

## Product datasheet for **RG207289**

### **LZTFL1 (NM\_020347) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LZTFL1 (NM_020347) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LZTFL1
Synonyms:	BBS17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207289 representing NM_020347 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAGTTGGGCCTAAATGAGCACCATCAAATGAAGTTATTAATTATATGCGTTTTGCTCGTTCAA  
AGAGAGGCTTGAGACTCAAACCTGTAGATTCCTGCTTCCAAGACCTCAAGGAGAGCAGGCTGGTGGAGGA  
CACCTTCACCATAGATGAAGTCTCTGAAGTCTCAATGGATTACAAGCTGTGGTTCATAGTGAGGTGAA  
TCTGAGCTCATCAACACTGCCTATACCAATGTGTTACTTCTGCGACAGCTGTTTGCACAAGCTGAGAAGT  
GGTATCTTAAGCTACAGACAGACATCTCTGAACCTGAAAACCGAGAATTATTAGAACAAGTGCAGAATT  
TGAAAAAGCAGAGATTACATCTTCAAACAAAAGCCCATCTTAGATGTCACAAAGCCAAAACCTTGCTCCA  
CTTAATGAAGGTGGAACAGCAGAACTCCTAAACAAGGAAATTTAAGACTTCAAGAAGAGAATGAGAAAT  
TGAAGTCAAGGTTGAAGACCATGAAATACAGGCTACAAATGCACTGGATGAAAAGTCAAACCTAGAAAA  
AGCACTGCAAGATTTACAGCTTGATCAAGGAAATCAAAGGATTTTATAAAGGCCAAGACTTAAGTAAC  
TTAGAAAAACACTGTCGCTGCCTAAAGAGTGAGTTTCAGAAGACACTTAATGACAAGACAGAAAACCAGA  
AGTCACTGGAGGAGAATCTGGCGACAGCCAAGCAGCATCTACTCAGGTTTCAGGAGCAGCTGCACATGCC  
TGAAAAGGAATTAGAAAAGAAATTTAGCAAACAGCAGCTTATCGAAAACATGAAAAGAGATTTACCAAG  
AGAATGACCAAATCAAAGATCTGAGGAAAAGACTGGCACAATATGAACCTGAAGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207289 representing NM\_020347  
Red=Cloning site Green=Tags(s)

MAELGLNEHHQNEVINYMRFARSKRGLRLKTVDSFCQDLKESRLVEDTFTIDEVSEVLNGLQAVVHSEVE  
 SELINTAYTNVLLLRQLFAQAEKWLKLQTDISELENRELLEQVAEFKAEITSSNKKPILDVTKPKLAP  
 LNEGTAELLNKEILRLQEENEKLSRLKTIEIQATNALDEKSKLEKALQDLQLDQGNQKDFIKAQDLSN  
 LENTVAALKSEFQKTLNDKKTENQKSLLEENLATAKHDLLRVQEQQLHMAEKELEKFKQQTAAAYRNMKEILTK  
 KNDQIKDLRKRRLAQYEPED

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_020347

**ORF Size:** 897 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.

**RefSeq:** [NM\\_020347.4](#)

**RefSeq Size:** 3398 bp

**RefSeq ORF:** 900 bp

**Locus ID:** 54585

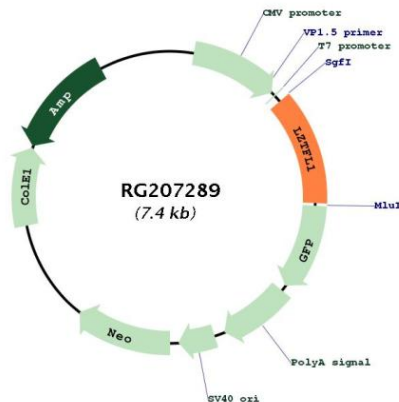
**UniProt ID:** [Q9NQ48](#)

**Cytogenetics:** 3p21.31

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a ubiquitously expressed protein that localizes to the cytoplasm. This protein interacts with Bardet-Biedl Syndrome (BBS) proteins and, through its interaction with BBS protein complexes, regulates protein trafficking to the ciliary membrane. Nonsense mutations in this gene cause a form of Bardet-Biedl Syndrome; a ciliopathy characterized in part by polydactyly, obesity, cognitive impairment, hypogonadism, and kidney failure. This gene may also function as a tumor suppressor; possibly by interacting with E-cadherin and the actin cytoskeleton and thereby regulating the transition of epithelial cells to mesenchymal cells. [provided by RefSeq, Aug 2020]

### Product images:



Circular map for RG207289