

## Product datasheet for **MC221031**

### Hook2 (NM\_001167991) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hook2 (NM_001167991) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hook2
Synonyms:	A630054I03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221031 representing NM\_001167991  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTGTGGACAAGGCCGAGCTATGCGGGTCTCTGCTCACCTGGTTGCAGACGTTCCAAGTTTCACCCC  
 CCTGTGCCAGTCCCAGGACCTGAGCAGCGGACTCGCCATAGCCCATGTGCTGAATCAGATAGACCCTTC  
 CTGGTTCAACAACGAATGGCTCCAGGGCATCTCAGAGGACTCAAGCCCCAGCTGGAGGTTGAAGGTCAGG  
 AAAGTGGAGAAGATCTTACAGAGCTTGGTGAATACTCGAAGAATGTTCTGGGGCACCTGTGTCAGATC  
 AGCATCTCCAGATGTGAGCCTATTGGCGAGTTCTCAAATCCTGCAGAAGCTGGCAAAGCTTTCAGTT  
 GGTACTGGGCTGTGCTATCAGTTGTGAGAAAAACAGGAGTATATCCAAAGAATTATGACCCTGGAGGAG  
 TCTGTTCAACATGTAGTGATGGAAGCCATCCAGGAGCTCATGACCAAAGACACTCCTGATTCCCTGTAC  
 CAGAGAATTACGGGAATTTTGATACACAGTCCCGCAGGACTATTTCTGAGTGAGGAGGTGGAGGAGGG  
 TGATCATCTTCAGCAACATTACCTGGATCTGGAGCGCCAGCTCTTCTCCTTTCAGAGGAGAAGCAGAAT  
 CTGGCACAAGAGAACGCTGCCCTTCGAGAGAGGGTGGGCCGGTCCGGAAGTGGAGAGTGCCCGGGCCTCA  
 CAGCTAAGAAGCTATTGCTTCTGCAGTACAGCTAGAACAGCTTCAAGAGGAGAATTTTCAGGCTGGAGAG  
 TAGCCGGGAAGATGATCGGCTTCGCTGCCTGGAAGTAGAGCGCGAGGTCGCTGAGCTGCAACAACGGAAC  
 CAGGCACTGACCAGCCTATCCCAGGAGGCACAAGCACTAAAGGATGAGATGGATGAGCTGCGGCAGTCTCT  
 CCGAACGTGCAAGGCAGCTGGAGGCCACTCTGAACAGCTGCCGTCGTCGCTGGGGCAGCTCCAAGAGCT  
 CCGGGCGCAGGTGCGGCAGCTGGAGGAGCGAAATGCAGGCCACGCGGAGCGCACGCGGCAGCTGGAAGAG  
 GAGCTGCGCCGTGCAGGATCCCTGCGTGCAGCTCGAGGCTCAGCGCAGGCAAGTGAAGAGTTGCAGG  
 GCCAGTGGCAGGAAGAGGCCATGAAGCTGAGAAGTGGCTGTTTGAATGCCGAAACCTAGAGGAAAAGTG  
 TGACCTGGTGACAAAGGAGAAGGAGCGGCTATTGACTGAGAGGGACTCCCTGAGGGAGGCCAATGAGGAG  
 CTCCGCTGTGCCAGCTGCAGCCAGGGGATTGGCTCAGGCTGATCTCTCCCTGGATCCTACCCCTTCTG  
 GCCTGGAAAACCTAGCAGCAGAGATCCTGCCTGCAGAGCTCAGAGAGACGCTAGTGCGACTTCAGCTGGA  
 GAACAAGAGACTGTGCCAGCAGGAGGCCGCGGACCGGGAGCGACAGGAGGAACTGCAGCGCCACCTGGAG  
 GAGGCCAACCGTGCACGCCATGGGCTGGAAGCACAGCAACGGCTGAACCAGCAGCAGCTGTCGGAGCTGA  
 GGGCGCAGGTGGAAGAGCTACAGAAGGCCTTGCAGGAGCAGGGGGCAAGACCGAGGACCCACCCCTGCT  
 GAAGAGGAAGCTGGAGGATCATCTGCAGAAGCTGCATGAGGCTGACCTGGAGTTGCAGAGGAAACGAGAA  
 TACATTGAGGAGTTGGAGCCTCCACTGACAGCAGCACTCGGCGGATCGAGGAGCTACAGGACAGTCTGC  
 AGAAGAAGGATGCAGACCTGCGGGCCATGGAGGAACGATACCGCCGCTACGTGGACAAGGCGCGCAGGCT  
 CATTTCAGACCCTGGAACCAAGCAGAGGGCCACCCACTGTGGTGTCCCCAGAATTCATACCTTGAGGTCA  
 CAGCTCTGGGAGCGGAACCTGCGGATACGGCAGATGGAGATGGACTATGAGAAGAGTCCGAGACGGCAGG  
 AACAGGAGGAAAAGCTGCTTATCAGTGCCTGGTACAGCATGGGCATGGCCTTGGAGCATCGGGCTGGGGA  
 AGAGCACGCTCCTGCCATGCCAGTCTTCTTGGCACAGCAAAGACTGGCCACCAATGCTCGCCGTGGA  
 CCCCTGGGGCGCCAGGCTCTGAGCCTCCGCCCCACTGACAAGCACT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001167991

**Insert Size:** 2148 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).

<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>	<u>NM_001167991.1, NP_001161463.1</u>
<b>RefSeq Size:</b>	2614 bp
<b>RefSeq ORF:</b>	2148 bp
<b>Locus ID:</b>	170833
<b>UniProt ID:</b>	<u>Q7TMK6</u>
<b>Cytogenetics:</b>	8 C3
<b>Gene Summary:</b>	<p>Component of the FTS/Hook/FHIP complex (FHF complex). The FHF complex may function to promote vesicle trafficking and/or fusion via the homotypic vesicular protein sorting complex (the HOPS complex). Contributes to the establishment and maintenance of centrosome function. May function in the positioning or formation of aggresomes, which are pericentriolar accumulations of misfolded proteins, proteasomes and chaperones. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon and uses an alternate in-frame splice junction compared to variant 3. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 3. 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.</p>