

## Product datasheet for MR223022

### Rec114 (NM\_028598) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Rec114 (NM\_028598) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Rec114  
**Synonyms:** 2410076I21Rik; 4930527A11Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR223022 representing NM\_028598  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGTCTGAAGCGGAAATGTGGCCTCCGGCCTCGGACTTCCAGGCGAAGTCTCCCAGTGGTCTCTGAAGC  
GCTATGGTCGCTTCATGCTCTTGGACAACGTGGGGTCCCCTGGGCTAGCTCGGAAGCTGCTGCAGCGGG  
CTCGCCACATGGAAGGTTTTTGAATCCAGTGAAGAATCCGGGAGTCTTGCCTCAGCATCGTTGTATCA  
GGTCACCTCTTCAATTTCCAAGGGCAGACACTGCTGGAAGGGTTTTCACTATTGGCAGCAAGAAGTGGT  
TGAAGATTGTAAGACGCATGGACTGTCTTCTGTTTGAACAACAATAAAGAACAAGAGCCGAATGTTTCG  
TGTCCAGTTTAGTGGGGAGTCCAAGGAAGAGGCGCTGGAGCGCTGCTGTGGCTGTGTGCAGACCCCTGGCC  
CAGTACGTCACCGTTTCAGGAGCCTGACAGCACCCAGGAGCTTTCAGCAGAGCCAAAGGCCCCCGGAGG  
CAGGTGAAAGCCAAGGGAAGGACCCACTGCAGCAGGGGCCCTCCCTGACCCTGGAGCAGCACGTGTGTAT  
GGCAGCTGGGGCAGGTGTTCTACAGGAAAGGACCTCAGTGACACATCGAGCTCAGTCTATCCTGGCGCCA  
GAGAAGCTGACCCTCGCCTATGAAGGCTTTCATGGGGAACAGAAGAATTGGGACCTTTTCTACGCTTAT  
GTCTCATGGATCAAACTTCCAGCATTGTGGAAGAGGTGAAAAGGAACCTAAAAGATTACAGGTT  
GAGAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)



**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\\_028598.1](#), [NP\\_082874.1](#)

**RefSeq Size:** 883 bp

**RefSeq ORF:** 780 bp

**Locus ID:** 73673

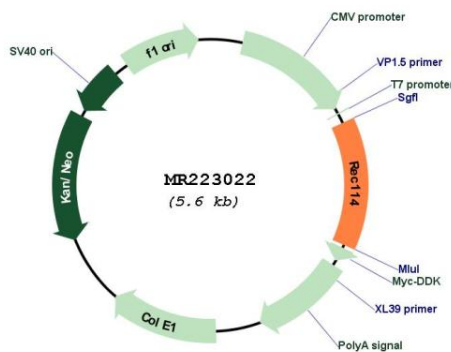
**UniProt ID:** [Q9CWH4](#)

**Cytogenetics:** 9

**MW:** 28.2 kDa

**Gene Summary:** Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination (PubMed:20551173, PubMed:27723721). Probably acts by forming a complex with IHO1/CCDC36 and MEI4, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis (PubMed:27723721). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR223022