

Product datasheet for **RR214067**

Dlst (NM_001006981) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR214067 representing NM_001006981
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGTCCCGGTCCCGTCCGTCGTGTCCCGGGCTTCAGCCGCTCGCTTTCTGCCTCCAGAAGGGGAAC
 GCCTCTAGGGAGACGTTCCCTGCCTGGGTCTCCTTATGTCAGGGACCAGGTTACCCTGACAGCAGGAA
 GATGGTCATTAACAACAGTAGCGTCTTCAGTGTTCGCTTCTTCCAAACCAGGCAGTGTGCAAGAATGAT
 GTGATTACAGTCCAGACCCAGCGTTTGCAGAGCTGTACAGAGGGAGATGTCAGGTGGGAGAAAGCTG
 TTGGAGATGCAGTTGCAGAAGATGAAGTGGTGTGTGAGATTGAGACAGACAAGACTTCTGTGCAGTTCC
 ATCACCAGCAAATGGCATCATTGAAGCTCTTTGGTACCCGATGGGGCAAAGTTGAAGGAGGAACCTCT
 CTATTCACACTCAGAAAACCGGTGCTGCTCCTGCTAAGGCCAAACCAGCTGAAGCCCTGCTACAGCCC
 ACAAGCAGCGCCTGAAGCACCAGCGGCCCTCCTCCTCTGTAGCACCAGTGCCACTCAGATGCCACC
 TGTGCCCTCACCTCACAACTCCTTCTAGCAAACAGTGTCTGCAATAAAACCCACTGCTGCCCTCCA
 CTGGCTGAGGCGGAGCTGCTAAAGGCCTGCGCTCAGAACATCGGAAAAAGATGAACAGGATGCGGCAGC
 GCATCGCCACGCTCTGAAGGAAGCCAGAACACCTGCGCAATGCTGACGACGTTCAATGAGGTTGACAT
 GAGTAACATACAAGAGATGAGAGCTCGGCACAAAGATGCTTTCCTGAAAAACATAACCTGAAATTAGGC
 TTCATGTGCGCATTTGTGAAGGCCTCAGCATTGCGCTTGCAAGGAGCAGCCTGTAGTAAACGAGTGATTG
 ATGACGCAACCAAGGAGTGGTGTACAGAGATTATTTGACATCAGTGTGCGAGTTGCTACCCCAAGGGG
 TCTCGTGGTTCCTGTATCAGGAATGTGAAACTATGAATTATGCAGATATTGAACGGACCATAATGAA
 CTAGGAGAGAAGGCCGGAAGAATGAACCTGCCATCGAAGACATGGATGGGGCACCTTCACCATCAGCA
 ATGGAGGAGTTTTCGGCTCACTTTTCGGAACACCATTATCAACCCGCTCAGTCTGCCCTTCTGGGCAT
 GCATGGCATCTTCGACAGCGCTGTGGCTGTGGGGGCAAGGTGGAAGTCCGACCTATGATGTATGTAGCC
 CTGACCTACGACCACCGCTGATTGATGCGAGAGGCTGTGACTTTCCTCCGAAAAATCAAGGCAGCAG
 TAGAAGATCCACGAGTCTCCTCTAGACCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214067 representing NM_001006981
 Red=Cloning site Green=Tags(s)

MLSRRCVSRFASRSLSAFQKGNCLGRRSLPGVSLCQGPYPDSRKMVINSSVFSVRRFFQTTAVCKND
 VITVQTPAFAESVTEGDVRWEKAVGDVAEDEVVCEIETDKTSVQVPSANGIIEALLVPDGGKVEGGTP
 LFTLRKTGAAPAKAKPAEAPATAHKAPEAPAAPPPVAPVPTQMPVPSPSQPPSSKPVSAIKPTAAPP
 LAEAGAAKGLRSEHREKMNMRQRQAQLKEAQNTCAMLTTFNEVDMSNIQEMRARHKDAFLKKNLKLK
 FMSAFVKASAFALQEQPVVNAVIDDATKEVVYRDYIDISVAVATPRGLVVPVIRNVETMNYADIERTINE
 LGEKARKNELAIEDMDGGTFTISNGGVFGLFGTPIINPPQSAILGMHGIFDRPVAVGGKVEVRPMMYVA
 LTYDHRLIDGREAVTFLRKIKAAVEDPRVLLLDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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

MW: 48.9 kDa

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]