OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC322538

CLYBL (NM_206808) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLYBL (NM_206808) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLYBL
Synonyms:	CLB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for SC322538 CGCGCGTCGGGAAGATGGCGCTACGTCTGCTGCGGAGGGCGGCGCGCGGAGCTGCGGCGG CGGCGCTGCTGAGGCTGAAAGCGTCTCTAGCAGCTGATATCCCCAGACTTGGATATAGTT CCTCATCCCATCACAAGTACATCCCCCGGAGGGCAGTGCTTTATGTACCTGGAAATGATG AAAAGAAAATAAAGAAGATTCCATCCCTGAATGTAGATTGTGCAGTGCTCGACTGTGAGG ATGGAGTGGCTGCAAACAAAAAGAATGAAGCTCGACTGAGAATTGTAAAAACTCTTGAAG ACATTGATCTGGGCCCTACTGAAAAATGTGTGAGAGTCAACTCAGTTTCCAGTGGTCTGG CGGAAGAAGACCTAGAGACCCTTTTGCAATCCCGGGTCCTTCCTTCCAGCCTGATGCTAC CAAAGGTGGAAAGTCCTGAAGAAATCCAGTGGTTTGCAGACAAATTTTCATTCCACTTAA AAGGCCGAAAACTTGAACAACCAATGAATTTAATCCCTTTTGTGGAAACTGCAATGGGTT TGCTCAATTTTAAGGCAGTGTGTGAAGAAACCCTGAAGGTCGGGCCTCAAGTAGGTCTCT TTCTAGATGCAGTCGTTTTTGGAGGAGAAGACTTTCGAGCCAGCATAGGTGCAACAAGTA GTAAAGAAACCCTGGATATTCTCTACGCCCGGCAAAAGATTGTTGTCATAGCGAAAGCCT TTGGTCTCCAAGCCGTAGATCTGGTGTACATTGACTTTCGAGATGGAGCTGGGCTGCTTA GACAGTCACGAGAAGGAGCCGCCATGGGCTTCACTGGTAAGCAGGTGATTCACCCTAACC AAATTGCCGTGGTCCAGGAGCAGTTTTCTCCTTCCCCTGAAAAAATTAAGTGGGCTGAAG AACTGATTGCTGCCTTTAAAGAACATCAACAATTAGGAAAGGGGGCCTTTACTTTCCAAG GGAGTATGATCGACATGCCATTACTGAAGCAGGCCCAGAACACTGTTACGCTTGCCACCT CCATCAAGGAAAAATGATCTGTTAAATGAAGCTGTCATCAGGCTAAAGGGTATTGAAGCT GCAGAGGGATCAACTTGTGCTTGCCAGAGGACGCCAATGAAGTTTGAAACACCAACAATC AGAGATTTTGTTTCTGTTCCTCATTAAATCATGAGCTTTTGTGCCGAGAAAAAAAAAAAA AAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	Please inquire
ACCN:	NM_206808

View online »

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	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_206808.1, NP_996531.1
RefSeq Size:	1224 bp
RefSeq ORF:	1023 bp
Locus ID:	171425
UniProt ID:	Q8N0X4
Cytogenetics:	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] Transcript Variant: This variant (1) represents the shorter transcript and encodes the protein.