

Product datasheet for **RN201072**

Cblc (NM_001034920) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cblc (NM_001034920) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cblc
Synonyms:	MGC124804
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN201072 representing NM_001034920
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCGGCTACAGCCCCGAAGGTTGGCAGTGGGAGAGCCACGCGCTTGGCCGGCCGTTAAAGT
 TGCTCCAGCGCCTGGAAGAGCAATGCAGGGATCTCAGGCTGTTTCGTGGGGCCCCGTCGCTACGGGACCT
 GCTACCCCGCACCGCACAGCTACTTCGAGAGGTGGCAAAAAGCCGGAGCGATAAGACCAGGGGAGACCCC
 GAGGGTCCCGGAGGCGCCGGTGATTTTCTGGTTATCTACCTGACCAACCTGGAGGCCAAAGGCAGGCAGG
 TGGCTGAGCTCCTGCCACACCGCGGCAAAAAGGACGCGAACCAGGATGTTTTCCCGGAGGGCTCCAGATT
 CAGGCGACAACCTGGCCAAGCTGGCTCTCATCTTCAGTCACATGCATGCGGAGTTGAGCGCACTCTCCCT
 GAGGGCAAGTACTGTGGGCACCTGTACCAGATACCAAGGGCTCTGCCAACACCTTCTGGAGGGAGAATT
 GTGGAGTTCGGTGCCTCTCCCTGGGCTGAGTCCAGTCCCTCTGTGCTCTGCCACCCTGTGGAACC
 AGCCCCATCATGCAGGCCTTGGGTCCACCTTGACCTCACCTGTAGCGCCACGTGTCTGTCTTTGAG
 TTCGACATCTTACCAGGCTCTCCAGCCGTGGCCACTTTACTGAAGAATTGGCAACTCCTGGCTGTCA
 ACCATCCTGGCTACATGGCCTTCTCACCTACGATGAGGTCCAACACGCTCTGCAGGCCTACAGGGACAA
 ACCGGGACGATATATCTCCGGCCAGCTGTACCCGCTAGGGCAGTGGGCCATTGGGTACGTGAGCTCC
 AATGGAAGCATCTACAGACCATCCTCTCAACAAGCCTCTGCTCCAGGTGCTCCTGAAAGGACAAAAGG
 ACGGCATCTTCTCTACCTGATGGAAAGAACCACAACCCAGACTTGACTGAGCTCTGCCGTGCAGAACT
 GAACCAAGTGCATCAAGTGTACAGGAACAACCTGCAGCTCTACCAAGCCATGAATCCACCTTTGAGCTG
 TGCAAGATCTGCACAGAGAGGGACAAGGACGTGAGAATTGAGCCCTGTGGGCATCTTCTCTGCAGCTGT
 GCCTGGCTGCCTGGCAGCACTCAGACAGCCAGACCTGTCCCTTCTGCCGCTGTGAGATCAAAGGCCGAGA
 GGCTGTGAGTATCTGTACAGGCACAGGAGAGGTCAATGGAGGTGAGGACTACTGCAGGTGACTCAGGAGAC
 AACTGTACCAGGAGGCTGCCGAATGGAAACTGGAATCGGTGACTCCTTCTGCTCCCCACTGCCCCCTG
 AAGTTCCATGCCCTCAGAGACCCCAAGACAAAGGCTGGCTGACTGACCTGGCACCCGTTACCCTGCCAGACT
 CCGACCTCCACTTCTCTCCCCAAAATGGCATCAGTTCTGTGGGAAGTCACCTCCAGGCCCCAGGTCAGG
 GAGGGGGCCACAGAAAGCTCC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001034920

Insert Size: 1494 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:

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_001034920.2](#), [NP_001030092.1](#)

RefSeq Size: 1712 bp

RefSeq ORF: 1494 bp

Locus ID: 292699

UniProt ID: [G3V8H4](#)

Cytogenetics: 1q21

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. Inhibits EGF stimulated MAPK1 activation. Promotes ubiquitination of SRC phosphorylated at 'Tyr-419', 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]