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 SC118954

DLST (NM_001933) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLST (NM_001933) Human Untagged Clone
Tag:	Tag Free
Symbol:	DLST
Synonyms:	DLTS; KGD2; PGL7
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC118954 sequence for NM_001933 edited (data generated by NextGen Sequencing)

ATGCTGTCCCGATCCCGCTGTGTGTCTCGGGCGTTCAGCCGCTCGCTCTCCGCCTTCCAG
AAGGGGAACTGCCCTCTAGGGAGACGTTCCCTGCCTGGGGTCTCCTTATGCCAGGGACCA
GGTTACCCTAACAGCAGGAAGGTTGTCATTAACAACAGTGTCTTCAGTGTTCGCTTTTTC
AGAACTACAGCTGTATGCAAGGATGACTTGGTTACAGTCAAAACCCCAGCGTTTGCAGAA
TCTGTCACAGAGGGAGATGTCAGGTGGGAGAAAGCTGTTGGAGACACAGTTGCAGAAGAT
GAAGTGGTTTGTGAGATTGAAACTGACAAGACATCTGTGCAGGTTCCATCACCAGCAAAT
GGCGTGATTGAAGCTCTTTTGGTACCTGATGGGGGAAAAGTCGAAGGAGGCACTCCACTT
TTCACACTCAGGAAAACTGGTGCTGCTCCTGCTAAGGCCAAGCCGGCTGAAGCTCCTGCT
GCTGCAGCCCCAAAAGCAGAACCTACAGCAGCGGCAGTTCCTCCCCCTGCAGCACCCATA
CCCACTCAGATGCCACCGGTGCCCTCGCCCTCACAACCTCCTTCTGGCAAACCTGTGTCT
GCAGTAAAACCCACTGTTGCCCCACCACTAGCTGAGCCAGGAGCTGGCAAAGGTCTGCGT
TCAGAACATCGGGAGAAAATGAACAGGATGCGGCAGCGCATTGCTCAGCGTCTGAAGGAG
GCCCAGAATACATGTGCAATGCTGACAACTTTTAATGAGATTGACATGAGTAACATCCAG
GAGATGAGGGCTCGGCACAAAGAGGCTTTTTTGAAGAAACATAACCTCAAACTAGGCTTC
ATGTCGGCATTTGTGAAGGCCTCAGCCTTTGCCTTGCAGGAACAGCCTGTTGTAAATGCA
GTGATTGACGACACAACCAAAGAGGTGGTGTATAGGGATTATATTGACATCAGTGTTGCA
GTGGCCACCCCACGGGGTCTGGTGGTTCCAGTCATCAGGAATGTGGAAGCTATGAATTTT
GCAGATATTGAACGGACCATCACTGAACTGGGAGAGAAGGCCCGAAAGAATGAACTTGCC
ATTGAAGATATGGATGGTGGTACCTTCACCATTAGCAATGGAGGCGTTTTTGGCTCGCTC
TTTGGAACACCCATTATCAACCCCCCTCAGTCTGCCATCCTGGGGATGCATGGCATCTTT
GACAGGCCAGTGGCTATAGGAGGCAAGGTAGAGGTGCGGCCCATGATGTACGTGGCACTG
ACCTATGATCACCGGCTGATTGATGGCAGAGAGGCTGTGACTTTCCTCCGCAAAATCAAG
GCAGCGGTAGAGGATCCCAGAGTCCTCCTCCTGGATCTTTAG

Clone variation with respect to NM_001933.4
576 g=>a;1098 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001933 unedited

