

Product datasheet for **MG207210**

Cblc (BC111037) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cblc (BC111037) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cblc
Synonyms:	2310076I21Rik; 2310079L19Rik; Cbl3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207210 representing BC111037
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGGCGGCAGCCCCGCGAGGGTGGCAGCGGGGCGAGCCACGCGCGCTTAGCCGGGCGGTGAAGT
 TGCTCCAGCGCCTAGAAGAGCAATGCAGGGATCCCAGGATGGTACGCGGGCCCCCGTCCCTGCGGGACCT
 GCTGCCCCGACCCGCGCAGCTACTTGGAGAGGTGGCAAAGGCCCGCGGAGGCCAGGGAAGACCCCGAG
 GGTCCCGGTGGCGCCGATGACTTTCTGGCCATCTACCTGGCCAATCTGGAGGTCAAAGGCAGGCAGGTGG
 CGGAGCTCCTGCCACCCGAGGCAAAAAGGACGTGAACCAGGATGTTTTCCGGGAGGGCTCCAGATTGAG
 GCGACAACCTGGCCAAGCTGGCCCTCATCTTCAGTCACATGCACGCGGAGTTGAGCGCACTTCCCTGCT
 GGGAACTACTGTGGGCACCTGTACCAGCTACCAAGGGCTCTGCCACATCTTCTGGAGGCAGAATTGTG
 GAGTTCGGTGCCTGCTCCCTGGGCTGAGTTCAGTCCCTCCTGTGTGCCTGCCACCCTGTGAACCAGG
 CCCCACATGCAGGCCTTGGCGTCCACCTTGGACCTCACCTGTAACGGCCACGTGTCTGTCTTTGAGTTT
 GAGCTCTTCAACAGGCTCTTTCAGCCGTGGCCACTTTACTGAGGAATTGGCAACTCCTGGCTGTCAACC
 ATCCTGGCTACATGGCCTTCTCACCTACGATGAGGTCCAAACACGCCTGACAGGCCTACAGGGACAACCC
 AGGCAGCTATATCTTCCGGCCAAGCTGTACCCGCTGGGGCAGTGGGCCATTGGATACGTGAGCTCCGAT
 GGAAGCATCCTGCAAACCATCTCTCAACAACTCTGCTGCAGGTGCTCCTGAAGGGACAAAAGGACG
 GCATCTTCTCTTCCCTGATGGAAGAAACACAACCCAGACCTGACTGAGCTCTGCCGGGTAGAACCCTA
 CCAACGCATCAAAGTGTGAGGACTCAGACAGCCAGACCTGTCCCTTCTGCCGTTGTGAGATCAAAGGT
 CGAGAGGCCGTGAGTATCTGTGAGGCACAGGAGAGGCCAACGGAGGTGAGGACTGCTGCAGATGACTCAA
 GAGACAACCTGTACCAGGAGGCTGCTGAGCAGAACTGGGGCCGGTGATTCCTCTGCTCCCTCACTACT
 CCTGAAGATCAGTTCCTCAGGACCCCAAGACAAGGCTGGCTGACACTGGCACCCTCGCCCTGCC
 AGGCTCCGACCTCCACTTCTCTCCCAAAATGGCCTCGGTTCTGTGGGAGTCACTCCAGGCCCGGG
 CCAGGGAGGAGCCACAGAAAGCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207210 representing BC111037
 Red=Cloning site Green=Tags(s)

MAAAAAPRGWQRGEPRALSRAVKLLQRLLEEQCRDPRMVTGPPSLRDLLPRTAQLLGEVAKARREAREDEPE
 GPGGADDFLAIYLANLEVKGQVAELLPPRGKKDQVDFREGSRFRRLAKLALIFSHMHAELSA LFPA
 GK YCGHLYQLTKGSAHIFWRQNCVRCVLPWAEFQSLLCACHPVEPGPTMQALRSTLDLTCNGHVS VFEF
 DVFTRLFPWP TLLRNWQLLAVNHPGYMAFLTYDEVQTRLQAYRDKPGSYIFRPSCTRLGQWAIQVYSSD
 GSILQTIPLNKPLLQVLLKGQKDGIFLFPDGKKNPDLTELCRVEPYQRIQVSESDSQTCPFCRCEIKG
 REAVSICQAQERPTEVRTAADDSDRNCHQEAAEQKLGPIVPSAPSLLPEDQFPQGPQDKGWLTLAPLALP
 RLRPPLPLPKMASVLEWVTSRPRAREEATESS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC111037

ORF Size: 1358 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: [BC111037](#), [AAI11038](#)

RefSeq Size: 1527 bp

RefSeq ORF: 1358 bp

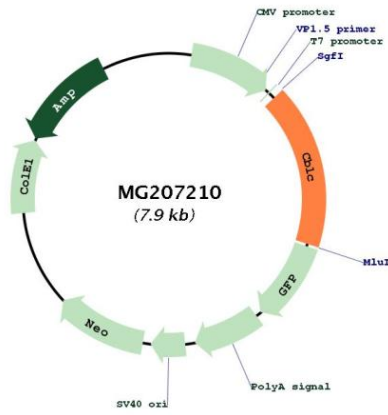
Locus ID: 80794

Cytogenetics: 7 A3

Gene Summary:

Acts as an E3 ubiquitin-protein ligase, which accepts ubiquitin from specific E2 ubiquitin-conjugating enzymes, and then transfers it to substrates promoting their degradation by the proteasome. Functionally coupled with the E2 ubiquitin-protein ligases UB2D1, UB2D2 and UB2D3. Regulator of EGFR mediated signal transduction; upon EGF activation, ubiquitinates EGFR. Isoform 1, but not isoform 2, inhibits EGF stimulated MAPK1 activation. Promotes ubiquitination of SRC phosphorylated at 'Tyr-424', has the highest ubiquitin ligase activity among CBL family proteins. In collaboration with CD2AP may act as regulatory checkpoint for Ret signaling by modulating the rate of RET degradation after ligand activation; CD2AP converts it from an inhibitor to a promoter of RET degradation; the function limits the potency of GDNF on neuronal survival.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207210