

## Product datasheet for SC122430

### CLYBL (BC034360) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLYBL (BC034360) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLYBL
Synonyms:	bA134O15.1; citrate lyase beta like; CLB; OTTHUMP00000018626; OTTHUMP00000018628; OTTHUMP00000040737
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC034360 edited

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CGCGCGTCGGGAAGATGGCGCTACGTCTGCTGCGGAGGGCGCGCGGAGCTGCGGCGG
CGGCGCTGCTGAGGCTGAAAGCGTCTCTAGCAGCTGATATCCCCAGACTTGGATATAGTT
CCTCATCCCATCACAAGTACATCCCCGGAGGGCAGTGCTTTATGTACCTGGAATGATG
AAAAGAAAATAAAGAAGATTCCATCCCTGAATGTAGATTGTGCAGTGCTCGACTGTGAGG
ATGGAGTGGCTGCAAACAAAAGAATGAAGCTCGACTGAGAATTGTAAAACTCTTGAAG
ACATTGATCTGGGCCCTACTGAAAAATGTGTGAGAGTCAACTCAGTTTCCAGTGGTCTGG
CGGAAGAAGACCTAGAGACCCCTTTGCAATCCCGGCTCCTTCCAGCCTGATGCTAC
CAAAGGTGAAAGTCTGAAGAAATCCAGTGGTTGCAGACAAATTTTCATTCCACTTAA
AAGGCCGAAAACCTGAACAACCAATGAATTTAATCCCTTTTGTGGAACTGCAATGGGTT
TGCTCAATTTTAAGGCAGTGTGTGAAGAAACCCTGAAGGTCGGGCCTCAAGTAGGCTCT
TTCTAGATGCAGTCGTTTTTGGAGGAGAAGACTTTGAGCCAGCATAGGTGCAACAAGTA
GTAAGAAACCCTGGATATTCTCTACGCCCGCAAAGATTGTTGTCATAGCGAAAGCCT
TTGGTCTCCAAGCCGTAGATCTGGTGTACATTGACTTTGAGATGGAGCTGGGCTGCTTA
GACAGTACGAGAAGGAGCCGCATGGGCTTCACTGGTAAGCAGGTGATTCACCCTAACC
AAATTGCCGTGGTCCAGGAGCAGTTTTCTCCTTCCCCTGAAAAAATTAAGTGGGCTGAAG
AACTGATTGCTGCCTTTAAAGAATCAACAATTAGGAAAGGGGGCCTTTACTTTCCAAG
GGAGTATGATCGACATGCCATTACTGAAGCAGGCCAGAACACTGTTACGCTTGCCACCT
CCATCAAGGAAAATGATCTGTTAAATGAAGCTGTCATCAGGCTAAAGGGTATTGAAGCT
GCAGAGGGATCAACTTGTGCTTGCCAGAGGACGCCAATGAAGTTTGAACACCAACAATC
AGAGATTTTGTCTGTTCTCCTAATAATCATGAGCTTTGTGCCGAGAAAAA
AAAAAAAAAAAAAAAAAAAA
  
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC034360 unedited CAAATTTTGTATACGACTCACTATAGGCGGCCGCGAATCCCAGGATCGCGCGTCGGGAA GATGGCGCTACGTCTGCTGCGGAGGGCGGCGCGGAGCTGCGGCGGCGGCGCTGCTGAG GCTGAAAGCGTCTCTAGCAGTGATATCCCCAGACTTGGATATAGTTCCTCATCCCATCA CAAGTACATCCCCCGAGGGCAGTGCTTATGTACCTGGAAATGATGAAAAGAAAATAAA GAAGATTCATCCCTGAATGTAGATTGTGCAGTGTGACTGTGAGGATGGAGTGGCTGC AAACAAAAGAATGAAGCTCGACTGAGAATTGAAAACTTTGAAGACATTGATCTGGG CCTACTGAAAAATGTGTGAGAGTCAACTCAGTTTCCAGTGGTCTGGCGGAAGAAGACCT AGAGACCTTTTGAATCCCAGGTCCTTCTTCCAGCCTGATGCTACCAAAGGTGAAAG TCCTGAAGAAATCCAGTGGTTTGCAGACAAATTTTCATTCCACTTAANAGGCCGAANACT TGAACAACCAATGAATTTAATCCCTTTTGTGGAACTGCAATGGGTTTGTCAATTTTAA GGCAGTGTGTGAAGAAACCCTGAAAGTCGGGNCCTCAGTANGTCTCTTTCTAGATGCAGT CGTTTTTGGGAGAGAAGAACTTCGAGCCAGCATANGTGCCAACAGTAGTAAAGAAACCCT GGNATATCTCTACGCCCCGAAAGAATTGTGCATAGCGAAAGCTTTTGGGTCTCAGCCG TAGATCCTGTGGACATTGACTTTNCAGATGGACCTGGGCTGCTTANACAGTCCCGAGAAG GAGCCCGCTGGGCTTACTGGTAAGCAAGTGAATCACCTAACACATTGCCTGGTCCA GGAGCAAGTTTCTCTTCCCTGGAAAAATTAATGGGCTGAAAAATGGATG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC034360
<b>Insert Size:</b>	1224 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>BC034360.1, AAH34360.1</u>
<b>RefSeq Size:</b>	1224 bp
<b>Locus ID:</b>	171425
<b>Cytogenetics:</b>	13q32.3

**Gene Summary:**

Mitochondrial citramalyl-CoA lyase indirectly involved in the vitamin B12 metabolism (PubMed:29056341). Converts citramalyl-CoA into acetyl-CoA and pyruvate in the C5-dicarboxylate catabolism pathway (PubMed:29056341). The C5-dicarboxylate catabolism pathway is required to detoxify itaconate, a vitamin B12-poisoning metabolite (PubMed:29056341). Also acts as a malate synthase in vitro, converting glyoxylate and acetyl-CoA to malate (PubMed:29056341, PubMed:24334609). Also displays malyl-CoA thioesterase activity (PubMed:29056341). Also acts as a beta-methylmalate synthase in vitro, by mediating conversion of glyoxylate and propionyl-CoA to beta-methylmalate (PubMed:24334609, PubMed:29056341). Also has very weak citramalate synthase activity in vitro (PubMed:24334609, PubMed:29056341).[UniProtKB/Swiss-Prot Function]