

## Product datasheet for **MC222947**

### **Clstn1 (NM\_023051) Mouse Untagged Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Clstn1 (NM_023051) Mouse Untagged Clone |
| Tag:                      | Tag Free                                |
| Symbol:                   | Clstn1                                  |
| Synonyms:                 | 1810034E21Rik; Cst-1; Cstn1             |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**Fully Sequenced ORF:** >MC222947 representing NM\_023051  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCGCCGCCCTGCGCCCGCTGGCCCCGGCCGTCGGCTGCTGCTGGCGGGCTGCTGTGCGGCC  
 GCGGGTCTGGGCGCGGAGTTAAACAAGCACAAGCCATGGCTCGAGCCACCTACCATGGGATAGTCAC  
 CGAGAACGATAACACGGTCTGCTCGACCTCCCTCATCGCCCTGGATAAAGATTACCGCTCCGCTTT  
 GCAGAGAGTTTTGAGGTGACAGTCACCAAAGAAGGTGAGATTTGTGGCTTTAAAATTCACGGGCAGAATG  
 TCCCTTTGATGCCGTGGTAGTGGATAAGTCCACGGGTGAGGGAATAATCCGGTCAAAGAGAACTGGA  
 CTGTGAACTACAGAAAGACTACACATTCACCATCCAGGCCTACGACTGCGGGAAGGGCCCCGATGGCACC  
 GGTGTGAAAAAGTCTCACAAGCGACCGTGCACATCCAGGTGAACGACGTGAACGAGTACGCCCCGTGT  
 TCAAGGAGAAGTCGTACAAGCGGCCGTGGTGGAGGGCAAGCAGCACAGCAGCATCTCAGGTGGAGGC  
 TGTGGACGCACTGCTCCCGCAGTTCAGCCAGATCTGCAGCTACGAGATTCTACCCAGACGTGCCG  
 TCACTGTGGACAAAGACGGTTATTAAGAACACAGAGAAGCTAAACTATGGCAAAGAGCATCAGTATA  
 AGCTCACAGTCACAGCCTACGACTGTGGGAAGAAAAGAGCCACCGAGGACGTCTAGTGAAGATAAGCGT  
 CAAGCCCACCTGCAGCCCCGGTGGCAAGGCTGGAGCAGCAGAATTGAGTATGAGCCCGGCACGGGTGCT  
 TTGGCTGTCTCCCGAGCATCCACTTGGAGACCTGTGACGAGCCTGTGCCTCTGTGCAGGCCACGGTGG  
 AGCTGGAGACCAGCCACATAGGGAAGGCTGCGACCGAGATACCTACTCTGAGAAGTCCCTTCACCGGT  
 CTGTGGGCTGCTGCCGGCACCTCAGAGCTGCTCCCGTCCCCAGTAGCTCCTTCAACTGGACTGTGGGC  
 CTCCCCACCGACAACGGCCATGACAGTGACCAGTCTTTGAGTTCAACGGCACGAGGCCGTGAGGATTC  
 CAGACGGCGTTGTGACCTTGCCTAAAGAACCTTTACAATCTCCGTGTGGATGCGGCATGGCCGCTT  
 TGGCCGGAAGAAGGAGACAATTCTCGAGTTCGGATAAGACAGATATGAACCGACACCATTTATCGCTC  
 TACGTCCACGGGTGCAGGCTAGTTTTCTCCTCCGTGAGACCCGTCTGAGGAGAAGAAATACAGCCCTG  
 CGGAGTCCACTGGAAGCTGAACCAAGTCTGTGATGAGGACTGGCACCCTTTGCTCAATGTGGAAGT  
 TCCAAGTGTGACTCTCTACGTGGACGGCATCCCTCATGAGCCCTTCTGTGACAGAGGACTACCCGCTT  
 CATCCAACCAAAATAGAGACTCAGTCTGTGGTGGAGCTTGTGGCAAGAGTATTCAGGAGTGGAGAGTG  
 GCAATGAGACTGAGCCTGCGACGATGGCCTTGCAGGTGGCGACCTGCACATGACACAGTTTTCCGAGG  
 TAACCTGGCTGGCCTCACAGTCCGTTCTGGAAACTGGCGGATAAGAAGGTGATTGACTGTCTACACC  
 TGCAAGGAGGGGCTGGACCTGCAGTCCCTGAAGATGCCAACAGAGGCGTGCAGATCCAAGCAAGCTCCA  
 GCCAGGCGGTCTTGACCTTGGAGGGAGACAACGTTGGAGAGCTGGATAAAGCTATGCAGCACATTTCTTA  
 CCTTAACTCAAGGCAGTCCCCACACCAGGCATCCGCAGGCTCAAAATCACACGACCCGTCAAGTGTTC  
 AACGAGGCGGCTTGCATCGAGGTGCCCCGGTGGAAAGGCTACGTGATGGTTTTGCAGCCGGAGGACCTA  
 AGATCAGCCTGAGTGGCGTCCACCCTTTGCCCGCAGCTTCTGAGTTTGGAGCGCGGAGGGTATTTT  
 CCTTTCCTGAGCTGAGAATCATCAGCACCATCACAGAGAGGTGGAGCCCGAGGCAGATGGGTCCGAG  
 GACCCACAGTGAAGAATCCCTGGTGTGAGAGGAAATGTGCATGACCTGGACACCTGTGAGGTACAG  
 TGAAGGGGATGAGCTGAACGCAGAGCAGGAGAGCCTGGAGGTAGACGTGACCCGCTCCAGCAGAAGGG  
 CATCGAAGCAAGCCACTCTGACCTGGGTGTGGTCTTACAGGCGTGGAGACCATGGCAAGTACGAGGAG  
 GTTTTGACCTCCTTCGCTATCGGAATTGGCACACCAGGTCCTGCTGGATCGAAAGTTCAAGCTCATT  
 GCTCAGAACTAAATGGTGCCTACCTCAGCAATGAGTTCAAGGTGGAGGTGAATGTGATCCACACAGCCAA  
 CCCCCTGGAACATGCCAACCACATGGCTGCCAGCCACAGTTCGTCCACCCTGAACATCGATCCTTTGTG  
 GACCTGTCTGGTCAACCTGGCCAATCTCACCCGTTTGCAGTTGTCCCAGCACGGGACAGTGGTGA  
 TTGTGGTGTGTGTCAGCTTCTGGTTTTCATGATCATCTGGGGTGTTCGGATCCGGGCTGCACATCA  
 GCGAACGATGCGGGACCAGGACACGGGAAGGAGAATGAGATGGACTGGGATGACTCTGCCTTGACCATC  
 ACCGTCAACCCCATGGAGACATATGAGGACCAGCACAGCAGTGGAGGAGGAAGAGGAGGAGGAGG  
 AGGAGAGCGAAGATGGGAGGAAGAGGAAGACATCACAGTGGCAGTCTGAGAGCAGTGGAGGAGGA  
 AGGAGGCCCGGAGACGGCCAGAATGCCACCCGACAGCTGGAATGGGATGACTCCACACTCAGCTAC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

