

Product datasheet for **RG205967**

HDHD2 (NM_032124) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HDHD2 (NM_032124) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HDHD2
Synonyms:	3110052N05Rik; HEL-S-301
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205967 representing NM_032124 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCAGCATGCCGTGCATTAAAGCTGTTTTGGTAGATCTCAGTGGCACACTTCACATTGAAGATGCAG
 CTGTGCCAGGCGCACAGGAAGCTCTTAAAGGTTACGTGGTGCTTCTGTAATCATTAGGTTTGACCAA
 TACAACCAAGAGAGCAAGCAAGACCTGTTAGAAAGTTGAGAAAATTGGAATTTGATATCTCTGAAGAT
 GAAATATTCACATCTCTGACTGCAGCCAGAAGTTTACTAGAGCGGAAACAAGTCAGACCCATGCTGCTAG
 TTGATGATCGGGCACTACCTGATTTCAAAGGAATACAAACAAGTGATCCTAATGCTGTGGTCATGGGATT
 GGCACCAGAACATTTTCATTATCAAATTCTGAATCAAGCATTCCGGTTACTCCTGGATGGAGCACCTCTG
 ATAGCAATCCACAAAGCCAGGTATTACAAGAGGAAAGATGGCTTAGCCCTGGGGCCTGGACCATTGTGA
 CTGCTTTAGAGTATGCCACAGATACCAAAGCCACAGTCGTGGGAAACCAGAGAAGACGTTCTTTTGGGA
 AGCATTGCGGGGCACTGGCTGTGAACCTGAGGAGGCTGTCATGATAGGAGATGATTGCAGGGATGATGTT
 GGTGGGCTCAAGATGTCGGCATGCTGGGCATCTTAGTAAAGACTGGGAAATATCGAGCATCAGATGAAG
 AAAAAATTAATCCACCTCCTTACTTAACCTTGAGAGTTTCCCTCATGCTGTGGACCACATTCTGCAGCA
 CCTATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG205967 representing NM_032124
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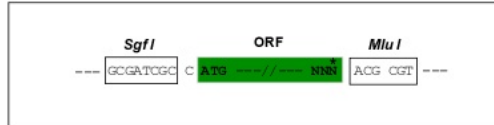
MAACRALKAVLVDL SGLTHIEDAAVPGAQEALKRLRGASVIIRFVTNTTKESKQDLLERLRKLEFDISED
 EIFTSLTAARSLLEKQVRPMLLVDDRALPDFKGIQTSDPNAVVMGLAPEHFHYQILNQAFRLLLDGAPL
 IAIHKARYYKRKDGALGPGPFVTALEYATDTKATVVVGKPEKTFLEALRGTCGCEPEEAVMIGDDCRDDV
 GGAQDVGMGLGILVKTGKYRASDEEKINPPPYLTCESFPHAVDHILQHLL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGAATTCGCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAC TAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCGGCGCGGAGCT

- - E E R V Stop

PmeI FseI

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032124.5](#)

RefSeq Size: 2245 bp

RefSeq ORF: 780 bp

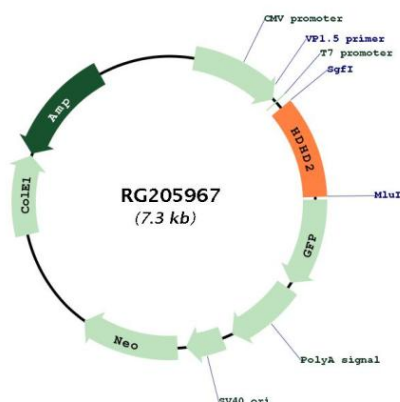
Locus ID: 84064

UniProt ID: [Q9H0R4](#)

Cytogenetics: 18q21.1

Domains: Hydrolase

Product images:



Circular map for RG205967