

Product datasheet for RR214073

Hibadh (NM_022243) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hibadh (NM_022243) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hibadh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214073 representing NM_022243 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGCAGCCTCCTGGGGTTCGGGGGGCAGCCTCCGGCCTCCGGTACTGGAGCGGCCGGCGGGCCCCG
TGGGCAGCCTTGACGCGGTGTGTCTAGGTCAATGGCTTCTAAGACTCCAGTTGGATTATTGGACTGGG
AAACATGGGCAATCCAATGGCAAAAAATCTCATAAAACATGGCTACCCACTCATCCTCTATGATGTGTT
CCTGACGTATGCAAAGAGTTTAAAGAGGCTGGTGAACAGGTAGCGTCTCCCCAGCAGATGTAGCGGAAA
AGGCTGACAGGATTATCACAATGCTGCCCTCCAGTATGAATTAATAGAAGTTTATTCTGGAGCAAATGG
AATTCTAAAAAAGTGAAGAAAGGCTCATTATTAATAGATTCCAGTACTATTGATCCTTCAGTTTCAAAA
GAATTGGCAAAAAGATTGAGAAAATGGGAGCTGTTTTTCATGGACGCCCTGTTTCTGGTGGCGTAGGAG
CTGCTCGGTCTGGAAACCTTACATTCATGGTGGGAGGAGTTGAAAATGAGTTTGCTGCTGCCAAGAGTT
GCTGGGGTGCATGGGCTCCAATGTATTGTACTGTGGAGCTGTCGGGTCTGGGCAGTCTGCAAAGATCTGT
AACACATGCTGTTGGCTATAAGTATGATCGGAACTGCTGAAGCTATGAACCTTGAATCAGGTCAGGCC
TTGACCCAAAATATTGGCTAAAATCCTGAATATGAGCTCAGGACGATGCTGGTCCAGCGACACTTACAA
CCCTGTACCTGGGTTATGGATGGAGTTCCTCATCTAATAACTACCAAGGTGGATTTGGGACAACACTC
ATGGCCAAGGATCTGGGATTAGCTCAAGACTCTGCCACCAGCACCAAGACCCCAATTCTCCTCGGAAGCG
TGGCCATCAGATACAGGATGATGTGTTCAAAGGGCTACTCAAAGAAAGACTTCTCCTGTGTTCCA
GTATCTGCGGGAGGAGGAAACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR214073 representing NM_022243
 Red=Cloning site Green=Tags(s)

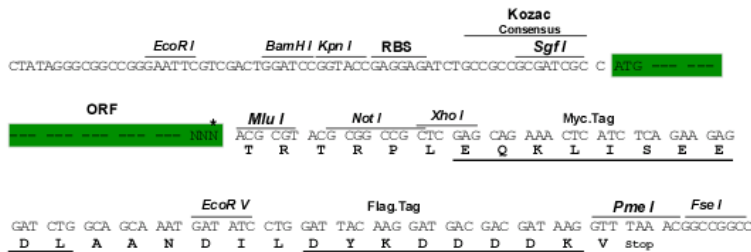
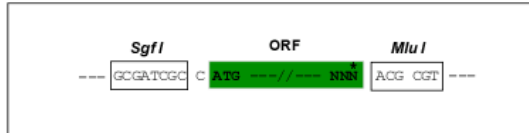
MAASLGFRGAASGLRYWSGRRRPVGSAAVCSRSMASKTPVGF IGLGNMGNPMKLNLIKHGYPILLYDVF
 PDVCKEFKEAGEQVASSPADVAEKADRIITMLPSSMNSIEVYSGANGILKKVKKGSLIDSSTIDPSVSK
 ELAKEVEKMGAVFMDAPVSGGVGAARSGNLT F MVGGVENEFAAAQELLGCMGSNLYCGAVGSGQSAKIC
 NNMLLAISMIGTAEAMNLGIRSGLDPKLLAKILNMSSGRCWSSDTYNPVPGVMDGVPSSNNYQGGFGTTL
 MAKDLGLAQDSATSTKTPILLGSVAHQIYRMMCKGYSKKDFSSVFQYLREEETF

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_022243

ORF Size: 1005 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_022243.1](#), [NP_071579.1](#)

RefSeq Size: 1769 bp

RefSeq ORF: 1008 bp

Locus ID: 63938

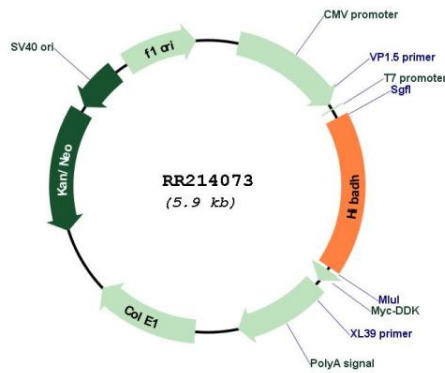
UniProt ID: [P29266](#)

Cytogenetics: 4q24

MW: 35.3 kDa

Gene Summary: catalyzes the conversion of 3-hydroxy-2-methylpropanoate and NAD⁺ to 2-methyl-3-oxopropanoate, NADH, and H⁺ [RGD, Feb 2006]

Product images:



Circular map for RR214073