

## Product datasheet for MC224461

### Hfm1 (NM\_177873) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hfm1 (NM\_177873) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Hfm1  
**Synonyms:** A330009G12Rik; Gm1046; Mer3; Sec63d1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224461 representing NM\_177873  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGCCAAAGTCAGACGATTGCTTCTTTCCATGGATAATTTGTTTTTCAGTAGCCAGATGAAACTGAAA  
 ACTTTCCAGTTAAGGAAAAATCACTGGATTGGTTTCTCCCTCCTGCTCCACTGATTCAGAAATTCAGA  
 TATTCAAGAGTTAGAGGAAGAAATGAAAGTTATAAGCTACTAGGAAAGGAAAGATGCCAAGAATGTTA  
 ACATCAAACCTGAAGATCATAATGAAGACACAAATTGTATTTCCACCAACACAAAAATCCATTTTCT  
 ATAATGTACATGAACAGGATTACCTAAATTTAGGAGGATCAAATAACAATGACATGTCCCATGTAGCTGG  
 GAAGCTGATGATGGTTCTTCTCAGAAATATAAAAAATCACATGGGTGCTAAGAGTCCATCTGCAAGGAGT  
 AGTCTGGTGATACAAAATTACATGATGTGGCAGAAAGACAGACAGGGCACATCAGCATTCAAAAAAGAC  
 TGTCTAGAACATGTGACAGTGAACATGACTGTGACTATGCTGATGGAAGTTTAACTTGAGTTCTCATAT  
 CAGCCCAGTGAACCTTACCCAAACGAAAATAAGCAAAGAGAATGCATGGACGTGTAGCAATAGTAAGCAG  
 AAACGTCAGTATTCTACAAACAAATTCAAAGCAAATGATGCTTTTTCTGCTTCTGGAATGGAAAAGACA  
 TATTCAAAGCACCATCATTTCTGCTGCATCTCAGCCTCATGATTTCAAGGAATAACCCCAAATGGCTT  
 AGGTTCTTTGAAAGCTGTACGGAAATCCCGGCAAAATTTAGAAATATATTCAAAGAATTCCTTACTTC  
 AACTATATAACAATCCAAAGCCTTTGATGATCTTCTTTACACAGATAGGAATTTTGTGATTTGTGCCCCA  
 CTGTTTCTGGGAAAAGTGTAGTGTGAGCTAGCGATAACAAGATTGTTAATGGAAGTACCATTGCCATG  
 GCTAAACATGAAGATTGTTTACATGGCACCAATAAAAGCCCTTTGTAGTCAGCGTTTGTGACTGGAAA  
 GAAAAGTTGGACCAGTAGGCTTGAATTGTAAGAAGTACTGGTGATACAGTAATGGATGACCTGTTTG  
 AGATTCAGCATGCAAATATAATTATAACAACCTCCAGAGAAGTGGGACAGTGTGACTAGGAAGTGGAGAGA  
 CAACTCTTTTATCCAACCTGGTTCGACTGTTTCTCATTGATGAGGTGCATGTTATTAAGATGAAAATCGT  
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 CCAGCCCTGTTCCAGTGAGATTTGTAGCTGTGTCTGCAACAATCCCAATGCTGAGGATATCGCAGAATG  
 GCTTTCAGATGGTGAGAGACCTGCTGTATGTCTCAAAATGGATGAGAGCCATAGACCTGTGAAAATTCAG  
 AAAGTAGTCTGGGTTTTCCCTGTAGTAGTAGCAAAAGTGAATTTAAGTTTGATTTGGCCCTCAACTATA



