

Product datasheet for **MR211346**

Clstn1 (BC053843) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clstn1 (BC053843) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clstn1
Synonyms:	Cstn1, 1810034E21Rik, Cst-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211346 representing BC053843
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGCGCCGCCCTGCGCCCGCTGGCCCCGCGCTCCGGCTGCTGCTGGCGGGCTGCTGTGCGGGC
 GCGGGGTCTGGGCCGCGGAGTTAAACAAGCACAAGCCATGGCTCGAGCCACCTACCATGGGATAGTCAC
 CGAGAACGATAACACGGTCTGCTCGACCCCTCCCTCATCGCCCTGGATAAAGATTACCCGCTCCGCTTT
 GCAGGTGAGATTTGTGGCTTTAAAATTCACGGGCAGAATGTCCCTTTGATGCCGTGGTAGTGGATAAGT
 CCACGGGTGAGGGAATAATCCGGTCAAAGAGAACTGGACTGTGAACTACAGAAAGACTACACATTCAC
 CATCCAGGCTACGACTGCGGGAAGGGCCCGATGGCACCGGTGTGAAAAAGTCTCAGAAAGCGACCGTG
 CACATCCAGGTGAACGACGTGAACGAGTACGCCCCGTGTTCAAGGAGAAGTCGACAAGCGGCCGTGG
 TGGAGGGCAAGCAGCACAGCAGCATCTCAGGGTGGAGGTGTGGACGCAGACTGCTCCCGCAGTTTCAG
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 AGAAAAGAGCCACCGAGGACGTCTAGTGAAGATAAGCGTCAAGCCCACCTGCAGCCCCGGTGGCAAGG
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 GCTCCCGTCCCCAGTAGCTCCTTCAACTGGACTGTGGCCCTCCCAACGACAACGGCCATGACAGTGC
 CAGGTTTGTAGTTCAACGGCACGCAGGCCGTGAGGATTCCAGACGGCGTTGTGACCTTGACCTTAAG
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 CCCGCGCAGCTTCTGAGTTTGTGAGAGCGCGGAGGGTATTTCCCTCTTCCCTGAGCTGAGAATCATCAGC
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 GGTTTCACAGGGCTGGAGACCATGGCAAAGTACGAGGAGTTTTGCACCTCCTTTCGCTATCGGAATTGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211346 representing BC053843
 Red=Cloning site Green=Tags(s)

MLRRPAPALAPAVRLLLAGLLCGGGVWAARVNKHKPWLEPTYHGIVTENDNTVLLDPPLIALDKDSPLRF
 AGEICGFKIHGQNVFPDAVVVDKSTGEGIIRSKEKLDCELQKDYFTTIQAYDCGKGPDTGTVKSKSHKATV
 HIQVNDVNEYAPVFKEKSYKAAVVEGKQHSSILRVEAVDADCSPQFSQICSYEILTPDVPFVTDKDGVIK
 NTEKLNKGKEHQYKLVTAAYDCGKKRATEDVLVKISVKPTCSPGWQGWSSRIEYEPGTGALAVFPSIHLE
 TCDEPVASVQATVELETSHIGKGCRRDITYSEKSLHRLCGAAAGTSELLPSPSSFNWTVGLPTDNGHSD
 QVFEFNGTQAVRIPDGVVTLDPKEPFTISVWMRHGPFRKKETILCSSDKTDMNRHHYSLYVHGCRLLVFL
 LRQDPSEEEKYRPAEFHWKLNQVCEDEWHFVNLNVEVPSVTLVYDGPHEPFSVTEDYPLHPTKIETQLV
 VGACWQEYSGVESGNETEPATMASAGGDLHMTQFFRGNLAGLTVRSGKLADKKVIDCLYTCKEGLDLQVP
 EDANRGVQIQASSQAVLTLEGDNVGLDKAMQHI SYLNSRQFPPTGIRRLKITSTVKCFNEAACIEVPP
 VEGYVMVLQPEEPKISL SGVHHFARAASEFESAEGISL FPELRIISTITREVEPEADGSEDPTVQESLVS
 EEIVHDLDTCEVTVEGDELNAEQESLEVDVTRLQQKGI EASHSDLGVVFTGVETMASYEEVLHLLRYRNW
 HTRSLDRKFKLICSELNGRYLSNEFKVEVNIHTANPVEHANHMAAQPFVHPEHRSFVDSLGHNLANP
 HPFAVVPSTATVIVVCSFLVFMIIILGVFRIRAAHQRTMRDQDTGKENEMDWDSDALITVNPMEYED
 QHSSEEEEEEEEESEDEGEEEDITSAESESSEEEEGGPGDQGNATRQLEWDDSTLSY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

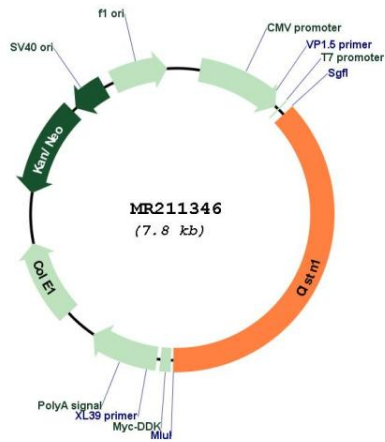


ACCN: BC053843

ORF Size: 2907 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	BC053843.1
RefSeq Size:	4486 bp
RefSeq ORF:	2909 bp
Locus ID:	65945
Cytogenetics:	4 E2
MW:	164.5 kDa
Gene Summary:	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 MR211346