

## Product datasheet for **MG207251**

### **Dlst (NM\_030225) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dlst (NM_030225) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dlst
Synonyms:	1600017E01Rik; 4632413C10Rik; 4930529O08Rik; DLTS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207251 representing NM\_030225  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGTCCCGGTCACGCTGCGTGTCCCGGGCGTTCAGCCGCTCGCTTTCTGCCTCCAGAAGGGGAAC  
 GCCCTCTAGGGAGACGTTCCCTGCCTGGGTCTCCTTATGTGGGGACCAGGTTACCCTGACAACAGGAA  
 GATGGTCATTAACAGTGGTAGCGTCTTCAGGGTTCGCTTCTCCAAACCAGCGCTGTGTGCAAGAATGAT  
 GTGATAACAGTCCAAACCCAGCGTTTGCAGAGCTGTGCACAGAGGGAGATGTCAGGTGGGAGAAAGCTG  
 TTGGAGATGCGGTTGCAGAAGATGAAGTGGTGTGTGAGATTGAGACAGACAAGACTTCTGTGCAGGTTCC  
 GTCGCCAGCAAATGGCATCATTGAAGCTCTTTGGTACCCGATGGGGCAAAGTTGAAGGAGGAACCTCT  
 CTGTTCACTCAGGAAACTGGTGTCTCTGCTAAGGCCAAACCAGCTGAAACTCTGCTCCAGCCC  
 ACAAGCAGAGCCCGCAGCACCGGGCGCCCTCCTCCCCCGCAGCACCTGTGCTCACTCAGATGCCACC  
 AGTGCCCTCACCTCACGCCTCTTCTAGCAAACAGTGTCTGCAATAAAACCCACTGCTGCCCTCCA  
 CTGGCTGAGGCAGGAGCTGCTAAAGGTCTGCGTTCAGAACATCGGGAGAAAATGAACAGGATGCGGCAGC  
 GCATCGCCACGCTCTGAAGGAAGCCCAGAACAGTGTGCAATGCTGACGACTTCAATGAGGTTGACAT  
 GAGTAACATACAAGAGATGAGAGCTCGGCACAAGGATGCTTTCCTGAAAAACATAACCTCAAATTAGGC  
 TTCATGTCAGCATTTGTGAAGGCTCGGCGTTCGCTTGCAGGAGCAGCCTGTTGTAATGCAGTGATTG  
 ATGATGCAACCAAGGAAGTGGTGTATAGAGATTATTTGACATCAGTGTGCAAGTTGCTACCCCGAGGGG  
 TCTCGTGGTTCCTGTATCAGGAATGTGAAACTATGAACTATGCAGATATTGAACGGACCATAATGAA  
 CTAGGAGAGAAGGCCCGAAGAATGAACCTGCCATTGAAGATATGGATGGTGGTACCTTCACCATCAGCA  
 ACGGAGGAGTTTTGGCTCACTTTTTGGAACACCCATTATCAACCCCTCAATCTGCCATCCTGGGCAT  
 GCACGCCATCTTTGACAGGCTGTGGCTGTGGGAGGCAAGGTGGAAGTTCGACCTATGATGTATGTAGCC  
 CTGACCTATGACCACCGCTGATTGATGGCAGAGAGGCTGTGACTTTCCTCCGAAAAATCAAGGCAGCAG  
 TAGAAGATCCAAGAGTCTCTCTAGACCTT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG207251 representing NM\_030225  
 Red=Cloning site Green=Tags(s)

MLSRSRCVSRFASRSLSAFQKGNCPGRRSLPGVSLCRGPGYPDNRMVINSVFRVRFQTTAVCKND  
 VITVQTPAFAESVTEGDVRWEKAVGDAVAEDEVVCEIETDKTSVQVPSANGIIEALLVPDGGKVEGGTP  
 LFTLRKTGAAPAKAKPAETPAPAHKAEPAAAPPPPAAPVLTQMPPVSPSPQPPSSKPVSAIKPTAAPP  
 LAEAGAALKLRSEHREKMNMRQRIAQRLKEAQNTCAMLTTFNEVDMSNIQEMRARHKDAFLKKNLKLK  
 FMSAFVKASAFALQEQPVVNAVIDDATKEVVYRDYIDISVAVATPRGLVVPVIRNVETMNYADIERTINE  
 LGKARKNELAIEDMDGGTFTISNGGVFGLFGTPIINPPQSAILGMHAIFDRPVAVGGKVEVRPMMYVA  
 LTYDHRLIDGREAVTFLRKIKAAVEDPRVLLLDL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_030225

**ORF Size:** 1362 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_030225.4](#), [NP\\_084501.1](#)

**RefSeq Size:** 2767 bp

**RefSeq ORF:** 1365 bp

**Locus ID:** 78920

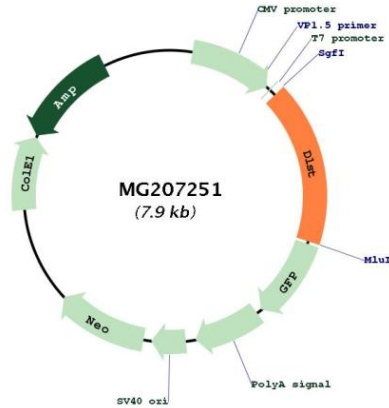
**UniProt ID:** [Q9D2G2](#)

**Cytogenetics:** 12 D1

**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]

**Product images:**



Circular map for MG207251