

Product datasheet for **RG226135**

CERT1 (NM_001130105) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CERT1 (NM_001130105) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG226135 representing NM_001130105
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGCACAGCTGCATCCCTACCCCGCCCTCTCCTTTCTCCGCTCCTCCTGCTTTTCTACCCGTCGTCA
 CCCGGGAGAGCCGGAGGGGGCTAAGTTCGGGTGGCAGCGCCGGGCGCAACGCAGGGGTACGGCGACGGC
 GGCGGGCGCTGACGGCTGGAAGGGTAGGCTTCCTTACCAGCTCGTCTCCTTCTCGCTCCGCTCGGTGT
 CAGGCGCGGGCGGCGCGGGCGGACTTCGTCCCTCCTCCTGCTCCCCCACACGGAGCGGGCAC
 TCTTCGTTCCGCATCCCCGACCCTTACCCCGAGGACTGGGCGCTCCTCCGGCGCAGCTGAGGGAGC
 GGGGGCCGGTCTCCTGCTCGTTGTGAGCCTCCATGTCGGATAATCAGAGCTGGAACCTCGTCGGGCTCG
 GAGGAGGATCCAGAGACGGAGTCTGGGCCCTGTGGAGCGCTCGGGGTCTCAGTAAGTGACAACT
 ACATTCATGGGTGGCAGGATCGTTGGGTAGTTTAAAAATAATGCTCTGAGTTACTACAACTCTGAAGA
 TGAACAGAGTATGGCTGCAGAGGATCCATCTGTCTTAGCAAGGCTGTCATCACACCTCAGATTTTGAT
 GAATGTCGATTTGATATTAGTGTAAATGATAGTGTGGTATCTTCGTGCTCAGGATCCAGATCATAGAC
 AGCAATGGATAGATGCCATTGAACAGCACAAGACTGAATCTGGATATGGATCTGAATCCAGCTTGCCTCG
 ACATGGCTCAATGGTGTCCCTGGTGTCTGGAGCAAGTGGCTACTCTGCAACATCCACCTTCTCATTCAAG
 AAAGGCCACAGTTTACGTGAGAAGTTGGCTGAAATGGAACATTTAGAGACATCTTATGTAGACAAGTTG
 ACACGCTACAGAAGTACTTTGATGCCTGTGCTGATGCTGTCTTAAGGATGAACCTCAAAGGGATAAAGT
 GGTAGAAGATGATGAAGTACTTTCTACAACGCTTCTGATGGTGACTTCTTGCATAGTACCAACGGC
 AATAAAGAAAAGTTATTTCCACATGTGACACAAAAGAAATTAATGGTATAGACTTTAAAGGGGAAGCGA
 TAACTTTAAAGCAACTACTGCTGGAATCCTTGAACACTTTCTCATTGTATTGAACATAATGGTTAAACG
 TGAGGACAGCTGGCAGAAGAGACTGGATAAGGAAACTGAGAAGAAAAGAAGAACAGAGGAAGCATATAAA
 AATGCAATGACAGAACTTAAGAAAAATCCCACTTTGGAGGACCAGATTATGAAGAAGGCCCTAACAGTC
 TGATTAATGAAGAAGAGTTCTTTGATGCTGTTGAAGCTGCTTTGACAGACAAGATAAAATAGAAGAACA
 GTCACAGAGTAAAAGGTGAGATTACATTGGCCTACATCCTTGCCTCTGGAGATGCCTTTTCTTCTGTG
 GGGACACATAGATTTGTCCAAAAGCCCTATAGTCGCTCTTCTCCATGTCTTCCATTGATCTAGTCAGTG
 CCTCTGATGATGTTACAGATTCAGCTCCAGGTTGAAGAGATGGTGCAGAACCACATGACTTACTCATT
 ACAGGATGTAGGCGGAGATGCCAATTGGCAGTTGGTTGTAGAAGAAGGAGAAATGAAGGTATACAGAAGA
 GAAGTAGAAGAAAATGGGATTGTTCTGGATCCTTTAAAAGCTACCCATGCAGTTAAAGGCGTCACAGGAC
 ATGAAGTCTGCAATTATTTCTGGAATGTTGACGTTTCGCAATGACTGGGAAACAACATATAGAAAACCTTCA
 TGTGGTGGAAACATTAGCTGATAATGCAATCATCATTTATCAAACACACAAGAGGGTGTGGCCTGCTTCT
 CAGCGAGACGTATTATATCTTTCTGTCATTTCGAAAGATACCAGCCTTGACTGAAAATGACCTGAAACTT
 GGATAGTTTGAATTTTCTGTGGATCATGACAGTGCTCCTCTAAACAACCGATGTGTCCGTGCCAAAAT
 AAATGTTGCTATGATTTGTCAAACCTTGGTAAGCCACCAGAGGGAAACCAGGAAATTAGCAGGGACAAC
 ATTCTATGCAAGATTACATATGTAGCTAATGTGAACCTGGAGGATGGGCACCAGCCTCAGTGTTAAGGG
 CAGTGGCAAAGCGAGAGTATCCTAAATTTCTAAAACGTTTTACTTCTTACGTCCAAGAAAAAAGTGCAGG
 AAAGCCTATTTTGTTT

