

Product datasheet for MR222619

Cd79a (NM_007655) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd79a (NM_007655) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd79a
Synonyms:	Ig-alpha; Iga; Igalpha; Ly-54; Ly54; mb-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222619 representing NM_007655 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGGGGTCTAGAAGCCCTCAGAGCCCTGCCTCTCCTCTTCTTGTGCATACGCCTGTTGGGTC
CCGGATGCCAGGCCCTGCGGGTAGAAGGGGTCCACCATCCCTGACGGTGAACCTGGGCGAGGAGGCCCG
CCTCACCTGTGAAAACAATGGCAGGAACCCTAATCACATGGTGGTTCAGCCTTCAGTCTAACATCACA
TGGCCCCCAGTGCCACTGGTCTGGCCAGGGTACCACAGGCCAGCTGTTCTCCCCGAAGTAAACAAGA
ACCACAGGGGCTTGTACTGGTCCAAGTGATAGAAAACAACATATAAAACGCTCCTGTGGTACTTACCT
CCGCGTGCGAATCCAGTCCCTAGGCCCTTCTGGACATGGGGGAAGGTACCAAGAACCAGCATCATCACA
GCAGAAGGGATCATCTTGCTGTTCTGTGCAGTGGTCCAGGGACGCTGCTGCTATTACAGGAAACGGTGGC
AAAATGAGAAGTTTGGGGTGGACATGCCAGATGACTATGAAGATGAAAATCTCTATGAGGGCCTGAACCT
TGATGACTGTTCTATGTATGAGGACATCTCCAGGGGACTCCAGGGCACCTACCAGGATGTGGCAACCTC
CACATTGGAGATGCCAGCTGAAAAGCCA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222619 representing NM_007655
 Red=Cloning site Green=Tags(s)

MPGGLEALRALPLLLFLSYACLPGQCQALRVEGGPPSLTVNLGEEARLTCENNGRNPNTWWFSLQSNIT
 WPPVPLGPGQGTGQLFFPEVNKNHRGLYWCQVIENNILKRSCGYLRVRNPVPRPFLDMGEGTKNRIIT
 AEGIILLFCVVPGTLLLFKRKRWQNEKFGVDMPPDDYEDENLYEGLNLDCCSMYEDISRGLQGTYQDVGNL
 HIGDAQLEKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9025_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_007655

ORF Size: 660 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:

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_007655.4](#)

RefSeq Size: 1327 bp

RefSeq ORF: 663 bp

Locus ID: 12518

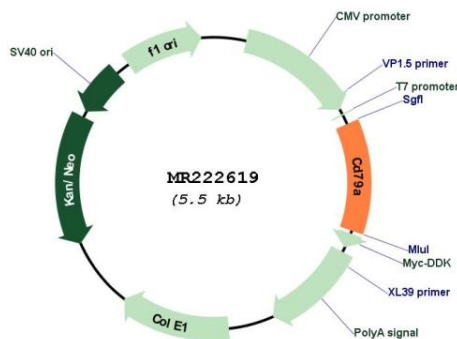
UniProt ID: [P11911](#)

Cytogenetics: 7 13.49 cM

MW: 25 kDa

Gene Summary: Required in cooperation with CD79B for initiation of the signal transduction cascade activated by binding of antigen to the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. Also required for BCR surface expression and for efficient differentiation of pro- and pre-B-cells. Stimulates SYK autophosphorylation and activation. Binds to BLNK, bringing BLNK into proximity with SYK and allowing SYK to phosphorylate BLNK. Also interacts with and increases activity of some Src-family tyrosine kinases. Represses BCR signaling during development of immature B-cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222619