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Product datasheet for MR202501

Cd79a (BC027633) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd79a (BC027633) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd79a
Synonyms:	mb-1, Ig-alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR202501 representing BC027633
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGGGGGTCTAGAAGCCCTCAGAGCCCTGCCTCTCCTCCTCTTCTTGTCCTACGCCTGTTTGGGTC
CCGGATGCCAGGCCCTGCGGGTAGAAGGGGGTCCACCATCCCTGACGGTGAACTTGGGCGAGGAGGCCCG
CCTCACCTGTGAAAACAATGGCAGGAACCCTAATATCACATGGTGGTTCAGCCTTCAGTCTAACATCACA
TGGCCCCCAGTGCCACTGGGTCCTGGCCAGGGTACCACAGGCCAGCTGTTCTTCCCCGAAGTAAACAAGA
ACCACAGGGGCTTGTACTGGTGCCAAGTGATAGAAAACAACATATTAAAACGCTCCTGTGGTACTTACCT
CCGCGTGCGCAATCCAGTCCCTAGGCCCTTCCTGGACATGGGGGAAGGTACCAAGAACCGCATCATCACA
GCAGAAGGGATCATCTTGCTGTTCTGTGCAGTGGTGCCAGGGACGCTGCTGCTATTCAGGAAACGGTGGC
AAAATGAGAAGTTTGGGGTGGACATGCCAGATGACTATGAAGATGAAAATCTCTATGAGGGCCTGAACCT
TGATGACTGTTCTATGTATGAGGACATCTCCAGGGGACTCCAGGGCACCTACCAGGATGTGGGCAACCTC
CACATTGGAGATGCCCAGCTGGAAAAGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

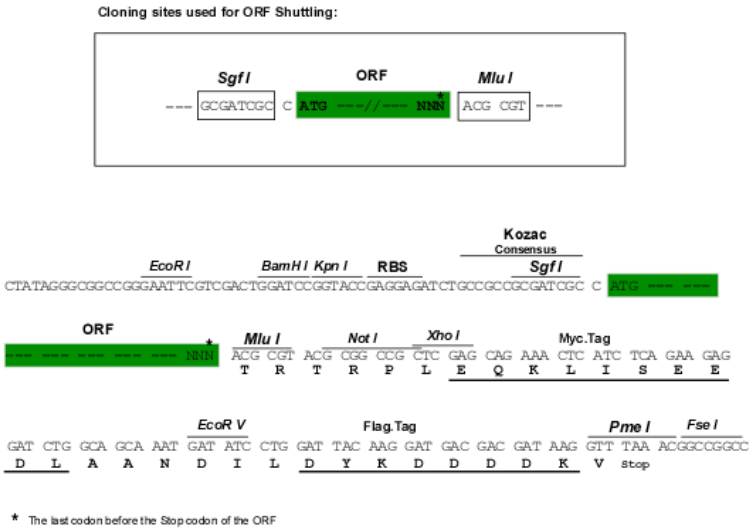
>MR202501 representing BC027633
Red=Cloning site Green=Tags(s)

MPGGLEALRALPLLLFLSYACLGPGCQALRVEGGPPSLTVNLGEEARLTCENNGRNPNITWWFSLQSNIT
WPPVPLGPGQGTTGQLFFPEVNKNHRGLYWCQVIENNILKRSCGTYLRVRNPVPRPFLDMGEGTKNRIIT
AEGIILLFCAVVPGTLLLFRKRWQNEKFGVDMPDDYEDENLYEGLNLDDCSMYEDISRGLQGTYQDVGNL
HIGDAQLEKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC027633

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: BC027633.1

RefSeq Size: 1008 bp

RefSeq ORF: 662 bp

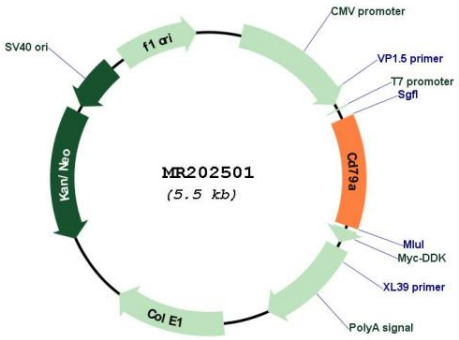
Locus ID: 12518

Cytogenetics: 7 13.49 cM

MW: 37 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 MR202501