

Product datasheet for **RC222108**

CERT1 (NM_005713) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CERT1 (NM_005713) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CERT1
Synonyms:	CERT; CERTL; COL4A3BP; GPBP; MRD34; STARD11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222108 representing NM_005713
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGATAATCAGAGCTGGAACCTCGTCGGGCTCGGAGGAGGATCCAGAGACGGAGTCTGGGCCGCTG
 TGGAGCGCTGCGGGTCCCTCAGTAAGTGGACAACTACATTCATGGGTGGCAGGATCGTTGGGTAGTTTT
 GAAAAAATAGTCTCTGAGTTACTACAACTCTGAAGATGAAACAGAGTATGGCTGCAGAGGATCCATCTGT
 CTTAGCAAGGCTGTCATCACACCTCACGATTTTGTGAATGTCGATTTGATATTAGTGAAATGATAGTG
 TTTGGTATCTTCGTGCTCAGGATCCAGATCATAGACAGCAATGGATAGATGCCATTGAACAGCACAAAGC
 TGAATCTGGATATGGATCTGAATCCAGCTTGCCTCGACATGGCTCAATGGTGTCCCTGGTGTCTGGAGCA
 AGTGGCTACTCTGCAACATCCACCTCTTCATTCAAGAAAGGCCACAGTTTACGTGAGAAGTTGGCTGAAA
 TGGAAACATTTAGAGACATCTTATGTAGACAAGTTGACACGCTACAGAAGTACTTTGATGCCTGTGCTGA
 TGCTGTCTCTAAGGATGAACTTCAAAGGATAAAGTGGTAGAAGATGATGAAGATGACTTTCCTACAACG
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 AAGGAATTAATGGTATAGACTTTAAAGGGGAAGCGATAACTTTTAAAGCAACTACTGCTGGAATCCTTGC
 AACACTTTCTCATTGTATTGAACTAATGGTTAAACGTGAGGACAGCTGGCAGAAGAGACTGGATAAGGAA
 ACTGAGAAGAAAAAGAAGAACAGAGGAAGCATATAAAAAATGCAATGACAGAAGTAAAGAAAAATCCCACT
 TTGGAGGACCAGATTATGAAGAAGGCCCTAACAGTCTGATTAATGAAGAAGAGTTCTTTGATGCTGTTGA
 AGCTGCTCTTGACAGACAAGATAAAATAGAAGAACAGTCACAGAGTAAAAGGTGAGATTACATTGGCCT
 ACATCCTTGCCCTCTGGAGATGCCTTTTCTTCTGTGGGACACATAGATTTGTCCAAAAGCCCTATAGTC
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 TGCTCCTTAACAACCGATGTGTCCGTGCCAAAATAAATGTTGCTATGATTTGCAAACCTTGTAAGC
 CCACCAGAGGAAACCAGGAAATTAGCAGGGACAACATTTCTATGCAAGATTACATATGTAGCTAATGTGA
 ACCCTGGAGGATGGGCACCAGCCTCAGTGTAAAGGGCAGTGGCAAAGCGAGAGTATCCTAAATTTCTAAA
 ACGTTTTACTTCTTACGTCCAAGAAAAAAGTGCAGGAAAGCCTATTTTGTTC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

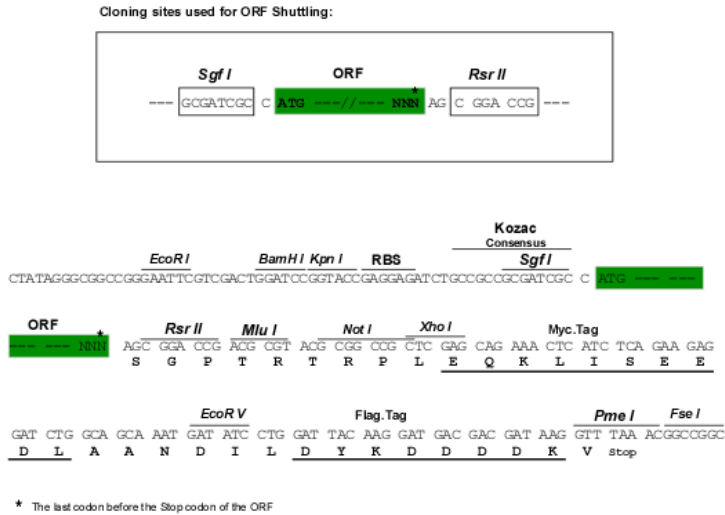
>RC222108 representing NM_005713
 Red=Cloning site Green=Tags(s)

MSDNQSWNSSGSEEDPETESGPPVERCGVL SKWTNYIHGWQDRWVVLKNNALSYKSEDETEYGCGRSIC
 LSKAVITPHDFDECRFDISVNDVWYLRAQDPDHRQQWIDAIEQHKTESGYGSESSLRRHGMVSLVSGA
 SGYSATSTSSFKKGHSLREKLAEMETFRDILCRQVDTLQKYFDACADAVSKDELQRDKVVEDDEDDFPTT
 RSDGDFLHSTNGNKEKLFPHVTPKINGIDFKGEAITFKATTAGILATLSHCIELMVKREDSWQKRLDKE
 TEKKRRTEEAYKNAMTELKKKSHFGPDYEEGPNSLINEEEFFDAVEAALDRQDKIEEQSQSEKVRHLHP
 TSLPSGDAFSSVGTHRFVQKPYSRSSMSIDLVSASDDVHRFSSQVEEMVQNHMTYSLQDVGGDANWQL
 VVEEGEMKVYRREVEENIGVLDPLKATHAVKGVGTGHEVCNYFWNVDRNDWETTIENTFHVETLADNAII
 IYQTHKRVPASQRDVLVLSVIRKIPALTENDPETWIVCNFSDVHDSAPLNNRCVRAKINVAMICQTLVS
 PPEGNQEISRDNILCKITYVANVNPGGWAPASVLRRAVAKREYPKFLKRFTSYVQEKTAGKPILF

SGP**TRRRLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_005713

ORF Size: 1872 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_005713.3](#)

RefSeq Size: 2389 bp

RefSeq ORF: 1875 bp

Locus ID: 10087

UniProt ID: [Q9Y5P4](#)

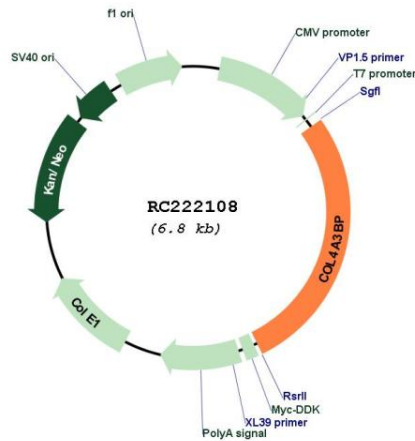
Cytogenetics: 5q13.3

Domains: PH, START

MW: 70.7 kDa

Gene Summary: This gene encodes a kinase that specifically phosphorylates the N-terminal region of the non-collagenous domain of the alpha 3 chain of type IV collagen, known as the Goodpasture antigen. Goodpasture disease is the result of an autoimmune response directed at this antigen. One isoform of this protein is also involved in ceramide intracellular transport. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222108