

## Product datasheet for **SC107825**

### **CERT1 (NM\_031361) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CERT1 (NM_031361) Human Untagged Clone
Tag:	Tag Free
Symbol:	CERT1
Synonyms:	CERT; CERTL; COL4A3BP; GPBP; MRD34; STARD11
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_031361, the custom clone sequence may differ by one or more nucleotides

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ATGTCGGATAATCAGAGCTGGAACCTCGTCGGGCTCGGAGGAGGATCCAGAGACGGAGTCTGGGCCGCTG
TGGAGCGTCTCGGGGTCCTCAGTAAGTGGACAACTACATTCATGGGTGGCAGGATCGTTGGGTAGTTTT
GAAAAAATATGCTCTGAGTTACTACAAATCTGAAGATGAAACAGAGTATGGCTGCAGAGGATCCATCTGT
CTTAGCAAGGCTGTCATCACACCTCACGATTTTGATGAATGTCGATTTGATATTAGTGATAATGATAGTG
TTTGGTATCTTCGTGCTCAGGATCCAGATCATAGACAGCAATGGATAGATGCCATTGAACAGCACAAAGAC
TGAATCTGGATATGGATCTGAATCCAGCTTGCCTCGACATGGCTCAATGGTGTCCCTGGTGTCTGGAGCA
AGTGGCTACTCTGCAACATCCACCTCTTCATTCAAGAAAGGCCACAGTTTACGTGAGAAGTTGGCTGAAA
TGGAAACATTTAGAGACATCTTATGTAGACAAGTTGACACGCTACAGAAGTACTTTGATGCCTGTGCTGA
TGCTGTCTCTAAGGATGAACTTCAAAGGGATAAAGTGGTAGAAGATGATGAAGATGACTTTCCTACAACG
CGTTCTGATGGTGACTTCTTGCATAGTACCAACGGCAATAAAGAAAAGTTATTTCCACATGTGACACCAA
AAGGAATTAATGGTATAGACTTTAAAGGGGAAGCGATAACTTTTTAAAGCAACTACTGCTGGAATCCTTGC
AACACTTTCTCATTGTATTGAACTAATGGTTAAACGTGAGGACAGCTGGCAGAAGAGACTGGATAAGGAA
ACTGAGAAGAAAAGAAGAACAGAGGAAGCATATAAAAAATGCAATGACAGAACTTAAGAAAAAATCCCACT
TTGGAGGACCAGATTATGAAGAAGGCCCTAACAGTCTGATTAATGAAGAAGAGTTCTTTGATGCTGTTGA
AGCTGCTCTTGACAGACAAGATAAAATAGAAGAACAGTACAGAGTGAAAAGGTGAGATTACATTGGCCT
ACATCCTTGCCCTCTGGAGATGCCTTTTCTTCTGTGGGGACACATAGATTTGTCCAAAAGGTTGAAGAGA
TGGTGCAGAACCATGACTTACTCATTACAGGATGTAGCGGAGATGCCAATTGGCAGTTGGTTGTAGA
AGAAGGAGAAAATGAAGGTATACAGAAGAGAAGTAGAAGAAAATGGGATTGTTCTGGATCCTTTAAAGCT
ACCCATGCAGTTAAAGGCGTACAGGACATGAAGTCTGCAATTAATTTCTGGAATGTTGACGTTCCGCAATG
ACTGGGAAACAACACTATAGAAAACCTTTTCATGTGGTGGAAAACATTAGCTGATAATGCAATCATCATTTATCA
AACACACAAGAGGGTGTGGCCTGCTTCTCAGCGAGACGATTATATCTTTCTGTCAATTCGAAGATACCA
GCCTTGACTGAAAATGACCCTGAAACTTGGATAGTTTGAATTTTTCTGTGGATCATGACAGTGCTCCTC
TAAACAACCGATGTGTCCTGCCAAAATAAATGTTGCTATGATTTGTCAAACCTTGGTAAGCCCACCAGA
GGGAAACCAGGAAATTAGCAGGGACAACATTCTATGCAAGATTACATATGTAGCTAATGTGAACCTGGA
GGATGGCACCAGCCTCAGTGTTAAGGGCAGTGGCAAAGCGAGAGTATCCTAAATTTCTAAAACGTTTTTA
CTTCTTACGTCCAAGAAAAAAGTGCAGGAAAGCCTATTTTGTCTAG
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_031361 unedited

