

Product datasheet for **SC116464**

BCKDH kinase (BCKDK) (NM_005881) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BCKDH kinase (BCKDK) (NM_005881) Human Untagged Clone
Tag:	Tag Free
Symbol:	BCKDK
Synonyms:	BCKDKD; BDK
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF sequence for NM_005881 edited

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ATGATCCTGGCGTCGGTGTGAGGAGCGGTCCCGGGGCGGGCTTCCGCTCCGGCCCTC
CTGGGACCCGCACTCGCGCTCCGGGCCCGCTCGACGTCGGCCACCGACACACACCACGTG
GAGATGGCTCGGGAGCGCTCCAAGACCGTCACCTCCTTTTACAACCAGTCGGCCATCGAC
GCGGCAGCGGAGAAGCCCTCAGTCCGCCTAACGCCACCATGATGCTCTACGCTGGCCGC
TCTCAGGACGGCAGCCACCTTCTGAAAAGTGCTCGGTACCTGCAGCAAGAACTTCCAGTG
AGGATTGCTCACCGCATCAAGGGCTTCCGCTGCCTTCTTTCATCATTGGCTGCAACCC
ACCATACTGCACGTGCATGAGCTATATATCCGTGCCTTCCAGAAGCTGACAGACTTCCCT
CCGATCAAGGACCAGGCGGACGAGGCCAGTACTGCCAGCTGGTGGCAGCTGTGGAT
GACCACAAGGATGTGGTGACCCTTTGGCAGAGGGCTACGTGAGAGCCGGAAGCACATA
GAGGATGAAAAGCTCGTCCGCTACTTCTTGGACAAGACGCTGACTTCGAGGCTTGGAAATC
CGCATGTTGGCCACACATCACCTGGCGCTGCATGAGGACAAGCCTGACTTTGTGGGCATC
ATCTGTA CTCTCTCACCAAAGAAGATTATTGAGAAGTGGGTGGACTTTGCCAGACGC
CTGTGTGAGCACAAAGTATGGCAATGCGCCCCGTGCCGCATCAATGGCCATGTGGCTGCC
CGGTTCCCTTTCATCCCTATGCCACTGGACTACATCCTGCCGGAGCTGCTCAAGAATGCC
ATGAGAGCCACAATGGAGAGTCACCTAGACACTCCCTACAATGTCCCAGATGTGGTCATC
ACCATCGCCAACAATGATGTCGATCTGATCATCAGGATCTCAGACCGTGGTGGAGGAATC
GCTCACAAAGATCTGGACCGGGTCATGGACTACCACTTCACTACTGCTGAGGCCAGCACA
CAGGACCCCCGGATCAGCCCCCTTTTGGCCATCTGGACATGCATAGTGGCGCCAGTCA
GGACCCATGCACGGCTTTGGCTTCGGGTTGCCACGTCACGGGCCTACGCGGAGTACCTC
GGTGGGTCTCTGCAGCTGCAGTCCCTGCAGGGCATTGGCAGGACGTCTACCTGCGGCTC
CGCCACATCGATGGCCGGGAGGAAAGCTTCCGGATCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005881 unedited TCATATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACCAGGTTTCGAGCCCTTC CGCTGGGACCCGGGCCCTGGCTCCGGCCCCGCGATGGGAGCTGCTCTCCGCGGGCTGAGC CTGTGAGCATCTCGACGCACCTTGGTCCCTGAAGTCGGAGAAGAGCCCCCTACCCACCCA CACCCCCTTGCCCATTTTGGGTGCGCTGGGTCTCAGTCTAGCGGATCCTCAGTCCTA GCGGCCACCGGTCTGAAAGGAGCAAGACGATGATCCTGGCGTCGGTCTGAGGAAGCGG TCCCGGGGGCGGGCTTCCGCTCCGGCCCCCTCTGGGACCCGCACCTCGCGTCCGGGCCCG CTCGACGTCGGCCACCGACACACACCACGTTGGAGATGGCTCGGGAGCGCTCCAAGACCGT CACCTCCTTTTACAACCAAGTCGGCCATCGACGCGGCAGCGGAGAAGCCCTCAGTCCGCT AACGCCACCATGATGCTCTACGCTGGCCGCTCTCAGGACGCGAGCCACCTTCTGAAAAG TGCTCGGTACCTGCAGCAAGAATTCCAGTGAGGATTGCTCACCGCATCAAGGGTTCCG CTGCCTTCTTTCATCATTGGCTGCAACCCACCATACTGCACGTGCATGAGCTATATAT CCGTGCCTTCCAGAAGCTGACAGACTTCCCTCCGATCAAGGACCAGGCGGACGAGGCCCA GTACTGCCAGCTGGTGCACAGCTGCTGGATGACCACAAGATGTGGTGACCTCTTGGA GAGGGCTACGTGAGAGCCCGGAGCCATAGAGGATGAAAAGCTCGTCCGCTACTTCTTGG ACNAGACGCTGACTTCGAGGCTTGAATCCGCATGTTGGCCACACATCACCTGGCGCTGC ATGAGGACAAGCCTGACTTTGTCCG
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005881 unedited TTTAAGGTTTCTACTATGNACCGCGCACGCAATCTATGATCGATTTTTTTTTTTTTTTTT TTTTTTTTGGGCATTCAAAGTGAACCTTAATAACAGGTCAGAGTGGGGTTCCCCAGGA ACGAGAATGACGGAAGTGGTGTGGAGGCTCAAGGTGCCCACTTCCCTGCTCCAAGTTC TGGAGGCGAGGAGCAATGGACCCTGTTGAGGCAGGCGAGTCCAGCTCCATGTAAGTC CATCTGTCTGGTCCCTGAGACCAAGATGCAGCAGTGTGTGGAGCAAGGGGCCGCCCTG CCTGACCCGGGAGTCTGCAGGAATGCGGCCAAGCTGGTCCGGTGCAGGCGCAAAA GCTGTGGGGTCAGATCCGGAAGCTTTCCTCCCGCCATCGATGTGGCGGAGCCGCAAGTA GACGTCGGTGCCAATGCCCTGCAAGGACTGCAGTGCAGAGACCCACCGAGGTAATCCGC GTAGGCCCGTGACGTGGGCAACCCGAAGCCAAAGCCGTGCATGGGTCTGACTGGGCGCC ACTATGCATGTCCAGATGGCCAAAGAGGGGGCTGATCCGGGGTCTGTGTGCTGGCCTC AGCAGTAGTGAAGTGGTAGTCCATGACCCGGTCCAGATCTTTGTGAGCGATTCTCCACC ACGGTCTGAGATCCTGATGATCAGATCGACATCATTGTTGGCGATGGTATGACCACATC TGGGACATTGTAAGGAGTGTCTAGGTGACTCTCCATTGTGGCTCTCATGGCATTCTTGAG CAGCTCCGGCAGGATGTAGTCCAGTGGCATAAGGATGAATGGGAACCGGGCAGCCACATG GCCATTGATGCCGACACGGGGCG
Restriction Sites:	NotI-NotI
ACCN:	NM_005881
Insert Size:	1900 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
RefSeq:	NM_005881.1 , NP_005872.1
RefSeq Size:	1890 bp
RefSeq ORF:	1239 bp
Locus ID:	10295
UniProt ID:	O14874 , A0A024QZA9

Domains: HATPase_c

Protein Families: Druggable Genome, Protein Kinase

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]

Transcript Variant: This variant (1) encodes the longest isoform (a).