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AAGTGTACAGTGTATTTCGAACATACTCCGATCAGAAGCCACACTTGTGTTTTGTTCAACAAGGAAAGG  
 TGTGCAGCAGGCTGCTTCTGTTCTTGTGAAGGATGCTAAGTTTATCATCTCTGTGGAGCAGAAAACACGG  
 TTGCAGAAGTCTGCATATTCTATAAGGGATTCAAAGCTGAAAGATACCTTGGTATATGGTGTGGTTACC  
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 ATGCACTACAGTGGAGGTGTGTTTGAAGAGTACAGCGAGACCGACATCTGCAGATGATTGGGAGAGCTG  
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 GCAGATGCTAGCTTGTAACGACACTGTAGAGAGCAGTTTGCACAGACATCTTATTGAACATTTAAATGCA  
 GAAATAGTGTGCATACCATCACAGACGTGAACATTGCTCTGGACTGGATCCGATCAACAATGCTGTATA  
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 AAATTGGCATA TCATTGTCAAATACCATGGTAAATGCAGGCTTAACTTCTTTTAAAAAATAGAAGAAGC  
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 GCGCATCTGCCAAGTATGAGCTTGAGGTGGAGCAGATTGCAAGATACAGTGATATCAAGGCAGAAATAC  
 TGGTGACCATTATATTAAGAACTTTGAGCAGCTGCAAACTAAAAGAACAGCACCAGACTCCACTATGC  
 CACCTTAATCATAGGTGATGCAGATAACCAAGTCGTTTTTAAGCACAAAATTTATGGATTCGTCTGTGTTA  
 AAAAGTGGAAATTTGGTTAAAAAATTTGATGTGAAGAGAGCTCTTATATCAGAAGATCTCAGCATAAATC  
 TAATTAGTTCTGATTATGTTGGTCTTGATATTCACCAGAAATTTACAGTCTTTTATTTTCGGACCCAGGAA  
 GTTTGTAATGAAACAGCTATGGAAGAAGCTCAGAAACAGATATTTCTCATTCTGACTACTCAGGTAGA  
 GCCACTGCAACAGGATCCAGTAAAGGAATGGCTACCTGCAAAAAACCTGGGAACAGAGAATGCCATCATC  
 ACTGTAATAAATAAACACGCATGTGGACATGACTGCTGTAAAATTTGGAGTTGCACAAAAGCCGGAAGTTAA  
 AGAGTCAGCAATGTCTTCATATCTGTCTGACTTAAAAAGCAGAGATGCTGTTTCTCTCTCCTCTAGCC  
 AAGCGACTCAAGATACAGATGAACAAATCTCAAAATGTGGACCTTAAAGAGTTTGGTTTTACTCCAAGGC  
 CTTCCCTTTCCAGTATATCAAGGTCAGAATATTTAAATACCCCTGAATTGTCAATATTAGAACAGAGGAA  
 TCAGCATGAAATCTATGGAAGGTTCAACAGGGACCATCTGAATATCGTGACAAAAGAAAGTTCTGGGTGTG  
 AACTTAGAGCTGGGAAATGAAGTCTGGGATGACTTTGATGATGAGAGCTTAAATAGAAGTTATGAGCCTTT  
 CAGCTGATGCTGAGAAGATGGCTGCATCAGGATTTGGAGACACTCGTGATTCAAGTCTCGGCGGAAGTAA  
 GCTACCTTCCAAAAGTCAAGCAGCAGATTTCAAAGAGACAACCTCAAACAGTTTTGCTTCGTGCGCTGGG  
 AAGCCAGATGCTTATTGCGAGATTGTTCCAGGTCCAGCTTCGGGCTGTCTCTGTGGCAGAGATCCCTC  
 AGCGGGCTGAGAATGCAAGTCTTGCCAATTTACAAGAGAGGAGACCGCTGACTCTCTCACCAGTGATTGA  
 GAGGATGTGCTTTGCCACTCTAAGAAAACACCACAGTCTCCCAAGTTTAAAGGAAGTGGATTTTTTATT  
 GGAAACAGTGGCTCTAAAAGGAAATTTGATCTTAGTAAGTATTATCCTGATGATGCAGCTGAAGAAATGA  
 AGGCTCTTCTGGGAATATTTAATGGCATTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_177873  
**Insert Size:** 4305 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>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_177873.3</a> , <a href="#">NP_808541.2</a>
<b>RefSeq Size:</b>	5018 bp
<b>RefSeq ORF:</b>	4305 bp
<b>Locus ID:</b>	330149
<b>UniProt ID:</b>	<a href="#">D3Z4R1</a>
<b>Cytogenetics:</b>	5 E5
<b>Gene Summary:</b>	Required for crossover formation and complete synapsis of homologous chromosomes during meiosis.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.