

Product datasheet for **MG202603**

Cbln2 (NM_172633) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Cbln2
Synonyms: 6330593N19Rik; A730004O05
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG202603 representing NM_172633
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCCCGCGCCTGGCCAGGGCCCCAGAGGGCCGCTGCTGAGCATGCCCGGGCGCCGGGGGGCGCTGCGTG
 AGCCAGCCGACTTTGGCTCCAGCCTGGGGCGGTGCTGGCCCTGCTGTTGCTGCTGCCCGCCTGCTG
 CCCCCTAAGGGCTCAGAACGACACGGAGCCCATCGTGCTAGAGGGCAAGTGCCTGGTAGTGTGCGATTCC
 AGCCCCCGGGGATGGCGCCGTCACCTTCTCCCTGGGCATTTCTGTGCGCTCAGGCAGTGCCAAGGTGG
 CCTTCTCCGCTACTCGGAGCACAACCACGAGCCGTCAGAGATGAGCAACCGTACCATGACCATCTACTT
 CGACCAGGTCTTAGTAAACATTGGCAACCACTTTGACCTTGCTCCAGTATATTTGTAGCACAAGAAAAG
 GGAATTTATAGTTCAGCTTCCACGTGGTCAAAGTGTACAACAGACAACTATCCAGGTGAGCTTAATGC
 AGAATGGCTACCCGGTATCTCTGCATTTGCCGAGACCAGGATGTACCAGGGAAGCAGCCAGCAATGG
 TGTTCTGCTGCTCATGGAAAGAGAAGCAAAGTTCATCTCAAAGTACAGAGAGGCAACCTCATGGGAGGC
 TGGAAATACTCCACATTCTCGGGCTTCTTGTTTTCTCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202603 representing NM_172633
 Red=Cloning site Green=Tags(s)

MPAPGQGRGPLLSMPGRRGALREPADFGSSLGAVLALLLLLLPACCPVRAQNDTEPIVLEKGLVVCDS
 SPSGDGAVTSSLGISVRSKSAKVAFSATRSTNHEPSEMSNRTMTIYFDQVLVNIGNHFDLASSIFVAPRK
 GIYSFSFHVVKVYNRQTIQVSLMQNGYPVISAAGDQDVTREASNGVLLLNEREDKVHLKLERGNLMGG
 WKYSTFSGFLVFPL

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172633

ORF Size: 672 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_172633.4](#)

RefSeq Size: 2202 bp

RefSeq ORF: 675 bp

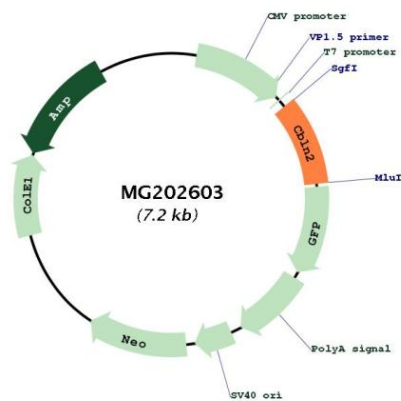
Locus ID: 12405

UniProt ID: [Q8BGU2](#)

Cytogenetics: 18 58.63 cM

Gene Summary: The protein encoded by this gene belongs to a family of secreted neuronal glycoproteins. The transcript is broadly expressed in the embryonic and adult brain with higher levels in some regions including the olfactory bulb, thalamus, and cerebral cortex. The protein can bind to presynaptic neuexins and induce synaptogenesis in cultured neurons. Null mutant mice are viable, fertile and do not display obvious neuroanatomical defects. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]

Product images:



Circular map for MG202603