

Product datasheet for **MC229178**

Hk3 (NM_001206390) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Hk3 (NM_001206390) 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 |



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Fully Sequenced ORF: >MC229178 representing NM_001206390
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCACCATTGGCCTTCTGGCCTGCATCCTGGAGAAAGAGCCTCAGTCTGCCACACGAGGGCGTGC
 CAAGGCCCTCAGGTAGCTTAGAACTGGAATGCTTGCAGCAATCAAGGTGACCAGGACACAGTTGCAGCA
 GATCCAAGCCAGTCTCCTGTGCTCCATGGAGCAGGCACCTGAAGGGACAGGACAGTCCCGCTCCTTCTGTC
 CGGATGCTGCCACATACGTGAGGTCCACACCACCGCACCGAGCAAGGGGATTTCTGGTGTGGAGC
 TGGGGGCCACAGGAGCATCACTACGTGTGTGGTAACTGACAGGCACCAAGAATGCCGGTGGAG
 GCCAGGAGCCGGGAGTTGTGATTCCTCAAGAGGTGATCCTAGGTGCTGGCCAGCAGCTCTTTGACTTT
 GCTGCCGATGCCTCTGAATTCCTGGATGCATACCCCGTGGAGAATCAGGGTCTGAAGCTTGGTTCA
 ATTTCTCTTTCTTGTACCAGACAGGCTTGGACAGGAGCACCTCATTCTGGACAAAAGGTTTTAG
 GTGCAGCGCGTGAAGGCCAGGATGTGGTCCAGTTGCTAAGAGATGCCATTAGAGGCAGGGGACCTAC
 AGGATTGATGTGGTAGCCATGGTGAATGACACGGTGGGCACCATTGATGGCTGTGAGCTGGCCACCAGGC
 CGTGTGAAGTCGGGCTGATTGTAGACACCGGTACCAACCGTGTACATGGAGGAGGCGCGGCACGTGGC
 CGCTCTGGATGAGGACCGCGCCGACCTGTGTGAGCATCGAGTGGGGCTCCTTCTATGACGAAGATGCT
 CTAGGGCCAGTACTGACCACCTTCGACTCTGCCCTGGACCGGAGTCCCTGACTCCTGGTGTCAAAGGT
 TTGAGAAGATGATTGGAGGCCTTACCTGGGTGAGCTGGTGGAGCTGGTCTGGTCCACTTGACCAGCA
 CGGGTCTCTTTGATGGCTGCGCCTCTCCTGCGTTGCTGAGTCAAGGCTGTATCCTCTGGACCAGTG
 GCTGAGATGGAGGACACCGCCACTGGGACAGCCCGCTCCACACCATCCTGCAGGACTTGGTCTGAGCC
 CTCGGGCTCAGATGCTGAACCTGGTGAATATGTGTGCTGGCTGTGTGCACAGGGCTGCCAGCTCTG
 TCGGGCTGCCCTGGCTGCAGTCTCTCCCGCTCCAGCACAGCAGGGAGCAGCAGACATTGCAAGTGGCT
 GTGGCCACTGGAGGGCAGTGTGTAACGACACCCAGGTTCTCCGAATCCTAAAGGAGACGGTAAACAC
 TCCTGGCCCCAACTGTGATGTCTCTTTCATCCCTCTGTGGATGGTGGTGGCCGGGGTGTGGCAATGGT
 GACAGCTGTGGCTGCCCGCTGGCTGCTCACAGGCGCATCCTGGAAGAGACCCTGGCACCATTTAGCTG
 ACCTTGGAGCAGATGACAGTGGTGCAGGCACAAATGCGGGAAGCCATGATCAGGGGGCTTCAAGGAGAGG
 CCTCTCCCTCCGATGCTGCCACTTACGTCGAGCGACGCCGACGGCAGCGAGGAGGATTTCT
 GGCCTTGACCTAGGGGGACCAACTTCCGGTCTGTGGTACGAGTGGCGGAGGGCAGTGTGCAGATC
 ATCAACCAGGTCTACTCATTCTGAGTGTAGAGCCAGGGCTCTGGACAGAAGCTCTTTGACCATATTG
 TGGACTGCATCGTGGACTCCAGAAGAGGCAGGGCCTTAGTGGACAGAGCCTACCCTGGGTTTACCTT
 CTCTTTCCCATGCAAGCAGCTTGGCCTGGACCAGGGCATCCTCCTGAATTGGACTAAGGGGTTCAATGCA
 TCAGGCTGTGAGGGCCAGGATGTTGTGTATCTATTACGGGAAGCCATTAGGGCGACAGGCAGTGGAGC
 TGAATGTGGTTGCCATTGTCAATGACACGGTGGGGACCATGATGTCTGTGGCTATGATGATCCCGTTG
 TGAGATGGGCCTCATTGTGCGAACCAGCACCAACGCCTGTACATGGAAGAGCTCCGCAATGTGGCAAGT
 GTGCTGGGACTCGGCCTCATGTGCATCAACATGGAGTGGGGTGCCTTTGGGGATGATGGTCACTGG
 GCACACTCAGCACCCGCTTTGACACCAGTGTGGACCAGGCATCCATCAATCCAGGCAAACAGAGGTTTGA
 GAAAATGATCAGCGGTATGACTTGGGGGAGATCGTCCGCATATCCTCCTGCACTTAACCAATCTCGGA
 GTTCTCTCCGAGGCCAGAAGACTCAATGCCTTCAGGCCAGGGACATCTTCAAGACTAAGTTCTCTCTG
 AGATCGAAAGTGATAGCCTGGCCTGCGTCAGGTCCGAGCCATCCTGGAAGATCTGGGGTACTCTGAC
 ATCTGATGACGCCTTGTGGTCTGGAAGTGTGCCAGGCTGTGTCTCGCAGGGCTGCCAACTCTGTGGG
 GCAGGTGTGGCTGCCGTGGTGGAGAAGATTCGGGAGAACCAGGGCCTGCAGGAGCTGACAGTGTCTGTGG
 GAGTAGATGGGACTCTACAAGCTACATCCTCACTTCTCCAAGCTGGTGTGGCAACAGTCCGGAAGCT
 AGCCCCCTCAGTGCACCGTACCTTTTTGCAGTCGGAGGATGGGTCTGGCAAAGGCGCAGCTTTGGTTACT
 GCTGTTGCTTGTGCTTACCCAGATGGCCACGCT**TGA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

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| ACCN: | NM_001206390 |
| Insert Size: | 2769 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). |
| OTI Annotation: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| Components: | 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). |
| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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. |
| RefSeq: | <u>NM_001206390.1, NP_001193319.1</u> |
| RefSeq Size: | 3029 bp |
| RefSeq ORF: | 2769 bp |
| Locus ID: | 212032 |
| UniProt ID: | <u>Q3TRM8</u> |
| Cytogenetics: | 13 B1 |
| Gene Summary: | <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 (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same 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> |