

Product datasheet for **RC203179**

CD38 (NM_001775) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CD38 (NM_001775) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | CD38 |
| Synonyms: | ADPRC 1; ADPRC1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC203179 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAAGTGGAGTTCAGCCCGGTGTCCGGGACAAACCTGCTGCCGGCTCTCTAGGAGAGCCCAAC
TCTGTCTGGCGTCAGTATCCTGGTCTGATCCTCGTCGTGGTGTGCTCGCGGTGGTCTCCGAGGTGGCG
CCAGCAGTGGAGCGGTCCGGGCACCACCAAGCGCTTCCCGAGACCGTCTGGCGGATGCGTCAAGTAC
ACTGAAATTCATCCTGAGATGAGACATGTAGACTGCCAAAGTGTATGGGATGCTTCAAGGGTGCATTTA
TTTCAAAACATCCTTGCAACATTACTGAAGAAGACTATCAGCCACTAATGAAGTTGGGAAGTCCAGACCGT
ACCTTGCAACAAGATTCTTCTTTGGAGCAGAATAAAGATCTGGCCATCAGTTCACACAGTCCAGCGG
GACATGTTACCCCTGGAGGACACGCTGCTAGGCTACCTTGCTGATGACCTCACATGGTGTGGTGAATTCA
ACACTTCCAAAATAAAGTATCAATCTTGCCAGACTGGAGAAAGGACTGCAGCAACAACCTGTTTCAGT
ATTCTGGAAAACGGTTTCCCGCAGGTTTGAGAAAGCTGCCTGTGATGTGGTCCATGTGATGCTCAATGGA
TCCCGCAGTAAATCTTTGACAAAACAGCACTTTTGGGAGTGTGGAAGTCCATAATTTGCAACCAGAGA
AGGTTCCAGACTAGAGGCTGGGTGATACATGGTGAAGAGAAGATTCCAGAGACTTATGCCAGGATCC
CACCATAAAGAGCTGGAATCGATTATAAGCAAAGGAATATTTCAATTTCTGCAAGAATATCTACAGA
CTGACAAGTTTCTTCAGTGTGAAAAATCCTGAGGATTCATCTGCACATCTGAGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001775.4](#)

RefSeq Size: 1494 bp

RefSeq ORF: 903 bp

Locus ID: 952

UniProt ID: [P28907](#)

Cytogenetics: 4p15.32

Domains: Rib_hydrolayse

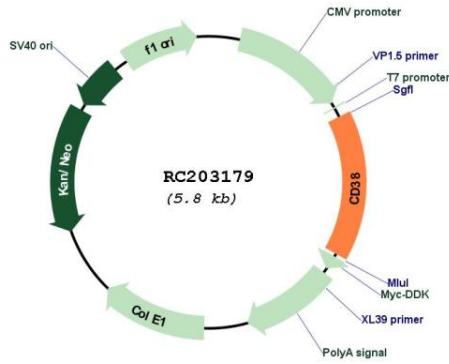
Protein Families: Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane

Protein Pathways: Calcium signaling pathway, Hematopoietic cell lineage, Metabolic pathways, Nicotinate and nicotinamide metabolism

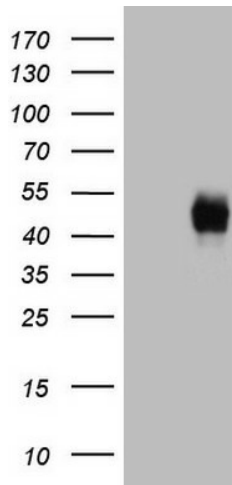
MW: 34.3 kDa

Gene Summary: The protein encoded by this gene is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

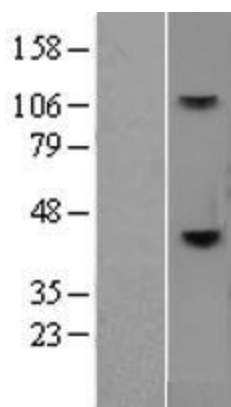
Product images:



Circular map for RC203179



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY CD38 (Cat# RC203179, 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-CD38 (Cat# [TA804538])(1:2000). Positive lysates [LY419752] (100ug) and [LC419752] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419752]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203179 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).