

Product datasheet for **MC222613**

Hkdc1 (NM_145419) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Hkdc1 (NM_145419) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Hkdc1 |
| Synonyms: | BC016235 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC222613 representing NM_145419
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTGCAGTACACTTGGTGGGTTTTACTTACCAAGCTGAAGGAGGACCAGATCAAGAAGGTGGACA
 GGTTCCCTGTATCACATGCGGCTCTCGGATGAGACCCTGGTGGACATCATGGCCCGCTTCCAGGCCGAGAT
 GGAGAAAGGCTTGGGGAAGGACACCAACCCCACTGCCTCTGTGAAGATGCTGCCACATTCGTCAGGGCC
 ATTCCAGATGGCTCAGAAAACGGGGAATTCCTTCCCTGGATCTCGGAGGATCCAAGTTTCGGGCTTTGA
 AGGTGCAAGTCTCCAAGAGGGCCAGCAAAATGTTGAGATGGAGAGCCAGTTCTACCCAATGCCAATGA
 AATCACCCGTGGGAATGGCACGGAGCTTTTACTACGTAGCCGACTGCCTGGCAGATTCATGAAGACC
 AAAAATCTGACACATAAGAAGCTGCCTCTGGGCTTACCTTTTCTTTCCCTGCAGACAGAATAAGTTGG
 AGGAGGGTGTCTGCTTTCGTGGACCAAGAAGTCAAGGCCCGGGGAGTTCAGGACACAGACGTGGTGAA
 CCGCCTGGCCACTGCCATGAAGAAGCACAAAGACTGGACGTGGACATCTGGCTTTGGTTAACGACACT
 GTGGGGACCATGATGACTTGTGCTTATGATGATCCCAACTGTGAAGTCGGCGTTATCATCGGAACAGGCA
 CCAACCGTGTACATGGAGGACATGAGCAACATCGACCTCGTGAAGGGGACGAGGGAAGGATGTGTAT
 CAACACGGAGTGGGGGCCCTTTGGGGACGATGGGGCTTTGGAGGACATCCGCACCGAGTTTGACAGAGAG
 CTGGACCTGGGCTCGCTCAACCCCGGGAAGCAGCTGTTGAGAAGATGATCAGCGGGCTGTACATGGGGG
 AGCTGGTCAGGCTTATCTTGTGAAGATGGCCAAAGTTGGTCTCTGTTGGGGGTGCAAAATCCTCTGC
 TCTCCATACAAAGGGCAAGATCGAAACACAGCAGTGGCTGCCATGGAGATGAGTAAAGAAGGCCTGGCC
 AACACTCGAGAGATCCTGGTGGATTTGGCCTGGAGCCCTCTGAGTCAGACTGCATCGCTGTCCAGCAGC
 GTGCTACCATCGTCTCTTTTCGCTCAGCCAATCTCTGCGCAGCGGCTCTGGCAACCCTGACTGCGACT
 CCGAGAGAACAAAGAAGCTGGCCCGGCTCCGCACCACAGTGGGCATGGATGGAACCTCTACAAAACACAC
 CCTCAGTACCCAAACGCCTACACAAGGTGGTGAAGGAGACTGGTCCCAAAGTGTGATGTCCGCTTCTCC
 TGTCAGAGAGTGAAGCACCAAGGGGGCCCATGGTGACCGCAGTGGCCTCTCGGGTACAGGCCACGG
 CAAGCAGATCGACAAGGTGCTGGCTTTGTTCCAGTTGACCCGAGAGCAACTCCTGGGTGTGCGGGACAAG
 ATGCGGGCTGAAGTACAGTACGGGCTGAAGAAAAGACCCACTCTCTGGTACCGTGAAGATGCTTCCCA
 CCTATGTCTATGGGATGCCGGATGGCACAGAGAAAAGAAAGTTCCCTGCCCTGGATTTGGGGGAACCA
 CTTCCGAGTCTCCTGGTAAAGATCAGGCGGAGGTCTGTGCGCATGTACAACAAGATCTTCGCCATCCCT
 CTGGAGATCATGCAGGGCACTGGGAGGAGCTTTTACCACATCGTACAGTGCATCGCTGACTTCTGG
 ACTACATGGGCCCTCAAGGGCGCCAGCTGCCTTTGGGCTTACCTTCTCCTTCCCTGCAGACAGACATG
 CATCGACAAGGGGACTCTAGTAGGGTGGACAAAGGCTTCAAGGCCACCGACTGTGAAGGGGAGGACGTG
 GTGGACATGCTCAGAGAAGCCATCAAGAGGAGAAAACGAGTTTACCTGGACATTGTTGCAATCGTGAACG
 ACACAGTGGGGACCATGATGACCTGTGGCTATGAAGATCCCAGGTGTGAGATTGGCTTGATTGCAGGGAC
 AGGAAGCAACGTGTGCTACATGGAGGAAATGAGGAACATCGAGCTGGTGGATGGGGACGAAGGCCGGATG
 TGCGTCAACACGGAGTGGGGCGGTTTGGTGACAATGGCTGCATCGATGACATCCGCACCCAGTATGACA
 AGGAGGTGGATGAGGGCTCCCTGAACGCCGCAAGCAGAGATACGAGAAAATGACCAGTGAATGTACCT
 GGGGAGATTGTGAGCGGATCCTGATCGACCTCACCCGCGAGGGCTCCTCTTCCGAGGGCAGATTTCA
 GAGCGACTCCGGACCAGGGGCATCTTTGAAACCAAATCCTGTCCAGATTGAAAGTGAACCGGCTGGCCC
 TCCTGCAGGTCAGGAGGATCCTGCAGCAGCTGGGCTGGACAGCAGTGCGAAGACAGTATTGTGGTGAA
 GGAGGTGTGTGGGCTGTGTCTCGGAGGGCCGCCAGATGTGTGGTGCCGGCATGGCTGCCATCGTGGAG
 AAGAGGAGAGAAGACCAAGGCCTCCAGCACTTCAAGGTACCCTGGGCGTGGATGGCACACTGTACAAGC
 TGCACCCGCACTTCTCCCGGATACTGCAGGAGACGGTGAAGAGCTGGCCCTCAGTGTGATGTGACATT
 TATGTTGTCAGAAGACGGCAGCGGGAAGGGAGCAGCTCTGATCACAGTGTAGCCAAGAGGTTACAGCAG
 CCACGGAAGGACATC**TAG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

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| ACCN: | NM_145419 |
| Insert Size: | 2748 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_145419.1 , NP_663394.1 |
| RefSeq Size: | 3497 bp |
| RefSeq ORF: | 2748 bp |
| Locus ID: | 216019 |
| UniProt ID: | Q91W97 |
| Cytogenetics: | 10 B4 |
| Gene Summary: | Catalyzes the phosphorylation of hexose to hexose 6-phosphate, although at very low level compared to other hexokinases (By similarity). Has low glucose phosphorylating activity compared to other hexokinases (By similarity). Involved in glucose homeostasis and hepatic lipid accumulation (PubMed:30543855). Required to maintain whole-body glucose homeostasis during pregnancy; however additional evidences are required to confirm this role (PubMed:25648650, PubMed:27459389).[UniProtKB/Swiss-Prot Function] |