCTGCAAGTGCACCTGGGGGATGAAGGGGAATTCACCTGTGAGCTCAG
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CCTGTATCAGGAGTGTGCTGGGGGCGGTGGGGGAGCTGGAGCCACAGCCCTGGTCTTCTCTCCTTC
TGTGTCATCTTATTGTAGTGAGTCTGCAGGAAGAAATCGGCAAGGCCAGCAGCGGACGTGGGAGAC
ATAGGCATGAAGGATGCAACACCATCAGGGGCTCAGCCTCTCAGGGTAACTGACTGAGTCTGGGCA
GATGATAACCCCCGACACCATGGCCTGGCTGCCACTCCTCAGGGGAGGAAAGAGAGATCCAGTATGCA
CCCCTCAGCTTTCATAAGGGGGAGCCTCAGGACCTATCAGGACAAGAAGCCACCAACAATGAGTACTCA
GAGATCAAGATCCCCAAGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_016543

**Insert Size:** 1125 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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](#)

**RefSeq Size:** 1490 bp

**RefSeq ORF:** 1125 bp

**Locus ID:** 27036

**UniProt ID:** [Q9Y286](#)

**Cytogenetics:** 19q13.41

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<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
<b>MW:</b>	41.2 kDa
<b>Gene Summary:</b>	<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> <p>Transcript Variant: This variant (2) lacks an in-frame coding exon, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to isoform 1.</p>