

Product datasheet for **RG200824**

LZTS2 (NM_032429) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	LZTS2
Synonyms:	LAPSER1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG200824 representing NM_032429
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCATTGTGCAGACTCTGCCAGTGCCACTGGAGCCTGCTCCTGAAGCTGCCACTGCCCCACAAGCTC
 CAGTCATGGGTAGTGTGAGCAGCCTTATCTCAGGCCGGCCCTGTCCCGGGGGGCCAGCTCCTCCCCGCCA
 CCACGGCCCTCCTGGGCCACCTTCTTCCGCCAGCAGGATGGCCTGCTACGGGGTGGCTATGAGGCACAG
 GAGCCGCTGTGCCAGCTGTGCCCCCTAGGAAGGCTGTCCCTGTCAACAGCTTACCTACATCAATGAGG
 ACTTCGGACAGAGTCACCCCCAGCCCAAGCAGTGATGTTGAGGATGCCGAGAGCAGCGGGCACACAA
 TGCCCACTCCGCGGCCACCACCAAGCTCATCCCTGTCTTGAAAGCTGGAGAAGAAACATGGAGAAG
 ATCCTGATCCGCCAACAGCCTTCAAGCCAGTGCTGCCAAACCTCGAGGGGCTCCGTCCTGCCTAGCT
 TCATGGGTCTCGGGCCACCGGGTGTCTGGGAGCCAGGCGAGCCTGACGCAGCTGTTTGGGGCCCTGC
 CTCCTCCTCCTCTTCTCCTCCTTTCAGCTGCTGACAAACCCTGGCATTAGTGGCTGGGCCAGT
 GGCTGCCCATCAGGAGCCTATCCGACTCTGGCCGAAACTCACTGTCCAGCCTGCCACCTACAGCACCG
 GAGGTGCCGAGCAACACCAGCTCCCCAGGCGGGCACCTGCCTTCCCATGGCTCTGGGCGAGGGGCACT
 GCCTGGGCCAGCCGAGGGTCCCTACTGGGCCCTCCCACTCAGACAGTGGCCGGTCTCTCCAGCAAG
 AGCACAGGCTCCCTAGGGGGCGTGTGGCTGGGGGGCTTTTGGCAGTGGTACTCGGGCTCCCTGACA
 GCAGCTCCTGTGGGAGCGCTCACCACACCCCGCCTCCACCTCCTTCGGATGAGGCCCTGCTGCACTG
 TGTCTGGAAGAAAGCTCCGAGACCGGGAGGCAGAGCTTCAAGCAGCTGCGGGACAGCTGACGAGAAT
 GAGGCTACCATGTCCAGGCATACGAGGAGCGGCAGCGGCACTGGCAGCGAGAGCGTGAAGCCCTGCGAG
 AGGACTGTGCGGCCAGGCACAGCGGGCACAGCGGGCCCAACAGCTGCTGCAGCTGCAGGTGTTCCAGCT
 GCAGCAGGAGAAGCGGCAATTGCAGGACGACTTCGCACAGCTGCTGCAGGAGCGCAACAGCTGGAGCGG
 CGCTGCGCCACCTTGGAGCGGGAGCAGCGGGAGCTCGGGCCGAGGCTTGAAGAGCAAGTGGGAGGTGT
 GCCAGAAATCAGGCGAGATCTCCCTGCTGAAGCAGCAGCTGAAAGAGTCTCAGGCGAGCTGGTGCAGAA
 GGGCAGCGAGCTGGTGGCTCTCGGGTGGCGCTCGGGAGGCCCGTGTACGCTGCGGGTCACTGAGGGC
 CGTGCCGCGGGTCTACAGGAGGCCCGCCGAGCTCGGGAGCTGGAGCTGGAAGCCTGTTCCAGGAGCTGC
 AGCGACACCGCCAGGAAGCTGAGCAGCTGCGGGAGAAAGCTGGGCAGTTGGATGCTGAGGCGGCCGACT
 CCGGGAGCCCCCTGTGCCACCTGCCACCGCTGACCCATTCTCCTGGCAGAGAGTGATGAGGCCAAAGTG
 CAGCGGGCAGCAGCGGGTGGGGCAGCTTGGGGCCAGTGAGCGGATTGCGGGTGGAGCTGCAGC
 GGGAGCGGCGGGGTGAGGAGCAGCGGGACAGCTTTGAGGGGAGCGGCTGGCCTGGCAGGCAGAGAA
 GGAGCAGGTGATCCGCTACCAGAAGCAGCTGCAGCACAACTACATCCAGATGTACCGGCGCAACCGGCAG
 CTAGAGCAGGAGCTGCAGCAGCTCAGCCTGGAGCTGGAGGCCCGGGAGCTCGCTGACCTGGGCTGGCCG
 AGCAGGCCCTGCATCTGCCTGGAGGAGATCACTGCTACTGAGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200824 representing NM_032429
 Red=Cloning site Green=Tags(s)

