

Product datasheet for **RG201615**

CD55 (NM_000574) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD55 (NM_000574) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CD55
Synonyms:	CHAPLE; CR; CROM; DAF; TC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201615 representing NM_000574 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGTCGCGCGGCCGAGCGTGCCCGCGGCGCTGCCCTCCTCGGGGAGCTGCCCGGCTGCTGCTGC
TGGTGCTGTTGTGCCTGCCGCGCGTGTGGGGTACTGTGGCCTCCCCAGATGTACCTAATGCCAGCC
AGCTTTGGAAGGCCGTACAAGTTTTCCCGAGGATACTGTAATAACGTACAAATGTGAAGAAAGCTTTGTG
AAAATTCCTGGCAGAAGGACTCAGTGATCTGCCTTAAGGGCAGTCAATGGTCAGATATTGAAGAGTTCT
GCAATCGTAGCTGCGAGGTGCCAACAAGCTAAATTCGCATCCCTCAAACAGCCTTATATCACTCAGAA
TTATTTCCAGTCGGTACTGTTGTGGAATATGAGTGCCGTCAGGTTACAGAAGAGAACCTTCTCTATCA
CCAAAATAAATTGCCTTCAAGATTTAAAATGGTCCACAGCAGTCGAATTTGTAAAAAGAAATCATGCC
CTAATCCGGGAGAAAATACGAAATGGTCAGATTGATGTACCAGGTGGCATATTATTTGGTGAACCATCTC
TTCTCATGTAACACAGGGTACAAATATTTGGCTCGACTTCTAGTTTTGTCTTATTTCCAGGCAGCTCT
GTCCAGTGGAGTGACCCGTTGCCAGAGTGCAGAGAAATTTATTGTCCAGCACCACCACAAATTGACAATG
GAATAATCAAGGGGAACGTGACCATTATGGATATAGACAGTCTGTAACGTATGCATGTAATAAAGGATT
CACCATGATTGGAGAGCACTCTATTTATGTACTGTGAATAATGATGAAGGAGAGTGGAGTGGCCACCA
CCTGAATGCAGAGGAAAATCTCTAACTTCCAAGTCCCACCAACAGTTCAGAAACCTACCACAGTAAATG
TTCCAACTACAGAAGTCTCACAACTTCTCAGAAAACCACACAAAACCACCACAAATGCTCAAGC
AACACGGAGTACACCTGTTTCCAGGACAACCAAGCATTTTCATGAAACAACCCCAATAAAGGAAGTGG
ACCACTTCAGGTACTACCCGCTTCTATCTGGGCACACGTGTTTCACGTTGACAGTTTGCTTGGGACGC
TAGTAACCATGGGCTTGCTGACT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201615 representing NM_000574
 Red=Cloning site Green=Tags(s)

MTVARPSVPAALPLLGLPRLLLLVLCLPAVWGDCLPPDVPNAQPALEGRTSFPEDTVITYKCEESFV
 KIPGEKDSVICLKGSQWSDIEEFCNRSCEVPTRLNSASLKQPYITQNYFPVGTVEYECRPGYRREPSLS
 PKLTCLQNLKWSTAVEFCKKSCPNPGEIRNGQIDVPGGILFGATISFSCNTGYKLFGSTSSFCLISGSS
 VQWSDPLPECREIYCPAPPQIDNGIIQGERDHYGYRQSVTYACNKGFTMIGEHSIYCTVNNDEGEWSGPP
 PECRGKSLTSKVPPTVQKPTTVNVPTEVSPTSQKTTTCTTPNAQATRSTPVSRTTKHFHETTPNKGSG
 TTSGTTRLLSGHTCFTLTGLLGLVTMGLLT

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000574

ORF Size: 1143 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.

RefSeq: [NM_000574.5](#)

RefSeq Size: 2308 bp

RefSeq ORF: 1146 bp

Locus ID: 1604

UniProt ID: [P08174](#)

Cytogenetics: 1q32.2

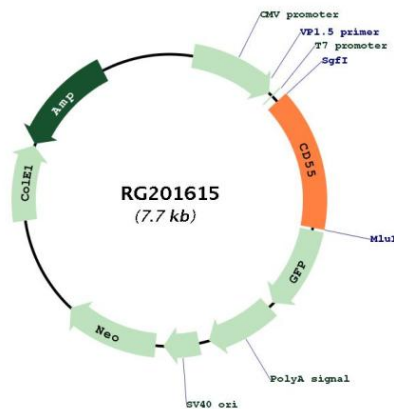
Domains: CCP

Protein Families: Druggable Genome

Protein Pathways: Complement and coagulation cascades, Hematopoietic cell lineage, Viral myocarditis

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]

Product images:



Circular map for RG201615