AG**CGGACCC**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

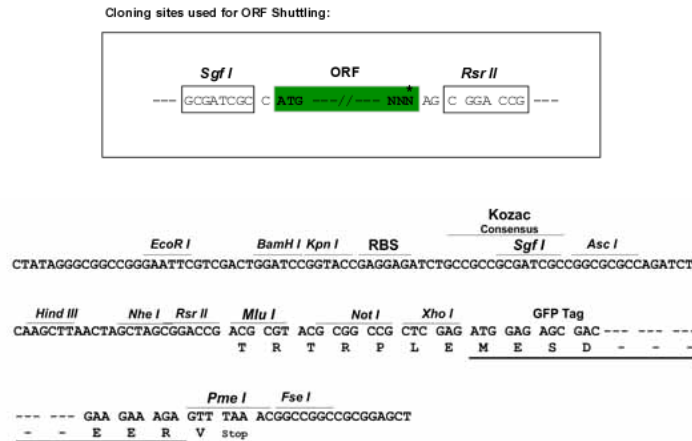
Protein Sequence: >RG226135 representing NM_001130105
Red=Cloning site Green=Tags(s)

MQHSCIPTPPSPFSAPPAFLPVVTRESRRGLSSGGSAGRAGVTATAAADGWKGRPLPSPLVLLPRSARC
 QARRRRGGRTSSLLLLPPTPERALFASPPDPSRGLGASSGAAEGAGAGLLGCRASMSDNQSWNSGS
 EEDPETESGPPVERCGVL SKWTNYIHGWQDRWVVLKNNALSYKSEDETEYGCGRSICLSKAVITPHDFD
 ECRFDISVNDVWYLRAQDPDHRQWIDAIEQHKTESGYGSESSLRRHGSMVSLVSGAGYSATSTSSFK
 KGHSLREKLAEMETFRDILCRQVDTLQKYFDACADAVSKDELQRDKVVEDEDDFPTRSDGDFLHSTNG
 NKEKLFPHVTPKINGIDFKGEAITFKATTAGILATLSHCIELMVKREDSWQKRLDKETEKRRTEEAYK
 NAMTELKKKSHFGGPDYEEGPNSLINEEEFFDAVEAALDRQDKIEEQSQSEKVRHLHWPTSLPSGDAFSSV
 GTHRFVQKPYSRSSMSIDLVSASDDVHRFSSQVEEMVQNHMTYSLQDVGGDANWQLVVEEGEMKYVRR
 EVEENGI VLDPLKATHAVKGV TGHEVCNYFWNDVVRNDWETT IENFHVETLADNAII IYQTHKRVWPAS
 QRDVLYLSVIRKIPAL TENDPETWIVCNF SVDHDSAPLNNRCVRAKINVAMICQTLVSPPEGNQEI SRDN
 ILCKITYVANVPPGGWAPASVLRVAVAKREYPKFLKRFTSYVQEKTAGKPILF

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001130105

ORF Size: 2256 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_001130105.1](#), [NP_001123577.1](#)

RefSeq Size: 5494 bp

RefSeq ORF: 2259 bp

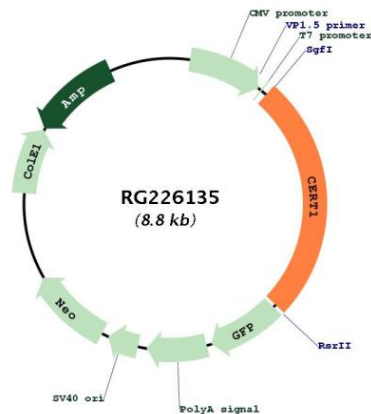
Locus ID: 10087

UniProt ID: [Q9Y5P4](#)

Cytogenetics: 5q13.3

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 RG226135