

Product datasheet for MR219965

Cd33 (NM_001111058) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd33 (NM_001111058) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd33
Synonyms:	gp67; Siglec-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR219965 representing NM_001111058 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTGGCCACTGCCGCTGTTCTTGCTGTGTGCAGGCTCCCTGGCTCAGGATTTAGAATTCAGCTGG
TGGCGCCCGAGTCAGTGACAGTCGAGGAGGGCCTATGTGTCCATGTGCCCTGCAGTGTTTCTACCCCTC
CATTAAAGCTCACTTTAGGACCTGTGACCGCTCCTGGCTCCGAAAGGGGTCAGTCTCCATGAAGACTCT
CCAGTGGCCACAAGTGACCCAGACAAGTGCAGAAAGGCAACACAGGGCAGATTCCAACCTCTGGGG
ACCCACAGAAACATGACTGTTCCCTGTTTCATCAGAGATGCACAGAAAAATGACACAGGAATGACTTCTT
CAGAGTGGTCAGAGAACCCTTTGTGAGATATTCTTACAAAAAAGCCAGCTGTCAGTGCATGTGACCTCT
CTATCACGGACTCCTGACATTATAATCCCGGGGACCCTGGAGGCTGGCTATCCTAGCAATCTCACCTGCT
CTGTGCCCTGGGCTTGTGAGCAGGGGACACCCCTACTTTCTCCTGGATGTCAACTGCCCTCACCTCCTT
GAGTTCGCCGAACCCAGACTCCTCCGTGCTGACGTTTACACCTCAGCCTCAGGACCATGGTACCAAACCTC
ACCTGCTTGGTGACCTTCTCTGGAGCAGGTGTCAGTGTGGAAAGGACCATCCAGCTCAATGTTACCCGGA
AATCAGGCCAGATGAGAGAGCTGGTCTGGTGGCTGTGGGGAGGCAACGGTCAAGCTCCTGATTCTTGG
GCTCTGTCTCGTGTCTCATTGTGATGTTCTGCAGAAGGAAGACAACAAAGCTGTCAGTGCACATGGGC
TGTGAAAATCCTATCAAGAGGCAGGAAGCGATCACATCCTATAAATCACTGCCTATCTCCAATGCATCTG
ATGCTGTGACTCCAGGATGTTCCATACACAGGCTCATCAGCAGGACTCCAAGGTGCACAGCAATCCTGAG
AATCCAAGACCTTACAGAAGGACTCACCTCAGGAACAGAGCAGTGTCCACACTAAGATTTCTTGGATT
TCATGGGAGGGAAGCCTCAGGAGTACTCAGAGATCTAAATGCACCAAGCTTTGCTCCTGTGAAGAACC
TGTGCTCTATGGCTTCTGTGGATAATTCCTGCATCCCTCTGATCCCAGAGTGGGTTATGCTGCTGTG
TGTGAGTCTTACTCAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR219965 representing NM_001111058
Red=Cloning site Green=Tags(s)

MLWPLPLFLLCAGSLAQDLEFQLVAPESVTVEEGLCVHVPCSVFYPSIKLTLGPVTGSWLRKGVSLHEDS
 PVATSDPRQLVQKATQGRFQLLGDPPKHDCSLFIRDAQKNDTGMYYFRVREPFVRYYSKLSLHVTS
 LSRTPDIIIPGTLEAGYPSNLTCSVPWACEQGTPTTFSSWSTAL TSLSSRTDSSVLTFTFPQDHTGKTL
 TCLVTFSGAGVTVERTIQLNVTRKSGQMRELVLVAVGEATVKLLILGLCLVFLIVMFCRRKTTKLSVHMG
 CENPIKRQEAITSYNHCLSPTASDAVTPGCSIHRLISRTPRCTAILRIQDPYRRTHLRNRRAVSTLRFPMI
 SWEGSLRSTQRSKCTKLCSPVKNLCPLWLPVDNSCIPLIPEWVMLLCVSLTSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001111058

ORF Size: 1209 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.

RefSeq: [NM_001111058.1](#), [NP_001104528.1](#)

RefSeq Size: 2571 bp

RefSeq ORF: 1212 bp

Locus ID: 12489

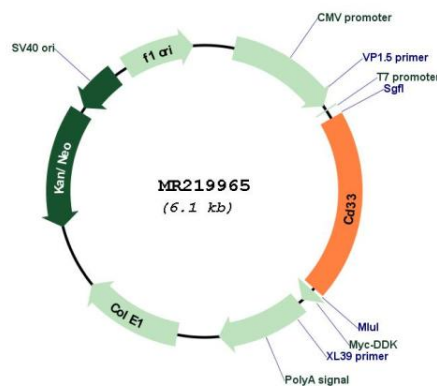
UniProt ID: [Q63994](#)

Cytogenetics: 7 28.25 cM

MW: 45.3 kDa

Gene Summary: Sialic-acid-binding immunoglobulin-like lectin (Siglec) that plays a role in mediating cell-cell interactions and in maintaining immune cells in a resting state (By similarity). Preferentially binds sialic acid to the short O-linked glycans of certain mucins (PubMed:12773563). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219965