

Product datasheet for **MG204658**

Bckdhb (BC064099) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bckdhb (BC064099) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bckdhb
Synonyms:	BCKDE1B; BCKDH E1-beta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204658 representing BC064099 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCTCTCCAGTCAATAACAAGTGCCTGGATAACTCATTAGCCAAAGACCCCACTGCAGTAATAT
TTGGTGAAGATGTTGCCTTTGGTGGAGTCTTCCGATGCACTGTTGGTTTACGAGACAAATACGGAAAAGA
TAGAGTGTAAACACCCCGTTGTGTGAACAAGGAATAGTTGGATTGGCATTGGAATCGCGGTACCCGGT
GCTACAGCTATTGCGGAAATCCAGTTTGCCGACTATATTTCCCTGCCTTTGATCAGATTGTCAACGAAG
CTGCCAAGTATCGCTACCGCTCAGGTGATCTTTTCAACTGTGGGAGCCTCACCATCCGGGCCCGTGGGG
TTGTGTGGGCCATGGGGCTCTCTACCATTCTCAGAGTCCGAAGCCTTTTTGCCCATTGCCAGGGATC
AAGGTGTAATACCCGAAGCCCTTTCCAGGCCAAGGGACTTCTGTTGTCATGCATAGAAGATAAAAATC
CATGTATATTTTTGAACCTAAAATACTTTACCGGCAGCAGTGGAACAGGTCCCAGTAGAACCTACAA
GATCCCTTGTCTCAGGCTGAAGTATCCAGGAGGGCAGCGATGTGACTCTGGTTGCCTGGGGCACTCAG
GTTTCATGTATCCGGGAGGTGGCTTCCATGGCCCAAGAAAAGCTTGGAGTATCTTGTGAAGTATCGATC
TGCGGACAATTGTGCCTTGGGATGTGGATACAGTTTGAAGTCTGTGATCAAACCGGGCGACTGTTGAT
CAGCCACGAGGCTCCCTTAACAGGCGGCTTTGCCTCTGAGATCAGCTCCACGGTCCAGGAAGAATGTTTC
TTGAACCTAGAGGCTCCAATATCTCGAGTTTGGGATATGACACCCCGTTTCTCACTCTTTGAGCCCT
TTTATATCCAGACAAATGGAAGTGCTACGATGCCCTTCGCAAGATGATCAACTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204658 representing BC064099
 Red=Cloning site Green=Tags(s)

MNLFQSITSALDNSLAKDPTAVIFGEDVAFGGVFRCTVGLRDKYKDRVNTPLCEQGIVGFGIGIAVTG
 ATAIAEIQFADYIFPAFDQIVNEAAKYRYRSGDLFNCGSLTIRAPWGCVGHGALYHSQSPEAFFAHCPGI
 KVVIPRSPFQAKGLLLSCIEDKNPCIFFEPKILYRAAEQVPVEPYKIPLSQAEVIQEGSDVTLVAVGTQ
 VHVIREVASMAQEKLGVSCVIDLRTIIVPWDVDTVCKSVIKTGRLLISHEAPLTGGFASEISSTVQEECF
 LNLEAPISRVCGYDTPFFHIFEPFYIPDKWKCYDALRKMINY

TRTRPLE - GFP Tag - V

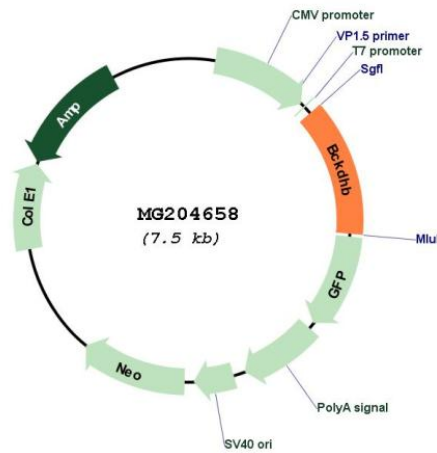
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC064099

ORF Size: 968 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:	<ol style="list-style-type: none">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:	BC064099 , AAH64099
RefSeq Size:	1419 bp
RefSeq ORF:	968 bp
Locus ID:	12040
Cytogenetics:	9 E2
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]