

Product datasheet for MC211447

Rec114 (NM_028598) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Rec114 (NM_028598) Mouse Untagged Clone

Tag: Tag Free

Symbol: Rec114

Synonyms: 2410076I21Rik; 4930527A11Rik

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >MC211447 representing NM_028598
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCTGAAGCGGGAAATGTGGCCTCCGGCCTCGGACTTCCAGGCGAAGTCTCCAGTGGTCTCTGAAGC
 GCTATGGTCGCTTCATGCTCTTGGACAACGTGGGGTCCCCTGGGCTAGCTCGGAAGCTGCTGCAGCGGG
 CTCGCCACATGGAAGGTTTTTGAATCCAGTGAAGAATCCGGGAGTCTTGCTCCTCAGCATCGTTGTATCA
 GGTCACCTCTTCATTTCCAAGGGCAGACACTGCTGGAAGGGTTTTCACTCATTGGCAGCAAGAAGTGGT
 TGAAGATTGTAAGACGCATGGACTGTCTTCTGTTTGAACAACAATAAAGAACAAGAGCCGAATGTTTCG
 TGTCCAGTTTAGTGGGGAGTCCAAGGAAGAGGCGCTGGAGCGCTGCTGTGGCTGTGTGCAGACCCCTGGCC
 CAGTACGTCACCGTTTCAGGAGCCTGACAGCACCACCCAGGAGCTTCAGCAGAGCCAAGGCCCCCGGAGG
 CAGGTGAAAGCCAAGGAAGGACCCACTGCAGCAGGGGCCCTCCCTGACCCTGGAGCAGCACGTGTGTAT
 GGCAGCTGGGGCAGGTGTTCTACAGGAAAGGACCTCAGTGACACATCGAGCTCAGTCTATCCTGGCGCCA
 GAGAAGCTGACCCTCGCCTATGAAGGCTCTTCATGGGGAACAGAAGAATTGGGACCTTTTCTACGCTTAT
 GTCTCATGGATCAAACTTCCAGCATTTGTGGAAGAGGTGAAAAGGAACCTAAAAAGATTACAGGGTT
 GAGAACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_028598

Insert Size: 780 bp



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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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_028598.1</u> , <u>NP_082874.1</u>
RefSeq Size:	883 bp
RefSeq ORF:	780 bp
Locus ID:	73673
UniProt ID:	<u>Q9CWH4</u>
Cytogenetics:	9
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]