

Product datasheet for **RC225079**

CD59 (NM_001127227) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CD59 (NM_001127227) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CD59
Synonyms: 1F5; 16.3A5; EJ16; EJ30; EL32; G344; HRF-20; HRF20; MAC-IP; MACIF; MEM43; MIC11; MIN1; MIN2; MIN3; MIRL; MSK21; p18-20
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC225079 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAATCCAAGGAGGTCTGTCTGTTCTGGGCTGCTGCTCGTCTGGTGTCTTCTGCCATTCAGGTC
ATAGCCTGCAGTGTACAACCTGCTAACCCTGCTGACTGCAAAACAGCCGCAATTGTTTCATCTGA
TTTTGATGCGTGTCTATTACCAAAGCTGGGTTACAAGTGTATAACAAGTGTGGAAAGTTTGAGCATTGC
AATTTCAACGACGTCACAACCCGCTTGAGGAAAATGAGCTAACGTAAGTACTGCTGCAAGAAGGACCTGT
GTAACCTTAACGAACAGCTTAAAATGGTGGGACATCCTATCAGAGAAAACAGTTCTTCTGCTGGTGAC
TCCATTTCTGGCAGCAGCCTGGAGCCTTCATCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC225079 protein sequence
Red=Cloning site Green=Tags(s)
MGIQGGSVLFGLLLVLAVFCHSGHSLQYCNPNPTADCKTAVNCSSDFDACLITKAGLQVYNKCKWFEHC
NFNDVTRLRENELTYCCKKDLNCFNEQLENGTSLSKTVLLLLVTPFLAAAWSLHP

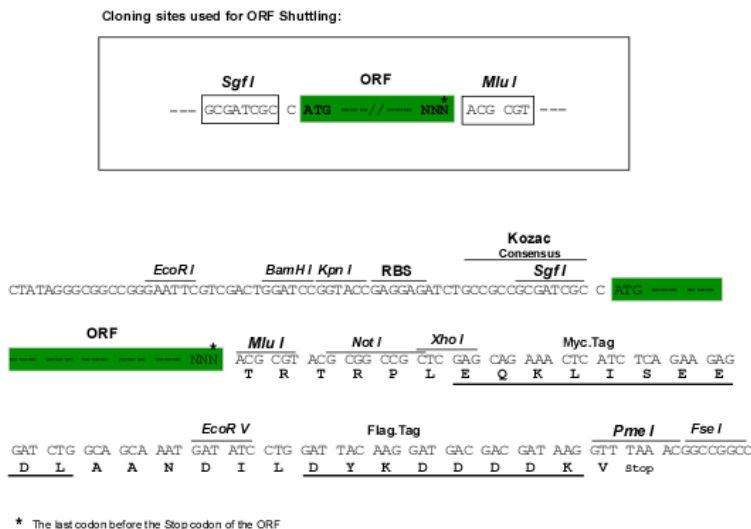
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6417_h05.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001127227

ORF Size: 384 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.

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

RefSeq: [NM_001127227.1](#), [NP_001120699.1](#)

RefSeq Size: 7573 bp

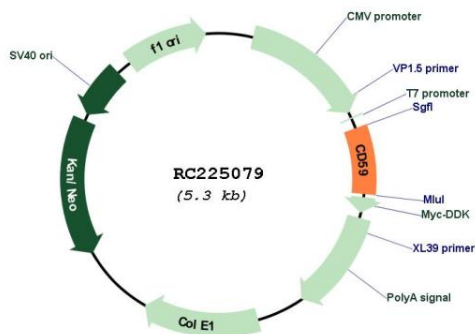
RefSeq ORF: 387 bp

Locus ID: 966

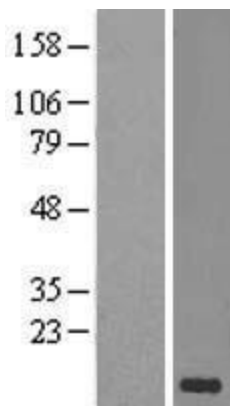
UniProt ID: [P13987](#)
Cytogenetics: 11p13
Protein Families: Druggable Genome
Protein Pathways: Complement and coagulation cascades, Hematopoietic cell lineage
MW: 14.2 kDa

Gene Summary: This gene encodes a cell surface glycoprotein that regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. This protein is a potent inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or C9 during the assembly of this complex, thereby inhibiting the incorporation of multiple copies of C9 into the complex, which is necessary for osmolytic pore formation. This protein also plays a role in signal transduction pathways in the activation of T cells. Mutations in this gene cause CD59 deficiency, a disease resulting in hemolytic anemia and thrombosis, and which causes cerebral infarction. Multiple alternatively spliced transcript variants, which encode the same protein, have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC225079



Western blot validation of overexpression lysate (Cat# [LY426725]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225085] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).