

Product datasheet for **RC200665**

CD79B (NM_001039933) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD79B (NM_001039933) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD79B
Synonyms: AGM6; B29; IGB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200665 representing NM_001039933
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCAGGCTGGCGTTGTCTCCTGTGCCAGCCACTGGATGGTGGCGTTGCTGCTGCTCCTCAGCTG
 AGCCAGTACCAGCAGCCAGATCGGAGGACCGGTACCGGAATCCCAAAGGTAGTGCTTGTTCGCGGATCTG
 GCAGAGCCACGTTTCATAGCCAGGAAACGGGGCTTCACGGTGAAAATGCACTGTACATGAACAGCGCC
 TCCGGCAATGTGAGCTGGCTCTGGAAGCAGGAGATGGACGAGAATCCCCAGCAGCTGAAGCTGGAAAAGG
 GCCGCATGGAAGAGTCCCAGAACGAATCTCTCGCCACCCTCACCATCCAAGGCATCCGGTTTGAGGACAA
 TGGCATCTACTTCTGCCAGCAGAAGTGCAACAACACCTCGGAGGTCTACCAGGGCTGCGGCACAGAGCTG
 CGAGTCATGGGATTGAGCACCTTGGCACAGCTGAAGCAGAGGAACACGCTGAAGGATGGTATCATCATGA
 TCCAGACGCTGCTGATCATCCTTTCATCATCGTGCCATCTTCTGCTGCTGGACAAGGATGACAGCAA
 GGCTGGCATGGAGGAAGATCACACCTACGAGGGCTGGACATTGACCAGACAGCCACCTATGAGGACATA
 GTGACGCTGCGGACAGGGGAAGTGAAGTGGTCTGTAGGTGAGCACCCAGGCCAGGAG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200665 representing NM_001039933
Red=Cloning site Green=Tags(s)

MARLALSPVPSHWMVALLLLLSAEPVPAARSEDYRNPKGSACSRIWQSPRFIARKRGFTVKMHCYMNSA
 SGNVSWLWKQEMDENPQQLKLEKGRMEESQNESLATLTIQIRFEDNGIYFCQQKCNNTSEVYQCGTEL
 RVMGFSTLAQLKQRNTLKDGIIMIQTLLIILFIIVIPILLLDKDDSKAGMEEDHTYEGLDIDQTATYEDI
 VTLRTGEVKWSVGEHPGQE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2751_g05.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_001039933

ORF Size: 1428 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_001039933.3](#)

RefSeq Size: 1303 bp

RefSeq ORF: 693 bp

Locus ID: 974

UniProt ID: [P40259](#)

Cytogenetics: 17q23.3

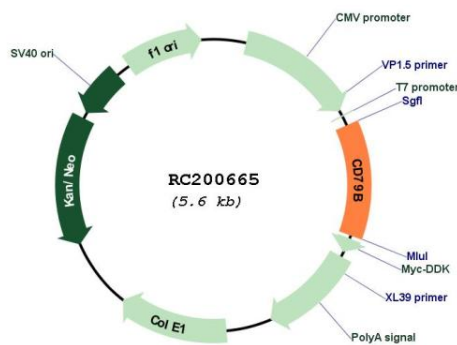
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: B cell receptor signaling pathway

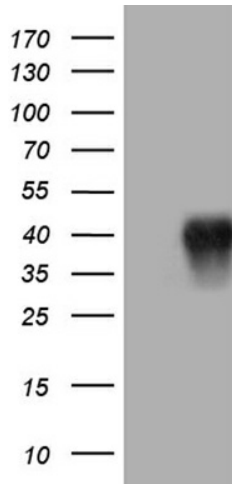
MW: 26.05 kDa

Gene Summary: The B lymphocyte antigen receptor is a multimeric complex that includes the antigen-specific component, surface immunoglobulin (Ig). Surface Ig non-covalently associates with two other proteins, Ig-alpha and Ig-beta, which are necessary for expression and function of the B-cell antigen receptor. This gene encodes the Ig-beta protein of the B-cell antigen component. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

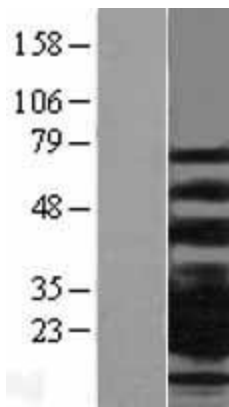
Product images:



Circular map for RC200665



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD79B (Cat# RC200665, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD79B (Cat# [TA810502])(1:2000). Positive lysates [LY421857] (100ug) and [LC421857] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY421857]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200665 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD79B protein (Cat# [TP300665]). The protein was produced from HEK293T cells transfected with CD79B cDNA clone (Cat# RC200665) using MegaTran 2.0 (Cat# [TT210002]).