

Product datasheet for **MR204658L4V**

Bckdhb (NM_199195) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Bckdhb (NM_199195) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Bckdhb
Synonyms:	BCKDE1B; BCKDH E1-beta
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_199195
ORF Size:	969 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR204658).
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.
RefSeq:	NM_199195.1 , NP_954665.1
RefSeq Size:	1419 bp
RefSeq ORF:	969 bp
Locus ID:	12040
UniProt ID:	Q6P3A8
Cytogenetics:	9 E2



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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]