

## Product datasheet for **SC127998**

### Calcineurin B (PPP3R1) (NM\_000945) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                     |
| Product Name:             | Calcineurin B (PPP3R1) (NM_000945) Human Untagged Clone |
| Tag:                      | Tag Free  |
| Symbol:                   | Calcineurin B   |
| Synonyms:                 | CALNB1; CNB; CNB1                                       |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                  |

**Fully Sequenced ORF:** >OriGene sequence for NM\_000945 edited  
 ATGGGAAATGAGGCAAGTTATCCTTTGGAAATGTGCTCACACTTTGATGCGGATGAAATT  
 AAAAGGCTAGGAAAGAGATTTAAGAAGCTTGATTTGGACAATTCTGGTTCTTTGAGTGTG  
 GAAGAGTTCATGTCTCTGCCTGAGTTACAACAGAATCCTTTAGTACAGCGAGTAATAGAT  
 ATATTCGACACAGATGGGAATGGAGAAGTAGACTTTAAAGAATTCATTGAGGGCGTCTCT  
 CAGTTCAGTGTCAAAGGAGATAAGGAGCAGAAATTGAGGTTTGCTTTCCGTATCTATGAC  
 ATGGATAAAGATGGCTATATTTCCAATGGGGAACCTTCCAGGTATTGAAGATGATGGTG  
 GGGAAACATCTGAAAGATACACAGTTACAGCAAATTTAGACAAAACCATAATAAATGCA  
 GATAAGGATGGAGATGGAAGAATATCCTTTGAAGAATTCTGTGCTGTTGTAGGTGGCCTA  
 GATATCCACAAAAAGATGGTGGTAGATGTGTGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_000945 unedited  
 GTAGCGTCAAGAATTGTATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGCCTCC  
 CCGCCGGCAGCCGAGGGCCGAGCTGGGCCGCCGCCGCTTCTGCGAGCCAGCCTG  
 AGCGCAACACTTCTCCGAGCCAGCGAGCCAGCGAGCCGCCGAGCCGAGCAAATGGG  
 AAATGAGGCAAGTTATCCTTTGGAAATGTGCTCACACTTTGATGCGGATGAAATTTAAAG  
 GCTAGGAAAGAGATTTAAGAAGCTTGATTTGGACAATTCTGGTTCTTTGAGTGTGAAGA  
 GTTCATGTCTCTGCCTGAGTTACAACAGAATCCTTTAGTACAGCGAGTAATAGATATATT  
 CGACACAGATGGGAATGGAGAAGTAGACTTTAAAGAATTCATTGAGGGCGTCTCTCAGTT  
 CAGTGTCAAAGGAGATAAGGAGCAGAAATTGAGGTTTGCTTTCCGTATCTATGACATGGA  
 TAAAGATGGCTATATTTCCAATGGGGAACCTTCCAGGTATTGAAGATGATGGTGGGGAA  
 CAATCTGAAAGATACACAGTTACAGCAAATTTAGACAAAACCATAATAAATGCAGATAA  
 GGATGGAGATGGAAGAATATCCTTTGAAGAATTCTGTGCTGTTGTAGGTGGCCTAGATAT  
 CCACAAAAAGATGGTGGTAGATGTGTGACTCTTATCAGAGAGTACCACCAACACTTTTG  
 CTTTCTTCTCCATCTCTGAAGATCTGCTCAGGACGTCCAGCAATGCTCTCTGTGTATTTA  
 AATGGAAGTATTTTTCTGTGTAACCCCATTTTCCACATGAGCCTCATGAACCCACTAA  
 GTGTTATTGGACTGTAATTCCTCAATAACTCAGTGTAGCACTTTAAAGTCTGGAGGACAG



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|                                     |  |
|-------------------------------------|--|
| <b>3' Read Nucleotide Sequence:</b> | >OriGene 3' read for NM_000945 unedited<br>TTGGACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT<br>TTTTTTTTTTTTTTTTTTTTTTCAAAGTTCAAATTTTTTATTCTTATTATCCAGGA<br>GGAAGTTTTTTAAAAACCCCACTTACGCTTTTTTGCAAAAAAAACTAACTTTC<br>ACTTAAACCATCCCTTACCTTTACCCCCCAACACAACATCTTNAAAAAAAAAAAAA<br>AAGGAAAAAAGGAAAGGAAAAACCCTCTTTCCCGGAAGGAAATAAGGTTTACCCT<br>TTTTTTTTGTACCCCCCAAAATTTGCCCAACCAAAAAAAAAATAGAAGGCTTTGGCTAA<br>AATTTTGGTAACAAATCCTTTTGCCAAAAAATTCCAAAGGGCTAGTCCCCTTGAAC<br>CAAACCATGGCATTGACTGACACTGGACAGTTCAAACCGGGCTGGGATTATAACCTT<br>GGCCCTGATCCAGGGAAGAAGGTCCTTGTAGGGGAAATTTTCACTCTGAACATTAACATT<br>TCCAAAGTTGGCACATTTTCTTTAAATTTTGCAATTTGTAAACAGAGTACTTTTTAAT<br>GGTCTACTGCAAACCTGTATGCAGGCCACCAAGCCGGGATTTTTCTCCAGACAGAC<br>CCTTGTAGGCCCTCATTAAAGGAACCATGGCGGCAGGGGCCATTTAAATGGTACC<br>CCTGTCAACCGCCCTTCCCTGTTTTAAACCGTTTTTTGAAACCTTAAGGAAGACTTT<br>GTCCTCAAGCTACCAAAGGTTTTTCCCTAACCCCTTTGCAAGGGAGGTAATCAAC<br>CTNAACGGTCCCCTTTATCCACATTTTAGTTCCTACCATTGTGCAAAAAAAAAAAA<br>AACCTTGCTCTTCCCGGGGAAAAAAGGGAATTGGACAATTGCTTGGGAT |
| <b>Restriction Sites:</b>           | NotI-NotI  |
| <b>ACCN:</b>                        | NM_000945  |
| <b>Insert Size:</b>                 | 4000 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>OTI Annotation:</b>              | The ORF of this clone has been fully sequenced and found to be a perfect match to NM_000945.3.   |
| <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>NM_000945.3, NP_000936.1</u>  |
| <b>RefSeq Size:</b>                 | 3111 bp  |
| <b>RefSeq ORF:</b>                  | 513 bp   |
| <b>Locus ID:</b>                    | 5534   |
| <b>UniProt ID:</b>                  | <u>P63098</u>  |
| <b>Cytogenetics:</b>                | 2p14   |

|                          |   |
|--------------------------|---|
| <b>Domains:</b>          | EFh   |
| <b>Protein Families:</b> | Druggable Genome, Phosphatase   |
| <b>Protein Pathways:</b> | Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Axon guidance, B cell receptor signaling pathway, Calcium signaling pathway, Long-term potentiation, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Oocyte meiosis, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway |
| <b>Gene Summary:</b>     | Regulatory subunit of calcineurin, a calcium-dependent, calmodulin stimulated protein phosphatase. Confers calcium sensitivity.[UniProtKB/Swiss-Prot Function]  |