

Product datasheet for **SC324423**

CD59 (NM_203329) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD59 (NM_203329) Human Untagged Clone
Tag:	Tag Free
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-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_203329.1
 AGAGGATCCTGGGCGCCGCCAGGTTCTGTGGACAATCACAATGGGAATCCAAGGAGGGTC
 TGTCTGTTCGGGCTGCTGCTCGTCTGCTTCTGCCATTGAGGTCATAGCCTGCA
 GTGCTACAACCTGCTTAACCCAAGTCTGACTGCAAAACAGCCGTCAATTGTTTCACTGA
 TTTTGTGCGTGTCTCATTACCAAAGCTGGGTTACAAGTGTATAACAAGTGTGGAAAGTT
 TGAGCATTGCAATTTCAACGACGTCACAACCCGCTTGAGGGAAAAATGAGCTAACGTA
 CTGCTGCAAGAAGGACCTGTGTAACCTTTAACGAACAGCTTGAAAAATGGTGGGACATCCTT
 ATCAGAGAAAAACAGTTCTTCTGCTGGTACTCCATTTCTGGCAGCAGCCTGGAGCCTTCA
 TCCCTAAGTCAACACCAGGAGAGCTTCTCCCAAACCTCCCGTTCTGCGTAGTCCGCTTT
 CTCTTGTGCCACATTCTAAAGGCTTGATATTTTCCAAATGGATCCTGTTGGGAAAGAAT
 AAAATTAGCTTGAGCAACCTGGCTAAGATAGAGGGGCTCTGGGAGACTTTGAAGACCAGT
 CCTGTTTGCAGGGAAGCCCACTGAAGGAAGAAGTCTAAGAGTGAAGTAGGTGTGACTT
 GAACTAGATTGCATGCTTCTCCTTTGCTTGGGAAGACCAGCTTTCAGTGACAGCTT
 GAGTGGGTTCTCTGCAGCCCTCAGATTATTTTCTCTGGCTCCTGGATGTAGTCAGTT
 AGCATCATTAGTACATCTTTGGAGGGTGGGGCAGGAGTATATGAGCATCCTCTCTACAT
 GGAACGCTTTCATAAACTTCAGGGATCCCGTGTGCCATGGAGGCATGCCAAATGTTCCA
 TATGTGGGTGTCAGTCAGGGACAACAAGATCCTTAATGCAGAGCTAGAGGACTTCTGGCA
 GGGAAAGTGGGAAAGTGTCCAGATAGCAGGGCATGAAAACCTAGAGAGGTACAAGTGGCT
 GAAAATCGAGTTTTTCTCTGTCTTTAAATTTTATATGGGCTTTGTTATCTTCCACTGGA
 AAAGTGTAAATAGCATACATCAATGGTGTGTTAAAGCTATTTCTTGCCTTTTTTTTATTG
 GAATGGTAGGATATCTTGGCTTTGCCACACACAGTTACAGAGTGAACACTCTACTACATG
 TACTGGCAGTATTAAGTGTGCTTATTTTAAATGTTACTGGTAGAAAGGCAGTTCCAGGTA
 TGTGTATATAGTATGAATGCAGTGGGACACCCTTTGTGGTTACAGTTTGAGACTTCC
 AAAGGTATCCTTAATAACAACAGATCTGCAGGGGTATGTTTTACCATCTGCATCCAGCC
 TCTGCTAACTCCTAGCTGACTCAGCATAGATTGTATAAAATACCTTTGTAAACGGCTCTT
 AGCACACTCACAGATGTTTGGAGCTTTCAGAAGCTCTTCTAAAAAATGATACACACCTTT
 CACAAGGGCAAACCTTTTTCTTTTCCCTGTGATTCTAGTGAATGAATCTCAAGATTCAG
 TAGACCTAATGACATTTGATTTTATGATCTTGGCTGATTTAATGGCATAGGCTGACTT
 TTGCAGATGGAGGAATTTCTTGATTAATGTTGAAAAAAAACCTTGATTACTCTGTTG
 GACAAACCGAGTGAATGAATGATGCTTTTCTGAAAATGAAATATAACAAGTGGGTGAAT
 GTGGTTATGGCCGAAAAGGATATGCAGTATGCTTAATGGTAGCAACTGAAAGAAGACATC
 CTGAGCAGTGCCAGCTTTCTTCTGTTGATGCCGTTCCCTGAACATAGGAAAAATAGAACT
 TGCTTATCAAACTTAAA
 AAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_203329

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_203329.1](#), [NP_976074.1](#)

RefSeq Size: 7682 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

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]
Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. All variants (1-8) encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.