

## Product datasheet for **RR209943**

### **Clstn2 (NM\_134377) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Clstn2 (NM_134377) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Clstn2
Synonyms:	Cs2; Cstn2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR209943 representing NM\_134377  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTGCCGGGGAGGCTGTGCTTGGTGCCGCTCCTGCTGGCGCTGGGCGTAGGGAGCGGGGAGGCAGCG  
 GCGACGGCGGGGACAGCCGGCGCGCCGCTCCTCGCGCGAAAGTCAATAAACACAAGCCATGGATCGA  
 GACATCGTATCATGGAGTCATACTGAGAACAATGACACAGTCATCTTGACCCTACTATCGTAGCCCTG  
 GACAAAGACGCCCCAGTGCCATTTGAGGGGAAATCTGCGCATTCAAGATCCATGGGCAGGAGCTGCCTT  
 TTGAAGCTGTGGTCTCAATAAGACATCTGGAGAGGGCCGGCTCCGTGCCAAGAGTCCCATCGACTGTGA  
 GCTACAGAAGGAGTACACATTCATCCAGGCCATGACTGTGGTGCAGGACCTCAGGAAGCAGCCTGG  
 AAGAAGTCACACAAGGCTGTGGTCCACATCCAGGTGAAGGATGTCAATGAGTTCGACCCACCTTCAAAG  
 AACCAGCCTACAAAGCCATCGTCACAGAGGGCAAGATCTATGACAGCATCCTGCAGGTAGAAGCCATCGA  
 TGAGGACTGCTCCCCCAATACAGCCAGATTTGCAACTATGAAATGTGACGACGGATGTGCCTTTTGCC  
 ATTGACAGAAATGGCAACATCAGAAACTGAGAAGCTGAGCTATGACAAGCAACGCCAGTATGAGATCC  
 TGGTAAGTGTATGACTGTGGACAGAAGCCCGCTGCTCAGGACACCCTGGTCCAGGTGGATGTGAAGCC  
 AGTGTGTAAGCCTGGCTGGCAAGATTGGACAAAAGGATTGAGTACCAGCCCGGCTCAGGGAGTATGCC  
 TTGTTCCCGGCATCCACCTGGAGACATGCGACGGAGCTGTGCTCCCTCCAGTCACTGCAGAGCTGC  
 AGACTAATTACATCGGCAAGGGCTGTGACCGAGAGACCTACTCTGAGAAATCCCTTCAGAAACTATGTGG  
 AGCATCCTCGGCATCATCGACCTTTGCCATCCCCTAGTGGCGGTACCAACTGGACTGCTGGACTCCTG  
 GTGGACAGCAGTGAGATGATCTCAAGTTTGTGGCAGGAGGGTCCCAAGATCCAGATGGGATTTGTGC  
 CCAAGAACCTGACAGACCAGTTCACCATCACAATGTGGATGAAACATGGCCCCAGCCCTGGCGTGAGAGC  
 TGAGAAGGAAACCATCCTCTGTAACCTCAGATAAAACTGAAATGAACCGGCATCACTATGCCTTGTATGTG  
 CACAACCTGCCGCTTGTCTTCTCCTGCGGAAGGACTTTGACCAGGCAGACACCTTTGCCCCGAGAGT  
 TTCACTGGAAGCTGGACCAGATTTGTGACAAAGAGTGGCATTACTATGTCATCAATGTGGAGTTCCTGT  
 GGTCACTTGTACATGGATGGAGCAACATATGAACCATACCTGGTGACCAATGACTGGCCATTATCCA  
 TCTCACATAGCCATGCAACTCACTGTGCGCGCCTGTTGGCAAGGAGGTGAAGTGGCCAAACCACGGTTT  
 CACAATTTTTCCATGGCAGCCTTGCCAGTCTCACAATCCGTCTGGCAAATGAAAGCCAGAAGGTGAT  
 TTCTTGTGTTGAGCCTGCAAAGAAGGGCTGGATATTAATCCTTGAAAGCCTTGCCGAGGGATAAAG  
 TATCACTTCAACCCTTACAGTCCATCCTTGTGATGGAAGGCGATGACATTGGGAACATCAACCAAGCCC  
 TCCAGAAAGTCTCTACATCAACTCCAGGCAGTCCCAACAGCAGGGGTCCGGCGCCTCAGACTCTCTTC  
 TAAAGTCCAGTGCTTTGGGAAGACGTGTGCATCAGCATCCCAGATGTGGATGCCTACATCATGGTCCCTG  
 CAGGCCATCGAGCCCCAGATCACCTCCAGGGAACAGAGCGTTTCTGGAGACCTGCTGCCAGTTGAAA  
 GTGCCAGAGGAGTGACTCTTCCCTGACATCAAGATCATCAGCACCTTTGCCAAGACTGAGGCCTCTGG  
 GGACTTGAGAGCTACAGGCACAGCCCCAAATCGGCAGTCTTGGAAAGAAATGCTACATAATTTGGATTT  
 TGTGATATTTGGTGTGGAGGGGACTTGGATCCAAGACAAGAGTGTGGAGCTCAACCACAGTGAGC  
 TCCACCAACGACACCTTGATGCCACCACTCTACTGCTGGCTACTCTATCTATGGTGTGGGTCCATGAG  
 CCGTTATGAGCAGGTACTGCACCACCTCGTTACCGCAACTGGCACCCCACTTCCCTTGAGACTCGGAGG  
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 TCCATGAAGTTAGAGTCTCTGATACGGAACATGTCAACCATCTTATTGTGACGCCACCTTCTCCAGTC  
 TGTCTATCACCTGAGACCCGGAGTAGTATCCAGCGCAGTTCAGTGGTCCCGAGCATCGCCACTGTGGTC  
 ATCATTATCTCTGTGTCATGCTAGTGTGTTGTTGGCCATGGGTGTGTACCGAGTCCGAATTGCCACC  
 AGCATTATCAAGAGACTGAGGCTGCCAAGGAGGCTGAAATGGATTGGGATGACTCTGCACTGACTAT  
 CACAGTCAACCCTATGGAGAAACATGAAGGACCAGGGCATGGAGAAGACGAGACTGAAGGAGAGGAAGAA  
 GAAGAAGCAGAGGAAGGCATGAGCTCCAGCAGCAGTGGCTCTGATGACAGTGAAGAGGAAGAAGAGGAAG  
 GGATGGGCAGAGTCAGACATGGCAGAGTGGCACCAGCTCTCAACGCCCTGAAAGAAGTACCTGGAATAC  
 AGCAGGAGTCATAAACATTTGGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR209943 representing NM\_134377  
Red=Cloning site Green=Tags(s)

