

Product datasheet for **MG222509**

Siglec1 (NM_011426) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Siglec1 (NM_011426) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Siglec1
Synonyms:	Cd169; Siglec-1; Sn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222509 representing NM_011426 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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 GCCACTAAGAAAAATACTATCCAGGAGGAAGTGGTTGCTGCTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222509 representing NM_011426
 Red=Cloning site Green=Tags(s)

MCVLFSLLLLASFVSLGQTTWGVSSPKNVQGLSGSCLLIPCIFSYPADVPVSNGITAIWYYDYSGKRQVV
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 DHGRTLLCQFSLGAHSSRKEVYLQVPHAPKGV EILLSSSRNILPGDPVTLTCRVNSSYPVAVSAVWARD
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 KEAPQELRYSWYKNHILLEDAHASTLHLPAVTRADTGFYFCEVQNAQGSERSSPLSVVVRYPPLTPDLTT
 FLETQAGLVGILHCSVSEPLATVVL SHGGLTLASNSGENDFNPRFRISSAPNSLRLEIRDLQPADSGEY
 TCLAVNSLGNSTSSLDYANVARLLINPSAEVVEGQAVTLSCRSLSPADTRFSWYLN GALLLEGSSSS
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 ARNALRLQVQDVTLDGNTYVCTAQNTLGSISTTQRLLTETDIRVTAEPGLDVPEGTALNLSCLLPGGSG
 PTGNSSF TWFWRHRLHSAPVPTLSFTPVVRAQAGLYHCRADLPTGATTSAPVMLRVLYPPKTPTLIVFV
 EPQGGHQGILDCRV DSEPLAILTLHRGSQLVASNQLHDAPTKPHIRVTAPPNALRVDI EELGPSNQGEYV
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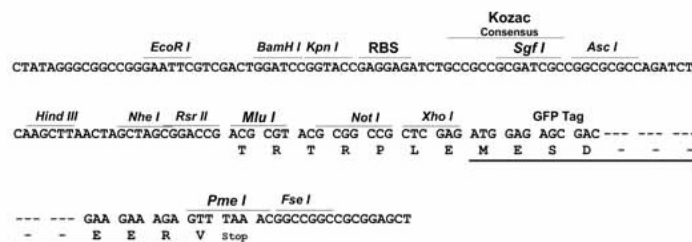
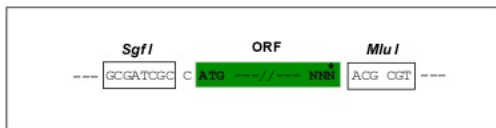
TRTRPLE - GFP Tag - V

Restriction Sites:

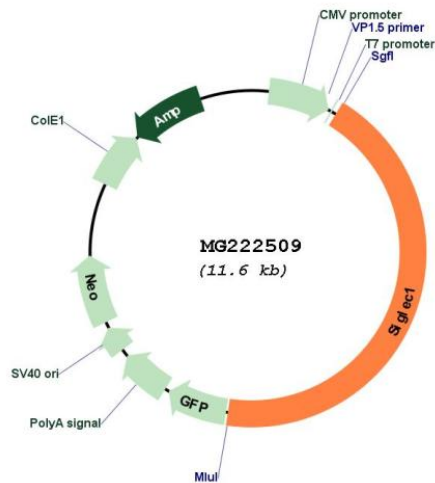
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011426

ORF Size: 5103 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_011426.2</u>
RefSeq Size:	6427 bp
RefSeq ORF:	5106 bp
Locus ID:	20612
UniProt ID:	<u>Q62230</u>
Cytogenetics:	2 63.26 cM
Gene Summary:	Acts as an endocytic receptor mediating clathrin dependent endocytosis. Macrophage-restricted adhesion molecule that mediates sialic-acid dependent binding to lymphocytes, including granulocytes, monocytes, natural killer cells, B-cells and CD8 T-cells (By similarity). Preferentially binds to alpha-2,3-linked sialic acid. Binds to SPN/CD43 on T-cells. May play a role in hematopoiesis. May act as a counter-receptor for CLEC10A in lymph node. [UniProtKB/Swiss-Prot Function]