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Product datasheet for MG222573

Ccnb1ip1 (NM_001111119) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccnb1ip1 (NM_001111119) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ccnb1ip1
Synonyms:	Gm288; Hei10; mei4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG222573 representing NM_001111119
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTTTGTGTGAAGACATGCTGCTTTGCAATTATCGGAAGTGTCGGATCAAGCTCTCTGGTTATGCTT
GGGTCACTGCCTGTTCTCACATCTTCTGCGATCAGCACGGCAGCGGGGAGTTCAGTCGTTCACCAGCGAT
CTGTCCTGCTTGCAACAGTACCCTTTCTGGAAAGCTAGATATTGTTCGAACAGAACTCAGTCCATCAGAG
GAGTACAAAGCTATGGTATTGGCAGGGCTTCGCCCAGAGGTTGTTTTGGACATTAGCTCCCGGGCATTGG
CCTTCTGGACATACCAGGTACACCAGGAGCGTCTCTATCAAGAGTATAATTTCAGCAAGGCCGAGAACCA
CTTAAAACAGATGGAGAAGATGTATATGCAGCAAATACAGAGCAAGAATATAGAATTGACCTCTATGAAA
GGGGAGGTTATTTCCATGAAGAAAGTTCTAGAAGAATACAAGAAAAAGTTTAGTGACATCTCTGAAAAAC
TTATGGAGCGTAATCGCCAGTACCAAAAGCTCCAAGGCCTTTATGATAGCCTTAGGCTAAGAAATATCAC
TATCGCCAGCCAAGAAGGCTCCCTGGAACCAGGTATGATCCCGCAGTCTGGAGTCTTTGGCTTCCCACCA
GGGAATAACTCAAAGTTTTCTTTGGACCATATACCAGTTGGAAATCAAGGTGGTGGAGATGAAGATGTTC
AGTTCAGACCATTTTTTGTGTGTTCTCCCACAGCGCCTGAACCCATTAACAACTTCTTTAGTTTTGCATC
TCCAAGCCATGAAGCAGAGCAGCAAGTCTGCAGCAGGGCCTTTAAAGCAAAAAGAATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

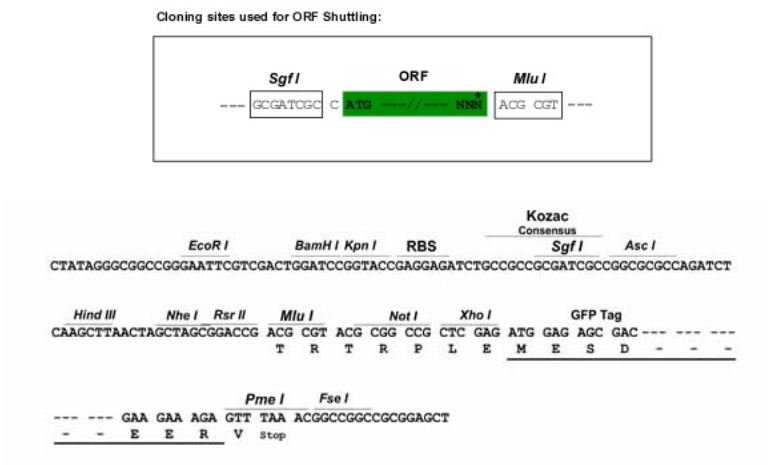
>MG222573 representing NM_001111119
Red=Cloning site Green=Tags(s)

MSLCEDMLLCNYRKCRIKLSGYAWVTACSHIFCDQHGSGEFSRSPAICPACNSTLSGKLDIVRTELSPSE
EYKAMVLAGLRPEVVLDISSRALAFWTYQVHQERLYQEYNFSKAENHLKQMEKMYMQQIQSKNIELTSMK
GEVISMKKVLEEYKKKFSDISEKLMERNRQYQKLQGLYDSLRLRNITIASQEGSLEPGMIPQSGVFGFPP
GNNSKFSLDHIPVGNQGGGDEDVQFRPFFVCSPTAPEPINNFFSFASPSHEAEQQVCSRAFKAKRI

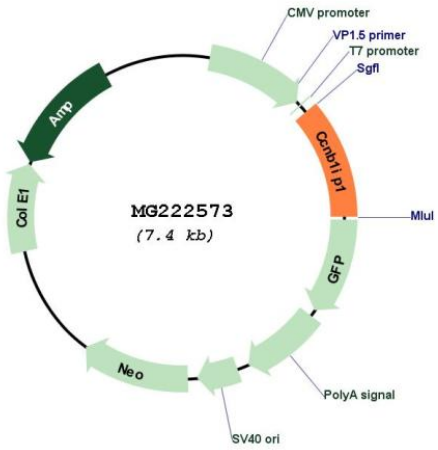
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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
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]