

Product datasheet for **RG204432**

LZTR1 (NM_006767) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LZTR1 (NM_006767) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LZTR1
Synonyms:	BTBD29; LZTR-1; NS2; NS10; SWNTS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204432 representing NM_006767
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGGACCGGGCAGCACGGGGGGCAGATCGGGGCTGCGGCCCTGGCAGGCGGCGCGGGTCCAAGG
 TAGCCCCGAGCGTGGACTTCGACCATAGCTGCTCGGACAGTGTGAGTACCTGACGCTCAACTTCGGGCC
 CTTCGAAACAGTGCATCGCTGGCGGCGCCTCCCGCCTGCGACGAGTTTCGTGGGTGCCGGCGCAGCAAA
 CACACAGTGGTGGCCTATAAAGATGCCATTTATGTATTTGGTGGAGACAATGGGAAGACCATGCTCAATG
 ACCTCCTGCGGTTTCGATGTGAAAGACTGCTCCTGGTGCAGGGCCTTTACCACTGGGACCCACCAGCCCC
 CCGTTACCACCACTCGGCCGTCGTCTATGGGAGCAGCATGTTTGTCTTTGGGGTTACACTGGGGACATT
 TATTCCAATTCTAACTTGAAGAATAAAAACGACCTCTTTGAATACAAGTTTGCAACTGGCCAGTGGACGG
 AGTGGAAAATTGAAGGACGGTTGCCAGTCGCTAGGTGAGCCCATGGGGCCACGGTGTACAGTGACAAGCT
 GTGGATCTTTGCTGGCTATGACGGCAACGCCAGGTTGAATGACATGTGGACAATTGGCCTCCAGGACCGA
 GAGCTCACCTGCTGGGAGGAGGTGGCCAGAGTGGCGAGATCCCCCATCTTGCTGCAACTTCCCGTGG
 CTGTGTGCCGGGACAAGATGTTTGTATTCTCTGGGCAAAGCGGAGCCAAAATAACCAACAACCTCTTCCA
 GTTTGAATTCAAGGACAAGAGCTGGACACGCATCCCAACTGAACACCTGCTCCGGGGCTCCCCACCACC
 CCGCAGCGGCGCTACGGGCATACCATGGTGGCCTTTGACCGCCACCTCTATGTGTTTGGGGGTGCGGCCG
 ACAACACGCTGCCAACGAGCTGCACCTGCTATGACGTGGACTTCCAGACCTGGGAGGTGCTCCAGCCAG
 CTCCGACAGCGAGGTTGGTGGGGCTGAAGTGCCGAGCGAGCCTGTGCTTCCGAGGAGGTGCCACCCTG
 ACCTATGAGGAGCGGGTTGGCTTCAAGAAGTCCCGAGATGTGTTGGCCTGGACTTTGGCACCACCTCAG
 CCAAGCAGCCCACCCAGCCTGCCTCGGAGCTGCCAGTGGGAGGCTCTTCCACGCGGCTGCTGCATCTC
 GGACGCCATGTACATCTTCGGGGGCACGGTGGACAACAACATCCGACGCGGGGAGATGTACAGGTTCCAG
 TTCTCCTGTTACCTAAATGCACGCTGCACGAGGACTACGGGCGGCTGTGGGAGAGCCGCCAGTTCTGCG
 ACGTGGAGTTCGTGCTGGGTGAGAAGGAGGAGTGCCTGCAGGGCCACGTAGCCATTGTCACAGCGCGGAG
 CCGCTGGCTTCGAGGAAGATCACGCAGGCGCGGGAGAGGCTGGCCAGAAGCTGGAGCAGGAGGCGGCC
 CCAGTTCCAGGGAGGCCCGGCGTGGCTGCTGGTGGGGCCCGGCCCTGCTGCACGTGGCCATCC
 GGGAGGCCGAGGCCCGGCCCTTCGAGGTGCTCATGCAGTTCCTCTACACCGACAAGATCAAATACCCACG
 GAAAGGCCATGTGGAGGATGTGCTGCTCATCATGGATGTGTACAACTGGCACTGAGCTTCCAGTTGTGC
 CGTCTGGAGCAGCTGTGCCGCCAGTACATCGAGGCTCCGTGGACCTGCAGAACGTGCTGGTTGTGTGCG
 AGAGTGCCGCCCGGCTGCAGCTGAGCCAACTCAAGGAGCACTGCCTGAACTTCGTGGTAAAGGAGTCCCA
 CTTCAACCAGGTGATCATGATGAAGGAGTTCGAGCGCCTCTCCTCTCCACTGATAGTGGAGATTGTGCGG
 CGGAAGCAGCAGCCGCCCTCGCACTCCCTTGGACCAGCCAGTGGACATTGGCACATCTCTGATCCAGG
 ACATGAAGGCATACCTGGAGGGAGCGGGCGCGGAATTCTGTGACATCACTCTGTTGCTTGACGGGCCACC
 ACGGCCAGCCACAAGGCTATCCTGGCCCGCGCTCCAGCTACTTTGAAGCCATGTTCCGGTCTTCATG
 CCCGAAGATGGCAGGTGAACATCTCCATCGGGGAGATGGTGGCCAGCAGGCAGGCCCTTCGAGTCCATGC
 TGCCTACATCTACTACGGCGAGGTCAACATGCCGCCGAGGACTCGCTCTACTTGTTCGGGCCCCCTA
 CTACTACGGCTTCTACAACAACCGGCTGCAGGCGTACTGCAAGCAGAACCTGGAGATGAACGTGACGGTG
 CAGAACGTGCTGAGATCCTGGAGGCAGCTGACAAAACGCAAGGCACTGGACATGAAGCGGCACTGCCTGC
 ACATCATTGTGCCACAGTTCACCAAGGTCTCAAGTTGCCACCCTGCGGTGCTGAGCCAGCAGCTGCT
 GCTGGACATCATAGACTCCCTGGCTCCACATCTCAGACAAGCAGTGGCGAGAGCTGGGCGCCGACATC

ACGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG204432 representing NM_006767
Red=Cloning site Green=Tags(s)

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MAGPGSTGGQIGAAALAGGARSKVAPSVDFDHSCSDSVEYLTLNFGPFETVHRWRRLPPCDEFVGARRSK
HTVVAYKDAIYVFGDNGKTMLNDLLRFDVKDCSWCRAFTTGTTPAPRYHHSVVYSSMFVGGYTGDI
YSNSNLKNKNDLFEYKFATGQWTEWKIEGRLPVARSAHGATVYSDKLWIFAGYDGNARLNDMWTIGLQDR
ELTCWEEVAQSGEIPPSCCNFPVAVCRDKMFVFSGQSGAKITNNLFQFEFKDKTWTRIPTEHLLRGSPPP
PQRRYGHMTMAFDRHLYVFGGAADNTLPNELHCYDVFQTWEVVQPSSDSEVGGAEVPERACASEEVPTL
TYEERVGFKKS RDVFG LDFGTTSAKQPTQPASELPSGRLFHAAAVIDSAMYIFGGTVDNNIRSGEMYRFQ
FSCYPKCTLHEDYGR LWESRQFC DVEFVLGEKEECVQGHVAIVTARSRWLRRKITQARERLAQKLEQAAA
PVPREAPGVAAGGAR PPLLHVAIREAEARPF EVL MQFLYTDKIKYPRKGHVEDVLLIMDVYKLALSFQLC
RLEQLCRQYIEASVDLQNVLVVCE SAARLQLSQLKEHCLNFVVKESHFNQVIMMKEFERLSSPLIVEIVR
RKQQPPRTPLDQPVDIGTSLIQDMKAYLEGAGAEFC DITLLLDGHPRPAHKAILAARSSYFEAMFRSFM
PEDGQVNISIGEMVPSRQAFESMLRYIYYGEVNMPPEDSLYLF AAPYYYGFYNNRLQAYCKQNLEMNVTV
QNVLQILEAADKTQALDMKRHCLHIIVHQFTK VSKLPTLRSLSQQLLLDIIDSLASHISDKQCAELGADI
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI
BamHI *KpnI*
RBS
Kozac
Consensus
SgfI
AscI

HindIII
NheI *RsrII*
MluI
NotI
XhoI
GFP Tag

CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

CAAGCTTAACTAGCTAGCGGACCG
ACG CGT
ACG CGG CCG
CTC GAG
ATG GAG AGC GAC

T R T R P L E
M E S D
- - -

PmeI
FseI

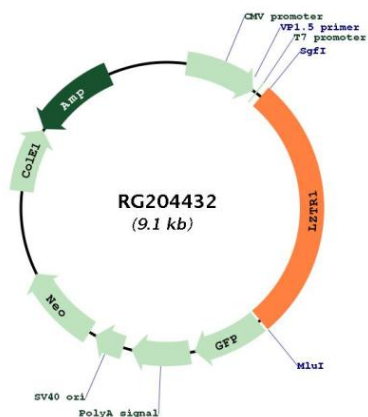
--- GAA GAA AGA GTT TAA
ACGGCCGGCCGGGAGCT

- - E E R V
Stop

ACCN: NM_006767
 ORF Size: 2520 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_006767.3, NP_006758.2</p>
RefSeq Size:	<p>4332 bp</p>
RefSeq ORF:	<p>2523 bp</p>
Locus ID:	<p>8216</p>
UniProt ID:	<p>Q8N653</p>
Cytogenetics:	<p>22q11.1-q11.2</p>
Domains:	<p>BTB, Kelch</p>
Protein Families:	<p>Transcription Factors</p>
Gene Summary:	<p>This gene encodes a member of the BTB-kelch superfamily. Initially described as a putative transcriptional regulator based on weak homology to members of the basic leucine zipper-like family, the encoded protein subsequently has been shown to localize exclusively to the Golgi network where it may help stabilize the Gogli complex. Deletion of this gene may be associated with DiGeorge syndrome. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG204432