

## Product datasheet for **MG211346**

### **Clstn1 (BC053843) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Clstn1 (BC053843) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Clstn1
Synonyms:	Cstn1, 1810034E21Rik, Cst-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211346 representing BC053843  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCGCCGCCCTGCGCCCGCTGGCCCCGGCCGCTCCGGCTGCTGCTGGCGGGCTGCTGTGCGGCC  
 GCGGGTCTGGGCGCGGAGTTAAACAAGCACAAGCCATGGCTCGAGCCACCTACCATGGGATAGTCAC  
 CGAGAACGATAACACGGTCTGCTCGACCCCTCCCTCATCGCCCTGGATAAAGATTACCCGCTCCGCTTT  
 GCAGGTGAGATTTGTGGCTTTAAAATTACGGGCAGAATGTCCCTTTGATGCCGTGGTAGTGGATAAGT  
 CCACGGGTGAGGGAATAATCCGGTCAAAGAGAACTGGACTGTGAACACAGAAAGACTACACATTCAC  
 CATCCAGGCTACGACTGCGGGAAGGGCCCGATGGCACCAGGTGTGAAAAAGTCTCAGAAAGCGACCGTG  
 CACATCCAGGTGAACGACGTGAACGAGTACGCCCCGTTCAAGGAGAAGTCGACAAGCGGCCGTGG  
 TGGAGGCAAGCAGCACAGCAGCATCCTCAGGGTGGAGGCTGTGGACGACACTGCTCCCGCAGTTTCAG  
 CCAGATCTGCAGTACGAGATTCTACCCAGACGTGCCGTTCACTGTGGACAAAGACGGTTATATTAAG  
 AACACAGAGAAGCTAAACTATGGCAAAGAGCATCAGTATAAGCTCACAGTCACAGCTACGACTGTGGGA  
 AGAAAAGAGCCACCGAGGACGTCTAGTGAAGATAAGCGTCAAGCCACCTGCAGCCCGGGTGGCAAGG  
 CTGGAGCAGCAGAATTGAGTATGAGCCCGCACGGGTGCTTTGGCTGTCTTCCGAGCATCCACTGGAG  
 ACCTGTGACGAGCCTGTGCCTCTGTGCAGGCCACGGTGGAGCTGGAGACCAGCCACATAGGGAAAGGCT  
 GCGACCGAGATACCTACTCTGAGAAGTCCCTTACCCGGCTCTGTGGGGCTGCTGCCGGCACCTCAGAGCT  
 GCTCCCGTCCCCAGTAGCTCCTTCAACTGGACTGTGGCCCTCCCACCGACAACGGCCATGACAGTGAC  
 CAGGTTTGTAGTTCAACGGCACGACGGCCGTGAGGATTCCAGACGGCGTTGTGACCTTGACCTAAAG  
 AACCTTTACAATCTCCGTGTGGATGCGGCATGGGCCGTTTGGCCGGAAGAAGGAGACAATCTCTCGAG  
 TTCGGATAAGACAGATATGAACCGACACATTATTCGCTCTACGTCCACGGGTGCAGGCTAGTTTTCCCTC  
 CTCGGTACAGGCCGCTGAGGAGAAGAAATACAGGCCTGCGGAGTTCCTGGAAGCTGAACCAAGTCT  
 GTGATGAGGACTGGCACCCTTTGTCTCAATGTGGAAGTCCAAGTGTGACTCTCTACGTGGACGGCAT  
 CCCTCATGAGCCCTTCTGTGACAGAGGACTACCCGCTTCATCCAACAAAATAGAGACTCAGCTTGTG  
 GTCGGAGCTTGTGGCAAGAGTATTGAGGAGTGGAGAGTGGCAATGAGACTGAGCCTGCGACGATGGCCT  
 CTGCAGGTGGCGACCTGCACATGACACAGTTTTTCCGAGGTAACCTGGCTGGCCTCACAGTCCGTTCTGG  
 GAAACTGGCGGATAAGAAGGTGATTGACTGTCTCTACACCTGCAAGGAGGGGCTGGACCTGCAGTCCCT  
 GAAGATGCCAACAGAGGCGTGCAGATCCAAGCAAGCTCCAGCCAGCGGCTTGGACCTTGGAGGGAGACA  
 ACGTTGGAGAGCTGGATAAGGCTATGCAGCACATTTCTACCTTAACTCAAGGCAGTTCACACACCCAGG  
 CATCCGACAGGCTCAAAATCACACGACCCGTCAGTGTTCACACGAGGCGGCTTGCATCGAGGTGCCCCCG  
 GTGGAAGGCTACGTGATGGTTTTGCAGCCGGAGGAGCCTAAGATCAGCCTGAGTGGCGTCCACCCTTTG  
 CCCGCGCAGCTTCTGAGTTTGTGAGAGCGCGGAGGGTATTTCCCTCTTCCCTGAGCTGAGAATCATCAGCAC  
 CATCACAGAGAGGTGGAGCCGAGGCAGATGGTCCGAGGACCCACAGTGCAAGAATCCCTGGTGTCA  
 GAGGAAATTGTGCATGACCTGGACACCTGTGAGGTACAGTGGAAAGGGATGAGCTGAACGCAGAGCAGG  
 AGAGCCTGGAGGTAGACGTGACCCGCTCCAGCAGAAGGGCATCGAAGCAAGCCACTCTGACCTGGGTGT  
 GGTCTTACAGGCGTGGAGACCATGGCAAGCTACGAGGAGTTTTGACCTCCTTCGCTATCGGAATTGG  
 CACACAGGTCCTGCTGGATCGCAAGTTCAAGCTCATTGCTCAGAACTAAATGGTCGCTACCTCAGCA  
 ATGAGTTCAAGGTGGAGGTGAATGTGATCCACACAGCCAACCCCGTGAACATGCCAACCACATGGCTGC  
 CCAGCCACAGTTCGTCACCCCTGAACATCGATCCTTTGTGGACCTGTCTGGTCAACACTGGCCAATCCT  
 CACCCGTTTGCAGTTGTCCCAGCACGGCGACAGTGGTATTGTGGTGTGTGTCAGCTTCTGGTTTTCA  
 TGATCATCTGGGGTGTTCGGATCCGGGCTGCACATCAGCGAACGATGCGGGACCAGGACACGGGGAA  
 GGAGAATGAGATGGACTGGGATGACTCTGCCTTGACCATCACCGTCAACCCCATGGAGACATATGAGGAC  
 CAGCACAGCAGTGAAGGAGGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG  
 ACATCACAGTCCGAGTCTGAGAGCAGTGAAGGAGGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG  
 CCGACAGCTGGAATGGGATGACTCCACACTCAGCTAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG211346 representing BC053843  
 Red=Cloning site Green=Tags(s)