AGTATTTTGTAATACGACTCACTATAGGGCGGCCCGCGATTCGGCACGAGGGCCCGCCCT
CGGCTCCTCCGCCGTGATGCTGTCCCGATCCCGCTGTGTGTCTCGGGCGTTCAGCCGCTC
GCTCTCCGCCTTCCAGAAGGGGAACTGCCCTCTAGGGAGACGTTCCCTGCCTGGGGTCTC
CTTATGCCAGGGACCAGGTTACCCTAACAGCAGGAAGGTTGTCATTAACAACAGTGTCTT
CAGTGTTCGCTTTTTCAGAACTACAGCTGTATGCAAGGATGACTTGGTTACAGTCAAAAC
CCCAGCGTTTGCAGAATCTGTCACAGAGGGAGATGTCAGGTGGGAGAAAGCTGTTGGAGA
CACAGTTGCAGAAGATGAAGTGGTTTGTGAGATTGAAACTGACAAGACATCTGTGCAGGT
TCCATCACCAGCAAATGGCGTGATTGAAGCTCTTTTGGTACCTGATGGGGGAAAAGTCGA
AGGAGGCACTCCACTTTTCACACTCAGGAAAACTGGTGCTGCTCCTGCTAAGGCCAAGCC
GGCTGAAGCTCCTGCTGCTGCAGCCCCAAAAGCAGAACCTACAGCAGCGGCAGTTCCTCC
CCCTGCAGCACCCATACCCACTCAGATGCCACCGGTGCCCTCGCCCTCACAACCTNCTTC
TGGCAAACCTGTGTCTGCAGTAAAACCCACTGTTGCCCCACCACTAGCTGAGCCAGGAGC
TGGCAAGGTCTGCGTTCAGACATCGGGAGAAAAGAACAGATGCGGCAGCGCATTGCTCAC
CGTCTGAAGGAGGCCCAGATACATGTGCAATGCTGACACCTTTTATGAAGATGACATGAG
TAACATCCAGAAGATGAGGGCTCGGCACAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001933 unedited
GCTATGCACCGGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGAGAAATCT
GCCCTTTAATTTGCATTTAAAATCAGTTTCTTTAAATACTTTAGTTACAAGTTCTGAATA
GTGAAGACAGAGTAGTAGATGCTGCAGGCACTCAGTATTGGCTCCCACCCCTTCCCCCCT
CCCCCACCCCCAGGCCTCACTTCTTGGCTTAAGATACAAAAGGGCACTCTCTACTGGCCC
TGGTGTCAAACGTCAGCAGCCTCAGGCCTGGATGCAGTTGGATACAAAGCCATGAATCCC
AGTGGCTCCAAGGAATTCCAATGATTGTGCCCAGATCCACGGGCAACACACCTTAGAAAT
GACCTCATCCGTTTCACCACTAGGTACTAACACCCTCAGGGTGGTTTCCTACCCCAGTCC
ACGTCCTCCAGATCTGTGTTCTGCACAGGAAGAGACAAGGCCCCGTTATAACGCACGAAG
GAACAAACCCTGCCCCCTCATCCCCGCTGCTTCCCGCTACCTCAACTGCACACCCCAAGG
CACTGCGACGCCACTCTAGACGGCACCCCCCCTCCCCCATTCCCCACCCCCCTTTTGCCC
CCTTTCTGGACATCCTCTCGCCCCCCCGCCCTCATTCGCTCCACACCCCCCTTTCCATCA
ATCGGCCCCACCGAGGCCCACCCTCTCTTTTGGGCTCTCTACGGCCCTTCCCCCCCCTCA
CCGCCACCGCAGTCCCCTTGTTTATTCTTCGTTTCCCCCCCCATTATCCCCCCCTTCCCC
TCCTCCCCACCTTTTCCCTCCCCCCACTCCTTTCCCCCCCGCCCCCATTTTTCTTCCCAC
TATTCCCGCCCCCGTCCCCCCCTATTTTCCTCCCTTTTCCACGCCCCCCCTGCTCTTCAC
TCTCTCCCTTCTTCTTCGTCCCTCCCCCCCACGTTTATCCCCCCCCACCTCCCTTTTCCCCC
CCTCTCCTTCAGCCCTTCTCTT

Restriction Sites: NotI-NotI

ACCN: NM_001933

Insert Size: 3000 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:
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_001933.3, NP_001924.2

RefSeq Size: 2828 bp

RefSeq ORF: 1362 bp

Locus ID: 1743

UniProt ID: P36957

Cytogenetics: 14q24.3

Domains: biotin_lipoyl, 2-oxoacid_dh

Protein Pathways:	Citrate cycle (TCA cycle), Lysine degradation, Metabolic pathways
Gene Summary:	This gene encodes a mitochondrial protein that belongs to the 2-oxoacid dehydrogenase family. This protein is one of the three components (the E2 component) of the 2-oxoglutarate dehydrogenase complex that catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO(2). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2011] Transcript Variant: This variant (1) represents the predominant transcript, and encodes the longer isoform (1).