

Product datasheet for **RR209937**

Klhdc10 (NM_001017456) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Klhdc10 (NM_001017456) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Klhdc10
Synonyms: RGD1309792
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR209937 representing NM_001017456
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGCTGCCAGGGCTGGGACCGAACCGCCGGCGGGGAGGAGGCGCAGCCGGCGGGCCAGCGGGG
 TTAGCGGGCCGGCGCGGCCGGCGGGGTGGGGCACCGACAGCTCAACCGATTCTGTCAGCTCTCCGG
 ACGTCCGACCTGCCAGGCCACAGACCTCCCCAGCCCGAGTGGACACCGTTGTGTGGCAGATAACACC
 AATCTCTATGTGTTGGAGGTATAACCCAGACTATGATGAATCGGGAGGGCCAGATAACGAAGACTATC
 CTCTCTCAGGGAGCTTTGGAGGTATCATTTTGAACAGGCGTGTGGCACCAGATGGGCACAGATGGCTA
 CATGCCCGGGAATTGGCATCTATGTCACTTGTGCTGCATGGAACAACCTGCTTGTCTTTGGAGGCACA
 GGCATCCCATTTGGGAGAGCAACGGCAATGATGTCCACGTCTGCAATGTGAAGTACAAGAGATGGGCT
 TACTCAGCTGTGCTGGGAAGAGACCCAGTCCGATATACGGACAGGCAATGGCCCTCATCAATGGGTCCCT
 TTACGTCTTTGGGGAAACAACCTGGCTACATCTATAGCACAGACCTGCACAAGTTAGATCTCAACACCATG
 GTGTGGACACAGCTCAAACCAACAACCTGTCTGTGACCTGCCGGAGGAGAGGTACAGACATGAAATTG
 CTCATGATGGGCAGAGGATTTACATCTTGGGAGGAGGCACTTCTGGACAGCCTATTCTTAAACAAGAT
 CCACGCATATAACCTTGAACAAATGCATGGGAGGAGATCGCAACAAAACCTCATGAAAAATAGGTTTT
 CCTGCAGCCGACGATGTCACAGTTGTGTTCAAATAAAAAATGATGTCTTCATTTGGTGGCTATAATG
 GAGAAGTGATCCTGGGAGACATCTGGAAGCTGAATCTTCAGACTTTTCAGTGGGTGAAGCTCCCCGCCAC
 CATGCCAGAGCCGTTTACTTTCACTGTGACGCTGTCACACCTGCCGGCTGCATGTATATCCACGGAGGA
 GTGGTGAACATCCACGAAAAACAACGGACTGGATCGCTGTTAAGATCTGGCTGGTGGTACCTAGCCTGC
 TGGAACTGGCATGGGAGAAGCTGCTCGCGCCTTCCCCAACCTAGCAAACCTTTCCCGAACACAGCTTCT
 GCACCTTGGACTCACACAGGAACCTATCGAGCGTTTAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR209937 representing NM_001017456
Red=Cloning site Green=Tags(s)

MSAAQGWDRNRRRGGGAAGGASGVSGAGAAGGGRGTGQLNRFVQLSGRPHLPGHRPPPARSGHRCVADNT
 NLYVFGGYNPDYDESGGPDNEDYPLFRELWRYHFATGVVHQMGTDGYMPRELASMSLVLHGNNLLVFGGT
 GIPFGESNGNDVHVCNVKYKRWALLSCRGKRPSRIYQAMALINGSLYVFGGTTGYIYSTDHLKLDLNTM
 VWTQLKPNLSCDLPEERYRHEIAHDGQRIYILGGGTSWTAYSLNKIHAYNLETNAWEEIATKPEKIGF
 PAARRCHSCVQIKNDVFCGGYNGEVILGDIWKLNLQTFQWVKLPATMPEPVYFHCAAVTPAGCMYIHGG
 VVNIHENKRTGSLFKIWL VVPSLLELAWEKLLAAFPNLANLSRTQLLHLGLTQELIERLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001017456

ORF Size: 1230 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001017456.1](#), [NP_001017456.1](#)

RefSeq Size: 1480 bp

RefSeq ORF: 1233 bp

Locus ID: 312199

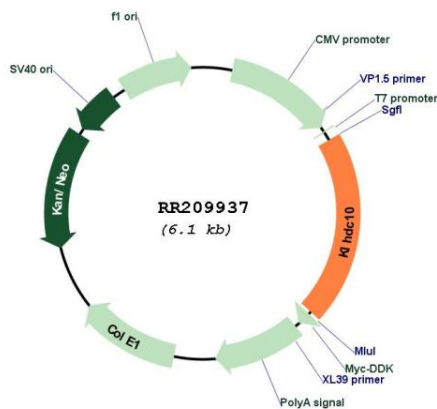
UniProt ID: [Q5U3Y0](#)

Cytogenetics: 4q22

MW: 45.4 kDa

Gene Summary: Participates in the oxidative stress-induced cell death through MAP3K5 activation. Inhibits PPP5C phosphatase activity on MAP3K5 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR209937