|                               |   |
|-------------------------------|---|
| <b>Restriction Sites:</b>     | Sgfl-Mlul   |
| <b>ACCN:</b>                  | NM_023051   |
| <b>Insert Size:</b>           | 2940 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_023051.5</a> , <a href="#">NP_075538.1</a>   |
| <b>RefSeq Size:</b>           | 4505 bp   |
| <b>RefSeq ORF:</b>            | 2940 bp   |
| <b>Locus ID:</b>              | 65945   |
| <b>UniProt ID:</b>            | <a href="#">Q9EPL2</a>  |
| <b>Cytogenetics:</b>          | 4 E2  |
| <b>Gene Summary:</b>          | <p>Induces KLC1 association with vesicles and functions as a cargo in axonal anterograde transport. Complex formation with APBA2 and APP, stabilizes APP metabolism and enhances APBA2-mediated suppression of beta-APP40 secretion, due to the retardation of intracellular APP maturation. In complex with APBA2 and C99, a C-terminal APP fragment, abolishes C99 interaction with PSEN1 and thus APP C99 cleavage by gamma-secretase, most probably through stabilization of the direct interaction between APBA2 and APP. As intracellular fragment AICD, suppresses APBB1-dependent transactivation stimulated by APP C-terminal intracellular fragment (AICD), most probably by competing with AICD for APBB1-binding. May modulate calcium-mediated postsynaptic signals.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note:.</p> |