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GTTGGATTTGTAACCGACTTACTATAGGCGGCCGCAATTCGCACGAGGGGGTAGGCTT
CCTTACCCTCGTCCCTCCTTCCTCGCTCCGCTCGGTGTCAGGCGCGCGCGCGCGCGG
GGGCGGACTTCGTCCTCCTCCTGCTCCCCCACACCGGAGCGGGCACTTTCGCTTCG
CCATCCCCGACCCTTACCCCCGAGGACTGGGCGCCTCCTCCGGCGCAGCTGAGGGAGCG
GGGCGCGGTCTCCTGCTCGGTTGTCGAGCCTCCATGTCGGATAATCAGAGCTGGAATCG
TCGGGCTCGGAGGAGGATCCAGAGACGGAGTCTGGGCCGCTGTGGAGCGCTGCGGGGTC
CTCAGTAAGTGGACAACTACATTCATGGGTGGCAGGATCGTTGGGTAGTTTTGAAAAAT
AATGCTCTGAGTTACTACAAATCTGAAGATGAAACAGAGTATGGCTGCAGAGGATCCATC
TGTCTTAGCAAGGCTGTCATCACACCTCACGATTTTGATGAATGTCGATTTGATATTAGT
GTAATGATAGTGTGGTATCTTCGTGCTCAGGATCCAGATCATAGACAGCAATGGATA
GATGCCATTGAACAGCACAAAGACTGAATCTGGATATGGATCTGAATCCAGCTTGCCTCGA
CATGGCTCAATGGTGTCCCTGGTGTCTGGAGCAAGTGGCTACTCTGCAACATCCACCTCT
TCATTCAGAAAGCCACAGTTTACGTGAGAAAGTGGCTGAAATGGAACATTTAGAGACA
TCTTATGTAGACAAGTTGACACGCTACAGAAGTACCTTGTATGCCTGTGCTGATGCTGCT
CTAAGATGAACTTCAAGGATAAAGTGGTAGAAGATGATGAGATGACTTTTCTACAACGC
GTCTGATGGTGACTTCTGCATAGAC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_031361 unedited GCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTCTCCACATGGAATGTCACACAG CCTTGCTTCAGTCACTGTTAATACTAGAACAAAATAGGCTTTCTGCAGTTTTTTCTTGG ACGTAAGAAGTAAAACGTTTTAGAAATTTAGGATACTCTCGCTTTGCCACTGCCCTTAAC ACTGAGGCTGGTCCCATCCTCCAGGGTTCACATTAGCTACATATGTAATCTTGCATAGA ATGTTGTCCTGCTAATTTCTGGTTCCCTCTGGTGGGCTTACCAAGGTTTGACAAATC ATAGCAACATTTATTTTGGCACGGACACATCGGTTGTTTAGAGGAGCACTGTCATGATCC ACAGAAAAATTACAACTATCCAAGTTTCAGGGTCATTTTCAGTCAAGGCTGGTATCTTT CGAATGACAGANAGATATAATACGTCCTCGCTGAGAAGCAGGCCACACCCTCTGTGTGTT TGATAATGATGATTGCATTATCAGCTAATGTTTCCACCACATGAAAGTTTTCTATAGTT GTTTCCAGTCATTGCGAACGTCAACATTCCAGAAATAATTGCAGACTTCATGTCCTGTG ACGCCTTAACTGCATGGGTAGCTTTTTAAGGATCCAGAACAAATCCCATTTCTTCTACT NCTCTTCTGGATACCTATTTCTCCCTCTCTACACCCAAGTCCATTTGGGATCTNCCG CCTACATCCTGTAATGAGTAAGTCATGTGGTTCTGCACCATCTCTTCTAACTTTTGGACA AATCTATGGGTCCCAAGAAAAAAGCATTTCAGAGGGCAAGGTGTAGGCCATGTAATCT CCCTTTTACTTGGGACGGTCTTTATTTATCTTGTGGCAGAAACGTTCAAGATAAAGAAC TTTTTTTTATAAACGGTAGGGCTTTTTCTAATCGGCCCTCAAGGGGATTTTCTTAAGCC GCCTTGAATTNTAAGGCNCCCCTCTTTTTTTTTCAAGTCCTTACAACTTTTTGCCTGG CCACGGTAACCTTATAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_031361
<b>Insert Size:</b>	2210 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_031361.1</a></u> , <u><a href="#">NP_112729.1</a></u>
<b>RefSeq Size:</b>	2311 bp
<b>RefSeq ORF:</b>	1797 bp
<b>Locus ID:</b>	10087
<b>UniProt ID:</b>	<u><a href="#">Q9Y5P4</a></u>
<b>Cytogenetics:</b>	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]

Transcript Variant: This variant (2) differs in the 5' UTR and coding region and lacks an alternate in-frame exon compared to variant 3. The resulting isoform (2) is shorter at the N-terminus and lacks an internal segment compared to isoform 3. The absence of the in-frame exon results in the loss of a protein motif and less phosphorylation activity. This isoform also mediates intracellular transport of ceramide from the endoplasmic reticulum to the Golgi apparatus. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.