

Product datasheet for **MR226845**

Cd19 (NM_009844) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd19 (NM_009844) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd19
Synonyms:	AW495831
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226845 representing NM_009844
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCATCTCCTCTCCCTGTCTCCTTCTCCTCTTTCTTACCTTAGTAGGAGGCAGGCCCAAGAAGTCTT
 TACTGGTGGAGGTAGAAGAGGGAGGCAATGTTGTGCTGCCATGCCCTCCCGACTCCTCACCTGTCTCTTC
 TGAGAAGCTGGCTTGGTATCGAGGTAACCAAGTCAACACCCCTCCTGGAGCTGAGCCCCGGTCCCCCTGGC
 CTGGGATTGCACGTGGGGTCCCTGGGCATCTTGCTAGTGATTGTCAATGTCTCAGACCATATGGGGGCT
 TCTACCTGTGCCAGAAGAGGCCCTTTCAAGGACATCTGGCAGCCTGCCCTGGACAGTGAACGTGGAGGA
 TAGTGGGAGATGTTCCGGTGAATGCTTCAGACGTGAGGACCTGGACTGTGACCTAAGGAACAGGTCC
 TCTGGGAGCCACAGTCCACTTCTGGTCCCAGCTGTATGTGTGGCTAAAGACCATCTAAGGTCTGGG
 GAACAAAGCCTGTATGTCCCTCGGGGAGCAGTTTGAATCAGAGTCTAATCAACCAAGATCTCACTGT
 GGCACCCGGCTCCACACTTTGGCTGTCTGTGGGTACCCCTGTCCAGTGGCCAAAGGCTCCATCTCC
 TGACCCATGTGATCCTAGGAGACCTAATGTTTCACTACTGAGCCTAAGCCTTGGGGGAGAGCACCCGG
 TCAGAGAGATGTGGGTTTGGGGTCTCTTCTGCTTCTGCCCAAGCCACAGCTTTAGATGAAGGCACCTA
 TTATTGTCTCCGAGAAACCTGACCATCGAGAGGCACGTGAAGGTCAATGCAAGGTGAGCAGTGTGGCTC
 TGGCTGTTGAGAACTGGTGGATGGATAGTCCCAGTGGTACTTTAGTATATGTCACTTCTGTATGGTTT
 CTCTGGTGGCTTTTCTCTATTGTCAAAGAGCCTTATCCTGAGAAGGAAAAGGAAGCAATGACTGACCC
 CGCCAGGAGATTTCAAAGTACGCTCCCTCGGAAACGGGACCCAGAACCAGTACGGGAATGTGCTC
 TCCCTTCTACATCTACCTCTGGCCAGGCCATGCTCAGCGTTGGGCTGCTGGCCTAGGGAGTGTCCCTG
 GGCTCTATGAAATCCACGCATTCAAGTCCAGGATACTGGAGCTCAGAGCCATGAACAGGACTGGAAGA
 AGAAGGGGAGGCCATGAAGAGCCAGACAGCGAGGAGGGCTCTGAATTCTATGAGAACGACTCCAACCTT
 GGGCAGGACCAGGTTTCCAGGATGGGAGTGGCTATGAGAACCCGAGGATGAGCCCATGGTCCAGAGG
 AAGAAGACTCCTTCTCCAATGCTGAGTCTTATGAAAATGCAGATGAGGAGCTGGCCCAACCAAGTGGCAG
 GATGATGGACTTCTGAGCCCCATGGGCTGCGTGGGACCCAGCCGGGAAGCATCCTCGCTTGGGTCC
 CAGTCTATGAAGATGAGAGGGATCCTCTATGCAGCTCCTCAGCTCCACTCAATTCAGTCCGGTCCCA
 GTCATGAAGAAGATGCAGACTCTTATGAAAACATGGATAAGTCTGACGACCTAGAACCAGCATGGGAAGG
 AGAGGGCCACATGGGACTTGGGAACCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226845 representing NM_009844
 Red=Cloning site Green=Tags(s)

MPSPLPVSFLLFLTLVGGRPQKSLLEVEEGNVLPCLPDSSPVSSEKLAWYRGNQSTPFLELSPGSPG
 LGLHVGSGLILLVIVNVDHMGFFYLQKRPFFKDIWQPAWTVNVEDSGEMFRWNASDVRDLDCDLNRNS
 SGSHRSTSGSQLYVWAKDHPKVVGTKPVCAPRGSSLNQSLINQDLTVAPGSTLWLSGVPVPPVAKGSIS
 WTHVHPRRPNVSLLSLGGHEHPVREMWVWGSLLLLPQATALDEGTYYCLRGNLTIERHVKVIARSAVWL
 WLLRTGGWIVPVVTLVYVIFCMVSLVAFLYCQRAFILRRKRKMTDPARRFFKVTPPSGNGTQNYGNVL
 SLPTSTSGQAHAQRWAAGLGSVPGSYGNPRIQVQDTGAQSHETGLEEEGEAYEEDSEEGSEFYENDSNL
 GQDQVSDGSGYENPEDEPMGPEEEDSFNAESYENADEELAQPVGRMDFLSPHGSAWDP SREASSLGS
 QSYEDMRGILYAAPQLHSIQSGPSHEEDADSYENMDKSDDLEPAWEGEGHMGWTGTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9015_e04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_009844

ORF Size: 1641 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).

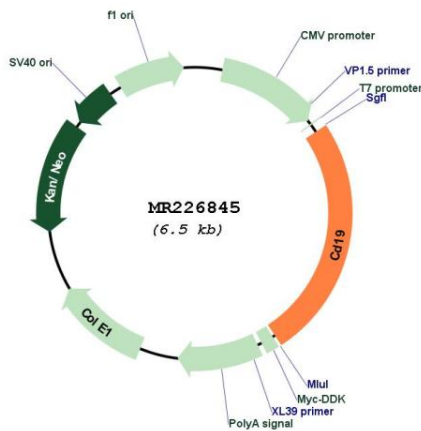
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_009844.2](#), [NP_033974.2](#)

RefSeq Size: 2440 bp
RefSeq ORF: 1644 bp
Locus ID: 12478
UniProt ID: [P25918](#)
Cytogenetics: 7 69.01 cM
MW: 60.6 kDa

Gene Summary: Functions as coreceptor for the B-cell antigen receptor complex (BCR) on B-lymphocytes. Decreases the threshold for activation of downstream signaling pathways and for triggering B-cell responses to antigens (By similarity). Activates signaling pathways that lead to the activation of phosphatidylinositol 3-kinase and the mobilization of intracellular Ca(2+) stores (PubMed:9382888, PubMed:12387743, PubMed:20101619). Is not required for early steps during B cell differentiation in the blood marrow (PubMed:7542548, PubMed:7543183, PubMed:9317126). Required for normal differentiation of B-1 cells (PubMed:7542548, PubMed:7543183, PubMed:12387743). Required for normal B cell differentiation and proliferation in response to antigen challenges (PubMed:7542548, PubMed:9317126, PubMed:12387743). Required for normal levels of serum immunoglobulins, and for production of high-affinity antibodies in response to antigen challenge (PubMed:7542548, PubMed:7543183, PubMed:12387743).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226845