

Product datasheet for MR206092

Cd55 (NM_010016) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd55 (NM_010016) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cd55
Synonyms:	Daf; Daf-; Daf-GPI; Daf1; GPI-; GPI-DAF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206092 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCGTGGGCGGCCCTAGGACTCGGCCATCACCGCCGCTCCGCTGCTGCCGTTGCTGTCGCTGT
CTCTGTTGCTGCTGTCCCAACTGTACGCGGAGACTGCGGCCACCTCCAGACATTCCTAATGCCAGGCC
AATCTTGGGCAGACACTCAAGTTTGTGAGCAAAGCAAAGTGGCATACTCGTGAATAACGGCTTTAAA
CAAGTTCCAGACAAGTCAAACATAGTTGTCTGTCTTGAAATGGCCAATGGTCGAGCCACGAAACATTCT
GTGAGAAATCACTTGTGCTCCAGAAAGACTGAGTTTTGCATCCCTCAAAAAGAGTACCTCCACATGAA
TTTTTTCCAGTTGGTACTATTGTGGAATATGAGTGTGCGCCAGGATTCGAAAACAACCTCCACTCCCA
GGAAAATCAACTTGCCTTGGAGATTTAGTATGGTCTCCAGTTGCTCAGTTTTGTAATAAAAAAATCATGCC
CTAATCTAAAGATCTGGATAATGGTCACATCAACATACCAACCGGCATATTATTCGGTTTCAGAAATAAA
CTTCTCATGCAACCCAGGGTACAGGCTAGTTGGTGTCTCTCTACTTTCTGTTCTGTACAGGAAATACT
GTTGATTGGGACGATGAGTTTCCAGTGTGCACAGAAATACATTGTCCAGAGCCACCAAAAATCAACAATG
GAATAATGCGAGGGGAAAGTGACTCTTATACGTATAGCCAGGTGGTCACCTATTCATGTGACAAAGGCTT
CGTCTGGTTGAAATGCTAGCATTTATGTACTGTGAGCAAGTCTGATGTAGGACAATGGAGCAGTCCA
CCACCCGGTGCATAGAGAAATCCAAGTCCCAACGAAGAAACCAACAATTAATGTTCCAAGTACAGGAA
CCCCCTCAACGCCTCAGAAACCCACACTAGAAAGTGTTCCAAATCCAGGAGACCAACCAACTCCTCAGAA
ACCTTCCACAGTTAAAGTTTCAGCAACCCAGCATGTACCTGTTACCAAGCAACAGTACGTCATCCAATA
AGAACATCTACAGACAAAGGAGAGCCTAACACAGGTGGTGACCGTTATATATATGGACATACATGTTTAA
TAACCTTGACAGTTTTGCATGCGATGCTATCACTATTGGCTACTTGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206092 protein sequence
 Red=Cloning site Green=Tags(s)

MIRGRAPRTRPSPPPPLLLSLSLLLLSPTVRGDCGPPPDIPNARPILGRHSKFAEQSKVAYSCNNGFK
 QVPDKSNIVVCLENGQWSSHETFCEKSLVAPERLSFASLKKEYLHMNFFPVGTIVEYECRPGFRKQPPLP
 GKSTCLEDLVWSPVAQFCKKSCPNPKDLNNGHINIPTGILFGSEINFSCNPGYRLVGVSSSTFCVSTGNT
 VDWDDEFVCTEIHCPPEPKINNGIMRGESDSYTYSQVVTYSCDKGFVLVGNASIYCTVSKSDVGVQWSSP
 PPRCIEKSKVPTKKPTINVPSTGTPSTPQKPTLESVNPNGDQPTPQKSTVKVSATQHVPVTKTTVRHPI
 RTSTDKGEPNTGGDRYIYGHTCLITLTVLHAML SLIGYLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010016

ORF Size: 1173 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_010016.1](#), [NM_010016.2](#), [NM_010016.3](#), [NP_034146.2](#)

RefSeq Size: 2527 bp

RefSeq ORF: 1173 bp

Locus ID: 13136

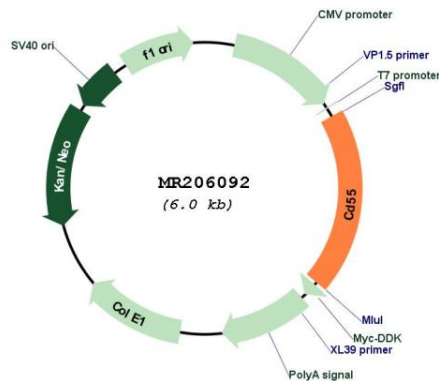
UniProt ID: [Q61475](#)

Cytogenetics: 1 56.89 cM

MW: 42.6 kDa

Gene Summary: This gene encodes an inhibitor of both the classical and the alternative pathways of complement activation. The encoded preproprotein undergoes post-translational processing to generate a mature polypeptide anchored to the plasma membrane via a glycosylphosphatidylinositol moiety. Erythrocytes from mice deficient in the encoded protein exhibit impaired regulation of complement activation resulting in enhanced complement deposition. Mice lacking the encoded protein exhibit enhanced susceptibility to experimentally induced myasthenia gravis. This gene is located adjacent to a closely related gene on chromosome 1. [provided by RefSeq, Nov 2015]

Product images:



Circular map for MR206092