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Product datasheet for MC227348

Hormad1 (NM_001289537) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hormad1 (NM_001289537) 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:	>MC227348 representing NM_001289537 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCACTATGCAGTTGCAGAGGACAGCTTCCCTGAGTGCATTGGTATTTCCCAATAAGATATCAACTG AGCATCAATCTTTGATGTTTGTGAAGAGGCTCCTAGCTGTTTCAGTATCTTGCATCACCTATTTGAGAGG AATATTTCCAGAACGTGCTTATGGGACAAGATATCTGGATGATCTCTGTGTCAAAATTCTGAAAGAAGAT AAAAATTGTCCAGGTTCTTCACAGCTAGTGAAGTGGATGCTTGGATGCTATGATGCTTTACAGAAGAAAT ATCTAAGGATGATCATTCTAGCTGTATACACCAATCCAGGAGATCCTCAGACAATTTCAGAATGTTACCA GTTTAAATTCAAGTACACCAAAAATGGACCAATCATGGACTTTATAAGCAAAAATCAAAACAATAAATCT AGTACAACATCTGCTGACACCAAGAAAGCAAGTATTCTCCTCATTCGGAAGATTTATGTCTTAATGCAAA ATCTAGGACCATTACCTAATGATGTTTGTCTGACCATGAAACTTTTTTACTATGATGAAGTTACACCCCC AGATTACCAACCACCAGGTTTTAAGGATGGTGACTGTGAAGGAGTAATATTTGATGGGGACCCTACATAC TTAAATGTGGGAGAAGTCCCAACACCTTTTCACACCTTCAGATTAAAAGTGACCACTGAGAAGGAACGAA TGGAAAATATTGATTCAACCATACTAAAACCAAAAGAATCAAAAACACAATTTGAAAAAATTCTAATGGA CAAAGATGATGTGGAAGATGAAAATCATAATAATTTTGACATTAAAACTAAAATGAACGAACAGAATGAA AACTCTGGAGCTTCTGAAATCAAAGAACCAAATTTAGATTGTAAGGAAGAAGAAACTATGCAATTCAAAA AGAGCCAAAGTCCTTCAATTTCTCATTGTCAGGTTGAACAGTTAGTCAGTAAAACATCTGAACTTGATGT GTCTGAAAGCAAAACAAGAAGCGGAAAAATCTTTCAGAGTAAAATGGTAAATGGAAATAATCAACAAGGA CAAACTTCTAAAGAAAATCGGAAGAGAAGTCTTCGTCAATTTAGGAAAACAATAAATGCACCTGAGTGTA GGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI

View online »

ACCN:	NM_001289537
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:	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_001289537.1, NP_001276466.1
RefSeq Size:	1438 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 (3) 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).