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Product datasheet for RC210424

LZTS1 (NM_021020) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LZTS1 (NM_021020) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LZTS1
Synonyms:	F37; FEZ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

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ORF Nucleotide Sequence:

>RC210424 representing NM_021020
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCAGCGTCAGTAGCCTCATCTCCGGCCACAGCTTCCACAGCAAGCACTGCCGGGCTTCGCAGTACA
AGCTGCGCAAGTCCTCCCACCTCAAGAAGCTCAACCGGTATTCCGACGGGCTGCTGAGGTTTGGCTTCTC
CCAGGACTCCGGTCACGGCAAGTCCAGCTCCAAAATGGGCAAGAGCGAAGACTTCTTCTACATCAAGGTC
AGCCAGAAAGCCCGGGGCTCCCATCACCCAGATTACACGGCACTGTCCAGCGGGGATTTAGGGGGCCAGG
CTGGGGTGGACTTTGACCCGTCCACACCCCCCAAGCTCATGCCCTTCTCCAATCAGCTAGAAATGGGCTC
CGAGAAGGGTGCAGTGAGGCCCACAGCCTTCAAGCCTGTGCTGCCACGGTCAGGAGCCATCCTGCACTCC
TCCCCGGAGAGTGCCAGCCACCAGCTGCACCCCGCCCCTCCAGACAAGCCCAAGGAGCAGGAGCTGAAGC
CTGGCCTGTGCTCTGGGGCGCTGTCAGACTCCGGCCGGAACTCCATGTCCAGCCTGCCCACACACAGCAC
CAGCAGCAGCTACCAGCTGGACCCGCTGGTCACACCCGTGGGACCCACAAGCCGTTTTGGGGGCTCCGCC
CACAACATCACCCAGGGCATCGTCCTCCAGGACAGCAACATGATGAGCCTGAAGGCTCTGTCCTTCTCCG
ACGGAGGTAGCAAGCTGGGCCACTCGAACAAGGCAGACAAGGGCCCCTCGTGTGTCCGCTCCCCCATCTC
CACGGACGAGTGCAGCATCCAGGAGCTGGAGCAGAAGCTGTTGGAGAGGGAGGGCGCCCTCCAGAAGCTG
CAGCGCAGCTTTGAGGAGAAGGAGCTTGCCTCCAGCCTGGCCTACGAGGAGCGGCCGCGGCGCTGCAGGG
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AGCCTCATGAAGGAGCAGGACCTGCTGGAGACCAAGCTCAGGTCCTACGAGAGGGAGAAGACCAGCTTCG
GCCCCGCGCTGGAGGAGACCCAGTGGGAGGTGTGCCAGAAGTCAGGCGAGATCTCCCTCCTGAAGCAGCA
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GCCTGGAGCTGGAGGTCTGTGAGAATGAGCTGCAGCGCAAGAAGAACGAGGCGGAGCTGCTGCGGGAGAA
GGTGAACCTGCTGGAGCAGGAGCTGCAGGAGCTGCGGGCCCAGGCCGCCCTGGCCCGCGACATGGGGCCG
CCCACCTTCCCCGAGGACGTCCCTGCCCTGCAGCGGGAGCTGGAGCGGCTGCGGGCCGAGCTGCGGGAGG
AGCGGCAAGGCCATGACCAGATGTCCTCGGGCTTCCAGCATGAGCGGCTCGTGTGGAAGGAGGAGAAGGA
GAAGGTGATTCAGTACCAGAAACAGCTGCAGCAGAGCTACGTGGCCATGTACCAGCGGAACCAGCGCCTG
GAGAAGGCCCTGCAGCAGCTGGCACGTGGGGACAGCGCCGGGGAGCCCTTGGAGGTTGACCTGGAAGGGG
CTGACATCCCCTACGAGGACATCATAGCCACTGAGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC210424 representing NM_021020
Red=Cloning site Green=Tags(s)