MLRRPAPALAPAVRLLLAGLLCGGGVWAARVNKHKPWLEPTYHGIVTENDNTVLLDPPLIALDKDSPLRF  
 AGEICGFKIHGQNVFPDAVVVDKSTGEGIIRSKEKLDCELQKDYFTTIQAYDCGKPGDTGVKKSCHKATV  
 HIQVNDVNEYAPVFKEKSYKAAVVEGKQHSILRVEAVDADCSPQFSQICSYEILTPDVPFTVDKDGVIK  
 NTEKLNKGKEHQYKLVTAAYDCGKCRATEDLVKISVKPTCSPGWQGWSSRIEYEPGTGALAVFPSIHLE  
 TCDEPVASVQATVELETSHIGKGCRRDITYSEKSLHRLCGAAAGTSELLPSPSSFNWTVGLPTDNGHSD  
 QVFEFNGTQAVRIPDGVVTLDPKEPFTISVWMRHGPFGRKKETILCSSDKTDMNRHHYSLYVHGCRLLVFL  
 LRQDPSEEEKYRPAEFHWKLNQVCEDEWHHFVNLNVEVPSVTLYVDGIPHEPFSVTEDYPLHPTKIETQLV  
 VGACWQEYSGVESGNETEPATMASAGGDLHMTQFFRGNLAGLTVRSGKLADKKVIDCLYTCKEGLDLQVP  
 EDANRGVQIQASSQAVLTLEGDNVGELDKAMQHI SYLNSRQFPPTGIRRLKITSTVKCFNEAACIEVPP  
 VEGYVMVLQPEEPKISL SGVHHFARAASEFESAEGISL FPELRIISTITREVEPEADGSEDPTVQESLVS  
 EEIVHDLDTCEVTVEGDELNAEQESLEVDVTRLQQKIEASHSDLGVVFTGVETMASYEEVLHLLRYRNW  
 HTRSLDRKFKLICSELNGRYLSNEFKVEVNIHTANPVEHANHMAAQPFVHPEHRSFVDSLGHNLANP  
 HPFAVVPSTATVIVVCSFLVMIILGVFRIRAAHQRTMRDQDTGKENEMDWDSDALTIITVNPMEYED  
 QHSSEEEEEEEEESEDEGEEEDITSAESESSEEEEGGPGDQGNATRQLEWDDSTLSY

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

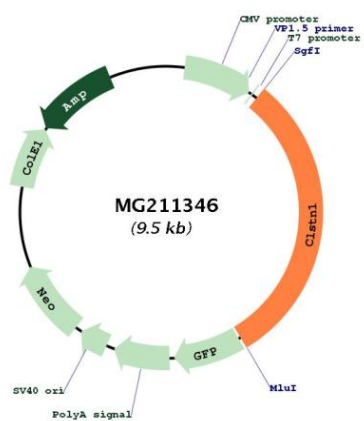


**ACCN:** BC053843

**ORF Size:** 2907 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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="#">BC053843.1</a>
<b>RefSeq Size:</b>	4486 bp
<b>RefSeq ORF:</b>	2909 bp
<b>Locus ID:</b>	65945
<b>Cytogenetics:</b>	4 E2
<b>Gene Summary:</b>	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]

## Product images:



Circular map for MG211346