

## Product datasheet for **RG231932**

### DLST (NM\_001244883) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DLST (NM\_001244883) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DLST  
**Synonyms:** DLTS; KGD2; PGL7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG231932 representing NM\_001244883  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGTCCCGATCCCGCTGTGTGTCTCGGGCGTTCAGCCGCTCGCTCTCCGCCTCCAGAAGGGGAAC  
GCCCTAGGGAGACGTTCCCTGCCTGGGGTCTCCTTATGCCAGGGACCAGGTTACCTAACAGCAGGAA  
GGTTGTCATTAACAACAGTGTCTTCAGTGTTCGCTTTTTCAGAACTACAGCTGTATGCAAGGATGACTTG  
GTTACAGTCAAAACCCAGCGTTTGCAGAACTGTGCAGAGGGAGATGTCAGGTGGGAGAAAGCTGTTG  
GAGACACAGTTGCAGAAGATGAAGTGGTTGTGAGATTGAACTGACAAGACATCTGTGCAGTTCCATC  
ACCAGCAAATGGCGTGATTGAAGCTCTTTTGGTACCTGATGGGGGAAAAGTCAAGGAGGCACTCCACTT  
TTCACACTCAGGAAAAGTGGTGGTAAAGAAGTTCTCCTGGTGGTCAAGGTCTCCAGTGTTCCTCTTGGG  
ATTGGGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG231932 representing NM\_001244883  
Red=Cloning site Green=Tags(s)

MLSRRCVSRFASRSLSAFQKGNCP LGRSLPGVSLCQGPYPNSRKVVINNSVFSVRFRTTAVCKDDL  
VTYKTPAFAESVTEGDVRWEKAVGDTVAEDEVCEIETDKTTSVQVSPANGVIEALLVPDGGKVEGGTPL  
FTLRKTGGKEVLLVVKVSSVPSWDWD

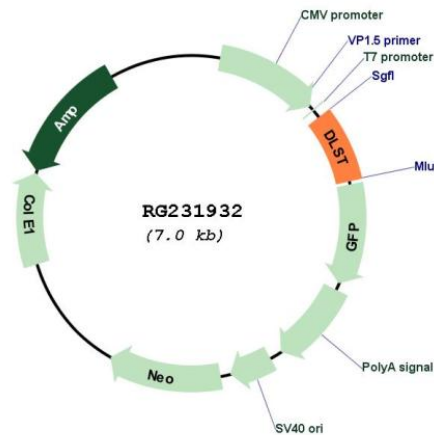
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001244883

**ORF Size:** 498 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001244883.2</u>
<b>RefSeq Size:</b>	1229 bp
<b>RefSeq ORF:</b>	501 bp
<b>Locus ID:</b>	1743
<b>Cytogenetics:</b>	14q24.3
<b>Protein Pathways:</b>	Citrate cycle (TCA cycle), Lysine degradation, Metabolic pathways
<b>Gene Summary:</b>	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 <sub>2</sub> . Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2011]