

## Product datasheet for **SC216282**

### Pyruvate Dehydrogenase E2 (DLAT) (NM\_001931) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	Pyruvate Dehydrogenase E2 (DLAT) (NM_001931) Human 3' UTR Clone
Symbol:	Pyruvate Dehydrogenase E2
Synonyms:	DLTA; E2; PBC; PDC-E2; PDCE2
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001931
Insert Size:	1899 bp



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**Insert Sequence:** >SC216282 3'UTR clone of NM\_001931  
 The sequence shown below is from the reference sequence of NM\_001931. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CTTGAAAACCTATCACTATGTTGTTGTAATACTCAAGAAATTTCTAACTCTCCAGGTCACACTGA
TTCATTCTTAACAAGATATTTATATGTTATTAACAGGTGTTCTTTTTATTTAAACCAGTTATTTTAA
TTATTGAGTCTGTCCAGATAAGTTATTTATAATGGGCATTACTGAATTTTTAAAAAGCCGATTACACCC
AAATATTGTGCACATTTAATAATCAGACACCAGATTTTTAGTCTGTACTCCTAATTAAGGGACATGTA
TGTGGCCTTGCCTAGCCCTTTGGTGATAAGTACTTCTCTAGGAAATGTACGATAGGTAGAATTGTGGT
TCCCTAAAGACAAGTACATAAAGGTGACCCTGATGAAACCTTGAAGTTCTGAAATTTAACTGCCTAAAA
TGTTCTCCTTAGATGTGAGAGAAAGAGAAATCAGAAAAATTAATTCTCTGGGGGAAGGGCTTGAATTG
AAGCTTTACTTTAGAATTTAGCCCTGGTTGAAATTTTCCATTACATGATCTTGGTTTATCATCGATGG
GAAGGGTAGAAAACTTCAAGGAAAAAAGTGAATTTTAAAAAGTACGATTTTCTTAGACCTCTTACGC
TGATTGTTATTTTTCTATGAATTCCTACACATGGTTATTCCTCCCTACTTGAGATAATCTAAATATAA
ACCAGCTACTTGATGTAAGTGAATTTGTGTGGATATTTATTTAAACAAATGTGTAATTTTGTGATACA
GAATTCACAGTTACCTCCAAAAAGAAACATTGTTAATAAATTTAACAGAAGTTGTGAACTAAAAAT
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AGATATGTGCCAAAGTCCATTTATCCCAATCCTGTCTGAAAAGGAGGGGTACATTGGTAAACATTTTG
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TTGGAGAGAAAAATTAAGTGGTGTACTTTATTTGCCTAAACTTTTTTCTATTTTGTGATTTT
TGCCCTTTCTTTTGAAGGAAGGAGGCGATATTCTGGATTAAAAAATGAATTGGGAACATTATCACAAT
TCCAGACTTTCTATTAATATTTATGTGTTTAAATAACGTTTGAATTTATTTATGACTACTTAAAAATGA
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GTGTTGAATCTGTTTCTAAATATTCATTATTACATGGTACACAAGTGACACTCCATATATCCACACAG
ACTTTTACCTTGCTGATTATTATGAAAAACAATACATTAATTTGATTTTTTCAGTAATTAGTAATTTTAG
GTTGAAGATTATCCAAAAGAAACAAGCTTATCACAAGGGACCATCATCAATATGATCCAAATCTGGTTC
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AAATAAAAAACAGTTGCCTTCTAATAAACATTGTTGAGTTAAAAATTAATCTGAGCTATAATCTAAATCG
ATTCAGTCTTTACCAGAACTGAAAGAAAAAAGTTAGAAATAGTGTTTTTGGTTCATATGATTATTTAA
AAATTAAGTATAAATCTTCAATATGTCTGGTTTAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_001931.5](#)

**Summary:**

This gene encodes component E2 of the multi-enzyme pyruvate dehydrogenase complex (PDC). PDC resides in the inner mitochondrial membrane and catalyzes the conversion of pyruvate to acetyl coenzyme A. The protein product of this gene, dihydrolipoamide acetyltransferase, accepts acetyl groups formed by the oxidative decarboxylation of pyruvate and transfers them to coenzyme A. Dihydrolipoamide acetyltransferase is the antigen for antimitochondrial antibodies. These autoantibodies are present in nearly 95% of patients with the autoimmune liver disease primary biliary cirrhosis (PBC). In PBC, activated T lymphocytes attack and destroy epithelial cells in the bile duct where this protein is abnormally distributed and overexpressed. PBC eventually leads to cirrhosis and liver failure. Mutations in this gene are also a cause of pyruvate dehydrogenase E2 deficiency which causes primary lactic acidosis in infancy and early childhood.[provided by RefSeq, Oct 2009]

**Locus ID:**

1737

**MW:**

74.7