

Product datasheet for **SC318879**

CD55 (NM_001114752) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD55 (NM_001114752) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD55
Synonyms:	CHAPLE; CR; CROM; DAF; TC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318879 representing NM_001114752. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACCGTCGCGCGGCCGAGCGTGCCCGCGCGCTGCCCTCCTCGGGGAGCTGCCCGGCTGCTGCTG
CTGGTGTGTTGTGCCTGCCGGCGTGTGGGTGACTGTGGCCTTCCCCAGATGTACCTAATGCCAG
CCAGCTTTGGAAGGCCGTACAAGTTTTCCGAGGATACTGAATAACGTACAAATGTGAAGAAAGCTTT
GTGAAAATTCCTGGCGAGAAGGACTCAGTGATCTGCCTAAGGGCAGTCAATGGTCAGATATTGAAGAG
TTCTGCAATCGTAGCTGCGAGGTGCCAACAAGGCTAAATCTGCATCCCTCAAACAGCCTTATATCACT
CAGAATTATTTCCAGTCGGTACTGTTGTGGAATATGAGTGCCGTCAGGTTACAGAAGAGAACCTTCT
CTATACCAAAAACCTAAGTTCGCTTACAGAAATTTAAATGGTCCACAGCAGTCAATTTTGTAAAAAGAAA
TCATGCCCTAATCCGGGAGAAATACGAAATGGTCAGATTGATGTACCAGGTGGCATATTATTTGGTGCA
ACCATCTCCTTCTCATGTAACACAGGGTACAAATATTTGGCTCGACTTCTAGTTTTTGTCTTATTTCA
GGCAGCTCTGTCCAGTGGAGTGACCCGTTGCCAGAGTGCAGAGAAATTTATTGTCCAGCACCACCACAA
ATTGACAATGGAATAATCAAGGGGAACGTGACCATTATGGATATAGACAGTCTGTAACGTATGCATGT
AATAAAGGATTCACCATGATTGGAGAGCACTCTATTTATTGTACTGTGAATAATGATGAAGGAGAGTGG
AGTGGCCACCACCTGAATGCAGAGGAAAATCTCTAAGTCCCAAGTCCCACCAACAGTTTCAGAAACCT
ACCACAGTAAATGTTCCAACTACAGAAGTCTCACCAACTCTCAGAAAACCACCACAAAACCACCACA
CCAAATGCTCAAGCAACACGGAGTACACCTGTTTCCAGGACAACCAAGCATTTTTCATGAAACAACCCCA
AATAAAGGAAGTGAACCACTTCAGGTAACCGTCTTCTATCTGGTTCTCGTCTGTCAACCCAGGCT
GGTATGCGGTGGTGTGATCGTAGCTCACTGCAGTCTCGAACTCCTGGTTCAAGCGATCCTTCCACTTC
AGCCTCCAAGTAGCTGGTACTACAGGGCACACGTGTTTACGTTGACAGGTTTGCTTGGGACGCTAGT
AACCATGGGCTTGCTGACTTAGCCAAAGAAGAGTTAAGAAGAAAATACACACAAGTATACAGACTGTTCC
CTAGTTTCTTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001114752
Insert Size:	1323 bp
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:	<ol style="list-style-type: none"> 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:	<u>NM_001114752.2</u>
RefSeq Size:	2914 bp
RefSeq ORF:	1323 bp
Locus ID:	1604
UniProt ID:	<u>P08174</u>
Cytogenetics:	1q32.2
Protein Families:	Druggable Genome
Protein Pathways:	Complement and coagulation cascades, Hematopoietic cell lineage, Viral myocarditis
MW:	48.7 kDa

Gene Summary:

This gene encodes a glycoprotein involved in the regulation of the complement cascade. Binding of the encoded protein to complement proteins accelerates their decay, thereby disrupting the cascade and preventing damage to host cells. Antigens present on this protein constitute the Cromer blood group system (CROM). Alternative splicing results in multiple transcript variants. The predominant transcript variant encodes a membrane-bound protein, but alternatively spliced transcripts may produce soluble proteins. [provided by RefSeq, Jul 2014]

Transcript Variant: This variant (2) contains an alternate exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (2, also known as sDAF or soluble DAF) has a distinct C-terminus and is longer than isoform 1. Sequence Note: This RefSeq record represents the CD55*001.1.1 allele.