

Product datasheet for MC202280

Hk2 (NM_013820) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hk2 (NM_013820) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hk2
Synonyms:	A1642394; HKII
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC054472 sequence for NM_013820
GGAGCATCACGCCAGTGACTCTGATAGGTGCGATCGCCGGATTGGAACAGAAGTGCATTTTTTTCCGAA
GTTGAGCCTTAGTGACCCAGTGAGTGAAGTTAGCGACGGGACGCTAAGCAGCTAGACCGGTCCGCGAGG
TGAGACTTAGGGTACCTTCTAGTAGTTGTGATTAATAAATTGAAAAAAGAAAAAACCCTGTTT
CTGGAACCTTGAGGCCCTCAGCTGGTGACCATCGTGGTTAAGCTTCTTTGTGTGGCTCCTGGAGTCTTC
GATCCCAGCCGGACACCCGGCCTGGTTTCAAAGCGGTCCGACAGCGCTGCCTGCCTCATCGGTAGCGCT
CGAGCCTCGGTTTCTCTATTTGGCCCCGACTCGCCGCAACAAGATGATCGCCTCGCATATGATCGCCTGC
TTATTCACGGAGCTCAACCAAACCAAGTGCAGAAGGTTGACCAGTATCTCTACCACATCGCTCTCTCAG
ATGAGACCCTTCTGGAGATTTCTAGGCGGTTCCGGAAGGAGATGGAGAAGGGGCTAGGAGCTACCACACA
CCCTACAGCAGCTGTGAAGATGCTGCCACCTTTGTGAGGTCAACTCCGGATGGGACAGAACATGGCGAG
TTCTTGCTCTGGACCTTGAGGAACCAACTTCCGTGTGCTCCGAGTAAGGGTGACAGACAATGGTCTCC
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AAGCAGCTGTTTGAAGATGATCAGCGGATGTACATGGGGAGCTGGTCCAGACTCATCTGTGAAGA
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GCAGTGAGGAGGCTGGTCCCGATTGTGATGTCCGCTTCTCCGCTCTGAGGATGGCAGCGGCAAGGGG
CGCTATGGTGACGGCGGTGGCTTACCGTCTGGCTGACCAACACCGGGCCCGCCAGAAGACCTGGAGTC



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TCTGAAGCTGAGCCATGAACAGCTGCTGGAGGTTAAGAGAAGGATGAAGGTGAAATGGAGCAGGGTCTG
 AGCAAGGAGACGCATGAGGCCGCCCTGTGAAGATGTTGCCACTTATGTGTGCCACTCCAGACGGTA
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 GGTTGACAGCTCTCTGCTAATGCTGCTTTGTGTGATCTTCAAGTGAACCTTTGACTCATCTCATATCCC
 TGGGCACTCGGTCTAGTGAGCGTTTTGTCATCATGTACAGTAGAGAAGTGTGAATTAACCATGTGATG
 TTAATATTATAATAAATTTTAACTTTTTTTTTTCAAAAAAAAAAAAAA

Restriction Sites:	RsrII-NotI
ACCN:	NM_013820
Insert Size:	2754 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:	<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:	BC054472 , AAH54472
RefSeq Size:	5441 bp
RefSeq ORF:	2754 bp
Locus ID:	15277
UniProt ID:	O08528
Cytogenetics:	6 35.94 cM
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) (By similarity). Mediates the initial step of glycolysis by catalyzing phosphorylation of D-glucose to D-glucose 6-phosphate (By similarity). Plays a key role in maintaining the integrity of the outer mitochondrial membrane by preventing the release of apoptogenic molecules from the intermembrane space and subsequent apoptosis (PubMed:18350175).[UniProtKB/Swiss-Prot Function]