MLPGRLCLVPLLLALGVSGGGSGDGGDSRRRRLLAAKVNKHKPWIETSYHGVITENNDTVILDPTIVAL  
DKDAPVPFAGEICAFKIHQELPFEAVLNTKSGEGLRAKSPIDCELQKEYTFIIQAYDCGAGPQEA  
KKSHKAVVHIQVKDVNEFAPTFKEPAYKAIVTEGKIYDSILQVEAIDEDCSPQYSQICNYEIVTTDVPFA  
IDRNGNIRNTEKLSYDKQRQYEILVTAYDCGQKPAADTLVQVDVKPVCKPGWQDWTKRIEYQPGSGSMP  
LFPGIHLETCDGAVSSLQVTAELQTNYIGKCDRETYSEKSLQKLCGASSGIIDLLPSPAATNWTAGLL  
VDSSEMIKFKDGRQGAKIPDGIVPKNLTDQFTITMWMKHGSPGVRAEKETILCNSDKTEMNRHHYALYV  
HNCRLVFLLRKDFDQADTFRPAEFHWKLDQICDKEWHYVYINVEFPVVTLYMDGATYEPYLVNDWPIHP  
SHIAMQLTVGACWQGGVAKPRFAQFFHGSLASLTIRPGKMSQKVISCLQACKEGLDINSLESLGRGIK  
YHFNPSQSILVMEGDDIGNINQALQKVSYINSRQFPTAGVRRRLSSKVQCFGEDVCISIPDVDAYIMVL  
QAIEPQITLQGTERFWPAAQFESARGVTLFPDIKIISTFAKTEASGDLRATGTAPKSAVLEEMLNHDF  
CDILVGGDLDRQECLELNHSELHQRHLDATNSTAGYSIYGVGMSRYEQVLHHLRYRNWHPSTLETRR  
FQIKCSELNGRYTSNEFNLEVSVLHEVRSVDETHVNHLIVQPPFLQSVYHPETRSSIQRSSVVPSTATV  
IISVCMVLFVAVMGVYRVAHQHF IQE TAAAKEAEMDWDSALTITVNPMEKHGEPGHGEDETEGEEE  
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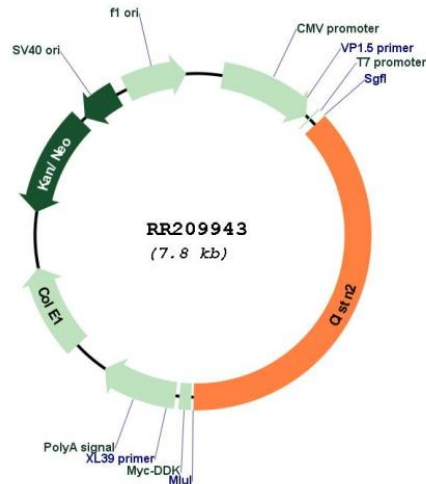
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_134377

**ORF Size:** 2895 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:**

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:** [NM\\_134377.1](#), [NP\\_599204.1](#)

**RefSeq Size:** 2920 bp

**RefSeq ORF:** 2898 bp

**Locus ID:** 171394

**UniProt ID:** [Q8VDA1](#)

**Cytogenetics:** 8q31  
**MW:** 107.7 kDa  
**Gene Summary:** postsynaptic membrane protein involved in excitatory synaptic transmission [RGD, Feb 2006]