

Product datasheet for **RC205967**

HDHD2 (NM_032124) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDHD2 (NM_032124) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HDHD2
Synonyms:	3110052N05Rik; HEL-S-301
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205967 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGCATGCCGTGCATTAAGCTGTTTTGGTAGATCTCAGTGGCACACTTCACATTGAAGATGCAG
CTGTGCCAGGGCGCACAGGAAGCTCTTAAAGGTTACGTGGTGCTTCTGTAATCATTAGGTTTGACCAA
TACAACCAAGAGAGCAAGCAAGACCTGTAGAAAGTTGAGAAAATTGGAATTTGATATCTCTGAAGAT
GAAATATTCACATCTCTGACTGCAGCCAGAAGTTTACTAGAGCGGAAACAAGTCAGACCCATGCTGCTAG
TTGATGATCGGGCACTACCTGATTTCAAAGGAATACAAACAAGTGATCCTAATGCTGTGGTCATGGGATT
GGCACCAGAACATTTTCATTATCAAATTCGAATCAAGCATTCCGGTACTCCTGGATGGAGCACCTCTG
ATAGCAATCCACAAGCCAGGTATTACAAGAGGAAAGATGGCTTAGCCCTGGGGCCTGGACCATTTGTGA
CTGCTTTAGAGTATGCCACAGATACAAAGCCACAGTCGTGGGAAACCAGAGAAGACGTTCTTTTTGGA
AGCATTGCGGGCACTGGCTGTGAACCTGAGGAGGCTGTGATGATAGGAGATGATTGCAGGGATGATGTT
GGTGGGGCTCAAGATGTCGGCATGCTGGGCATCTTAGTAAAGACTGGGAAATATCGAGCATCAGATGAAG
AAAAAATTAATCCACCTCTTACTTAACCTGTGAGAGTTCCCTCATGCTGTGGACCACATTCTGCAGCA
CCTATTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205967 protein sequence
Red=Cloning site Green=Tags(s)

MAACRALKAVLVDL SGLTHIEDAAVPGAQEALKRLRGASVIIRFVTNTTKESQDLLERLRKLEFDISED
 EIFTSLTAARSLLERKQVRPMLLVDDRALPDFKGIQTSDPNAVVMGLAPEHFHYQILNQAFRLLLDGAPL
 IAIHKARYYKRKDGALGPGPFVTALEYATDTKATVVGKPEKTFLEALRGTGCEPEEAVMIGDDCRDDV
 GGAQDVGMLGILVKTGKYRASDEEKINPPPYLTCESPHAVDHILQHLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6073_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032124

ORF Size: 777 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_032124.5](#)

RefSeq Size: 2245 bp

RefSeq ORF: 780 bp

Locus ID: 84064

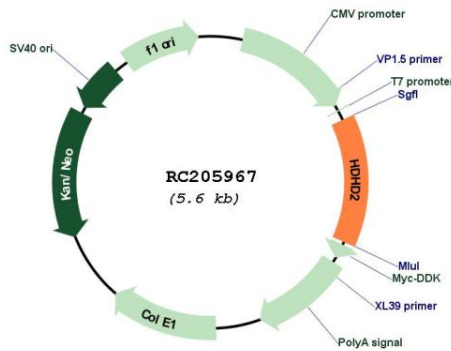
UniProt ID: [Q9H0R4](#)

Cytogenetics: 18q21.1

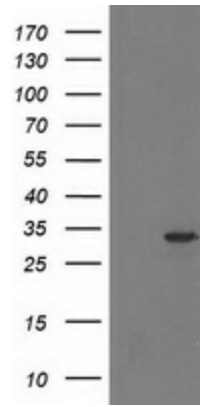
Domains: Hydrolase

MW: 28.5 kDa

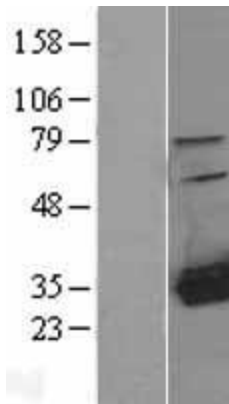
Product images:



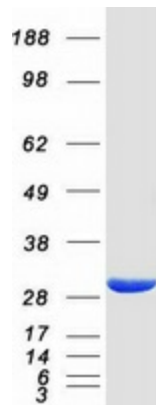
Circular map for RC205967



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HDHD2 (Cat# RC205967, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HDHD2 (Cat# [TA502847]). Positive lysates [LY403144] (100ug) and [LC403144] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403144]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205967 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HDHD2 protein (Cat# [TP305967]). The protein was produced from HEK293T cells transfected with HDHD2 cDNA clone (Cat# RC205967) using MegaTran 2.0 (Cat# [TT210002]).