

## Product datasheet for RC201998L3

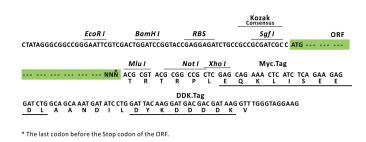
## DBT (NM\_001918) Human Tagged Lenti ORF Clone

## **Product data:**

## OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	DBT (NM_001918) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	DBT
Synonyms:	BCATE2; BCKAD-E2; BCKADE2; BCKDH-E2; BCOADC-E2; E2; E2B
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201998).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1         ORF         Mlu1            GCG ATC GC         ATG //         NNN         ACG CGT



ACCN: ORF Size: NM\_001918 1446 bp



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DBT (NM_001918) Human Tagged Lenti ORF Clone – RC201998L3	
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. <u>More info</u>
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 001918.2</u>
RefSeq Size:	10831 bp
RefSeq ORF:	1449 bp
Locus ID:	1629
UniProt ID:	<u>P11182</u>
Cytogenetics:	1p21.2
Domains:	biotin_lipoyl, 2-oxoacid_dh, e3_binding
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Valine, leucine and isoleucine degradation
MW:	53.5 kDa
Gene Summary:	The branched-chain alpha-keto acid dehydrogenase complex (BCKD) is an inner- mitochondrial enzyme complex involved in the breakdown of the branched-chain amino acids isoleucine, leucine, and valine. The BCKD complex is thought to be composed of a core of 24 transacylase (E2) subunits, and associated decarboxylase (E1), dehydrogenase (E3), and regulatory subunits. This gene encodes the transacylase (E2) subunit. Mutations in this gene result in maple syrup urine disease, type 2. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul

2008]

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