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Product datasheet for RC208582

SIGLEC8 (NM_014442) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIGLEC8 (NM_014442) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIGLEC8
Synonyms:	SAF2; SIGLEC-8; SIGLEC8L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208582 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCTGCTGCTGCTGCTGCCCCTGCTCTGGGGGACAAAGGGGATGGAGGGAGACAGACAATATG
GGGATGGTTACTTGCTGCAAGTGCAGGAGCTGGTGACGGTGCAGGAGGGCCTGTGTGTCCATGTGCCCTG
CTCCTTCTCCTACCCCCAGGATGGCTGGACTGACTCTGACCCAGTTCATGGCTACTGGTTCCGGGCAGGA
GACAGACCATACCAAGACGCTCCAGTGGCCACAAACAACCCAGACAGAGAAGTGCAGGCAGAGACCCAGG
GCCGATTCCAACTCCTTGGGGACATTTGGAGCAACGACTGCTCCCTGAGCATCAGAGACGCCAGGAAGAG
GGATAAGGGGTCATATTTCTTTCGGCTAGAGAGAGGAAGCATGAAATGGAGTTACAAATCACAGTTGAAT
TACAAAACTAAGCAGCTGTCTGTGTTTGTGACAGCCCTGACCCATAGGCCTGACATCCTCATCCTAGGGA
CCCTAGAGTCTGGCCACCCCAGGAACCTGACCTGCTCTGTGCCCTGGGCCTGTAAGCAGGGGACACCCCC
CATGATCTCCTGGATTGGGGCCTCCGTGTCCTCCCCGGGCCCCACTACTGCCCGCTCCTCAGTGCTCACC
CTTACCCCAAAGCCCCAGGACCACGGCACCAGCCTCACCTGTCAGGTGACCTTGCCTGGGACAGGTGTGA
CCACGACCAGTACCGTCCGCCTCGATGTGTCCTACCCTCCTTGGAACTTGACCATGACTGTCTTCCAAGG
AGATGCCACAGCATCCACAGCCCTGGGAAATGGCTCATCTCTTTCAGTCCTTGAGGGCCAGTCTCTGCGC
CTGGTCTGTGCTGTCAACAGCAATCCCCCTGCCAGGCTGAGCTGGACCCGGGGGAGCCTGACCCTGTGCC
CCTCACGGTCCTCAAACCCTGGGCTGCTGGAGCTGCCTCGAGTGCACGTGAGGGATGAAGGGGAATTCAC
CTGCCGAGCTCAGAACGCTCAGGGCTCCCAGCACATTTCCCTGAGCCTCTCCCTGCAGAATGAGGGCACA
GGCACCTCAAGACCTGTATCACAAGTGACACTGGCAGCAGTCGGGGGAGCTGGAGCCACAGCCCTGGCCT
TCCTGTCCTTCTGCATCATCTTCATCATAGTGAGGTCCTGCAGGAAGAAATCGGCAAGGCCAGCAGCGGG
CGTGGGGGATACAGGCATGGAAGATGCAAAGGCCATCAGGGGCTCGGCCTCTCAGGGACCCCTGACTGAA
TCCTGGAAAGATGGCAACCCCCTGAAGAAGCCTCCCCCAGCTGTTGCCCCCTCGTCAGGGGAGGAAGGAG
AGCTCCATTATGCAACCCTCAGCTTCCATAAAGTGAAGCCTCAGGACCCGCAGGGACAGGAGGCCACTGA
CAGTGAATACTCGGAGATCAAGATCCACAAGCGAGAAACTGCAGAGACTCAGGCCTGTTTGAGGAATCAC
AACCCCTCCAGCAAAGAAGTCAGAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208582 protein sequence
Red=Cloning site Green=Tags(s)

