

## Product datasheet for RR215528

### Bckdhb (NM\_019267) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bckdhb (NM_019267) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bckdhb
Synonyms:	BCKDE1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR215528 representing NM_019267 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCGCGGTGGCTGCGCGCGCGGTGGGCTGCTGCGGCTCGGGGCTGCAGGAGCGGAGCGGGCGCGC  
GCGGATTGCGCTGCGCTGCGCTGGTGAAGGCTTCTTGCAACCCGCTGTCGATGACGCGTCCCAGAAGCG  
GCGGGTGGCCACTTCACTTTCCAGCCGACCCAGAGTCCCTCAGTATGGGCAAACAGAAAATGAAC  
CTTTCCAGTCAATAACAAGTGCCTTGGATAACTATTGGCCAAAGACCCTACTGCAGTAATATTTGGT  
AGGACGTTGCCTTTGGTGGAGTCTTCCGATGTACTGTTGGCTTACGAGACAAATATGGAAAAGACAGAGT  
GTTTAACACCCGTTGTGTGAACAAGGAATTGTTGGGTTTGGCATTGGAATCGCGGTCACTGGTGTACA  
GCTATTGCGGAAATCCAGTTTGCCTGACTATATTTCCCTGCCTTTGATCAGATTGCAACGAAGCTGCCA  
AGTATCGATACCGCTCTGGCGATCTTTCAACTGTGGGAGCCTCACCATCCGGGCCCTTGGGGCTGTGT  
GGGCCATGGGGCTCTTACCAATCTCAGAGTCTGAAGCCTTTTTGCCATTGCCAGGAATCAAGGTG  
GTTATACCCAGAAGCCCTTCCAGGCCAAGGGACTTCTGTTGTCATGCATAGAAGATAAAAAATCCATGTA  
TATTTTTGAACCTAAGATACTTACCAGGCGAGTGAAGAGTCCAGTGAACCCATCAAGATCCC  
CTTGTCTCAGGCCGAAGTCAATCCAGGAGGCGAGGATGTACTCTGGTTGCCCTGGGCACTCAGGTTCA  
GTCATCCGGGAGGTGGCTTCCATGGCCCAAGAAAAGCTTGGAGTGTCTTGTGAAGTCAATGATCAGGGA  
CCATTGTGCCTTGGGATGTGGATACAGTTTGAAGTCTGTGATCAAAACGGGGCGACTGTTGATCAGCCA  
CGAGGCCCTTGGAGGCGGCTTTCCTCTGAGATCAGCTCCACGGTCCAGGAAGAATGTTTCTTGAAC  
CTAGAGGCTCCAATATCTAGAGTGTGTGGATGACACCCGTTTCTCACATTTTGGCCCTTTTATA  
TCCAGACAAATGGAAGTGTATGATGCCCTTCGCAAGATGATCAACTAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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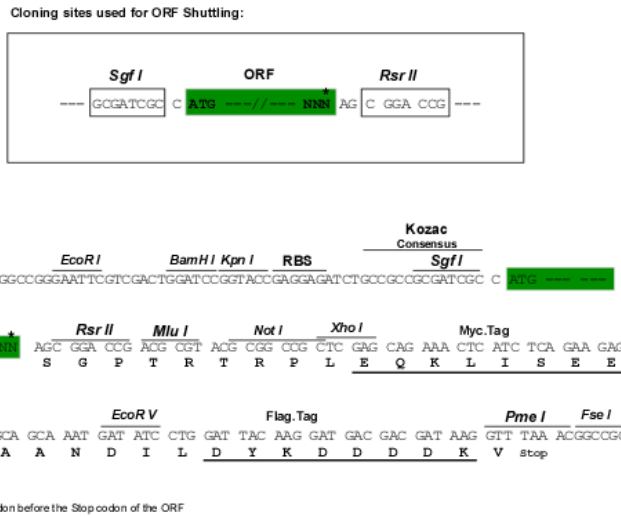
**Protein Sequence:** >RR215528 representing NM\_019267  
Red=Cloning site Green=Tags(s)

MAVAARAGLLRLGAAGAERRRRGLRCAALVQGFLQPAVDDASQKRRVAHFTFQDPESLQYGQTQKMN  
 LFQSITSALDNSLAKDPTAVIFGEDVAFGGVFRCTVGLRDKYKDRVFNTPLCEQGIIVGFGIGIAVTGAT  
 AIAEIQFADYIFPAFDQIVNEAAKYRYSRDLFNCGSLTIRAPWGCVGHGALYHSQSPEAFFAHCPIKIV  
 VIPRSPFQAKGLLLSCIEDKNPCIFFEPKILYRAAVEQVPVEPYKIPLSQAEVIQEGSDVTLVAVGTQVH  
 VIREVASMAQEKLGVSCVIDLRTIVPWDVDTVCKSVIKTGRLLISHEAPLTGGFASEISSTVQEECFLN  
 LEAPISRVCGYDTPFPHFIFEPFYIPDKWKCYDALRKMINY

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_019267

**ORF Size:** 1170 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\\_019267.1](#), [NP\\_062140.1](#)

**RefSeq Size:** 1491 bp

**RefSeq ORF:** 1173 bp

**Locus ID:** 29711

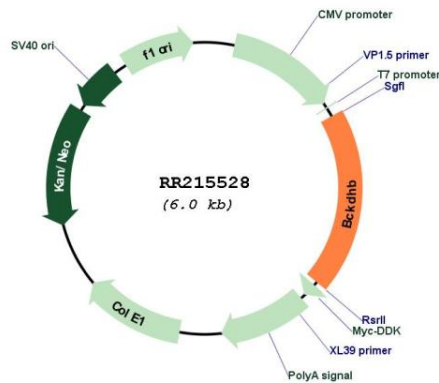
**UniProt ID:** [P35738](#)

**Cytogenetics:** 8q31

**MW:** 42.8 kDa

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

### Product images:



Circular map for RR215528