

Product datasheet for **RG225721**

CD55 (NM_001114752) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD55 (NM_001114752) 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:	>RG225721 representing NM_001114752 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCGTCGCGCGGCCGAGCGTGCCCGCGGCGCTGCCCTCCTCGGGGAGCTGCCCGGCTGCTGCTGC
TGGTGCTGTTGTGCCTGCCGCGCGTGTGGGGTACTGTGGCCTTCCCCAGATGTACCTAATGCCAGCC
AGCTTTGGAAGGCCGTACAAGTTTTCCCGAGGATACTGTAATAACGTACAAATGTGAAGAAAGCTTTGTG
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GCAATCGTAGCTGCGAGGTGCCAACAAGGCTAAATTCGCATCCCTCAAACAGCCTTATATCACTCAGAA
TTATTTCCAGTCGGTACTGTTGTGGAATATGAGTGCCGTCAGGTTACAGAAGAGAACCTTCTCTATCA
CCAAAATAAATTGCCTTCAAGATTTAAAATGGTCCACAGCAGTCGAATTTGTAAAAAGAAATCATGCC
CTAATCCGGGAGAAAATACGAAATGGTCAGATTGATGTACCAGGTGGCATATTATTTGGTGAACCATCTC
TTCTCATGTAACACAGGATACAAATATTTGGCTCGACTTCTAGTTTTGTCTTATTTCCAGGCAGCTCT
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TTCAAATAACAGAAAGTCTCACTCACTTCTCAGAAAACCACAAAAACCACCACAAATGCTCAAGC
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ACCACTTCAGGACTACCCGCTTCTATCTGGTCTCGTCTGTCAACCCAGGCTGGTATGCGGTGGTGTG
ATCGTAGCTCACTGCAGTCTCGAACTCCTGGGTTCAAGCGATCCTTCCACTTCAGCCTCCCAAGTAGCTG
GTACTACAGGGCACACGTGTTTACGTTGACAGGTTTGTGGGACGCTAGTAACCATGGGCTTGTCTGAC
TTAGCCAAAGAAGAGTTAAGAAGAAAATACACACAAGTATACAGACTGTTCTAGTTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225721 representing NM_001114752
 Red=Cloning site Green=Tags(s)

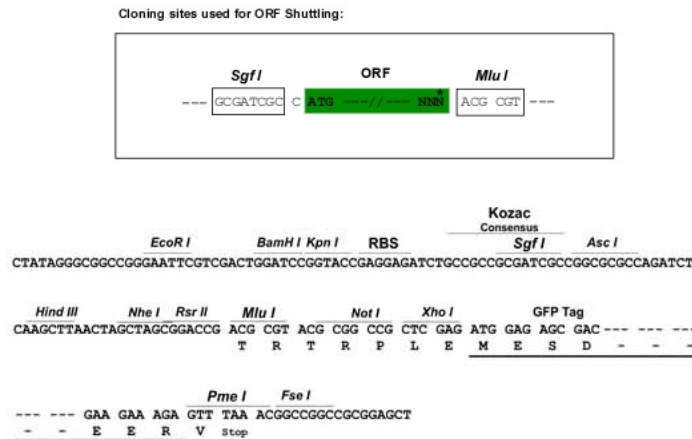
MTVARPSVPAALPLLGLPRLLLLVLCLPAVWGDCGLPPDVPNAQPALEGRTSFPEDTVITYKCEESFV
 KIPGEKDSVICLKGSQWSDIEEFCNRSCEVPTRLNSASLKQPYITQNYFPVGTVVEYECRPGYRREPSLS
 PKLTCLQNLKSTAVEFCKKSCPNGEIRNGQIDVPGGILFGATISFSCNTGYKLFGSTSSFCLISGSS
 VQWSDPLPECREIYCPAPPQIDNGIIQGERDHYGYRQSVTYACNKGFMTMIGEHSIYCTVNNDEGEWSGPP
 PECRGLSLTSKVPPTVQKPTTVNVPTEVSPTSQKTTTCTTPNAQATRSTPVSRTTKHFHETTPNKGSG
 TTSGTTRLLSGSRPVTQAGMRWCDRSSLQSRTPGFKRSFHFSLPSSWYYRAHVHVDRAWDASNHGLAD
 LAKEELRRKYTVYRFLVLS

TRTRPLE - GFP Tag - V

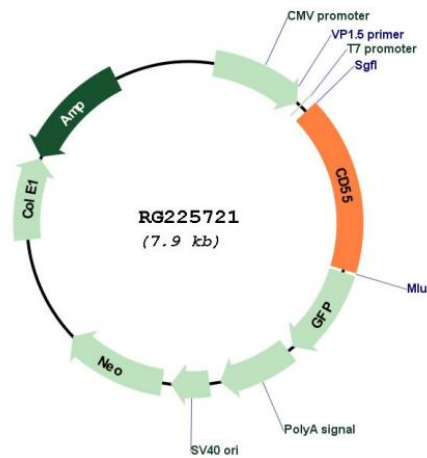
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001114752

ORF Size:	1320 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:	<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:	NM_001114752.3
RefSeq Size:	2930 bp
RefSeq ORF:	1323 bp
Locus ID:	1604
UniProt ID:	P08174
Cytogenetics:	1q32.2
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]