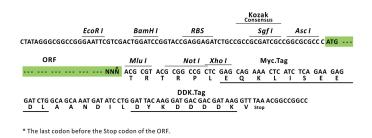


Product datasheet for RC204816L1

BCKDHA (NM_000709) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids Product Name: BCKDHA (NM_000709) Human Tagged Lenti ORF Clone Tag: Myc-DDK Symbol: BCKDHA Synonyms: BCKDE1A; MSU; MSUD1; OVD1A Mammalian Cell None Selection: Vector: pLenti-C-Myc-DDK (PS100064) E. coli Selection: Chloramphenicol (34 ug/mL) The ORF insert of this clone is exactly the same as(RC204816). **ORF** Nucleotide Sequence: **Restriction Sites:** Ascl-Mlul **Cloning Scheme:** Cloning sites used for ORF Shuttling: ORF Mlu I Asc I --- GGC GCG CC C ATG --- // --- NNN ACG CGT ---



 ACCN:
 NM_000709

 ORF Size:
 1335 bp

OriGene Technologies, Inc.

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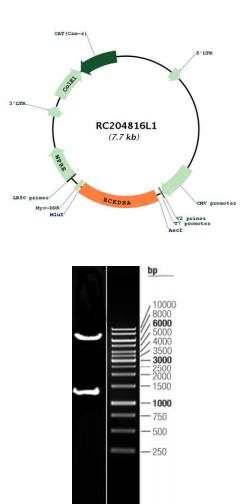
	3CKDHA (NM_000709) Human Tagged Lenti ORF Clone – RC204816L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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 Me	 thod: 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:	<u>NM 000709.3</u>
RefSeq Size:	1791 bp
RefSeq ORF:	1338 bp
Locus ID:	593
UniProt ID:	<u>P12694</u>
Cytogenetics:	19q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Valine, leucine and isoleucine degradation
MW:	50.9 kDa

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SCKDHA (NM_000709) Human Tagged Lenti ORF Clone – RC204816L1

Gene Summary:The branched-chain alpha-keto acid (BCAA) dehydrogenase (BCKD) complex is an innter
mitochondrial enzyme complex that catalyzes the second major step in the catabolism of the
branched-chain amino acids leucine, isoleucine, and valine. The BCKD complex consists of
three catalytic components: a heterotetrameric (alpha2-beta2) branched-chain alpha-keto
acid decarboxylase (E1), a dihydrolipoyl transacylase (E2), and a dihydrolipoamide
dehydrogenase (E3). This gene encodes the alpha subunit of the decarboxylase (E1)
component. Mutations in this gene result in maple syrup urine disease, type IA. Multiple
transcript variants encoding different isoforms have been found for this gene.[provided by
RefSeq, Sep 2009]

Product images:



Circular map for RC204816L1

Double digestion of RC204816L1 using Ascl and Mlul

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