

Product datasheet for **RG201220**

DLST (NM_001933) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLST (NM_001933) 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)



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ORF Nucleotide Sequence:

>RG201220 representing NM_001933
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGTCCCGATCCCGCTGTGTCTCGGGCGTTCAGCCGCTCGCTCTCCGCCTCCAGAAGGGGAAC
 GCCCTTAGGGAGACGTTCCCTGCCTGGGGTCTCCTTATGCCAGGACCAGGTTACCCTAACAGCAGGAA
 GGTGTGATTAACAACAGTGTCTTCAGTGTTCGCTTTTTCAGAACTACAGCTGTATGCAAGGATGACTTG
 GTTACAGTCAAAACCCAGCGTTTGAGAATCTGTACAGAGGGAGATGTCAGGTGGGAGAAAGCTGTTG
 GAGACACAGTTGCAGAAGATGAAGTGGTTTGTGAGATTGAACTGACAAGACATCTGTGCAGGTTCCATC
 ACCAGCAAATGGCGTGATTGAAGCTCTTTTGGTACCTGATGGGGAAAAGTCGAAGGAGGCACTCCACTT
 TTCACACTCAGGAAAACCTGGTGTCTCCTGCTAAGGCCAAGCCGGCTGAAGCTCCTGCTGCTGCAGCCC
 CAAAAGCAGAACCTACAGCAGCGGCAGTTCCTCCCCTGCAGCACCCATACCCACTCAGATGCCACCGGT
 GCCCTCGCCCTACAACCTCCTTCTGGCAAACCTGTGTCTGCAGTAAAACCCACTGTTGCCCCACCTA
 GCTGAGCCAGGAGCTGGCAAAGGCTGCGTTCAGAACATCGGGAGAAAATGAACAGGATGCGGCAGCGCA
 TTGCTCAGCGTCTGAAGGAGGCCAGAATACATGTGCAATGCTGCAACTTTAATGAGATTGACATGAG
 TAACATCCAGGAGATGAGGGCTCGGCACAAAGAGGCTTTTTTGAAGAAACATAACCTCAAAGTGGCTTC
 ATGTCGGCATTGTGAAGGCCTCAGCCTTTGCCTTGCAAGAACAGCCTGTTGTAATGCAGTGATTGACG
 ACACAACCAAAGAGGTGGTGTATAGGGATTATATTGACATCAGTGTGCAGTGGCCACCCACGGGGTCT
 GGTGGTTCCAGTCATCAGGAATGTGAAGCTATGAATTTGCAGATATTGAACGGACCATCACTGAAGT
 GGAGAGAAGGCCCGAAAGAATGAACTTGCCATTGAAGATATGGATGGCGGTACCTTACCATTAGCAATG
 GAGGCGTTTTTGGCTCGCTCTTTGGAACACCCATTATCAACCCCTCAGTCTGCCATCCTGGGGATGCA
 TGGCATCTTTGACAGGCCAGTGGCTATAGGAGCAAGGTAGAGGTGCGGCCCATGATGTACGTGGCACTG
 ACCTATGATCACCGGCTGATTGATGGCAGAGAGGCTGTGACTTTCCTCCGCAAAATCAAGGCAGCGGTAG
 AGGATCCAGAGTCTCCTCCTGGATCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG201220 representing NM_001933
 Red=Cloning site Green=Tags(s)

MLSRSRCVSRFASRSLSAFQKGNCPGRRSLPGVSLCQGGPGYPNSRKVVINNSVFSVRFRTTAVCKDDL
 VTVKTPAFAESVTEGDVRWEKAVGDTVAEDEVVCEIETDKTSVQVPSANGVIEALLVPDGGKVEGGTPL
 FTLRKTGAAPAKAKPAEAPAAAAPKAEPATAAVPPPAAPIPTQMPVPSPSPQPPSGKPVSAVKPTVAPPL
 AEPGAGKGLRSEHREKMNMRQRQAQRLKEAQNTCAMLTFNEIDMSNIQEMRARHKEAFLKKNLKLGF
 MSAFVKASAFALQEPPVNAVIDDTTKEVYRDYIDISVAVATPRGLVVPVIRNVEAMNFADIERTITEL
 GEKARKNELAIEDMDGGFTISNGGVFGLFGTPIINPPQSAILGMHGIFDRPVAIGGKVEVRPMMYVAL
 TYDHRLLIDGREAVTFLRKIKAAVEDPRVLLLDL

TRTRPLE - GFP Tag - V

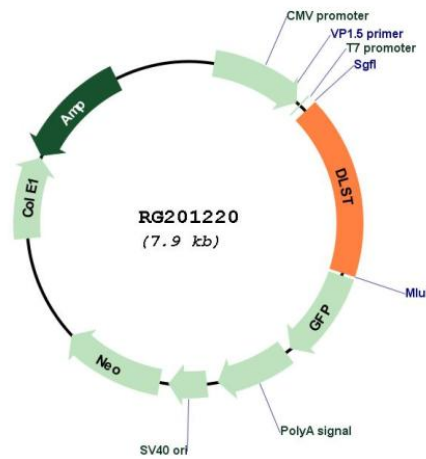
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001933

ORF Size: 1359 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:	<ol style="list-style-type: none">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_001933.2
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]