

Product datasheet for **MC220810**

Clstn1 (BC053843) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >BC053843
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTGCGCCGCCCTGCGCCCGCTGGCCCCGGCCGCTCCGGCTGCTGCTGGCGGGCTGCTGTGCGGCC
GCGGGTCTGGGCGCGGAGTTAAACAAGCACAAGCCATGGCTCGAGCCACCTACCATGGGATAGTCAC
CGAGAACGATAACACGGTCTGCTCGACCCCTCCCCTCATCGCCCTGGATAAAGATTACCCGCTCCGCTTT
GCAGGTGAGATTTGTGGCTTTAAAATTCACGGGCAGAATGTCCCCTTTGATGCCGTGGTAGTGGATAAGT
CCACGGGTGAGGGAATAATCCGGTCAAAGAGAAAAGTGGACTGTGAACTACAGAAAAGACTACACATTCAC
CATCCAGGCTACGACTGCGGGAAGGGCCCGATGGCACCGGTGTGAAAAAGTCTCAGAAAAGCGACCGTG
CACATCCAGGTGAACGACGTGAACGAGTACGCCCCGTTCAAGGAGAAGTCGACAAGCGCGCGTGG
TGGAGGCAAGCAGCACAGCAGCATCCTCAGGGTGGAGGCTGTGGACGCAGACTGCTCCCGCAGTTCAG
CCAGATCTGCAGTACGAGATTCTACCCAGACGTGCCGTTCACTGTGGACAAAAGCGTTATATTAAG
AACACAGAGAAGCTAAACTATGGCAAAGAGCATCAGTATAAGCTCACAGTCACAGCTACGACTGTGGGA
AGAAAAGAGCCACCGAGGACGTCTAGTGAAGATAAGCGTCAAGCCACCTGCAGCCCGGGTGGCAAGG
CTGGAGCAGCAGAATTGAGTATGAGCCCGCACGGGTGCTTTGGCTGTCTTCCGAGCATCCACTGGAG
ACCTGTGACGAGCCTGTGCCTCTGTGCAGGCCACGGTGGAGCTGGAGACCAGCCACATAGGGAAAAGGT
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CAGGTCTTTGAGTTCAACGGCACGCAGGCCGTGAGGATTCCAGACGGCGTTGTGACCTTGACCTTAAAG
AACCTTTACAATCTCCGTGTGGATGCGGCATGGGCCGTTTGGCCGGAAGAAGGAGACAATCTCTCGAG
TTCGGATAAGACAGATATGAACCGACACATTATTTCGCTCTACGTCCACGGGTGCAGGCTAGTTTTCTC
CTCCGTACAGGACCGTCTGAGGAGAAGAAATACAGGCCTGCGGAGTTCCACTGGAAGCTGAACCAAGTCT
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CCCTCATGAGCCCTTCTGTGACAGAGGACTACCCGCTTCATCCAACAAAATAGAGACTCAGCTTGTG
GTCGGAGCTTGTGGCAAGAGTATTGAGGAGTGGAGAGTGGCAATGAGACTGAGCCTGCGACGATGGCCT
CTGCAGGTGGCGACCTGCACATGACACAGTTTTTCCGAGGTAACCTGGCTGGCCTCACAGTCCGTTCTGG
GAAACTGGCGGATAAGAAGGTGATTGACTGTCTCTACACCTGCAAGGAGGGGCTGGACCTGCAGGTCCCT
GAAGATGCCAACAGAGGCGTGCAGATCCAAGCAAGCTCCAGCCAGCGGCTTTGACCTTGGAGGGAGACA
ACGTTGGAGAGCTGGATAAGGCTATGCAGCACATTTCTACCTTAACTCAAGGCAGTTCACACACCAAGG
CATCCGCAGGCTCAAAATCACCAGCACCGTCAAGTGTTCACAGGCGGCTTGCATCGAGGTGCCCCCG
GTGGAAGGCTACGTGATGGTTTTGCAGCCGGAGGAGCCTAAGATCAGCCTGAGTGGCGTCCACCCTTTG
CCCGCGCAGCTTCTGAGTTTGTGAGAGCGCGGAGGGTATTTCCCTCTTCCCTGAGCTGAGAAATCATCAGCAC
CATCACCAGAGAGGTGGAGCCCGAGGCAGATGGTCCGAGGACCCACAGTGAAGAATCCCTGGTGTCA
GAGGAAATTTGTCATGACCTGGACACCTGTGAGGTACAGTGGAAAGGGATGAGCTGAACGCAGAGCAGG
AGAGCCTGGAGGTAGACGTGACCCGCTCCAGCAGAAGGGCATCGAAGCAAGCCACTCTGACCTGGGTGT
GGTCTTACAGGCGTGGAGACCATGGCAAGCTACGAGGAGTTTTGCACCTCCTTCGCTATCGGAATTGG
CACACCGGTCCTGCTGGATCGCAAGTTCAAGCTCATTGCTCAGAACTAAATGGTCGCTACCTCAGCA
ATGAGTTCAAGGTGGAGGTGAATGTGATCCACACAGCCAACCCCGTGAACATGCCAACCACATGGCTGC
CCAGCCACAGTTCGTCCACCCTGAACATCGATCCTTTGTGGACCTGTCTGGTCAACACTGGCCAATCCT
CACCCGTTTGCAGTTGTCCCAGCACGGCGACAGTGGTATTGTGGTGTGTGTCAGCTTCTGGTTTTCA
TGATCATCTGGGGTGTTCGGATCCGGGCTGCACATCAGCGAACGATGCGGGACCAGGACACGGGGAA
GGAGAATGAGATGGACTGGGATGACTCTGCCTTGACCATACCCGTCAACCCCATGGAGACATATGAGGAC
CAGCACAGCAGTGAAGGAGGAAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
ACATCACCAGTCCGAGTCTGAGAGCAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG
CCGACAGCTGGAATGGGATGACTCCACACTCAGCTACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAAAGTCACTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	BC053843
Insert Size:	2910 bp
OTI Disclaimer:	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).
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 , AAH53843
RefSeq Size:	4486 bp
RefSeq ORF:	2909 bp
Locus ID:	65945
Cytogenetics:	4 E2
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]