

Product datasheet for **MC229075**

Hk3 (NM_001206392) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hk3 (NM_001206392) 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: >MC229075 representing NM_001206392
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCAGGCACTGAAGGGACAGGACAGTCCCCTCCTTCTGTCCGGATGCTGCCACATACGTGAGGT
 CCACACCACACGGCACCGAGCAAGGGATTTCCTGGTGTGGAGCTGGGGCCACAGGAGCATCACTACG
 TGTGTTGTGGTAACACTGACAGGCACCAAAGAATGCCGGGTGGAGCCAGGAGCCGGGAGTTTGTGATT
 CCTCAAGAGGTGATCCTAGTGTGCTGCCAGCAGCTCTTTGACTTTGCTGCCCGATGCCTCTCTGAATTCC
 TGGATGCATACCCCGTGGAGAATCAGGGTCTGAAGCTTGGGTTCAATTTCTCTTTTCTTGTCCACCAGC
 AGGCTTGGACAGGAGCACCTCATTTCTGGACAAAAGTTTTAGGTGCAGCGGCGTGGAAAGGCCAGGAT
 GTGGTCCAGTTGCTAAGAGATGCCATTCAGAGGCAGGGACCTACAGGATTGATGTGGTAGCCATGGTGA
 ATGACACGGTGGGCACCATGATGGGCTGTGAGCTGGGCACCAGGCCGTGAAGTCGGGCTGATTGTAGA
 CACCGGTACCAACGCGTCTACATGGAGGAGCGCGGCACGTGGCCGCTCTGGATGAGGACCGCGGCCGC
 ACCTGTGTGAGCATCGAGTGGGCTCCTTCTATGACGAAGATGCTCTAGGGCCAGTACTGACCACCTTCG
 ACTCTGCCCTGGACCGGAGTCCCTGACTCCTGGTGTCAAAGTTTTGAGAAGATGATTGGAGGCCTTTA
 CCTGGGTGAGCTGGTGGGCTGGTTCTGGTCCACTTGACCCAGCACGGGGTCTCTTTGATGGTGCGCC
 TCTCTGCGTTGCTGAGTCAAGGCTGTATCCTCCTGGACCAGTGGTGTGAGTGGAGGACACCGCCACTG
 GGACAGCCCGCTCCACACCATCCTGCAGGACTTGGGTCTGAGCCCTCGGGCCTCAGATGCTGAAGTGGT
 GCAATATGTGTGCGTGGTGTGTGCACACGGGCTGCCAGCTCTGTGCGGCTGCCCTGGTGCAGTCCCT
 TCCCGCTCCAGCACAGCAGGGAGCAGCAGACATTGCAAGTGGCTGTGGCCACTGGAGGGCGAGTGTG
 AACGACACCCAGGTTCTCCGAATCCTAAAGGAGACGGTAACACTCCTGGCCCCAAACTGTGATCTC
 CTTATCCCTCTGTGGATGGTGGTGGCGGGGTGTGGCAATGGTGACAGCTGTGGCTGCCCGCCTGGCT
 GCTCACAGGCGCATCCTGGAAGAGACCTGGCACCATTTAGCTGACCTTGGAGCAGATGACAGTGGTGC
 AGGCACAAATGCGGAAGCCATGATCAGGGGGCTTCAAGGAGAGGCTCCTCCCTCCGCATGCTGCCAC
 TTACGTCGAGCGACGCCGACGGCAGCGAGGATTTCTGGCCTTGGACCTAGGGGGCACCAAC
 TTCCGGGTCTGTTGGTACGAGTGGCGGAGGGCAGTGTGCAGATCAACCAGGTCTACTCCATTCCTG
 AGTGTAGAGCCAGGCTCTGGACAGAAGCTCTTTGACCATATTGTGGACTGCATCGTGGACTTCCAGAA
 GAGGCAGGGCCTTAGTGGACAGAGCCTACCCCTGGGTTTACCTTCTCTTTCCCATGCAAGCAGCTTGGC
 CTGGACCAGGCATCCTCCTGAATTGGACTAAGGGTTCAATGCATCAGGCTGTGAGGGCCAGGATGTTG
 TGTATCTATTACGGGAAGCCATTAGGCGCAGACAGGCAGTGGAGCTGAATGTGGTTGCCATTGTCAATGA
 CACGGTGGGGACCATGATGTCCTGTGGCTATGATGATCCCGTTGTGAGATGGGCCTCATTGTCCGAACC
 GGCACCAACGCCTGTTACATGGAAGAGCTCCGCAATGTGGCAAGTGTGCCTGGGGACTCGGGCCTCATGT
 GCATCAACATGGAGTGGGGTGCCTTTGGGGATGATGGCTCACTGGGCACACTCAGCACCCGCTTTGACAC
 CAGTGTGGACCAGGCATCCATCAATCCAGGCAACAGAGGTTTGGAGAAATGATCAGCGGTATGTAAGT
 GGGGAGATCGTCCGCATATCCTCCTGCACTTAACCAATCTCGGAGTTCTCTCCGAGGCCAGAAGACTC
 AATGCCTTCAGGCCAGGGACATCTTCAAGACTAAGTTCCTCTCTGAGATCGAAAGTATAGCCTGGCCCT
 CGGTGAGTCCGAGCCATCCTGGAAGATCTGGGGCTGACTCTGACATCTGATGACGCCTTGTGGTGGT
 GAAGTGTGCCAGGCTGTGTCTCGCAGGGCTGCCAACTCTGTGGGGCAGGTGTGGCTGCCGTGGTGGAGA
 AGATTCCGGGAGAACCAGGGCCTGCAGGAGCTGACAGTGTCTGTGGGAGTATGAGGACACTCTACAGCT
 ACATCCTCACTTCTCAAGCTGGTGTCCGCAACAGTCCGGAAGCTAGCCCTCAGTGCACCGTCACCTTT
 TTGAGTCCGAGGATGGGTCTGGCAAAGGCGCAGCTTTGGTTACTGCTGTTGCTGTGCGCTTACCCAGA
 TGGCCACGCT**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001206392

Insert Size:	2604 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_001206392.1, NP_001193321.1</u>
RefSeq Size:	3099 bp
RefSeq ORF:	2604 bp
Locus ID:	212032
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 (4) differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (3) has a shorter N-terminus, compared to 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>