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Product datasheet for MR204658

Bckdhb (NM_199195) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bckdhb (NM_199195) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bckdhb
Synonyms:	BCKDE1B; BCKDH E1-beta
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR204658 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAACCTCTTCCAGTCAATAACAAGTGCCCTGGATAACTCATTAGCCAAAGACCCCACTGCAGTAATAT TTGGTGAAGATGTTGCCTTTGGTGGAGTCTTCCGATGCACTGTTGGTTTACGAGACAAATACGGAAAAGA TAGAGTGTTTAACACCCCGTTGTGTGAACAAGGAATAGTTGGATTTGGCATTGGAATCGCGGTCACCGGT GCTACAGCTATTGCGGAAATCCAGTTTGCCGACTATATTTTCCCTGCCTTTGATCAGATTGTCAACGAAG CTGCCAAGTATCGCTACCGCTCAGGTGATCTTTTCAACTGTGGGAGCCTCACCATCCGGGCCCCGTGGGG TTGTGTGGGCCATGGGGCTCTCTACCATTCTCAGAGTCCTGAAGCCTTTTTTGCCCATTGCCCAGGGATC AAGGTGGTAATACCCCGAAGCCCTTTCCAGGCCAAGGGACTTCTGTTGTCATGCATAGAAGATAAAAATC CATGTATATTTTTTGAACCTAAAATACTTTACCGGGCAGCAGTGGAACAGGTCCCAGTAGAACCCTACAA GATCCCCTTGTCTCAGGCTGAAGTCATCCAGGAGGGCAGCGATGTGACTCTGGTTGCCTGGGGCACTCAG GTTCATGTCATCCGGGAGGTGGCTTCCATGGCCCAAGAAAAGCTTGGAGTATCTTGTGAAGTCATCGATC TGCGGACAATTGTGCCTTGGGATGTGGATACAGTTTGCAAGTCTGTGATCAAAACCGGGCGACTGTTGAT CAGCCACGAGGCTCCCTTAACAGGCGGCTTTGCCTCTGAGATCAGCTCCACGGTCCAGGAAGAATGTTTC TTGAACCTAGAGGCTCCAATATCTCGAGTTTGCGGATATGACACCCCGTTTCCTCACATCTTTGAGCCCT TTTATATCCCAGACAAATGGAAGTGCTACGATGCCCTTCGCAAGATGATCAACTAT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

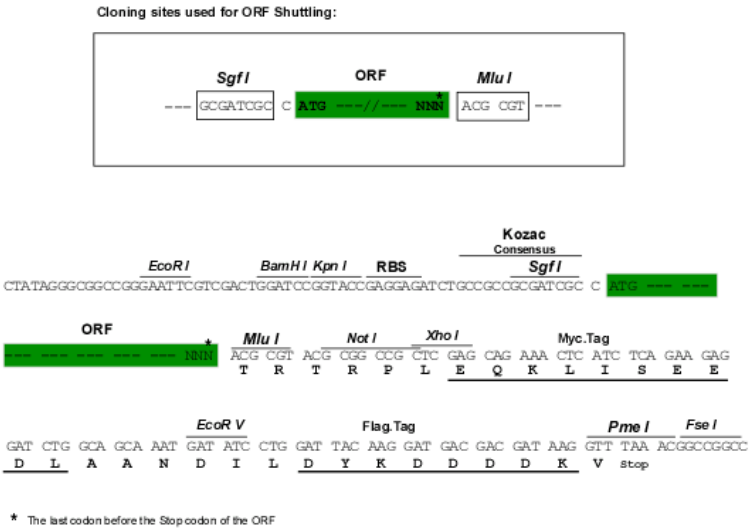
>MR204658 protein sequence
Red=Cloning site Green=Tags(s)

MNLFQSITSALDNSLAKDPTAVIFGEDVAFGGVFRCTVGLRDKYGKDRVFNTPLCEQGIVGFGIGIAVTG
ATAIAEIQFADYIFPAFDQIVNEAAKYRYRSGDLFNCGSLTIRAPWGCVGHGALYHSQSPEAFFAHCPGI
KVVIPRSPFQAKGLLLSCIEDKNPCIFFEPKILYRAAVEQVPVEPYKIPLSQAEVIQEGSDVTLVAWGTQ
VHVIREVASMAQEKLGVSCEVIDLRTIVPWDVDTVCKSVIKTGRLLISHEAPLTGGFASEISSTVQEECF
LNLEAPISRVCGYDTPFPHIFEPFYIPDKWKCYDALRKMINY

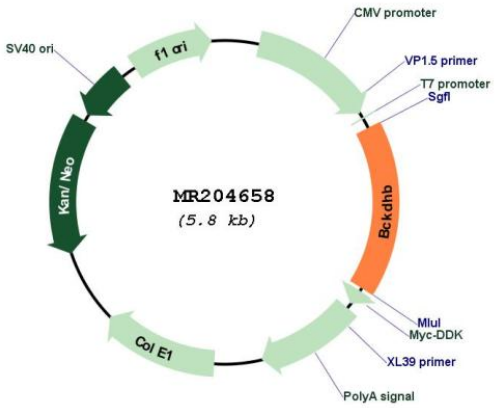
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_199195

ORF Size: 969 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_199195.1, NP_954665.1
RefSeq Size:	1419 bp
RefSeq ORF:	969 bp
Locus ID:	12040
UniProt ID:	Q6P3A8
Cytogenetics:	9 E2
MW:	35.5 kDa
Gene Summary:	This gene encodes the beta chain of the branched chain alpha ketoacid dehydrogenase (Bckdh) complex. The encoded protein exists in a heterotetrameric complex containing the Bckdh alpha subunit to form the E1 catalytic component of Bckdh complex. The Bckdh complex catalyzes the oxidative decarboxylation of branched chain ketoacids to their corresponding acyl-CoA esters, during the catabolism of leucine, isoleucine and valine. In humans, certain mutations in this gene cause maple syrup urine disease. Alternative splicing results in multiple transcript variants encoding different isoforms. A pseudogene for this gene has been identified. [provided by RefSeq, Apr 2015]