

Product datasheet for **MR229558**

Hormad1 (NM_001289534) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hormad1 (NM_001289534) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Hormad1
Synonyms: 4921522K05Rik; Nohma
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR229558 representing NM_001289534
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCACTATGCAGTTGCAGAGGACAGCTTCCCTGAGTGCATTGGTATTTCCAATAAGATATCAACTG
AGCATCAATCTTTGATGTTTGTGAAGAGGCTCCTAGCTGTTTCAGTATCTTGCATCACCTATTTGAGAGG
AATATTTCCAGAACGTGCTTATGGGACAAGATATCTGGATGATCTCTGTGTCAAATTTGAAAGAAGAT
AAAAATGTCCAGGTTCTTACAGCTAGTGAAGTGGATGCTTGGATGCTATGATGCTTTACAGAAGAAAT
ATCTAAGGATGATCATTCTAGCTGTATACACCAATCCAGGAGATCCTCAGACAATTTCAGAATGTTACCA
GTTTAAATTCAGTACACCAAAAATGGACCAATCATGGACTTTATAAGCAAAAATCAAAACAATAAATCT
AGTACAACATCTGCTGACACCAAGAAAGCAAGTATTCTCCTCATTCCGGAAGATTTATGTCTTAATGCAAA
ATCTAGGACCATTACCTAATGATGTTTGTCTGACCATGAAACTTTTTACTATGATGAAGTTACACCCCC
AGATTACCAACCACCAGGTTTTAAGGATGGTGACTGTGAAGGAGTAATATTTGATGGGGACCCTACATAC
TTAAATGTGGGAGAAGTCCCAACACCTTTTACACCTTCAGATTAAGTGAACACTGAGAAGGAACGAA
TGGAAAATATTGATTCAACCATACTAAAACCAAAAAGATCAAAAACACAATTTGAAAAATTTCTAATGGA
CAAAGATGATGTGAAGATGAAAATCATAATAATTTTACATTAATAAATGAACTGAACTGAACTGAACTGAA
AACTCTGGAGCTTCTGAAATCAAAGAACCAAAATTTAGATTGTAAGGAAGAAGAACTATGCAATTCAAA
AGAGCCAAAGTCCTTCAATTTCTCATTGTGAGGTTGAACAGTTAGTCAGTAAAACATCTGAACCTGATGT
GTCTGAAAGCAAAAACAAGAAGCGGAAAAATCTTTAGAGTAAAATGGTAAATGAAATAATCAACAAAGGA
CAAACCTCTAAAGAAAATCGGAAGAGAAGTCTTCGTCATTTAGGAAAACAATAAATGCACCTGAGTGTA
GG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229558 representing NM_001289534
 Red=Cloning site Green=Tags(s)

MATMQLQRTASLSALVFPNKISTEHQSLMFVKRLLAVSVSCITYLRGIFPERAYGTRYLDDLCKVILKED
 KNCPGSSQLVKWMLGCYDALQKKYLRMIILAVYTNPGDPQTISECYQFKFKYTKNGPIMDFISKNQNNKS
 STTSADTKKASILLIRKIYVLMQNLGPLPNDVCLTMKLFYYDEVTPPDYQPPGFKDGDCEGVIFDGDPTY
 LNVGEVPTPFHTFRLKVTTEKERMENIDSTILKPKESKTQFEKILMDKDDVEDENHNFDIKTKMNEQQE
 NSGASEIKEPNLDCKEEETMQFKKSQSPSISHCQVEQLVSKTSELDVSESKTRSGKIFQSKMVMNGNNQQG
 QTSKENRKRSLRQFRKTINAPECR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001289534

ORF Size: 1122 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001289534.1](#), [NP_001276463.1](#)

RefSeq Size: 1709 bp

RefSeq ORF: 1125 bp

Locus ID: 67981

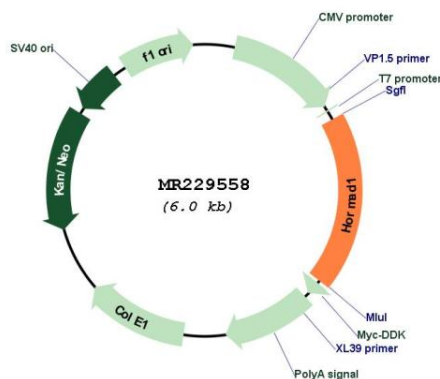
UniProt ID: [Q9D5T7](#)

Cytogenetics: 3 F2.1

MW: 42.8 kDa

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]

Product images:



Circular map for MR229558