

Product datasheet for **RG200316**

CERT1 (NM_031361) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CERT1 (NM_031361) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CERT1
Synonyms:	CERT; CERTL; COL4A3BP; GPBP; MRD34; STARD11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200316 representing NM_031361
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGATAATCAGAGCTGGAACCTCGTCGGGCTCGGAGGAGGATCCAGAGACGGAGTCTGGGCCGCTG
 TGGAGCGCTGCGGGTCCCTCAGTAAGTGGACAACTACATTCATGGGTGGCAGGATCGTTGGGTAGTTTT
 GAAAAAATAGTCTGAGTTACTACAACTCTGAAGATGAAACAGAGTATGGCTGCAGAGGATCCATCTGT
 CTTAGCAAGGCTGTCATCACACCTCACGATTTTGATGAATGTCGATTTGATATTAGTGATAATGATAGTG
 TTTGGTATCTTCGTGCTCAGGATCCAGATCATAGACAGCAATGGATAGATGCCATTGAACAGCACAAGAC
 TGAATCTGGATATGGATCTGAATCCAGCTTGCCTCGACATGGCTCAATGGTGTCCCTGGTGTCTGGAGCA
 AGTGGCTACTCTGCAACATCCACCTCTTCATTCAAGAAAGGCCACAGTTTACGTGAGAAGTTGGCTGAAA
 TGGAAACATTTAGAGACATCTTATGTAGACAAGTTGACACGCTACAGAAGTACTTTGATGCCTGTGCTGA
 TGCTGTCTCTAAGGATGAACTTCAAAGGGATAAAGTGGTAGAAGATGATGAAGATGACTTTCCTACAACG
 CGTTCTGATGGTGACTTCTTGCATAGTACCAACGGCAATAAAGAAAAGTTATTTCCACATGTGACACCAA
 AAGGAATTAATGGTATAGACTTTAAAGGGGAAGCGATAACTTTTAAAGCAACTACTGCTGGAATCCTTGC
 AACACTTTCTCATTGTATTGAACTAATGGTTAAACGTGAGGACAGCTGGCAGAAGAGACTGGATAAGGAA
 ACTGAGAAGAAAAGAAGAAGAGGAGCATATAAAAAATGCAATGACAGAACTTAAGAAAAATCCCACT
 TTGGAGGACCAGATTATGAAGAAGGCCCTAACAGTCTGATTAAATGAAGAAGAGTTCTTTGATGCTGTTGA
 AGCTGCTCTTGACAGACAAGATAAAATAGAAGAAGTACAGAGTGAAAAGGTGAGATTACATTGGCCT
 ACATCCTTGCCCTCTGGAGATGCCTTTTCTTCTGTGGGACACATAGATTTGTCCAAAAGGTTGAAGAGA
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 ACTGGGAAACACTATAGAAAACCTTTCATGTGGTGGAAACATTAGCTGATAATGCAATCATCATTATCA
 AACACACAAGAGGGTGTGGCCTGCTTCTCAGCGAGACGTATTATCTTTCTGTCATTGCAAGATACCA
 GCCTTGACTGAAAATGACCCTGAACTTGGATAGTTTGAATTTTCTGTGGATCATGACAGTGCTCCTC
 TAAACAACCGATGTGTCGTGCCAAAATAAATGTTGCTATGATTTGTCAAACCTTGGTAAGCCCACCAGA
 GGGAAACCAGGAAATTAGCAGGGACAACATTCTATGCAAGATTACATATGTAGCTAATGTGAACCTGGA
 GGATGGGCACCAGCCTCAGTGTTAAGGGCAGTGGCAAAGCGAGAGTATCCTAAATTTCTAAAACGTTTTA
 CTTCTTACGTCCAAGAAAAAACTGCAGGAAAGCCTATTTTGTTT

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

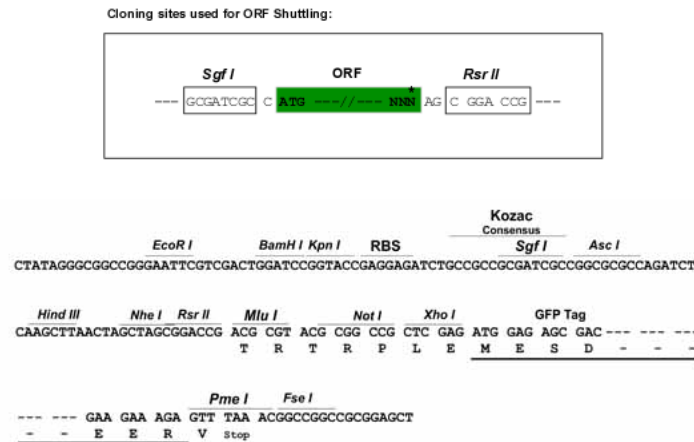
>RG200316 representing NM_031361
 Red=Cloning site Green=Tags(s)

MSDNQSWNSSGSEEDPETESGPPVERCGVLKWTNYIHGWQDRWVVLKNNALSYKSEDETEYGCRGSIC
 LSKAVITPHDFDECRFDISVNDVWYLRAQDPDHRQQWIDAIEQHKTESGYGSESSLRRHGSMVSLVSGA
 SGYSATSTSSFKKGHSLREKLAEMETFRDILCRQVDTLQKYFDACADAVSKDELQRDKVEDDEDFFPTT
 RSDGDFLHSTNGNKEKLFPHVTPKINGIDFKGEAITFKATTAGILATLSHCIELMVKREDSWQKRLDKE
 TEKKRRTEEAYKNAMTELKKKSHFGGPDYEEGPNSLINEEEFFDAVEAALDRQDKIEEQSQSEKVRHLWP
 TSLPSGDAFSSVGTHRFVQKVEEMVQNHMTYSLQDVGGDANWQLVVEEGEMKVYRREVEENGIVLDPLKA
 THAVKGVGTGHEVCNFWNVDRNDWETTIEFHVETLADNAIIYQTHKRVWPASQRDVLVLSVIRKIP
 ALTENDPETWIVCNFSVDHDSAPLNNRCVRAKINVAMICQTLVSPPEGNQEISRDNILCKITYVANVNP
 GWAPASVLRVAKREYPKFLKRFTSYVQEKTAGKPILF

SGPTRRRLE – GFP Tag – V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: NM_031361

ORF Size: 1794 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_031361.3](#)

RefSeq Size: 2311 bp

RefSeq ORF: 1797 bp

Locus ID: 10087

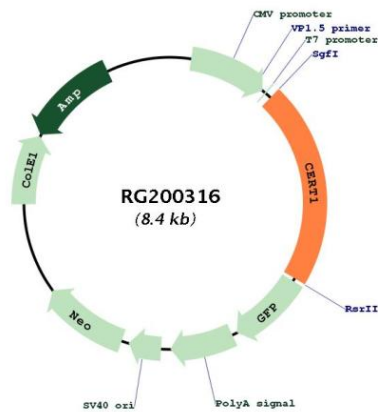
UniProt ID: [Q9Y5P4](#)

Cytogenetics: 5q13.3

Domains: PH, START

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 RG200316