

## Product datasheet for MC210971

### Clybl (NM\_029556) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Clybl (NM\_029556) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Clybl  
**Synonyms:** 0610033J05Rik; 2310014M14Rik; A1256068; Clb  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC210971 representing NM\_029556  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCGTTGTGCGTGCTGCGGAACCGGTTCTGTGGAGCGGCGGCGCTGCCAGGCTGAAGGCATCCCACG  
 TGGTCAGTGTCTACAAGCCTAGATACAGCTCCTTGTCCAATCACAAGTATGTCCCCGGAGAGCAGTGCT  
 CTATGTCCCTGGGAATGACGAAAAGAAAATAAGGAAGATCCCGTCTTGAAGTAGATTGTGCCGTGCTG  
 GACTGCGAGGATGGTGTTCAGAAAACAAAAGAATGAAGCTCGATTGAGAATAGCAAAAACCTTTGAAG  
 ACTTTGACCTGGGCACAACGGAAAAGTGTGTGAGAATCAACTCGGTGTCTAGTGGTCTGGCTGAAGTCGA  
 CCTGGAGACATTTCTACAGGCCAGAGTTCTTCCCTCTAGTCTGATGCTACCAAAGGTAGAAGTCTGAA  
 GAAATCCGATGGTTTTTCAGACAAATTTTCACTCCACTTAAAAGGCCGAAAACCTTGAACAACCAATGAATT  
 TAATCCCCTTTGTGGAGACTGCAATGGGTTTGTCAATTTTAAGGCAGTGTGTGAAGAACTAAAGAC  
 TGGACCTCAAGTGGTCTTTGCCTAGATGCAGTCGTTTTTGGAGGAGAAGATTTTCGAGCCAGCATAGGT  
 GCAACAAGCAACAAGACACCCAAGACATCCTCTATGCCCGCAGAAAGTTGTTGTCACGGCAAAAGCCT  
 TTGGCCTACAAGCCATAGATCTTGTGTACATTGACTTCCGAGATGAAGACGGACTTCTCAGACAGTCAAG  
 GGAAGCAGCCGCCATGGGCTTCACTGGTAAACAGGTGATCCACCCTAACCCAGATCGCAGTGGTACAGGAA  
 CAGTTTACTCCAACCCAGAAAAAATTCAGTGGGCTGAAGAGCTGATTGCTGCCCTCAAAGAACCAGC  
 AGCTGGGAAAGGAGCCTTTACTTTCCGAGGAAGTATGATCGACATGCCATTACTGAAGCAGGCCAGAA  
 CATTGTTACGCTTGCCACATCCATCAAGAAAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_029556



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<b>Insert Size:</b>	1017 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>	<a href="#">NM_029556.3</a> , <a href="#">NP_083832.2</a>
<b>RefSeq Size:</b>	1257 bp
<b>RefSeq ORF:</b>	1017 bp
<b>Locus ID:</b>	69634
<b>UniProt ID:</b>	<a href="#">Q8R4N0</a>
<b>Cytogenetics:</b>	14 E5
<b>Gene Summary:</b>	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 (By similarity). 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 (By similarity). Also displays malyl-CoA thioesterase activity. Also acts as a beta-methylmalate synthase in vitro, by mediating conversion of glyoxylate and propionyl-CoA to beta-methylmalate (By similarity). Also has very weak citramalate synthase activity in vitro (By similarity).[UniProtKB/Swiss-Prot Function]