

## Product datasheet for **SC122895**

### CLTRN (NM\_020665) Human Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | CLTRN (NM_020665) Human Untagged Clone |
| Tag:                      | Tag Free                               |
| Symbol:                   | CLTRN                                  |
| Synonyms:                 | NX-17; NX17; TMEM27                    |
| 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:** >OriGene sequence for NM\_020665 edited  
 GGGGCTTTTGGAGGTAGAGTCAGAGTAGGGAAAACAATACTGTTTTCCAAACAGGTTT  
 TCATAAATAACTGACAGGAGATGGGCTGTTTTATGGAAGTATTAACCCAAATGATGGGT  
 GTTAATCATTAAACCTTTTTGGTGGTGGCTCGCTTGTCTCTGATATTCTAATCCGGGT  
 CACAGAATGGCTAAGGCAGATTTAAGTGCAGCGTGGATTTTTTTTTCTCACTTTGCCTT  
 GTGTTTTCCACCCTGAAAGAATGTTGTGGCTGCTTTTTCTGGTGACTGCCATTATG  
 CTGAACCTGTCAACCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCAGAACAG  
 CTCTGGGAGATAAAGCATATGCCTGGGATACCAATGAAGAATACCTCTTCAAAGCGATGG  
 TAGCTTTCTCCATGAGAAAAGTTCCCAACAGAGAAGCAACAGAAAATTTCCCATGTCCTAC  
 TTTGCAATGTAACCCAGAGGGTATCATTCTGGTTGTGGTTACAGACCCTTCAAAAAATC  
 ACACCCTTCTGCTGTTGAGGTGCAATCAGCCATAAGAATGAACAAGAACCGGATCAACA  
 ATGCCCTCTTTCTAAATGACCAAACCTCTGGAATTTTTAAAAATCCCTTCCACACTGCAC  
 CACCCATGGACCCATCTGTGCCATCTGGATTATATATTTGGTGTGATATTTGCATCA  
 TCATAGTTGCAATTGCACTACTGATTTTATCAGGGATCTGGCAACGTAGAAGAAAGAACA  
 AAGAACCATCTGAAGTGGATGACGCTGAAGATAAGTGTGAAAACATGATCACAATTGAAA  
 ATGGCATCCCCTCTGATCCCCTGGACATGAAGGGAGGGCATATTAATGATGCCTTCATGA  
 CAGAGGATGAGAGGCTCACCCCTCTCTGAAGGGCTGTTGTTCTGCTTCTCAAGAAATTA  
 AACATTTGTTTCTGTGACTGCTGAGCATCCTGAAATACCAAGAGCAGATCATATATTT  
 TGTTTTACCATTCTTCTTTGTAATAAATTTTGAATGTGCTTGAAAGTGAAAAGCAATCA  
 ATTATACCCACCAACACCACTGAAATCATAAGCTATTCACGACTCAAAATATTCTAAAAT  
 ATTTTTCTGACAGTATAGTGATAAATGTGGTCATGTGGTATTTGTAGTTATTGATTTAA  
 GCATTTTAGAAAATAAGATCAGGCATATGTATATTTTTACACTTCAAAGACCTAAGGA  
 AAAATAAATTTCCAGTGGAGAATACATATAATATGGTGTAGAAATCATTGAAAATGGAT  
 CCTTTTTGACGATCACTTATATCACTCTGTATATGACTAAGTAAACAAAAGTGAGAAGTA  
 ATTATTGTAATGGATGGATAAAAATGGAATTACTCATATACAGGGTGGAAATTTATCCT  
 GTTATCACACCAACAGTTGATTATATTTTTCTGAATATCAGCCCTAATAGGACAATTC  
 TATTTGTTGACCATTTCTACAATTTGTAAGTCCAATCTGTGCTAACTTAATAAAGTAA  
 TAATCATCTCTTAAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_020665 unedited  
 CGCGGGAGTTGGGATTTGTATACGATCATATAGGCGGCCGCGCAATTCGGCCATTACGGC  
 CGGGGTCTTATTGAGGTAGTAGTCAGTAGTGAGGGAAAACAATACTGTTTTCCAAAC  
 AGGTTTTCATAAATAACTGACAGGAGATGGGCTGTTTTATGGAAGTATTAACCCAAATG  
 ATGGGTGTTAATCATTAAACCTTTTTGGTGGTGGCTCGCTTGTCTCTGATATTCTAAT  
 CCGGGTACAGAATGGCTAAGGCAGATTTAAGTGCAGCGTGGATTTTTTTTTCTCACTT  
 TGCCTTGTGTTTTCCACCCTGAAAGAATGTTGTGGCTGCTTTTTCTGGTGACTGCCA  
 TTCATGCTGAACCTGTCAACCAGGTGCAGAAAATGCTTTTAAAGTGAGACTTAGTATCA  
 GAACAGCTCTGGGAGATAAAGCATATGCCTGGGATACCAATGAAGAATACCTCTTCAAAG  
 CGATGGTAGCTTTCTCCATGAGAAAAGTTCCCAACAGAGAAGCAACAGAAAATTTCCCATG  
 TCCTACTTTGCAATGTGACCCAGAGGGTATCATTCTGGTTGTGGTTACAGACCCTTCAA  
 AAAATCACACCCTTCTGCTGTTGAGGTGCAATCAGCCATAAAAACTGAACAGACCCGGG  
 TCAACAATGCCTTCTTTCTAAATGACCAAACCTCTGGGATTTTTAAAAATCCCTTCCACAC  
 TTGCCCAACCATGGAACCCATCTGGGCCCCTCTGGGATTATATATTTGGTGTGGAA  
 ATTTTGAATCATCATAGTTGCAATTTGCACTACTGAATTTTAAAGGGATCCTGGCAA  
 ACGTTGAAAAAAGAAACAAAGAAACCATCTGGAAGTGAATGAACCCTGGAAGAATAAA  
 TGTGAAAACC

**Restriction Sites:** Please inquire  
**ACCN:** NM\_020665  
**Insert Size:** 1605 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>                | <a href="#">NM_020665.2</a> , <a href="#">NP_065716.1</a>   |
| <b>RefSeq Size:</b>           | 1605 bp   |
| <b>RefSeq ORF:</b>            | 669 bp  |
| <b>Locus ID:</b>              | 57393   |
| <b>UniProt ID:</b>            | <a href="#">Q9HBJ8</a>  |
| <b>Cytogenetics:</b>          | Xp22.2  |
| <b>Protein Families:</b>      | Transmembrane   |
| <b>Gene Summary:</b>          | This gene encodes a type 1 transmembrane protein that is important for trafficking amino acid transporters to the apical brush border of proximal tubules. The encoded protein binds to amino acid transporters and regulates their expression on the plasma membrane. It also plays a role in controlling insulin exocytosis by regulating formation of the SNARE (soluble N-ethylmaleimide-sensitive-factor attachment protein receptor) complex in pancreatic beta cells. The extracellular domain of the encoded protein may be cleaved and shed from the plasma membrane specifically in pancreatic beta cells. [provided by RefSeq, Jun 2013] |