

## Product datasheet for **MR205793L4V**

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

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Hormad1 (NM_026489) Mouse Tagged ORF Clone Lentiviral Particle   |
| Symbol:                   | Hormad1  |
| Synonyms:                 | 4921522K05Rik; Nohma   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_026489  |
| ORF Size:                 | 1122 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(MR205793).   |
| 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. <a href="#">More info</a> |
| OTI Annotation:           | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.   |
| RefSeq:                   | <a href="#">NM_026489.3</a> , <a href="#">NP_080765.1</a>  |
| RefSeq Size:              | 1700 bp  |
| RefSeq ORF:               | 1125 bp  |
| Locus ID:                 | 67981  |
| UniProt ID:               | <a href="#">Q9D5T7</a>   |
| Cytogenetics:             | 3 F2.1   |



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**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]