

## Product datasheet for **RC225084**

### CD59 (NM\_001127225) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | CD59 (NM_001127225) 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:  | >RC225084 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s)  |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAATCCAAGGAGGGTCTGTCCTGTTCTGGGCTGCTGCTCGTCTGGCTGTCTTCTGCCATTCAGGTC  
 ATAGCCTGCAGTGCTACAACCTGCTTAACCACTGCTGACTGCAAAACAGCCGCAATTGTTCTATCTGA  
 TTTTGATGCGTGTCTCATTACCAAAGCTGGGTTACAAGTGATAACAAGTGTGGAAGTTTGAGCATTGC  
 AATTTCAACGACGTCACAACCCGCTTGAGGGAAAATGAGCTAACGTACTACTGCTGCAAGAAGGACCTGT  
 GTAACTTTAACGAACAGCTTGAAATGGTGGGACATCCTATCAGAGAAAACAGTTCTTCTGCTGGTGAC  
 TCCATTCTGGCAGCAGCCTGGAGCCTTCATCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

|                   |  |
|-------------------|--|
| Protein Sequence: | >RC225084 protein sequence<br>Red=Cloning site Green=Tags(s) |
|-------------------|--|

MGIQGGSVLFGLLLVLAVFCHSGHSLQCYNCPNPTADCKTAVNCSSDFDACLITKAGLQVYNKCWKFEHC  
 NFNDVTRLRENELTYCYCKKDLNCFNEQLENGTSLSKTVLLLVTPFLAAAWSLHP

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6417\\_h05.zip](https://cdn.origene.com/chromatograms/mk6417_h05.zip)

Restriction Sites: SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001127225

**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\\_001127225.1](#), [NP\\_001120697.1](#)

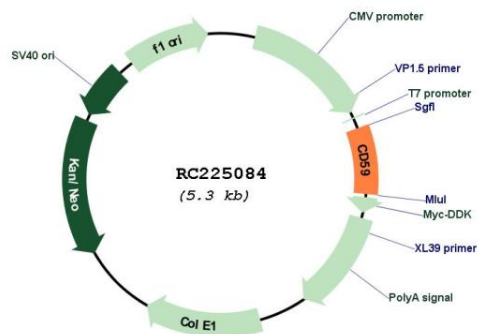
**RefSeq Size:** 7694 bp

**RefSeq ORF:** 387 bp

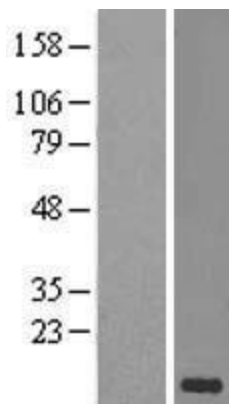
**Locus ID:** 966

|                   |  |
|-------------------|--|
| UniProt ID:       | <a href="#">P13987</a>   |
| 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 RC225084



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]).