

Product datasheet for MC205141

Hormad1 (NM_026489) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hormad1 (NM_026489) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hormad1
Synonyms: 4921522K05Rik; Nohma
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC051129
 CACTTCAAGACTCTTGCCTGTCGCTGCCGGACGCTTCCCTCAGGCGGTGCGTAAAAAATATTTCTTGGAGATGGCCACTATGCAGTTGCAGAGGACAGCTTCCCTGAGTGCATTGGTATTTCCCAATAAGATATCAAC TGAGCATCAATCTTTGATGTTTGTGAAGAGGCTCCTAGCTGTTTCAGTATCTTGATCACCCTATTTGAGAGGAATATTTCCAGAACGTGCTTATGGGACAAGATATCTGGATGATCTCTGTGTCAAAATCTGAAAGAAG ATAAAAATGTCCAGGTTCTTACAGCTAGTGAAGTGGATGCTTGGATGCTATGATGCTTACAGAAAGAA ATATCTAAGGATGATCATTCTAGCTGTATACACCAATCCAGGAGATCCTCAGACAATTTCAGAATGTTAC CAGTTTAAATTCAGTACACCAAAAAATGGACCAATCATGGACTTTATAAGCAAAAAATCAAAAACAATAAT CTAGTACAACATCTGCTGACACCAAGAAAGCAAGTATTCTCCTCATTGGAAAGATTTATGTCTTAATGCA AAATCTAGGACCATTACCTAATGATGTTTGTCTGACCATGAAACTTTTTACTATGATGAAGTTACACCC CCAGATTACCAACCACCAGGTTTTAAGGATGGTACTGTGAAGGAGTAATATTTGATGGGACCCCTACAT ACTTAAATGTGGGAGAAGTCCCAACACCTTTTCACACCTTCAGATTTAAAGTGACCCTGAGAAGGAACG AATGGAAAATATTGATCAACCACTACTAAAACCAAAAAGAAATCAAAAACACAATTTGAAAAAATTTCTAATG GACAAAGATGATGTGGAAGATGAAAATCATAATAATTTTGACATTTAAACTAAAATGAACGAACAGAATG AAAACTCTGGAGCTTCTGAAATCAAAGAACCAATTTAGATTGTAAAGGAAGAAGAACTATGCAATTCAA AAAGAGCCAAAGTCCCTCAATTTCTCATTGTGAGGTTGAACAGTTAGTCAAGTAAAACATCTGAACCTGATG GTGTCTGAAAGCAAAAACAAGAAGCGGAAAAATCTTTCAGAGTAAAATGGTAAATGGAATAATCAACAAG GACAAACTTCTAAAGAAAATCGGAAGAGAAGTCTTCGTCAATTTAGGAAAACAATAATGCACCTGAGTG TAGGTGACAAACAAGATGCCCTGGACTTGGAGTTAAAGGTCCTTCAGCTTTGGAATCTAGTCAAGAGTG AGTGCTGAAGAAAAGGAGAGTTAGTGAACCAAGGAACATACCTAAAAATTTATTTTCTTATGCAAAATTT GCAGTTCTCAACATTTAACTAATATGCTGTATTATTTGAAGGTGTGCCTTCTGTACCTCTGAAAATTAT TTTGTAGTTCATAGTTATTAACTAATAAAAAGTTTGTAGCTAGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AAA

Restriction Sites: Sfil-Sfil
ACCN: NM_026489
Insert Size: 1125 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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: [BC051129](#), [AAH51129](#)

RefSeq Size: 1473 bp

RefSeq ORF: 1125 bp

Locus ID: 67981

UniProt ID: [Q9D5T7](#)

Cytogenetics: 3 F2.1

Gene Summary: Plays a key role in meiotic progression (PubMed:19686734, PubMed:21079677, PubMed:21478856). Regulates 3 different functions during meiosis: ensures that sufficient numbers of processed DNA double-strand breaks (DSBs) are available for successful homology search by increasing the steady-state numbers of single-stranded DSB ends (PubMed:19686734, PubMed:21079677). Promotes synaptonemal-complex formation independently of its role in homology search (PubMed:19686734, PubMed:21079677). Plays a key role in the male mid-pachytene checkpoint and the female meiotic prophase checkpoint: required for efficient build-up of ATR activity on unsynapsed chromosome regions, a process believed to form the basis of meiotic silencing of unsynapsed chromatin (MSUC) and meiotic prophase quality control in both sexes (PubMed:21478856).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (4) differs in the 5' UTR, and in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter and distinct C-terminus compared to isoform a. Variants 2, 3, and 4 all encode the same isoform (b).