MGSVSSLISGHSFHSKHCRASQYKLRKSSHLKKLNRYSDGLLRFGFSQDSGHGKSSSKMGKSEDFFYIKV
SQKARGSHHPDYTALSSGDLGGQAGVDFDPSTPPKLMPFSNQLEMGSEKGAVRPTAFKPVLPRSGAILHS
SPESASHQLHPAPPDKPKEQELKPGLCSGALSDSGRNSMSSLPTHSTSSSYQLDPLVTPVGPTSRFGGSA
HNITQGIVLQDSNMMSLKALSFSDGGSKLGHSNKADKGPSCVRSPISTDECSIQELEQKLLEREGALQKL
QRSFEEKELASSLAYEERPRRCRDELEGPEPKGGNKLKQASQKSQRAQQVLHLQVLQLQQEKRQLRQELE
SLMKEQDLLETKLRSYEREKTSFGPALEETQWEVCQKSGEISLLKQQLKESQTEVNAKASEILGLKAQLK
DTRGKLEGLELRTQDLEGALRTKGLELEVCENELQRKKNEAELLREKVNLLEQELQELRAQAALARDMGP
PTFPEDVPALQRELERLRAELREERQGHDQMSSGFQHERLVWKEEKEKVIQYQKQLQQSYVAMYQRNQRL
EKALQQLARGDSAGEPLEVDLEGADIPYEDIIATEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2817_f05.zip

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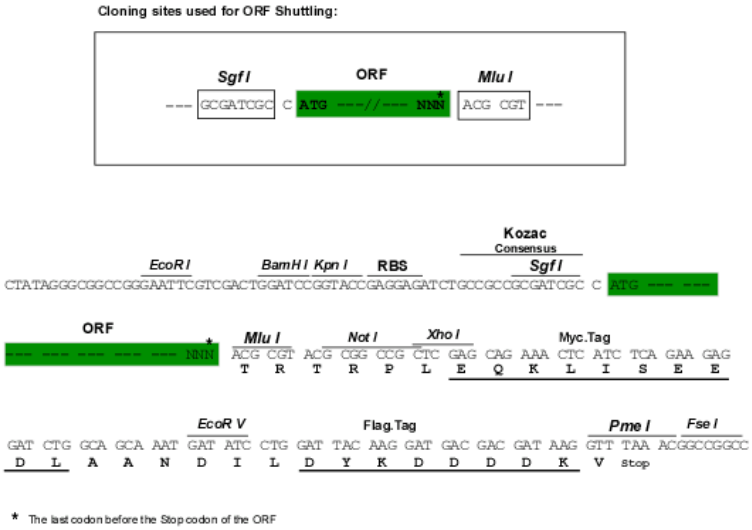
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021020

ORF Size: 1788 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_021020.5

RefSeq Size: 5492 bp

RefSeq ORF: 1791 bp

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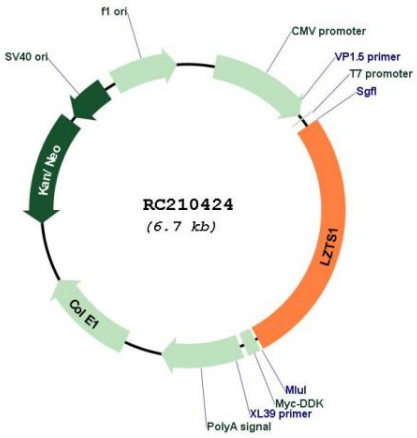
Locus ID:	11178
UniProt ID:	Q9Y250
Cytogenetics:	8p21.3
Protein Families:	Druggable Genome
MW:	66.4 kDa
Gene Summary:	This gene encodes a tumor suppressor protein that is ubiquitously expressed in normal tissues. In uveal melanomas, expression of this protein is silenced in rapidly metastasizing and metastatic tumor cells but has normal expression in slowly metastasizing or nonmetastasizing tumor cells. This protein may have a role in cell-cycle control by interacting with the Cdk1/cyclinB1 complex. This gene is located on chromosomal region 8p22. Loss of heterozygosity (LOH) in the 8p arm is a common characteristic of many types of cancer. [provided by RefSeq, Nov 2009]

Product images:



Circular map for RC210424

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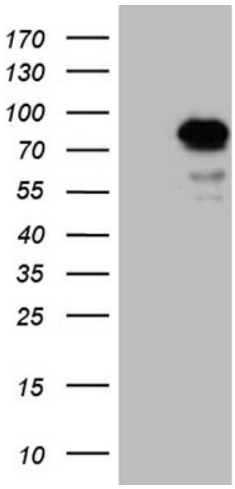
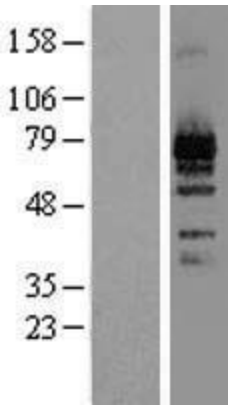


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY LZTS1 (Cat# RC210424, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-LZTS1 (Cat# [TA810241])(1:2000). Positive lysates [LY412145] (100ug) and [LC412145] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY412145]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210424 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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