

## Product datasheet for **MG205793**

### Hormad1 (NM\_026489) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hormad1 (NM_026489) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hormad1
Synonyms:	4921522K05Rik; Nohma
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205793 representing NM_026489 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACTATGCAGTTGCAGAGGACAGCTTCCCTGAGTGCATTGGTATTTCCAATAAGATATCAACTG  
AGCATCAATCTTTGATGTTTGTGAAGAGGCTCCTAGCTGTTTCAGTATCTTGCATCACCTATTTGAGAGG  
AATATTTCCAGAACGTGCTTATGGGACAAGATATCTGGATGATCTCTGTGTCAAATTTGAAAGAAGAT  
AAAAATTGTCCAGTTCTTACAGCTAGTGAAGTGGATGCTTGGATGCTATGATGCTTTACAGAAGAAAT  
ATCTAAGGATGATCATTCTAGCTGTATACACCAATCCAGGAGATCCTCAGACAATTTCAGAATGTTACCA  
GTTTAAATTCAAGTACACCAAAAATGGACCAATCATGGACTTTATAAGCAAAAATCAAAAACAATAAATCT  
AGTACAACATCTGCTGACACCAAGAAAGCAAGTATTCTCCTCATTCCGGAAGATTTATGTCTTAATGCAAA  
ATCTAGGACCATTACCTAATGATGTTTGTCTGACCATGAAACTTTTTACTATGATGAAGTTACACCCCC  
AGATTACCAACCACCAGTTTTAAAGGATGGTGACTGTGAAGGAGTAATATTTGATGGGGACCCTACATAC  
TTAAATGTGGGAGAAGTCCCAACACCTTTTACACCTTCAGATTAAGTGAACACTGAGAAGGAACGAA  
TGGAAAATATTGATTCAACCATACTAAAACCAAAAAGATCAAAAACACAATTTGAAAAATTTCTAATGGA  
CAAAGATGATGTGAAGATGAAAATCATAATAATTTTACATTAATAACTAAAATGAACGAACAGAATGAA  
AACTCTGGAGCTTCTGAAATCAAAGAACCAAAATTTAGATTGTAAGGAAGAAGAACTATGCAATTCAAA  
AGAGCCAAAGTCCTTCAATTTCTCATTGTGAGGTTGAACAGTTAGTCAGTAAAACATCTGAACCTTGATGT  
GTCTGAAAGCAAAAACAAGAAGCGGAAAAATCTTTGAGAGTAAAATGGTAAATGAAAATAATCAACAAAGGA  
CAAACCTCTAAAGAAAATCGGAAGAGAAGTCTTCGTCATTTAGGAAAACAATAATGCACCTGAGTGTA  
GG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205793 representing NM\_026489  
Red=Cloning site Green=Tags(s)

MATMQLQRTASLSALVFPNKISTEHQSLMFVKRLLAVSVSCITYLRGIFPERAYGTRYLDDLCVKILKED  
 KNCPGSSQLVKWMLGCYDALQKKYLRMIILAVYTNPGDPQTISECYQFKFKYTKNGPIMDFISKNQNNKS  
 STTSADTKKASILLIRKIYVLMQNLGPLPNDVCLTMKLFYYDEVTPPDYQPPGFKDGDGCEGVIFDGDPTY  
 LNVGEVTPPFHTFRLKVTTEKERMENIDSTILKPKESKTQFEKILMDKDDVEDENHNFDIKTKMNEQNE  
 NSGASEIKEPNLDCKEEETMQFKKSQSPSISHCQVEQLVSKTSELDVSESKTRSGKIFQSKMVNGNNQQG  
 QTSKENRKRSLRQFRKTIINAPECR

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1974\\_a06.zip](https://cdn.origene.com/chromatograms/ja1974_a06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_026489

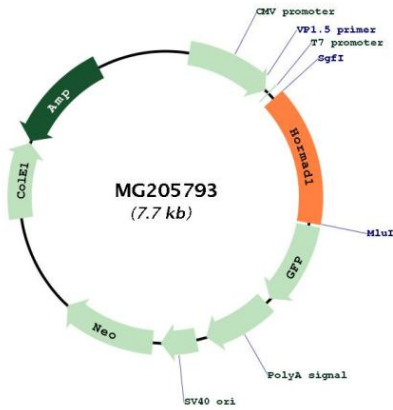
**ORF Size:** 1122 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_026489.3</a> , <a href="#">NP_080765.1</a>
<b>RefSeq Size:</b>	1511 bp
<b>RefSeq ORF:</b>	1125 bp
<b>Locus ID:</b>	67981
<b>UniProt ID:</b>	<a href="#">Q9D5T7</a>
<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]

Product images:



Circular map for MG205793