

Product datasheet for **RN214067**

Dlst (NM_001006981) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dlst (NM_001006981) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dlst
Synonyms:	MGC95077
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN214067 representing NM_001006981
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTCCCGGTCCCGTCCGTCGCTGTCCCGGGCTTCAGCCGCTCGCTTTCTGCCTCCAGAAGGGAACT
 GCCCTCTAGGGAGACGTTCCCTGCCTGGGTCTCCTTATGTCAGGGACCAGGTTACCCTGACAGCAGGAA
 GATGGTCATTAACAACAGTAGCGTCTTCAGTGTCGCTTCTCCAAACCAGGCAGTGTGAAGAATGAT
 GTGATTACAGTCCAGACCCAGCGTTTGCAGAGCTGTACAGAGGGAGATGTCAGGTGGGAGAAAGCTG
 TTGGAGATGCAGTTGCAGAAGTGAAGTGGTGTGTGAGATTGAGACAGACAAGACTTCTGTGCAGTTCC
 ATCACCAGCAAATGGCATCATTGAAGCTCTTTGGTACCCGATGGGGCAAAGTTGAAGGAGAACTCCT
 CTATTCACACTCAGGAAAACCGGTGCTGCTCCTGCTAAGGCCAAACCAGCTGAAGCCCCTGCTACAGCCC
 ACAAGCAGCGCCTGAAGCACCGGGCCCTCCTCCTCTGTAGCACCAGTGCCCACTCAGATGCCACC
 TGTGCCCTCACCTCACAACTCCTTCTAGCAAACAGTGTCTGCAATAAAACCCACTGCTGCCCTCCA
 CTGGCTGAGGCGGGAGCTGCTAAAGGCCTGCGCTCAGAACATCGGAAAAAGATGAACAGGATGCGGCAGC
 GCATCGCCACGCTCTGAAGGAAGCCAGAACACCTGCGCAATGCTGACGACGTTCAATGAGTTGACAT
 GAGTAACATACAAGAGATGAGAGCTCGGCACAAAGATGCTTTCCTGAAAAACATAACCTGAAATTAGGC
 TTCATGTGCGCATTTGTGAAGGCCTCAGCATTGCGCTTGCAAGGAGCAGCCTGTAGTAAACGCAAGTATTG
 ATGACGCAACCAAGGAGTGGTGTACAGAGATTATTTGACATCAGTGTGCGAGTTGCTACCCCAAGGGG
 TCTCGTGGTTCCTGTATCAGGAATGTGAAACTATGAATTATGCAGATATTGAACGGACCATTAAATGAA
 CTAGGAGAGAAGGCCCGAAGAATGAACCTGCCATCGAAGACATGGATGGGGCACCTTCACCATCAGCA
 ATGGAGGAGTTTTCGGCTCACTTTTCGGAACCCATTATCAACCCGCTCAGTCTGCCATTCTGGGCAT
 GCATGGCATCTTCGACAGGCTGTGGCTGTGGGGCAAGGTGGAAGTCCGACCTATGATGTATGTAGCC
 CTGACCTACGACCACCGCTGATTGATGGCAGAGAGGCTGTGACTTTCCTCCGAAAAATCAAGGCAGCAG
 TAGAAGATCCACGAGTCTCCTCTAGACCTTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001006981

Insert Size: 1365 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_001006981.2](#), [NP_001006982.2](#)

RefSeq Size: 2797 bp

RefSeq ORF: 1365 bp

Locus ID: 299201

UniProt ID: [Q01205](#)

Cytogenetics: 6q31

Gene Summary: Dihydrolipoamide succinyltransferase (E2) component of the 2-oxoglutarate dehydrogenase complex (By similarity). The 2-oxoglutarate dehydrogenase complex catalyzes the overall conversion of 2-oxoglutarate to succinyl-CoA and CO(2) (By similarity). The 2-oxoglutarate dehydrogenase complex is mainly active in the mitochondrion. A fraction of the 2-oxoglutarate dehydrogenase complex also localizes in the nucleus and is required for lysine succinylation of histones; associates with KAT2A on chromatin and provides succinyl-CoA to histone succinyltransferase KAT2A (By similarity).[UniProtKB/Swiss-Prot Function]