

Product datasheet for **MR220739**

Cblc (NM_023224) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cblc (NM_023224) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cblc
Synonyms:	2310076I21Rik; 2310079L19Rik; Cbl3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR220739 representing NM_023224
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGCGGCGGCAGCCCCGCGAGGGTGGCAGCGGGCGAGCCACGCGCGCTTAGCCGGGCGGTGAAGT
 TGCTCCAGCGCCTAGAAGAGCAATGCAGGGATCCAGGATGGTACGCGGGCCCCGCTCCCTGCGGGACCT
 GCTGCCCCGACCGCGCAGCTACTTGGAGAGGTGGCAAAGGCCCGCGGAGGCCAGGGAAGACCCCGAG
 GGTCCCGGTGGCGCCGATGACTTTCTGGCCATCTACCTGGCCAATCTGGAGGTCAAAGGCAGGCAGGTGG
 CGGAGCTCCTGCCACCCGAGGCAAAAAGGACGTGAACCAGGATGTTTTCCGGGAGGGCTCCAGATTGAG
 GCGACAACCTGGCCAAGCTGGCCCTCATCTTCAGTCACATGCACGCGGAGTTGAGCGCACTTCCCTGCT
 GGGAACTACTGTGGGCACCTGTACCAGCTACCAAGGGCTCTGCCACATCTTCTGGAGGCAGAATTGTG
 GAGTTCGGTGCCTGCTTCCCTGGGCTGAGTTCAGTCCCTCCTGTGTGCCTGCCACCTGTGGAACCAGG
 CCCCACATGCAGGCCTTGGCGTCCACCTTGGACCTCACCTGTAACGGCCACGTGTCTGTCTTTGAGTTT
 GACGTCTTACCAGGCTCTTTCAGCCGTGGCCACTTTACTGAGGAATTGGCAACTCCTGGCTGTCAACC
 ATCCTGGCTACATGGCCTTCTCACCTACGATGAGGTCCAAACACGCCTGCAGGCCTACAGGGACAACCC
 AGGCAGCTATATCTTCCGGCCAAGCTGTACCCGCTGGGGCAGTGGGCCATTGGATACGTGAGCTCCGAT
 GGAAGCATCCTGCAAACCTTCTCTCAACAACTCTGCTGCAGGTGCTCCTGAAGGGACAAAAGGACG
 GCATCTTCTCTTCCCTGATGGAAAGAAACACAACCCAGACCTGACTGAGCTCTGCCGGGTAGAACCCTA
 CCAACGCATCAAAGTGTGAGAGGAACTGCTGCTCTACCAAGCCATGAACTCCACGTTCCAGCTGTGC
 AAGATCTGCGCAGAGAGGACAAGGACGTGAGGATCGAGCCCTGTGGGCATCTTCTCTGCAGCTCGTGC
 TGGCTGCCTGGCAGGACTCAGACAGCCAGACCTGTCCCTTCTGCCGTTGTGAGATCAAAGGTCGAGAGGC
 CGTGAGTATCTGTCAGGCACAGGAGAGGCCAACGGAGGTGAGGACTGCTGCAGATGGCTCAAGAGACAAC
 TGTACCAGGAGGCTGCTGAGCAGAACTGGGGCCGGTATTCCCTCTGCTCCCTCACTACTCCCTGAAG
 ATCAGTCCCTCAGGGACCCCAAGACAAAGGCTGGCTGACACTGGCACCCTCGCCCTGCCAGGCTCCG
 ACCTCCACTTCTCTCCCAAAATGGCCTCGGTTCTGTGGGAAGTCACTCCAGGCCCGGGCCAGGGAG
 GAGGCCACAGAAAGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220739 representing NM_023224
 Red=Cloning site Green=Tags(s)

MAAAAAPRGWQGEPRALSRAVKLLQRLLEEQRDPRMVTGPPSLRDLLPRTAQLLGEVAKARREAREDEPE
 GPGGADDFLAIYLANLEVKGQVAELLPPRGKQDVNQDVFREGSRFRRLAKLALIFSHMHAELSALFPA
 GKYCGHLYQLTKGSAHIFWRQNCGVRCVLPWAEFQSLLCACHPVEPGPTMQALRSTLDLTCNGHVSVEF
 DVFTRLFQPWPTLLRNWQLLAVNHPGYMAFLTYDEVQTRLQAYRDKPGSYIFRPSCTRLGQWAIQYVSSD
 GSILQTIPLNKPQLLVLLKGQKDGIFLFPDGKKNPDLTELCRVEPYQRIQVSEEQLLLYQAMNSTFQLC
 KICAERDKDVRIEPCGHLLCSCCLAAWQSDSDQCPFCRCEIKGREAVSICQAQERPTEVRTAADGSRDN
 CHQEAAEQKLGPIPSAPSLLPEDQFPQGPQDKGWLTLAPLALPRLRPPLPKMASVLWEVTSRPRARE
 EATESS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_023224

ORF Size: 1488 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_023224.5](#), [NP_075713.3](#)

RefSeq Size: 1677 bp

RefSeq ORF: 1491 bp

Locus ID: 80794

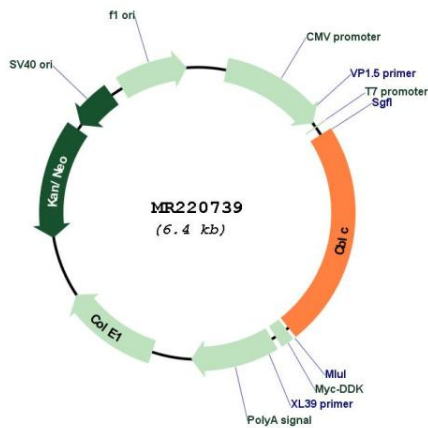
UniProt ID: [Q80XL1](#)

Cytogenetics: 7 A3

MW: 56.2 kDa

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 MR220739