

Product datasheet for **RG208059**

BCKDHB (NM_183050) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BCKDHB (NM_183050) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BCKDHB
Synonyms: BCKDE1B; BCKDH E1-beta; E1B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208059 representing NM_183050
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGTTGTAGCGGGCTGCCGGCTGGCTACTCAGGCTCAGGGCGGCAGGGGCTGAGGGGCACTGGC
 GTCGGCTTCCTGGCGGGGGCTGGCGGGGCTTTTTGCACCCCGCCGACTGTCGAGGATGCGGCCCA
 GAGGGCGCAGGTGGCTATTTACTTTCCAGCCAGATCCGGAGCCCGGGAGTACGGGCAAACCTCAGAAA
 ATGAATCTTTCCAGTCTGTAACAAGTGCCTTGGATAACTCATTGGCCAAAGATCCTACTGCAGTAATAT
 TTGGTGAAGATGTTGCCTTTGGTGGAGTCTTTAGATGCACTGTTGGCTTGCAGACAAATATGGAAAAGA
 TAGAGTTTTTAATACCCATTGTGTGAACAAGGAATTGTTGGATTGGAATCGGAATTGCGGTCACTGGA
 GCTACTGCCATTGCGGAAATTCAGTTTGCAGATTATTTTTCCCTGCATTTGATCAGATTGTTAATGAAG
 CTGCCAAGTATCGCTATCGCTCTGGGATCTTTTTAACTGTGGAAGCCTCACTATCCGGTCCCCTTGGGG
 CTGTGTTGGTCATGGGGCTCTCTATCATTCTCAGAGTCCGGAAGCATTTTTTGCCATTGCCAGGAATC
 AAGGTGTTATACCCAGAAGCCCTTTCCAGGCCAAAGGACTTCTTTGTCATGCATAGAGGATAAAAATC
 CTTGTATTTTTTTGAACCTAAAATACTTTACAGGGCAGCAGCGGAAGAAGTCCCTATAGAACCATACAA
 CATCCCAGTGTCCAGGCCGAAGTATACAGGAAGGGAGTGATGTTACTAGTTGCCTGGGGCACTCAG
 GTTCATGTGATCCGAGAGGTAGCTTCCATGGCAAAGAAAAGCTTGGAGTGTCTTGTGAAGTCATTGATC
 TGAGGACTATAATACCTTGGGATGTGGACACAATTTGTAAGTCTGTGATCAAACAGGGCGACTGCTAAT
 CAGTACAGAGGCTCCCTTGACAGCGGCTTTGCATCGAAATCAGCTCTACAGTTCAGGAGGAATGTTTC
 TTGAACCTAGAGGCTCCTATATCAAGAGTATGTGGTTATGACACACCATTTCCTCACATTTTTGAACCAT
 TCTACATCCCAGACAAATGGAAGTGTATGATGCCCTTCGAAAAATGATCAACTAT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208059 representing NM_183050
 Red=Cloning site Green=Tags(s)

MAVVAAAAGWLLRLRAAGAEGHWRLPGAGLARGFLHPAATVEDAAQRRQVAHFTFQPDPEPREYGGTQK
 MNLFQSVTSALDNSLAKDPTAVIFGEDVAFGGVFRCTVGLRDKYKDRVNTPLCEQIGVGGIGIAVTG
 ATAIAEIQFADYIFPAFDQIVNEAAKYRYRSGDLFNCGSLTIRSPWGCVGHGALYHSQSPEAFFAHCPGI
 KVVIPRSPFQAKGLLLSCIEDKNPCIFFEPKILYRAAAEEVPIEPYNIPLSQAEVIQEGSDVTLVAWGTQ
 VHVIREVASMKEKLGVSCEVIDLRTIIPWDVDTICKSVIKTRLLISHEAPLTGGFASEISSTVQECCF
 LNLEAPISRVCGYDTPFPPIFFPFYIPDKWKCYDALRKMINY

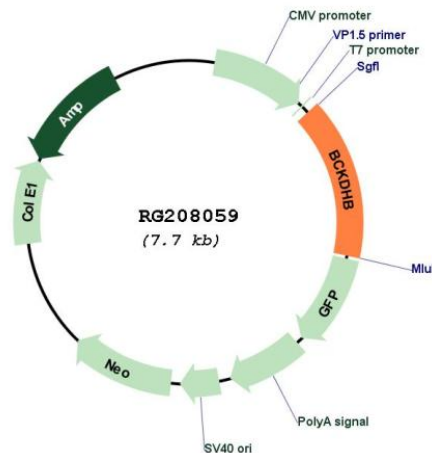
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_183050

ORF Size:	1176 bp
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. 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:	NM_183050.1 , NP_898871.1
RefSeq Size:	3703 bp
RefSeq ORF:	1179 bp
Locus ID:	594
UniProt ID:	P21953
Cytogenetics:	6q14.1
Protein Pathways:	Metabolic pathways, Valine, leucine and isoleucine degradation
Gene Summary:	This gene encodes the E1 beta subunit of branched-chain keto acid dehydrogenase, which is a multienzyme complex associated with the inner membrane of mitochondria. This enzyme complex functions in the catabolism of branched-chain amino acids. Mutations in this gene have been associated with maple syrup urine disease (MSUD), type 1B, a disease characterized by a maple syrup odor to the urine in addition to mental and physical retardation and feeding problems. Alternative splicing at this locus results in multiple transcript variants. [provided by RefSeq, Jan 2016]