

Product datasheet for **RC225553**

BCKDH kinase (BCKDK) (NM_001122957) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BCKDH kinase (BCKDK) (NM_001122957) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BCKDK
Synonyms: BCKDKD; BDK
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC225553 representing NM_001122957
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATCCTGGCGTCGGTCTGAGGAGCGGTCCCGGGGGCGGGCTCCGCTCCGGCCCTCCTGGGACCCG
 CACTCGCGCTCCGGGCCGCTCGACGTCGGCCACCGACACACCACGTGGAGATGGCTCGGGAGCGCTC
 CAAGACCGTCACCTCCTTTTACAACCAGTCGGCCATCGACGCGCAGCGGAGAAGCCCTCAGTCCGCCTA
 ACGCCACCATGATGCTCTACGCTGGCCGCTCTCAGGACGGCAGCCACCTTCTGAAAAGTCTCGGTACC
 TGCAGCAAGAACTTCCAGTGAGGATTGCTCACCGCATCAAGGGCTTCCGCTGCCTTCTTTCATCATTGG
 CTGCAACCCACCATACTGCACGTGCATGAGCTATATATCCGTGCCTTCCAGAAGCTGACAGACTTCCCT
 CCGATCAAGGACCAGGCGGACGAGGCCAGTACTGCCAGCTGGTGCACAGCTGCTGGATGACCACAAGG
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 CATGAGGACAAGCCTGACTTTGTCGGCATCATCTGTACTCGTCTCTCACCAAAGAAGATTATTGAGAAGT
 GGGTGGACTTTGCCAGACGCTGTGTGAGCACAAGTATGGCAATGCGCCCGTGTCCGCATCAATGGCCA
 TGTGGCTGCCCGTTCCCTTATCCCTATGCCACTGGACTACATCCTGCCGGAGCTGCTCAAGAATGCC
 ATGAGAGCCACAATGGAGAGTCACCTAGACACTCCCTACAATGTCCAGATGTGGTCATCACCATCGCCA
 ACAATGATGTCGATCTGATCATCAGGATCTCAGACCGTGGTGGAGGAATCGCTCACAAAGATCTGGACCG
 GGTGATGGACTACCACTTCACTACTGCTGAGGCCAGCACAGGACCCCGGATCAGCCCCCTTTTGGC
 CATCTGGACATGCATAGTGGCGCCAGTCAGGACCCATGCACGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC225553 representing NM_001122957
 Red=Cloning site Green=Tags(s)

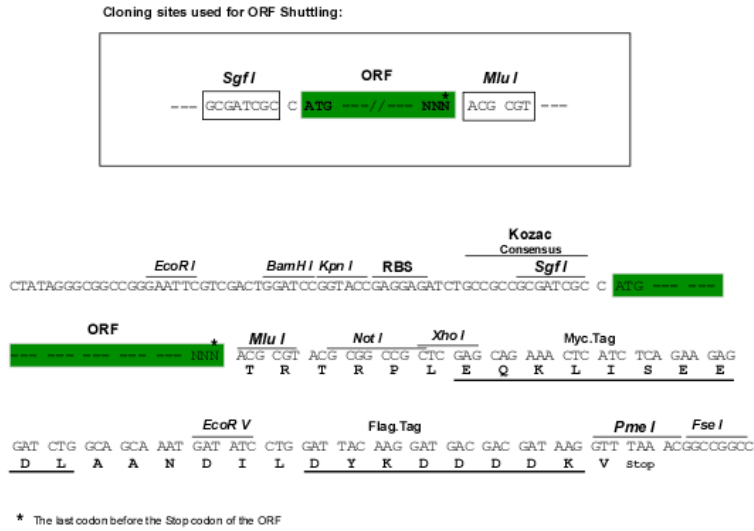
MILASVLRSGPGGGLPLRPLLGPALALRARSTSATDTHHVEMARERSKTVTSFYNQSAIDAAAEEKPSVRL
 TPTMMLYAGRSQDGSLLKSAARYLQQELPVRIAHRIKGFRCCLPFIIGCNPTILHVHLEYIRAFQKLTDFP
 PIKDAQADEAQYQQLVRQLLDDHKDVVTLAEGLRERSRKHIEDEKLVRYFLDKTLTSLRGIRMLATHHLAL
 HEDKPDFVGIICTRLSPKKIIEKWVDFARRLCEHKYGNAPRVRINGHVAARFPFIPMLDYILPELLKNA
 MRATMESHLDTPYNVPDVVITIANNDVLLIIRISDRGGGIAHKDLDRVMDYHFTTAEASTQDPRISPLFG
 HLDMHSGAQSGPMHG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

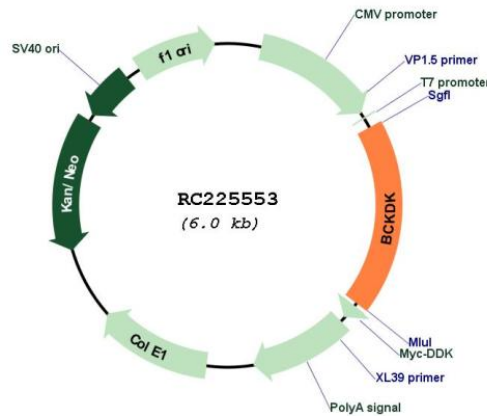
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001122957

ORF Size:	1095 bp
OTI Disclaimer:	<p>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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	NM_001122957.3
RefSeq ORF:	1098 bp
Locus ID:	10295
UniProt ID:	O14874
Cytogenetics:	16p11.2
Protein Families:	Druggable Genome, Protein Kinase
MW:	40.9 kDa
Gene Summary:	The branched-chain alpha-ketoacid dehydrogenase complex (BCKD) is an important regulator of the valine, leucine, and isoleucine catabolic pathways. The protein encoded by this gene is found in the mitochondrion, where it phosphorylates and inactivates BCKD. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2012]