

Product datasheet for RN207019

Clybl (NM_001100685) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Clybl (NM_001100685) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Clybl
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Fully Sequenced ORF: >RN207019 representing NM_001100685
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCTGTGTGTGCTGCAGAACGCGGTTTCGCGGAGCGGCGGCTGCCAGGCTAAAGGCATCCCTCG
 TGGCCAGTGTCTGCAGGCCTGGGTACAGCTCCTTGTCCAATCACAAAGTATGTCCCTCGGAGGGCAGTGCT
 CTATGTGCCTGGGAATGACGAAAAGAAAATAAGGAAGATCCCATCTTTGAAAGTAGATTGTGCTGTGCTG
 GACTGCGAGGACGGTGTGCGGAAAACAAAAGAAGCAAGCTCGATTGAGAATAGCAAAAACCTTTGAAG
 ACTTTGACCTGGGCACAACGGAAGTGTGTGAGAATCAACTCAGTGTCTAGTGGTCTGGCTGAAGCCGA
 CCTGGAGACATTTCTACAGGCCAGAGTTCTTCTTCTAGTCTGATGCTACCAAAGGTAGAAGGTCCTGAA
 GAAATCCAGTGGTTTTTCAGACAAATTTTCACTCCACTTAAAAGGCCGAAAGCTTGAACAACCAATGAATT
 TAATCCCCTTTGTGGAGACTGCAATGGGTTTGTCAATTTAAGGCAGTGTGTGAAGAAACTAAAGAT
 TGGACCTCAAGTGGTCTTTTCTAGACGAGTCGTTTTTGGAGGAGAAGATTTTCGAGCCAGCATAGGT
 GCAACAAGCAACAAGGACACCCAAGACATCCTCTATGCCCGACAGAAGATTGTCGTCACGGCAAAGGCCCT
 TTGGCCTACAAGCCATAGATCTTGTATACATCGACTTCCGGGATGAAGATGGACTTCTCAGACAGTCTAG
 AGAAGCAGCCGCATGGCTTCACTGGTAAACAGGTGATCCACCCTAACCCAGATTGCCGTGGTACAGGAA
 CAGTTTACTCCAACCCCGAAAAAATTCGGTGGGCTGAAGAGCTGATTGCTGCCTTCAAAGAACCACAGC
 AGTTGGGAAAGGGAGCCTTTACTTTCCAAGGAAGTATGATCGACATGCCATTACTGAAGCAGGCCAGAA
 CATTGTTACGCTTGCCACATCCATCAAGAAAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI
 ACCN: NM_001100685



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Insert Size:	1017 bp
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).
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:	<u>NM_001100685.1</u> , <u>NP_001094155.1</u>
RefSeq Size:	1250 bp
RefSeq ORF:	1017 bp
Locus ID:	306198
UniProt ID:	<u>Q5I0K3</u>
Cytogenetics:	15q25
Gene Summary:	Mitochondrial citramalyl-CoA lyase indirectly involved in the vitamin B12 metabolism. Converts citramalyl-CoA into acetyl-CoA and pyruvate in the C5-dicarboxylate catabolism pathway. The C5-dicarboxylate catabolism pathway is required to detoxify itaconate, a vitamin B12-poisoning metabolite. Also acts as a malate synthase in vitro, converting glyoxylate and acetyl-CoA to malate. 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. Also has very weak citramalate synthase activity in vitro. [UniProtKB/Swiss-Prot Function]