

Product datasheet for **RC206609**

CD72 (NM_001782) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD72 (NM_001782) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD72
Synonyms:	CD72b; LYB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206609 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAGGCCATCACCTATGCAGATCTGAGTTTGTGAAGGCTCCCCTGAAGAAGAGCATCTCCAGCC
GGTTAGGACAGGACCCAGGGCTGATGATGATGGGAAATCACCTACGAGAATGTTCAAGTGCCCGCAGT
CCTAGGGTGCCTCAAGCTTGGCTTCTTGTACTAGGGGACAAAGCAGCGGTCAAGTCGGAGCAGCCA
ACTGCGTCTGGAGACCGTGACGTACCAGCTGTCGGGCGGATTCTCCCCTGCCGACAACTGCCTGC
GATACCTCTGCTCGGCCTGCTCCTCACCTGCCTGCTGTTAGGAGTGACCGCCATCTGCCTGGGAGTGCG
CTATCTGCAGGTGTCTCAGCAGCTCCAGCAGACGAACAGGGTTCTGGAAGTCACTAACAGCAGCCTGAGG
CAGCAGCTCCGCCTCAAGATAACGCAGCTGGGACAGAGTGCAGAGGATCTGCAGGGTCCAGGAGAGAGC
TGGCGCAGAGTCAGGAAGCACTACAGGTGGAACAGAGGGCTCATCAGGCGGCCGAAGGGCAGCTACAGGC
CTGCCAGGCAGACAGACAGAAGACGAAGGAGACCTTGCAAAGTGAGGAGCAACAGAGGAGGGCCTTGAG
CAGAAGCTGAGCAACATGGAGAACAGACTGAAGCCCTTTCACATGCGGCTCAGCAGACACCTGCTGTC
CGTCGGGATGGATAATGCATCAGAAAAGCTGCTTTTACATCTCACTTACTTCAAAAAATTGGCAGGAGAG
CCAAAAACAATGTGAAACTCTGTCTTCCAAGCTGGCCACATTCACTGAAATTTATCCACAATCACACTCT
TACTACTTCTTAAATTCAGTGTGCAAAATGGTGGTTCAGGGAATTCATATTGGACTGGCCTCAGCTCTA
ACAAGGATTGGAAGTTGACTGATGATACACAACGCACTAGGACTTATGCTCAAAGCTCAAAATGTAACAA
GGTACATAAAAATTTGGTCATGGTGGACTGGAGTCAGAGTCATGTAGAAGTTCTTCCCTACATCTGT
GAGATGACAGCTTTCAGGTTTCCAGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206609 protein sequence
Red=Cloning site Green=Tags(s)

MAEAITYADLRFVKAPLKKSISRLGQDPGADDDGEITYENVQVPAVLGVPSSLASSVLGDKAAVKSEQP
 TASWRAVTSPAVGRILPCRTTCLRYLLGLLLTCLLLGVTAIICLVRYLQVSQQLQQTNRVLEVTNSSLR
 QQLRLKITQLGQSAEDLQGSRRELAQSQEALQVEQRAHQAAEGQLQACQADRQKTETLQSEEQRRALE
 QKLSNMENRLKPFFTCGSADTCCPSGWIHQKSCFYISLTSKNWQESQKQCETLSSKLATFSEIYPQSHS
 YYFLNSLLPNGSGNSYWTGLSSNKDWKLTDDTQRTRYAQSSKCNKVHKTWSWWTLESESCRSSLPYIC
 EMTAFRFPD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6197_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001782

ORF Size: 1077 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_001782.3](#)

RefSeq Size: 1548 bp

RefSeq ORF: 1080 bp

Locus ID: 971

UniProt ID: [P21854](#)

Cytogenetics: 9p13.3

Domains: CLECT

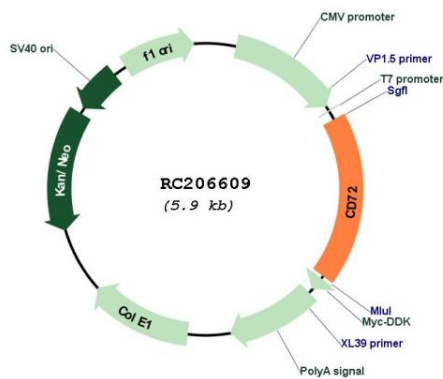
Protein Families: Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: B cell receptor signaling pathway

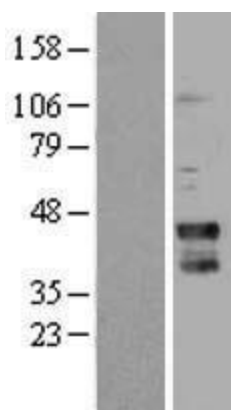
MW: 40.2 kDa

Gene Summary: Plays a role in B-cell proliferation and differentiation.[UniProtKB/Swiss-Prot Function]

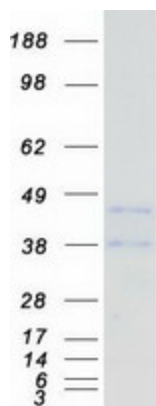
Product images:



Circular map for RC206609



Western blot validation of overexpression lysate (Cat# [LY400673]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206609 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD72 protein (Cat# [TP306609]). The protein was produced from HEK293T cells transfected with CD72 cDNA clone (Cat# RC206609) using MegaTran 2.0 (Cat# [TT210002]).