

## Product datasheet for **MR228603**

### **Cbln2 (NM\_001302356) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cbln2 (NM_001302356) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cbln2
Synonyms:	6330593N19Rik; A730004O05
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228603 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCGCGCTGGCCAGGGCCCCAGAGGGCCGCTGCTGAGCATGCCCGGGCGCCGGGGGGCGCTGCGTG  
AGCCAGCCGACTTTGGCTCCAGCCTGGGGCGGTGCTGGCCCTGCTGTTGCTGCTGCTGCCCGCTGCTG  
CCCCGTAAGGGCTCAGAACGACACGGAGCCCATCGTGCTAGAGGGCAAGTGCCTGGTAGTGTGCGATTCC  
AGCCCATCGGGGATGGCGCCGTCACCTTCCCTGGCATTCTGTGCGCTCAGGCAGTGCCAAGGTGG  
CCTTCTCCGCTACTCGGAGACCAACCACGAGCCGTCAGAGATGAGCAACCGTACCATGACCATCTACTT  
CGACCAGGTCTTAGTAAACATTGGCAACCACTTTGACCTTGCCCTCCAGTATATTTGTAGCACCAAGAAAG  
GGAATTTATAGCTTCAGCTTCCACGTGGTCAAAGTGTACAACAGACAAACTATCCAGGTCAGCTTAATGC  
AGAATGGTACCCGGTGATCTCTGCATTTGCCGGAGACCAGGATGTTACCAGGGAAGCAGCCAGCAATGG  
TGTTCTGCTGCTCATGGAAGAGAAGACAAAGTTCATCTCAAAGTAGAGAGAGGCAACCTCATGGGAGGC  
TGGAAATACTCCACATTCTCGGGCTTCTTGTTTTCTCTA

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR228603 protein sequence  
 Red=Cloning site Green=Tags(s)

MPAPGQGPRGPLLSMPGRRGALREPADFGSSLGAVLALLLLLLPACCPVRAQNDTEPIVLEGKCLVVCDS  
 SPSGDGAVTSSLGISVSRSGSAKVAFSATRSTNHEPSEMSNRTMTIYFDQVLVNI GNHFDLASSIFVAPRK  
 GIYSFSFHVVVKNRQTIQVSLMQNGYPVISAFAGDQDVTREASNGVLLLMEREDKVHLKLERGNLMGG  
 WKYSTFSGFLVFPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001302356

**ORF Size:** 675 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\\_001302356.2](#)

**RefSeq Size:** 2524 bp

**RefSeq ORF:** 675 bp

**Locus ID:** 12405

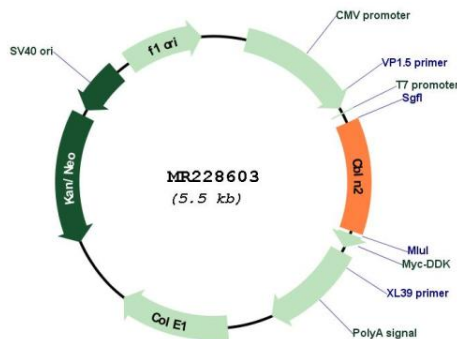
**UniProt ID:** [Q8BGU2](#)

**Cytogenetics:** 18 58.63 cM

**MW:** 24.1 kDa

**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 neurexins 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 MR228603