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Product datasheet for MC222660

Hk3 (NM_001033245) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hk3 (NM_001033245) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hk3
Synonyms:	HK-III; HK III
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC222660 representing NM_001033245
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACCATTGGGCCTTCTGGCCTGCATCCTGGAGAAAGAGCCTCAGTCTGCCCACACGAGGGCGTGC
CAAGGCCCTCAGGTAGCTTAGAACTGGAATGCTTGCAGCAATTCAAGGTGACCAGGACACAGTTGCAGCA
GATCCAAGCCAGTCTCCTGTGCTCCATGGAGCAGGCACTGAAGGGACAGGACAGTCCCGCTCCTTCTGTC
CGGATGCTGCCCACATACGTGAGGTCCACACCACACGGCACCGAGCAAGGGGATTTCCTGGTGCTGGAGC
TGGGGGCCACAGGAGCATCACTACGTGTGTTGTGGGTAACACTGACAGGCACCAAAGAATGCCGGGTGGA
GCCCAGGAGCCGGGAGTTTGTGATTCCTCAAGAGGTGATCCTAGGTGCTGGCCAGCAGCTCTTTGACTTT
GCTGCCCGATGCCTCTCTGAATTCCTGGATGCATACCCCGTGGAGAATCAGGGTCTGAAGCTTGGGTTCA
ATTTCTCTTTTCCTTGTCACCAGACAGGCTTGGACAGGAGCACCCTCATTTCCTGGACAAAAGGTTTTAG
GTGCAGCGGCGTGGAAGGCCAGGATGTGGTCCAGTTGCTAAGAGATGCCATTCAGAGGCAGGGGACCTAC
AGGATTGATGTGGTAGCCATGGTGAATGACACGGTGGGCACCATGATGGGCTGTGAGCTGGGCACCAGGC
CGTGTGAAGTCGGGCTGATTGTAGACACCGGTACCAACGCGTGCTACATGGAGGAGGCGCGGCACGTGGC
CGCTCTGGATGAGGACCGCGGCCGCACCTGTGTCAGCATCGAGTGGGGCTCCTTCTATGACGAAGATGCT
CTAGGGCCAGTACTGACCACCTTCGACTCTGCCCTGGACCGCGAGTCCCTGACTCCTGGTGCTCAAAGGT
TTGAGAAGATGATTGGAGGCCTTTACCTGGGTGAGCTGGTGAGGCTGGTTCTGGTCCACTTGACCCAGCA
CGGGGTCCTCTTTGATGGCTGCGCCTCTCCTGCGTTGCTGAGTCAAGGCTGTATCCTCCTGGACCACGTG
GCTGAGATGGAGGACACCGCCACTGGGACAGCCCGCGTCCACACCATCCTGCAGGACTTGGGTCTGAGCC
CTCGGGCCTCAGATGCTGAACTGGTGCAATATGTGTGCGTGGCTGTGTGCACACGGGCTGCCCAGCTCTG
TGCGGCTGCCCTGGCTGCAGTCCTCTCCCGCCTCCAGCACAGCAGGGAGCAGCAGACATTGCAAGTGGCT
GTGGCCACTGGAGGGCGAGTGTTTGAACGACACCCCAGGTTCCTCCGAATCCTAAAGGAGACGGTAACAC
TCCTGGCCCCAAACTGTGATGTCTCCTTCATCCCCTCTGTGGATGGTGGTGGCCGGGGTGTGGCAATGGT
GACAGCTGTGGCTGCCCGCCTGGCTGCTCACAGGCGCATCCTGGAAGAGACCCTGGCACCATTTCAGCTG
ACCTTGGAGCAGATGACAGTGGTGCAGGCACAAATGCGGGAAGCCATGATCAGGGGGCTTCAAGGAGAGG
CCTCCTCCCTCCGCATGCTGCCCACTTACGTCCGAGCGACGCCCGACGGCAGCGAGCGAGGTGATTTCCT
GGCCTTGGACCTAGGGGGCACCAACTTCCGGGTCCTGTTGGTACGAGTGGCGGAGGGCAGTGTGCAGATC
ATCAACCAGGTCTACTCCATTCCTGAGTGTAGAGCCCAGGGCTCTGGACAGAAGCTCTTTGACCATATTG
TGGACTGCATCGTGGACTTCCAGAAGAGGCAGGGCCTTAGTGGACAGAGCCTACCCCTGGGTTTCACCTT
CTCTTTCCCATGCAAGCAGCTTGGCCTGGACCAGGGCATCCTCCTGAATTGGACTAAGGGGTTCAATGCA
TCAGGCTGTGAGGGCCAGGATGTTGTGTATCTATTACGGGAAGCCATTAGGCGCAGACAGGCAGTGGAGC
TGAATGTGGTTGCCATTGTCAATGACACGGTGGGGACCATGATGTCCTGTGGCTATGATGATCCCCGTTG
TGAGATGGGCCTCATTGTCGGAACCGGCACCAACGCCTGTTACATGGAAGAGCTCCGCAATGTGGCAAGT
GTGCCTGGGGACTCGGGCCTCATGTGCATCAACATGGAGTGGGGTGCCTTTGGGGATGATGGCTCACTGG
GCACACTCAGCACCCGCTTTGACACCAGTGTGGACCAGGCATCCATCAATCCAGGCAAACAGAGGTTTGA
GAAAATGATCAGCGGTATGTACTTGGGGGAGATCGTCCGCCATATCCTCCTGCACTTAACCAATCTCGGA
GTTCTCTTCCGAGGCCAGAAGACTCAATGCCTTCAGGCCAGGGACATCTTCAAGACTAAGTTCCTCTCTG
AGATCGAAAGTGATAGCCTGGCCCTGCGTCAGGTCCGAGCCATCCTGGAAGATCTGGGGCTGACTCTGAC
ATCTGATGACGCCTTGATGGTCCTGGAAGTGTGCCAGGCTGTGTCTCGCAGGGCTGCCCAACTCTGTGGG
GCAGGTGTGGCTGCCGTGGTGGAGAAGATTCGGGAGAACCGGGGCCTGCAGGAGCTGACAGTGTCTGTGG
GAGTAGATGGGACACTCTACAAGCTACATCCTCACTTCTCCAAGCTGGTGTCGGCAACAGTCCGGAAGCT
AGCCCCTCAGTGCACCGTCACCTTTTTGCAGTCGGAGGATGGGTCTGGCAAAGGCGCAGCTTTGGTTACT
GCTGTTGCTTGTCGCCTTACCCAGATGGCCCACGTCTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN:	NM_001033245
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).
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:	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:	NM_001033245.4, NP_001028417.1
RefSeq Size:	3219 bp
RefSeq ORF:	2769 bp
Locus ID:	212032
UniProt ID:	Q3TRM8
Cytogenetics:	13 B1
Gene Summary:	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] Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.