

Product datasheet for **RR208247**

Bckdha (NM_012782) Rat Tagged ORF Clone

Product data:

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|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Bckdha (NM_012782) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Bckdha |
| Synonyms: | BCKDA; E1a |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR208247 representing NM_012782
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGTAGCGATGTCCGCGCAAGATCTGGAGGCCGAGCCGTGGCCTGCGCCAGGCTGCCCTCTTGC
 TGTTGGGGCGACCTGGGGCTCGGGCTTGCTAGATTCCACCCAGCAGGACGAGCAACAGCAGTTCCC
 ATCCCTGGATGACAAGCCCCAGTCCCAGGGCCCTCTGCAGAGTTTGTAGACAAGCTTGAGTTCATCCAG
 CCCAATGTCATCTCCGGCATCCCCATCTACCGCTCATGGACCGACAGGGCCAGATCATCAACCCAGTG
 AAGATCCCCACCTGCCCCAGGAGGAGTCTGAAGTTGTACAGGAGCATGACGCTGCTCAACACCATGGA
 CCGCATCTCTATGAGTCCAGCGACAGGGCCGGATCTCCTTCTACATGACCAACTATGGCGAGGAGGGG
 ACACATGTGGGGAGTGCCGCTGCCCTGGAGCGAACGGACCTGGTGTGGCCAGTACCGGGAGGCAGGTG
 TGCTCATGTACCGGACTACCCGCTGGAGCTGTTTATGGCCAGTGTACGGCAACGTGAGTGACCCAGG
 CAAGGGACGCCAGATGCCGTTCACTACGGCTGCAAGGAGCGTCACTTCGTCACCATTTCTCTCCACTG
 GCTACGCAGATCCCTCAGGCGGTAGGGGACGCCTATGCTGCCAAGCGGGCCAATGCCAATCAGATCGTGA
 TCTGTTACTTTGGCGAGGGGGCAGCCAGTGAAGGGGATGCCACGCCGGTTTCAATTTTGTGCCACCTT
 GGAGTGTCTATCATCTTCTTCTGCCGGAACAATGGCTATGCCATCTCCACCAACCTCTGAGCAGTAC
 CGTGGGGATGGCATAGCGGCTCGGGGCCCTGGGTATGGCATCATGTCAATCCGTGTGGACGGCAACGATG
 TGTTTGCAGGTGTACAATGCCACTAAGGAGGCCGACGGCGGGCTGTGGCTGAGAACCAGCCCTTCTCAT
 TGAGGCCATGACCTACAGGATCGGGACCAAGCAGCAGTACGACAGCTCTGCGTACCGTTCCGTTGGAT
 GAGGTCAATTACTGGGACAAGCAGGACCACCCGATCTCGAGACTGAGGCAGTACCTGCTGAACAGGGTT
 GGTGGGATGAGGAACAGGAGAAGCCCTGGCGGAAGCAGTACGAAAGAAGGTGATGGAGGCCCTTTGAACA
 GGCTGAGCGGAAGCTAAAGCCCAACCAAGCCTCCTTCTCCGATGTGTACCAGGAGATGCCTGCCAG
 CTGCGCAGGCAGCAGGAGTCCCTGGCTCGGCACCTGCAGACCTACGGGGAGCACTACCCCTGGACCACT
 TTGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208247 representing NM_012782
 Red=Cloning site Green=Tags(s)

MAVAMSAAKIWRPSRGLRQAALLLLGRPGARGLARFHPSPRQQQQFPSLDDKPQFPGASAEFVDKLEFIQ
 PNVISGPIYRVMDRQGGIINPSEDPHLPQEEVLKLYRSMTLLNTMDRILYESQRQGRISFYMTNYGEEG
 THVGSAAALERTDLVFGQYREAGVLMYRDYPLELFMAQCYGNVSDPGKGRQMPVHYGCKERHFVTISSPL
 ATQIPQAVGAAYAANKRANANQIVICYFGEAASEGDAHAGFNFAATLECPPIFFCRNNGYAI STPTSEYQ
 RGDGIAARGPGYGIMSIRVDGNDVFVAVYNATKEARRRAVAENQPFLIEAMTYRIGHHSTDDSSAYSVD
 EVNYWDKQDHPISRLRQYLLNQGWWDDEEQEKAWRKQSRKKVMEAFEQAERKLPNPSLLFSDVYQEMPAQ
 LRRQQESLARHLQTYGEHYPLDHFDDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

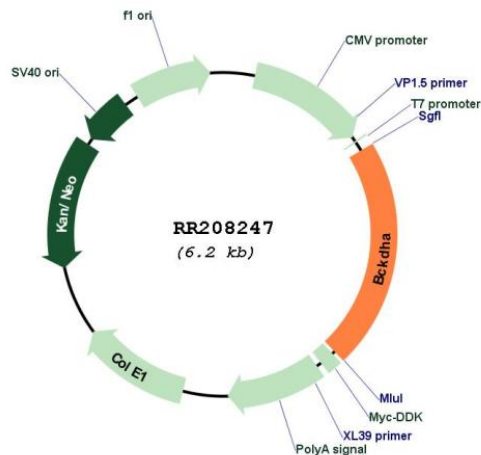
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012782

ORF Size: 1338 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_012782.1](#), [NP_036914.1](#)

RefSeq Size: 1690 bp

RefSeq ORF: 1341 bp

Locus ID: 25244

UniProt ID: [P11960](#)

Cytogenetics: 1q21

MW: 50.7 kDa

Gene Summary: plays a role in the conversion of 3-methyl-2-oxobutanoate and lipoamide to S-(2-methylpropanoyl)dihydrolipoamide and CO₂ [RGD, Feb 2006]