

## Product datasheet for **TP304554**

### CLYBL (NM\_206808) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human citrate lyase beta like (CLYBL), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204554 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MALRLLRRAARGAAAAALLRLKASLAADIPRLGYSSSSHKKYIPRRVLYVPGNDEKKIKKIPSLNVDCA  
VLDCEGVAANKKNEARLRIVKTLEDIDLGPTEKCVRVNSVSSGLAEEDLETLQSRVLPSSLMLPKVES  
PEEIQWFADKFSFHLKGRKLEQPMNLIPFVETAMGLLNFKAVCEETLKVGPOVGLFLDAVVFGGEDFRAS  
IGATSSKETLDILYARQKIVIAKAFGLQAVDLVYIDFRDGAGLLRQSREGAAMGFTGKQVIHPNQIAVW  
QEQFSPSPEKIKWAEELIAAFKEHQQLGKGAFTFQGSMDMPLLKQAQNTVTLATSIKEK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	37.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_996531</a></u>
Locus ID:	171425

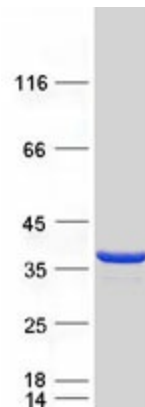


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UniProt ID: [Q8N0X4](#)  
RefSeq Size: 1401  
Cytogenetics: 13q32.3  
RefSeq ORF: 1020  
Synonyms: CLB

**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]

### Product images:



Coomassie blue staining of purified CLYBL protein (Cat# TP304554). The protein was produced from HEK293T cells transfected with CLYBL cDNA clone (Cat# [RC204554]) using MegaTran 2.0 (Cat# [TT210002]).