

Product datasheet for MC227347

Hormad1 (NM_001289534) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hormad1 (NM_001289534) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hormad1
Synonyms: 4921522K05Rik; Nohma
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227347 representing NM_001289534
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGGCCACTATGCAGTTGCAGAGGACAGCTTCCCTGAGTGCATTGGTATTTCCAATAAGATATCAACTG
 AGCATCAATCTTTGATGTTTGTGAAGAGGCTCCTAGCTGTTTCAGTATCTTGCATCACCTATTTGAGAGG
 AATATTTCCAGAACGTGCTTATGGGACAAGATATCTGGATGATCTCTGTGTCAAAATTCTGAAAGAAGAT
 AAAAAATTGTCCAGTTCTTACAGCTAGTGAAGTGGATGCTTGGATGCTATGATGCTTTACAGAAGAAAT
 ATCTAAGGATGATCATTCTAGCTGTATACACCAATCCAGGAGATCCTCAGACAATTTGAGAAATGTTACCA
 GTTTAAATTAAGTACACCAAAAATGGACCAATCATGGACTTTATAAGCAAAAATCAAAAACAATAAATCT
 AGTACAACATCTGCTGACACCAAGAAAGCAAGTATTCTCCTCATTGGAAGATTTATGTCTTAATGCAAA
 ATCTAGGACATTACCTAATGATGTTTGTCTGACCATGAACTTTTTACTATGATGAAGTTACACCCCC
 AGATTACCAACCACCAGGTTTTAAGGATGGTACTGTGAAGGAGTAATATTTGATGGGGACCCTACATAC
 TTAATGTGGGAGAAGTCCCAACACCTTTTACACCTTCAGATTAAGTGAAGTACTGAGAAAGGAAAGGAA
 TGGAAAAATATTGATCAACCATACTAAAACAAAAGAATCAAAAACAAATTTGAAAAAATCTAATGGA
 CAAAGATGATGTGAAGATGAAAAATCATAATAATTTTGACATTAAGTGAAGTGAAGTGAAGTGAAGTGA
 AACTCTGGAGCTTCTGAAATCAAAGAACCAAAATTTAGATTGTAAGGAAGAAGAACTATGCAATTCAAAA
 AGAGCCAAAGTCTTCAATTTCTCATTGTGAGGTTGAACAGTTAGTCAGTAAAACATCTGAACCTTGATGT
 GTCTGAAAGCAAAAACAAGAAGCGGAAAAATCTTTCAGAGTAAAATGGTAAATGAAATAATCAACAAGGA
 CAAACTTCTAAGAAAATCGGAAGAGAAGTCTTCGTCAATTTAGGAAAACAATAAATGCACCTGAGTGTA
 GGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001289534
Insert Size:	1125 bp
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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001289534.1</u> , <u>NP_001276463.1</u>
RefSeq Size:	1709 bp
RefSeq ORF:	1125 bp
Locus ID:	67981
UniProt ID:	<u>Q9D5T7</u>
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 (2) differs 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).