

## Product datasheet for **MC229098**

### **Hk3 (NM\_001206391) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hk3 (NM_001206391) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hk3
Synonyms:	HK-III; HK III
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC229098 representing NM\_001206391  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCACCATTGGCCCTTCTGGCTGCATCCTGGAGAAAGAGCCTCAGTCTGCCACACGAGGGCGTGC  
 CAAGGCCCTCAGGTAGCTTAGAACTGGAATGCTTGCAGCAATCAAGGTGACCAGGACACAGTTGCAGCA  
 GATCCAAGCCAGTCTCCTGTGCTCCATGGAGCAGGCACCTGAAGGGACAGGACAGTCCCGCTCCTTCTGTC  
 CGGATGCTGCCACATACGTGAGGTCCACACCACCGCACCGAGCAAGGGGATTTCTGGTGTGGAGC  
 TGGGGGCCACAGGAGCATCACTACGTGTGTGGTAACTGACAGGCACCAAGAATGCCGGTGGAG  
 GCCAGGAGCCGGGAGTTGTGATTCCTCAAGAGGTGATCCTAGGTGCTGGCCAGCAGCTCTTTGACTTT  
 GCTGCCGATGCCTCTGAATTCCTGGATGCATACCCCGTGGAGAATCAGGGTCTGAAGCTTGGTTCA  
 ATTTCTCTTTCTTGTACCAGACAGGCTTGGACAGGAGCACCTCATTCTGGACAAAAGGTTTTAG  
 GTGCAGCGGGCTGGAAGGCCAGGATGTGGTCCAGTTGCTAAGAGATGCCATTAGAGGCAGGGGACCTAC  
 AGGATTGATGTGGTAGCCATGGTGAATGACACGGTGGGCACCATTGATGGCTGTGAGCTGGGCACCAGGC  
 CGTGTGAAGTCGGGCTGATTGTAGACACCGGTACCAACCGTGTACATGGAGGAGGCGCGGCACGTGGC  
 CGCTCTGGATGAGGACCGCGCCGACCTGTGTGAGCATCGAGTGGGGCTCCTTCTATGACGAAGATGCT  
 CTAGGGCCAGTACTGACCACCTTCGACTCTGCCCTGGACCGGAGTCCCTGACTCCTGGTGTCAAAGGT  
 TTGAGAAGATGATTGGAGGCCTTACCTGGGTGAGCTGGTGGAGCTGGTCTGGTCCACTTGACCAGCA  
 CGGGTCTCTTTGATGGCTGCGCCTCTCCTGCGTTGCTGAGTCAAGGCTGTATCCTCTGGACCAGTG  
 GCTGAGATGGAGGACACCGCCACTGGGACAGCCCGCTCCACACCATCCTGCAGGACTTGGGTCTGAGCC  
 CTCGGGCTCAGATGCTGAACCTGGTGAATATGTGTGCTGGCTGTGTGCACAGGGCTGCCAGCTCTG  
 TCGGGCTGCCCTGGCTGCAGTCCCTCCTCCGCTCCAGCACAGCAGGGAGCAGCAGACATTGCAAGTGGCT  
 GTGGCCACTGGAGGGCAGTGTGTAACGACACCCAGGCGCATCCTGGAAGAGACCCTGGCACCATTTT  
 AGCTGACCTTGGAGCAGATGACAGTGGTGCAGGCACAAATGCGGGAAGCCATGATCAGGGGGCTTCAAGG  
 AGAGGCCCTCCTCCCTCCGCATGCTGCCACTTACGTCCGAGCGACGCCGACGGCAGCGAGCGAGGTGAT  
 TTCTGGCCTTGGACCTAGGGGGCACCACCTCCGGTCTGTTGGTACGAGTGGCGGAGGGCAGTGTGC  
 AGATCATCAACCAGGTCTACTCCATTCTGAGTGTAGAGCCAGGGCTCTGGACAGAAGCTCTTTGACCA  
 TATTGTGACTGCATCGTGGACTTCCAGAAGAGGCAGGGCCTTAGTGGACAGAGCCTACCCCTGGGTTTC  
 ACCTTCTCTTTCCATGCAAGCAGCTTGGCCTGGACCAGGGCATCCTCCTGAATTGGACTAAGGGTTCA  
 ATGCATCAGGCTGTGAGGGCCAGGATGTTGTGTATCTATTACGGGAAGCCATTAGGCGCAGACAGGCAGT  
 GGAGCTGAATGTGGTTGCCATTGTCAATGACACGGTGGGGACCATTGATGTCTGTGGCTATGATGATCCC  
 CGTTGTGAGATGGGCCTCATTGTGCGAACCAGGCACCAACGCCTGTTACATGGAAGAGCTCCGCAATGTGG  
 CAAGTGTGCCTGGGGACTCGGGCCTCATGTGCATCAACATGGAGTGGGGTGCCTTTGGGGATGATGGCTC  
 ACTGGGCACACTCAGCACCCGCTTTGACACCAGTGTGGACCAGGCATCCATCAATCCAGGCAAACAGAGG  
 TTTGAGAAAATGATCAGCGGTATGTACTTGGGGGAGATCGTCCGCATATCCTCCTGACTTAACCAATC  
 TCGGAGTCTCTTCCGAGGCCAGAAGACTCAATGCCTCAGGCCAGGGACATCTCAAGACTAAGTTCCT  
 CTCTGAGATCGAAAGTATAGCCTGGCCCTGCGTCAGGTCCGAGCCATCCTGGAAGACTTGGGGCTGACT  
 CTGACATCTGATGACGCCTTGTGGTCCGGAAGTGTGCCAGGCTGTGTCTCGCAGGGCTGCCAACTCT  
 GTGGGGCAGGTGTGGCTGCCGTGGTGGAGAAGATTCCGGAGAACCAGGGCCTGCAGGAGCTGACAGTGT  
 TGTGGGAGTAGATGGGACACTCTACAAGCTACATCCTCACTTCTCCAAGCTGGTGTGGCAACAGTCCGG  
 AAGCTAGCCCCTCAGTGCACCGTACCTTTTTGCAGTGGAGGATGGGTCTGGCAAAGGCGCAGCTTTGG  
 TTAAGTCTGTTGCTTGTGCTTACCCAGATGGCCACGCT**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII  
**ACCN:** NM\_001206391

<b>Insert Size:</b>	2634 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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_001206391.1, NP_001193320.1</u>
<b>RefSeq Size:</b>	2894 bp
<b>RefSeq ORF:</b>	2634 bp
<b>Locus ID:</b>	212032
<b>Cytogenetics:</b>	13 B1
<b>Gene Summary:</b>	<p>Catalyzes the phosphorylation of hexose, such as D-glucose and D-fructose, to hexose 6-phosphate (D-glucose 6-phosphate and D-fructose 6-phosphate, respectively). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and uses an alternate in-frame splice site in the coding region, compared to variant 1. The encoded isoform (2) is shorter than 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.</p>