

Product datasheet for MR206492

Bckdk (NM_009739) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bckdk (NM_009739) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bckdk
Synonyms:	A1327402
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206492 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATACTGACTTCAGTGCTGGGCAGCGGCCCTCGGAGCTGGTCTTCACTTTGGCCCTCTTGGGGTCTC
CACTGTCACTCCGGGCTCGCTCAACATCAGCCACCGATACACACCATGTAGAGCTGGCCAGGGAACGCTC
CAAGACTGTCACCTCTTTTTACAACCAGTCAGCCATTGATGTGGCAGCAGAGAAGCCCTCAGTTCGCCTC
ACTCCCACCATGATGCTCTATCCGGTCGCTCACAGGATGGCAGCCACCTTCTGAAAAGTGGCCGCTACT
TGCAGCAAGAGTTACCAGTGAGGATTGCTCACCGCATCAAGGGCTCCGTAGCCTTCCTTTCATCATTGG
TTGCAACCCTACCATACTGCATGTGCACGAGCTATACATCCGGGCCTTCCAGAAGCTGACAGACTCCCT
CCGATCAAGGACCAGGCAGATGAGGCCAGTACTGCCAGCTGGTGGAGACAGCTGCTAGATGACCACAAGG
ATGTGGTGACCCTGTTAGCTGAGGGTCTTCGTGAGAGCCGAAACACATCCAGGATGAAAAGCTAGTCCG
GTACTTCTGGATAAAACACTGACGTCAAGACTGGGATCCGAATGCTGGCTACTCACCCTTGGCGCTA
CATGAAGACAAGCCTGATTTTGTGGCATCATCTGACTCGTCTGTGCCCCAAGAAGATTATCGAGAAGT
GGGTGGATTTTGGCAGACGCCTGTGTGAGCACAAGTATGGCAATGCCCTCGAGTCCGCATCAACGGACA
TGTGGCTGCCCGTTCCCTTTCATCCCATGCCCTGGACTATACCTGCCTGAGCTGCTCAAGAATGCC
ATGAGAGCCACAATGGAGAGTCACCTAGACACTCCCTACAATGTCCCAGATGTGGTCATCACCATCGCCA
ATAATGATATTGATCTCATCATCAGGATCTCAGACCGGGGTGGAGGAATCGCTCATAAGGACCTGGATCG
GGTCATGGACTACCACCTCACCACAGCTGAGGCCAGCACCCAGGACCCCGAATCAACCCCTCTTCGGC
CACCTGGATATGCACAGTGGTGGCCAGTCAGGACCTATGCATGGCTTTGGCTTCGGGTTGCCACGTCCA
GGGCATATGCAGAGTATCTTGGTGGCTCCCTGCAGCTGCAGTCCCTGCAGGGCATTGGCACGGATGTCTA
CCTACGGCTCCGCCACATTGATGGTCGGGAGGAAAGCTTCAGAATC

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206492 protein sequence
 Red=Cloning site Green=Tags(s)

MILTSVLGSGPRSSWSSLWPLLGSLSLRARSTSATDTHHVELARERSKVTVSFYNQSAIDVAAEKPSVRL
 TPTMMLYSGRSQDGSLLKSGRYLQQELPVRIAHRIKGFRLPFIIGCNPTILHVHVELYIRAFQKLTDFP
 PIKDQADEAQYQQLVRQLDDHKDVTLLAEGLRERSRKHIQDEKLVRYFLDKTLT SRLGIRMLATHHLAL
 HEDKPDFVGIICTRLSPKKIIEKWVDFARRLCEHKYGNAPRVRINGHVAARFPFIPMLDYILPELLKNA
 MRATMESHLDTPYNVPDVVITIANNDIDLIIIRISDRGGGIAHKDLDRVMDYHFTTAEASTQDPRINPLFG
 HLDMHSGGQSGPMHGFGLPTSRAEYLGGSLLQLQSLQGIGTDVYLRLRHIDGREESFRI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009739

ORF Size: 1239 bp

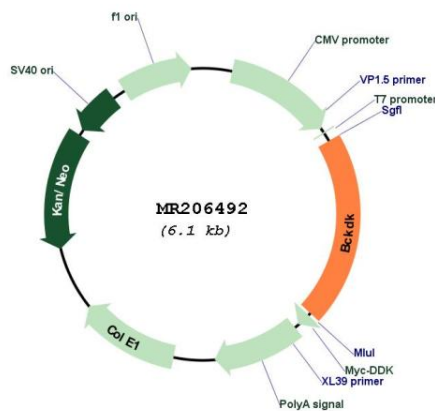
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com 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. [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:	<u>NM_009739.3</u> , <u>NP_033869.1</u>
RefSeq Size:	2857 bp
RefSeq ORF:	1239 bp
Locus ID:	12041
UniProt ID:	<u>O55028</u>
Cytogenetics:	7 F3
MW:	46.6 kDa
Gene Summary:	Catalyzes the phosphorylation and inactivation of the branched-chain alpha-ketoacid dehydrogenase complex, the key regulatory enzyme of the valine, leucine and isoleucine catabolic pathways. Key enzyme that regulate the activity state of the BCKD complex. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206492