

Product datasheet for **MR222573**

Ccnb1ip1 (NM_001111119) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ccnb1ip1 (NM_001111119) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ccnb1ip1
Synonyms: Gm288; Hei10; mei4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR222573 representing NM_001111119
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTTTGTGTGAAGACATGCTGCTTTGCAATTATCGGAAGTGTGGATCAAGCTCTCTGGTTATGCTT
GGGTCACCTGCCTGTTCTCACATCTTCTGCGATCAGCACGGCAGCGGGGAGTTCAGTCGTTACCAGCGAT
CTGTCCTGCTTGAACAGTACCCTTTCTGGAAAGCTAGATATTGTTTGAACAGAAGTTCAGTCCATCAGAG
GAGTACAAAGCTATGGTATTGGCAGGGCTTCGCCAGAGGTTGTTTTGGACATTAGCTCCCGGGCATTGG
CCTTCTGGACATACCAGGTACACCAGGAGCGTCTCTATCAAGAGTATAATTTAGCAAGGCCGAGAACCA
CTTAAACAGATGGAGAAGATGTATATGCAGCAAATACAGAGCAAAGAATATAGAATTGACCTCTATGAAA
GGGGAGGTTATTTCCATGAAGAAAGTCTAGAAGAATACAAGAAAAAGTTTAGTGACATCTCTGAAAAAC
TTATGGAGCGTAATCGCCAGTACCAAAAGCTCCAAGGCCTTTATGATAGCCTTAGGCTAAGAAAATACAC
TATCGCCAGCCAAGAAGGCTCCCTGGAACAGGTATGATCCCAGCTGGAGTCTTTGGCTTCCCACCA
GGGAATAACTCAAAGTTTTCTTTGGACCATATACCAGTTGGAAATCAAGGTGGTGGAGATGAAGATGTTT
AGTTCAGACCATTTTTGTGTCTCCACAGCGCCTGAACCCATTAACAACCTCTTTAGTTTTGCATC
TCCAAGCCATGAAGCAGAGCAGCAAGTCTGCAGCAGGGCCTTTAAAGCAAAAAGAATT

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA**



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Protein Sequence: >MR222573 representing NM_001111119
Red=Cloning site Green=Tags(s)

MSLCEDMLLCNYRKCRIKLSGYAWVTACSHIFCDQHSGGEFSRSPAICPACNSTLSGKLDIVRTELSPE
 EYKAMVLAGLRPEVVLDISSRALAFWYQVHQRLEYQYNFSKAENHLKQMEKMYMQQIQSKNIELTSMK
 GEVISMKKVLEEYKKKFSDISEKLMERNRQYQKLQGLYDSLRLRNITIASQEGSLEPGMIPQSGVGFPP
 GNNSKFSLDHIPVGNQGGDEDVQFRPFFVCSPTAPEPINNFFSFASPSHEAEQQVCSRAFKAKRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9038_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001111119

ORF Size: 828 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_001111119.1](#), [NP_001104589.1](#)

RefSeq Size: 1508 bp

RefSeq ORF: 831 bp

Locus ID: 239083

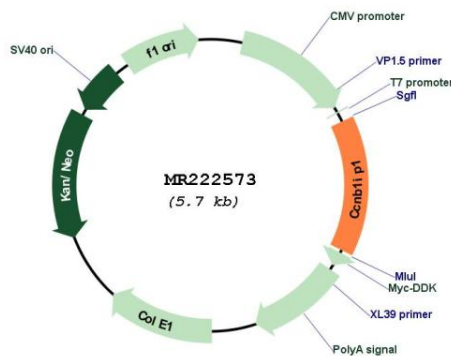
UniProt ID: [D3Z3K2](#)

Cytogenetics: 14 C1

MW: 31.8 kDa

Gene Summary: Ubiquitin E3 ligase that acts as a limiting factor for crossing-over during meiosis: required during zygonema to limit the colocalization of RNF212 with MutS-gamma-associated recombination sites and thereby establish early differentiation of crossover and non-crossover sites. Later, it is directed by MutL-gamma to stably accumulate at designated crossover sites. Probably promotes the dissociation of RNF212 and MutS-gamma to allow the progression of recombination and the implementation of the final steps of crossing over. Modulates cyclin-B levels and participates in the regulation of cell cycle progression through the G2 phase. Overexpression causes delayed entry into mitosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222573