

Product datasheet for **RN214718**

Hk1 (NM_012734) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hk1 (NM_012734) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Hk1
Synonyms:	HEXOKIN; HKI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF:

>RN214718 representing NM_012734
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCGCCGCGCAACTACTGGCCTATTACTTCACCGAGCTGAAGGATGACCAAGTCAAAAAGATTGACA
 AGTATCTGTACGCCATGCGGCTCTCTGATGAGATTCTGATAGATATCCTGACACGATTCAAGAAAGAGAT
 GAAGAATGGCCTCTCCCGGATTATAATCCAACAGCCTCCGTCAAGATGCTGCCACCTTCGTCGGTCC
 ATTCGGACGGCTCAGAAAAGGGGATTTCATTGCCCTGGATCTCGGCGGGTCTTCTTTTGAATCCTGC
 GGGTGCAGGTGAACCACGAGAAGAACCAGAACGTGAGTGGAGTCTGAGATCTACGACACCCAGAGAA
 CATCGTGCATGGCAGTGGAAACCCAGCTTTTCGATCATGTCGCTGACTGCCTGGGAGACTTCATGGAGAAA
 AAGAAGATCAAGGACAAGAAGTTACCCGTGGGATTCACATTTTCTTCCCTGCCGACAATCAAGATAG
 ATGAGGCTGTACTGATCACGTGGACAAAGCGGTTCAAAGCCAGTGGCGTGAAGGAGCGGATGTGGTCAA
 GTTGCTGAATAAAGCCATTAAGAAGCGAGGGGACTATGATGCTAACATTGTCGCCGTGGTGAATGACACA
 GTAGGGACCATGATGACCTGCGGTTATGATGACCAACAGTGTGAAGTCCGGCTGATCATTGGCACAGGCA
 CCAATGCTTGCTACATGGAGGAAGTGCACACATCGACCTGGTGGAAAGGCGACGAGGGGAGGATGTGTAT
 TAACACGGAATGGGGAGCCTTTGGGGATGATGGGTCCCTGGAAGACATCCGAACCGAGTTTGACAGAGAG
 TTAGACCGTGGATCTCTCAACCTGGGAAGCAGCTGTTGAGAAGATGGTGGAGCGCATGTACATGGGGG
 AGCTGGTCCGGCTAATCCTGGTGAAGATGGCAAGGAAGGCTCTTATTCGAAGGGCGCATCACTCCAGA
 GCTGCTCACGAGGGGAAAGTTCAACACTAGTGACGTGTCGCCATTGAAAAGGATAAGGAAGGCATTCAA
 AATGCCAAGGAAATCTTAACCCGCTTGGGAGTGGAGCCGTCTGATGTTGACTGTGTGCGGTCCAGCACA
 TCTGACGATCGTCTCCTCCGATCAGCAACCTGGTGGCGCCACGCTCGGTGCCATTTGAACCGCCT
 CGGGGACAACAAGGGCACACACGCTGCGGACCACGGTTGGCGTGGACGGTTCTCTACAAGATGCAC
 CCACAGTACTCCCGCGGTTCCACAAGACCCTGAGGCGCCTGGTGCCTGACTCCGACGTCGGTTTCTCC
 TCTCAGAGAGTGGCACGGGCAAGGGGGCCGCATGGTGCAGGAGTACCTACCGCTGGCTGAGCAGCA
 CCGGCAGATTGAGGAAACCTGGCCACTTCCGCCTCAGCAAGCAGACGCTGATGGAGGTGAAGAAGAGG
 CTACGGACAGAGATGAAATGGGGCTGAGGAAGGAGACCAACAGCAAAGCTACTGTCAAATGCTGCCTT
 CTTTTGTCGGGAGCATCCCGGATGGGACTGAACACGGTACTTCTGGCCTTGGATCTTGGAGGAACGAA
 TTTCCGGGTTCTGCTGGTAAAGATCCGAGTGGGAAAAAGAGAACAGTGGAAATGCACAACAAGATCTAC
 TCCATTCCTGGAAATCATGCAGGGCACCGGGATGAGCTGTTGACCACATCGTCTCCTGCATCTCTG
 ACTTCTGGACTACATGGGGATCAAAGGCCCGGATGCCTCTGGGCTTACCTTCTCATTTCCTGCCA
 TCAGACGAACCTGGACTGTGGAATCTTGATCTCATGGACAAGGGTTTCAAAGCCACTGACTGTGAGGGC
 CATGATGTAGCCTCCTTACTGAGGGATGCGGTGAAGAGGAGAGAGGAATTTGACTTGGATGTGGTGGCTG
 TGGTCAACGACACCGTGGGCACCATGATGACCTGTGCGTATGAAGAACCCTTGGCAAATTTGGACTCAT
 CGTGGGGACGGGCACCAATGCCTGCTACATGGAGGAGATGAAGAATGTGGAGATGGTGGAGGGGAACCA
 GGCCAGATGTGCATCAACATGGAGTGGGGCGCCTTCGGTGACAATGGGTGTCTGGATGACATCAGAACAG
 ACTTTGACAAAGTGGTGGACGAATTTCTCTAACTCTGGGAAACAAAGTTTGAAGAAAATGATCAGTGG
 GATGTACCTGGGTGAGATCGTCCGTAACATCCTGATTGACTTACCAAGAAAGGCTTCTCTTCCGGGGA
 CAGATCTCCGAACCACTCAAGACCCGAGGCATCTTTGAGACCAAGTTTCTCTCAGATTGAGAGTGACC
 GGTTAGCGCTGCTCCAGGTGCGGGCCATCCTTACGAGCTGGGTTTGAACAGCACGTGTGACGACAGTAT
 CCTGGTCAAGACCGTGTGTGGGGTGGTGTCCAAGAGGGCGGCTCAGCTGTGTGGTGCCGGCATGGCCGC
 GTGGTGGAAAAGATCAGAGAGAACAGAGGCTAGACCATCTGAATGTAAGTGTGGAGTGGATGGGACGC
 TCTACAAACTTCCACTTCTCCAGAAATCATGCACCAAACTGTGAAGGAACTGTACCAAAGTGTAC
 CGTGTCTTCTCTGTGAAGACGGCAGCGCAAGGGGGCCGCTTATCACAGCTGTGGCGTGGCG
 CTCAGAGGAGACCCTTCGATCGCCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_012734
Insert Size:	2757 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:	NM_012734.1 , NP_036866.1
RefSeq Size:	3653 bp
RefSeq ORF:	2757 bp
Locus ID:	25058
UniProt ID:	P05708
Cytogenetics:	20q11
Gene Summary:	a ATP:D-hexose 6-phosphotransferase involved in the phosphorylation of glucose to produce glucose-6-phosphate [RGD, Feb 2006]