

Product datasheet for **SC320674**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_031361.1
 AGGAAGATGGCGCGGTAGCGGAGGTGTGAGTGGACGCGGGACTCAGCGCCGGATTTTC
 TCTTCCCTTTCTTTCCCTTTTCCCTATTTGAAATTGGCATCGAGGGGGCTAAGTTC
 GGGTGGCAGCGCCGGGCGCAACGCAGGGGTACGGCGACGGCGGGCGGGCTGACGGCTG
 GAAGGGTAGGCTTCCCTCACCGCTCGTCCCTCTCCTCGCTCCGCTCGGTGTGAGGCGG
 GCGGGCGGCGGGCGGGGACTTCGTCCCTCCTCTGCTCCCCCACACCGGAGCGGGC
 ACTCTTCGCTTCGCCATCCCCGACCCTCACCCGAGGACTGGGCGCCTCCTCCGGCGC
 AGCTGAGGGAGCGGGGGCCGGTCTCCTGCTCGGTTGTCGAGCCTCCATGTCGGATAATCA
 GAGCTGGAACCTCGTCGGGCTCGGAGGAGATCCAGAGACGGAGTCTGGGCGCCTGTGGA
 GCGCTGCGGGGTCTCAGTAAGTGGACAACTACATTCATGGGTGGCAGGATCGTTGGGT
 AGTTTTGAAAAAATAGCTCTGAGTTACTACAACTGAAGATGAAACAGAGTATGGCTG
 CAGAGGATCCATCTGTCTTAGCAAGGCTGTCATCACACCTCACGATTTTGATGAATGTCG
 ATTTGATATTAGTAAATGATAGTGTGGTATCTTCGTGCTCAGGATCCAGATCATAG
 ACAGCAATGGATAGATGCCATTGAACAGCACAAGACTGAATCTGGATATGGATCTGAATC
 CAGCTTGGCTCGACATGGCTCAATGGTGTCCCTGGTGTCTGGAGCAAGTGGCTACTCTGC
 AACATCCACCTCTCATTCAAGAAAGGCCACAGTTTACGTGAGAAGTTGGCTGAAATGGA
 AACATTTAGAGACATCTTATGTAGACAAGTTGACACGCTACAGAAGTACTTTGATGCCTG
 TGCTGATGCTGTCTTAAGGATGAACTTCAAAGGATAAAGTGGTGAAGATGATGAAGA
 TGACTTTCCTACAACGCGTTCTGATGGTGACTTCTTGCAATAGTACCAACGGCAATAAAGA
 AAAGTTATTTCCACATGTGACACCAAAGGAATTAATGGTATAGACTTTAAAGGGGAAGC
 GATAACTTTTAAAGCACTACTGCTGGAATCCTTGCAACACTTTCTCATTGTATTGAACT
 AATGGTTAAACGTGAGGACAGCTGGCAGAAGAGACTGGATAAGGAAACTGAGAAGAAAAG
 AAGAACAGAGGAAGCATATAAAAAATGCAATGACAGAACTTAAGAAAAAATCCCACCTTGG
 AGGACCAGATTATGAAGAAGGCCCTAACAGTCTGATTAATGAAGAAGAGTTCTTTGATGC
 TGTGAAAGCTGCTCTTGACAGACAAGATAAAATAGAAGAACAGTACAGAGTGAAAAGGT
 GAGATTACATTGGCCTACATCCTTGCCCTCTGGAGATGCCTTTTCTTCTGTGGGACACA
 TAGATTTGTCCAAAAGGTTGAAGAGATGGTGCAGAACCACATGACTTACTCATTACAGGA
 TGTAGGCGGAGATGCCAATTGGCAGTTGGTTGTAGAAGAAGGAGAAATGAAGGTATACAG
 AAGAGAAGTAGAAGAAAATGGGATTGTTCTGGATCCTTTAAAAGTACCCATGCAGTTAA
 AGGCGTACAGGACATGAAGTCTGCAATATTTTCTGGAATGTTGACGTTGCAATGACTG
 GGAACAACATATAGAAACTTTTATGTGGTGGAAACATTAGCTGATAATGCAATCATCAT
 TTATCAAACACACAAGAGGGTGTGGCCTGCTTCTCAGCGAGACGTATTATATCTTTCTGT
 CATTCCAAAAGATACCAGCCTTGACTGAAAATGACCCTGAAAACCTGGATAGTTTGAATTT
 TTCTGTGGATCATGACAGTGTCTCTAAACAACCGATGTGTCCGTGCCAAAATAAATGT
 TGCTATGATTTGTCAAACCTTGGTAAGCCACCAGAGGGAAACCAGGAAATTAGCAGGGA
 CAACATTCTATGCAAGATTACATATGTAGCTAATGTGAACCTGGAGGATGGGCACCAGC
 CTCAGTGTAAAGGGCAGTGGCAAAGCGAGAGTATCCTAAATTTCTAAAACGTTTTACTTC
 TTACGTCCAAGAAAAAACTGCAGGAAAGCCTATTTTGTCTAGTATTAACAGTGACTGAA
 GCAAGGCTGTGTGACATTCATGTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_031361
- OTI Disclaimer:** 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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:	<u>NM_031361.1, NP_112729.1</u>
RefSeq Size:	2311 bp
RefSeq ORF:	1797 bp
Locus ID:	10087
UniProt ID:	<u>Q9Y5P4</u>
Cytogenetics:	5q13.3
Domains:	PH, START
Gene Summary:	<p>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]</p> <p>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.</p>