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Product datasheet for SC119802

CD55 (NM_000574) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD55 (NM_000574) Human Untagged Clone
Tag:	Tag Free
Symbol:	CD55
Synonyms:	CHAPLE; CR; CROM; DAF; TC
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC119802 sequence for NM_000574 edited (data generated by NextGen Sequencing)

ATGACCGTCGCGCGGCCGAGCGTGCCCGCGGCGCTGCCCCTCCTCGGGGAGCTGCCCCGG
CTGCTGCTGCTGGTGCTGTTGTGCCTGCCGGCCGTGTGGGGTGACTGTGGCCTTCCCCCA
GATGTACCTAATGCCCAGCCAGCTTTGGAAGGCCGTACAAGTTTTCCCGAGGATACTGTA
ATAACGTACAAATGTGAAGAAAGCTTTGTGAAAATTCCTGGCGAGAAGGACTCAGTGATC
TGCCTTAAGGGCAGTCAATGGTCAGATATTGAAGAGTTCTGCAATCGTAGCTGCGAGGTG
CCAACAAGGCTAAATTCTGCATCCCTCAAACAGCCTTATATCACTCAGAATTATTTTCCA
GTCGGTACTGTTGTGGAATATGAGTGCCGTCCAGGTTACAGAAGAGAACCTTCTCTATCA
CCAAAACTAACTTGCCTTCAGAATTTAAAATGGTCCACAGCAGTCGAATTTTGTAAAAAG
AAATCATGCCCTAATCCGGGAGAAATACGAAATGGTCAGATTGATGTACCAGGTGGCATA
TTATTTGGTGCAACCATCTCCTTCTCATGTAACACAGGGTACAAATTATTTGGCTCGACT
TCTAGTTTTTGTCTTATTTCAGGCAGCTCTGTCCAGTGGAGTGACCCGTTGCCAGAGTGC
AGAGAAATTTATTGTCCAGCACCACCACAAATTGACAATGGAATAATTCAAGGGGAACGT
GACCATTATGGATATAGACAGTCTGTAACGTATGCATGTAATAAAGGATTCACCATGATT
GGAGAGCACTCTATTTATTGTACTGTGAATAATGATGAAGGAGAGTGGAGTGGCCCACCA
CCTGAATGCAGAGGAAAATCTCTAACTTCCAAGGTCCCACCAACAGTTCAGAAACCTACC
ACAGTAAATGTTCCAACTACAGAAGTCTCACCAACTTCTCAGAAAACCACCACAAAAACC
ACCACACCAAATGCTCAAGCAACACGGAGTACACCTGTTTCCAGGACAACCAAGCATTTT
CATGAAACAACCCCAAATAAAGGAAGTGGAACCACTTCAGGTACTACCCGTCTTCTATCT
GGGCACACGTGTTTCACGTTGACAGGTTTGCTTGGGACGCTAGTAACCATGGGCTTGCTG
ACTTAG

Clone variation with respect to NM_000574.3

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000574 unedited
CGTCAAAATTTGTATACGACTCATATAGGGCGGCCGCGAATTCGCACGAGGCGGCGCGTC
CTTGTTCTAACCCGGCGCGCCATGACCGTCGCGCGGCCGAGCGTGCCCGCGGCGCTGCCC
CTCCTCGGGGAGCTGCCCCGGCTGCTGCTGCTGGTGCTGTTGTGCCTGCCGGCCGTGTGG
GGTGACTGTGGCCTTCCCCCANTGTACCTAATGCCCAGCCAGCTTTGGAAGGCCGTACAA
GTTTTCCCGAGGATACTGTAATAACGTACAAATGTGAAGAAAGCTTTGTGAAAATTCCTG
GCGAGAAGGACTCAGTGATCTGCCTTAAGGGCAGTCAATGGTCAGATATTGAAGAGTTCT
GCAATCGTAGCTGCGAGGTGCCAACAAGGCTAAATTCTGCATCCCTCAAACAGCCTTATA
TCACTCAGAATTATTTTCCAGTCGGTACTGTTGTGGAATATGAGTGCCGTCCAGGTTACA
GAAGAGAACCTTCTCTATCACCAAAACTAACTTGCCTTCAGAATTTAAAATGGTCCACAG
CAGTCGAATTTTGTAAAAAGAAATCATGCCCCTATCCGGGAGANATACGAAATGGTCAGA
TTGATGTACCAGGTGGCATATTATTTGGTGCCACCATCTCCTTCTCATGTAACACAGGNT
ACAAATTTATTGGGCTCGACTTCTAGTTTTTGTCTTATTTCAGGCAGCTCTGTCCAGTGG
AGTGACCCGTTTGCCAGAGTGCAGAGNAAATTTATTGTCCACCACACCCACAAATTGACC
ATGGNATAATTCAGGGGGGACGTGACCATTATGGATATAGACAGTCTGTAACGTATTGCC
ATGTATAAAGGATTCCCATTGATGGAAAGCCCTCCATTTAATTGACTGGGAATATGATGA
AAGAAATTGGAATGGCCCACCACCTGAATGCCAAGGAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000574 unedited
CTCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTACCCAAAAAAGGGACCTTTTTTTTTTTTTTAAGAAAAA
ACATTTTTTTTAACAAATTTTCTTAAACTTTTTTTGTTTTACATGAAAAACCAAAAGGGC
CCCTGGCTTAAATAAATTTAAATAAATTTTCCAAAAAAATAAAATTTCCAATTTTGCCTT
TGGCCCTCTCGATTAAAAAAAAAAAAAAAAATCTTTTTTTATGTAAAAATGGGAATACCCC
GGGATCCTTTTAAAAACTTTAAGCCAAAAAAAACCCCTTTCAAAGGCTTTTTCCAAACTT
TTTTTGGGCAACAAAGGAAAATTCAGTCTTTCATTTTATTTTCCCCCCTTATAACCATAA
ACCCCCCGGGTTCACCAACATGTTTTACCTTTAAAATTTTTGGCCACCCCGAAGGAAAAA
TAAAAATGCCTTACCCCCAAAAATTCCTTTATAAGGGGGGCCATCTCTCTTTAACAATTT
TGCTTAAAAAAAACTGAATGGGGTTTTTATTTGCTTTGGAAAACCAAAAAAGGGTTTTCA
TTTTTTATTCCCTTTATAAGGGGAAATAACCTTCCAAATCTTGGGGAAAAAAAACCTTTC
CTTTTTTTTTCCCGGGGACCCCTTTTTAAATAAAAACAAATTCCTATGCTTTTTTACCCT
TTTAGGAAAGAGAACACCCTCATTTCTGCAAGTTGTTCTTTTTTCAAAAGGGGGAGGGGG
GCTAAAAAAGGGATCCCAGAACTGCCTTTTTTCCCCTGCCCTGGGGAACTTCCCAACCAC
ATCTTAAAGACATGAAACGCTTCCTAAAGAAAGAACCCAGTTGCTTTTTTTTTTCCAATT
GCCAAAAAGTTTAAAAAACTGGAAACAGCCGTATCTCTGGTGTTTCTTTTC

Restriction Sites: NotI-NotI

ACCN: NM_000574

Insert Size: 2310 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).

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_000574.2, NP_000565.1
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] Transcript Variant: This variant (1) encodes isoform 1 (also known as gDAF), which is membrane-associated. Sequence Note: This RefSeq record represents the CD55*001.1.1 allele.