

## Product datasheet for MC227457

### Hormad1 (NM\_001289532) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Hormad1 (NM\_001289532) 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: >MC227457 representing NM\_001289532  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCACTATGCAGTTGCAGAGGACAGCTTCCCTGAGTGCATTGGTATTTCCAATAAGATATCAACTG  
 AGCATCAATCTTTGATGTTTGTGAAGAGGCTCCTAGCTGTTTCAGTATCTTGCATCACCTATTTGAGAGG  
 AATATTTCCAGAACGTGCTTATGGGACAAGATATCTGGATGATCTCTGTGTCAAAATTCTGAAAGAAGAT  
 AAAAATTGTCCAGTTCTTCACAGCTAGTGAAGTGGATGCTTGGATGCTATGATGCTTTACAGAAGAAAT  
 ATCTAAGGATGATCATTCTAGCTGTATACACCAATCCAGGAGATCCTCAGACAATTTAGAAATGTTACCA  
 GTTTAAATTAAGTACACCAAAAATGGACCAATCATGGACTTTATAAGCAAAAATCAAAAACAATAAATCT  
 AGTACAACATCTGCTGACACCAAGAAAGCAAGTATTCTCCTCATTGGAAGATTTATGTCTTAATGCAAA  
 ATCTAGGACCATACCTAATGATGTTTGTCTGACCATGAAACTTTTTACTATGATGAAGTTACACCCCC  
 AGATTACCAACCACCAGGTTTTAAGGATGGTACTGTGAAGGAGTAATATTTGATGGGGACCCTACATAC  
 TTAATGTGGGAGAAGTCCCAACACCTTTTACACCTTCAGATTAAGGAGTACTGAGGAGGAGGAGGAGGAA  
 TGGAAAAATATTGATTCAACCATACTAAAACAAAAGAATCAAAAACACAATTTGAAAAAATCTAATGGA  
 CAAAGATGATGTGAAGATGAAAAATCATAATAATTTGACATTAAGGAGTAAAGTAAAGTAAAGTAAAGTAA  
 AACTCTGGAGCTTCTGAAATCAAAGAACCAAAATTTAGATTGTAAGGAAGAAGAAACTATGCAATTCAAAA  
 AGAGCCAAAGTCTTCAATTTCTCATTGTGAGGTTGAACAGTTAGTCAGTAAAACATCTGAACTTGATGT  
 GTCTGAAAGCAAAAACAAGAAGCGGAAAAATCTTTCAGAGTAAAATGGTAAATGAAATAATCAACAAGGA  
 CAAACTTCTAAAGAAAATCGGAAGAGAAGTCTTCGTCAATTTAGGAAAACAGTCTTTCACGTCTTGGAAAT  
 CTAGTCAAGAGTCAGTGTGAAGAAAAGGAGAGTTAGTGAACCAAGGAACATACCTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001289532
<b>Insert Size:</b>	1179 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001289532.1</a></u> , <u><a href="#">NP_001276461.1</a></u>
<b>RefSeq Size:</b>	1654 bp
<b>RefSeq ORF:</b>	1179 bp
<b>Locus ID:</b>	67981
<b>UniProt ID:</b>	<u><a href="#">Q9D5T7</a></u>
<b>Cytogenetics:</b>	3 F2.1
<b>Gene Summary:</b>	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 (1) encodes the longer isoform (a).