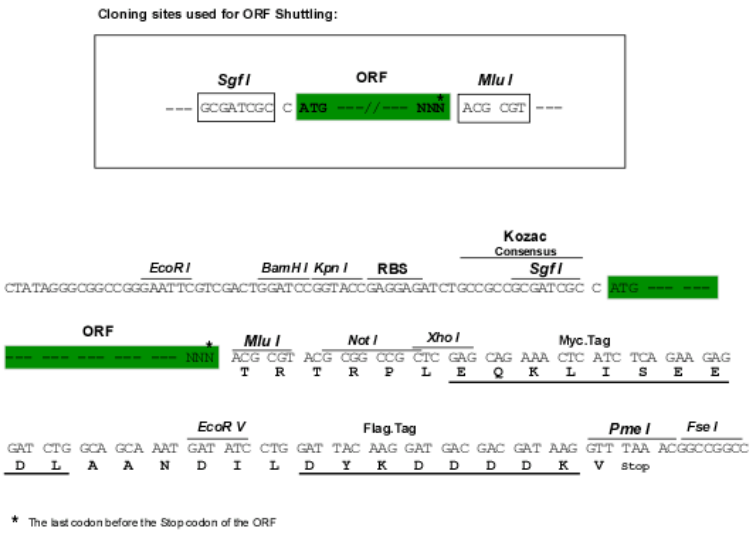
MLLLLLLLPLLWGTKGMEGDRQYGDGYLLQVQELVTVQEGLCVHVPCSFSYPQDGWTDSDPVHGYWFRAG
DRPYQDAPVATNNPDREVQAETQGRFQLLGDIWSNDCSLSIRDARKRDKGSYFFRLERGSMKWSYKSQLN
YKTKQLSVFVTALTHRPDILILGTLESGHPRNLTCSVPWACKQGTPPMISWIGASVSSPGPTTARSSVLT
LTPKPQDHGTSLTCQVTLPGTGVTTTSTVRLDVSYPPWNLTMTVFQGDATASTALGNGSSLSVLEGQSLR
LVCAVNSNPPARLSWTRGSLTLCPSRSSNPGLLELPRVHVRDEGEFTCRAQNAQGSQHISLSLSLQNEGT
GTSRPVSQVTLAAVGGAGATALAFLSFCIIFIIVRSCRKKSARPAAGVGDTGMEDAKAIRGSASQGPLTE
SWKDGNPLKKPPPAVAPSSGEEGELHYATLSFHKVKPQDPQGQEATDSEYSEIKIHKRETAETQACLRNH
NPSSKEVRG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6671_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014442

ORF Size: 1497 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

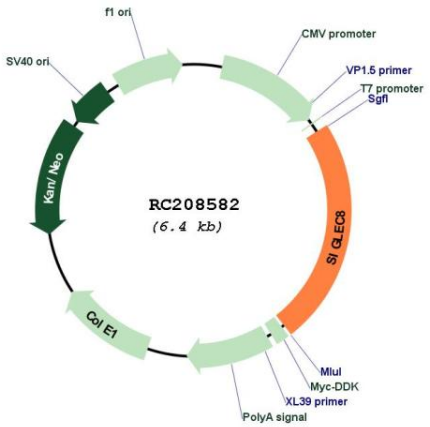
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

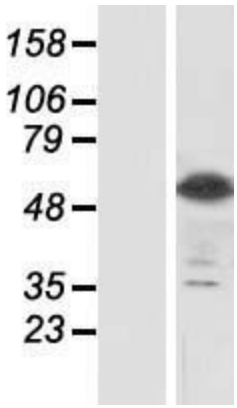
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014442.2, NP_055257.2
RefSeq Size:	2967 bp
RefSeq ORF:	1500 bp
Locus ID:	27181
UniProt ID:	Q9NYZ4
Cytogenetics:	19q13.41
Protein Families:	Druggable Genome, Transmembrane
MW:	54.1 kDa
Gene Summary:	Sialic acid-binding immunoglobulin (Ig)-like lectins, or SIGLECs (e.g., CD33 (MIM 159590)), are a family of type 1 transmembrane proteins each having a unique expression pattern, mostly in hemopoietic cells. SIGLEC8 is a member of the CD33-like subgroup of SIGLECs, which are localized to 19q13.3-q13.4 and have 2 conserved cytoplasmic tyrosine-based motifs: an immunoreceptor tyrosine-based inhibitory motif, or ITIM (see MIM 604964), and a motif homologous to one identified in signaling lymphocyte activation molecule (SLAM; MIM 603492) that mediates an association with SLAM-associated protein (SAP; MIM 300490) (summarized by Foussias et al., 2000 [PubMed 11095983]).[supplied by OMIM, May 2010]

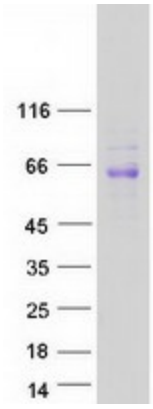
Product images:



Circular map for RC208582



Western blot validation of overexpression lysate (Cat# [LY415267]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208582 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SIGLEC8 protein (Cat# [TP308582]). The protein was produced from HEK293T cells transfected with SIGLEC8 cDNA clone (Cat# RC208582) using MegaTran 2.0 (Cat# [TT210002]).