MAIVQTLVPVLEPAPEAATAPQAPVMGSVSSLISGRPCPGGPAPPRHHGPPGPTFFRQQDGLLRGGYEAQ
 EPLCPAVPPRKAVPVTSFTYINEDFRTESPPSPSSDVEDAREQRAHNAHLRGPPKLIPVSGKLEKNMEK
 ILIRPTAFKPVLPKPRGAPSLPSFMGPRATGLSGSQSLTQLFGGPASSSSSSSSAADKPLAFSGWAS
 GCPSGTLSDSGRNSLSSLPTYSTGGAEPPTSSPGHLP SHGSGRGALPGPARGVPTGPSHSDSGRSSSK
 STGSLGGRVAGLLGSGTRASPDSSSCGERSPPPPPPPSDEALLHCVLEGKLRDREAEQLQLRDSDLN
 EATMCQAYEERQRHWQREAREALREDCAAQRAQRAQLQLQVFLQQEKRLQDDFAQLLQEREQLER
 RCATLEREQRELGPRLKETWEVCQKSGEISLLKQQLKESQAEVQKGSSELVALRVALREARATLRVSEG
 RARGLQEAARARELEACSQELQRHRQAEQLREKAGQLDAEAAGLREPPVPATADPFLAESDEAKV
 QRAAGVGGSLRAQVERLRVELQRERRRGEEQRDSFEGERLAWQAEKEQVIRYQKQLQHNYIQMYRRNRQ
 LEQELQQLSLEARELADGLAEQAPCICLEEITATEI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032429

ORF Size: 2007 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.

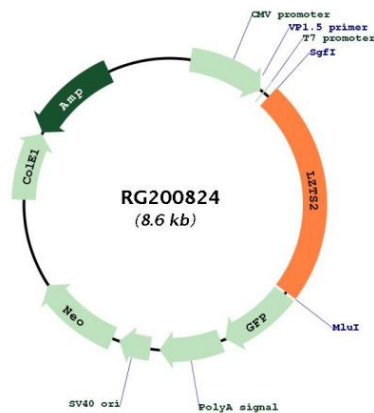
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032429.4](#)

RefSeq Size: 2757 bp

RefSeq ORF:	2010 bp
Locus ID:	84445
UniProt ID:	Q9BRK4
Cytogenetics:	10q24.31
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene belongs to the leucine zipper tumor suppressor family of proteins, which function in transcription regulation and cell cycle control. This family member can repress beta-catenin-mediated transcriptional activation and is a negative regulator of the Wnt signaling pathway. It negatively regulates microtubule severing at centrosomes, and is necessary for central spindle formation and cytokinesis completion. It is implicated in cancer, where it may inhibit cell proliferation and decrease susceptibility to tumor development. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2015]

Product images:



Circular map for RG200824