

## Product datasheet for **MR210905**

### Lztr1 (NM\_025808) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lztr1 (NM_025808) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lztr1
Synonyms:	1200003E21Rik; AI591627; AW550890; TCFL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR210905 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTGGCTCCGGAGGCCCATTTGGTCCGGGCTTGACAGGAGGGGTACGCTCCAAGTGGCTCCGA  
 GCGTGGACTTTGACCACAGCTGCTCAGACAGTGTGAGTACCTGACGCTCAACTTTGGACCTTCGAAAC  
 AGTGCATCGCTGGCGGCCCTCCCGCCCTGTGACGAATTCGTGGGCGCCCGGCGCAGCAAGCACACAGTC  
 GTGGCATATAAGGATGCCATCTATGTGTTTGGTGGAGACAACGGAAAGACGATGCTCAATGATCTCTGCTG  
 GTTTCGATGTGAAGGATTGCTCCTGGTGCAGAGCCTTACCACCGGCACCCCTCCAGCCCCCGTTACCA  
 CCACTCTGCTGTGGTCTATGGGAGCAGCATGTTCTGCTTTGGGGCTATACTGGAGATATTTATTCCAAT  
 TCTAACTGAAGAATAAAAAATGACCTCTTTGAATACAAATTTGCAACTGGCCAGTGGACGGAGTGAAGA  
 TTGAAGGGAGGTTGCCTGTTGCCAGGTCAGCCCATGGGGTACAGTGTACAGTGATAAGCTCTGGATCTT  
 TGCTGGTTATGATGGCAATGCCAGGTTGAACGACATGTGGACAATTGGCCTCCAAGACCGAGAGCTCACA  
 TGCTGGGAGGAGTGGCCAGAGTGGTGGATCCCCCATCTGCTGCAACTTCCCTGTGGCTGTGTGCC  
 GGGATAAGATGTTCTGTTCTCAGGACAGAGTGGAGCCAAGATAACTAACACCTCTCCAGTTTGAATT  
 CAAAGACAAGACGTGGACACGCATCCCTACTGAGCACCTGCTTCGGGGCTCCCCACCCCGCCACAGCGG  
 CGCTACGGACACACCATGGTGGCCTTTGACCGCCATCTCTATGTGTTTGGGGTGCAGCGGACAATACAC  
 TGCCCAATGAGTTGCACTGCTATGATGTGGACTCCAGACCTGGGAGGTTGTCCAGCCAGCTCTGACAG  
 TGAGGTTGGGGCTGAGATGCCTGAGCGAGCTTCTCTTCTGAGGATGCATCTACTCTAACCTCTGAAGAG  
 CGGAGCAGCTTTAAGAAGTCCAGAGATGTGTTGGCTTAGATTTGGCACCCTCAGCCAAGCAGCCTG  
 CCCATCTGGCATCAGAGCTGCCAGCGGGAGGCTTCCATGCTGCCGCTGTCATCTGATGCCATGTA  
 CATCTTTGGGGGCACTGTAGACAACAACATTCGCAGTGGGGAAATGTACAGGTTCCAGTTCTCTTGCTAC  
 CCTAAGTGCACACTGCATGAAGATTATGGGCGCCTATGGGAGGGCCGCCAGTTCTGTGATGTGGAGTTT  
 TGCTTGGTGAAGAAGAGTGTGTGCAAGCCATGTTGCCATCGTCACTGCAAGGAGCCGGTGGCTTCG  
 TAGGAAGATCGTACAGGCTCAAGAGTGGCTGGCCAGAAGCTAGAGGAAGATGGGGCCCTAGCTCCCAAG  
 GAGGCCCCAGCCAGCTGTGGGAGGGCAGGCCACCCCTGTTACGTGTGGCCATCCGTGAGGCTGAGG  
 CCCGGCCATTTGAGGTGCTCATGCAGTTTCTCTACACAGACAAGATCAAGTACCCACGGAAAGGCCATGT  
 AGAAGACGTGCTGCTCATCATGGATGTGTATAAGTTGGCGCTGAGCTTCCAGCTGTGTCGCTTGAGCAG  
 CTGTGTGGCAGTACATCGAGGCTCTGTAGATCTGCAGAATGTTCTGGTTGTGTGTGAGAGTGTGCCA  
 GGCTACAGCTGGCCAGCTCAAGGAGCATTGCCTGAACTTCATAGTGAAGGAATCCCACTTCAATCAGGT  
 GATCATGATGAAGGAGTTTGAGCGCCTCTCATCCCCACTGATTGTAGAGATAGTTCGTCGGAAGCAGCAG  
 CCGCCCCCTCGCACACCTCCGATCAGCCTGTGGACATTGGCACATCTCTGATCCAAGACATGAAGGCTT  
 ACCTGGAGGGAGCAGGCTCGGAGTTCTGTGACATCACACTACTGTAGATGGCCAGCCACGGCCAGCCCA  
 CAAAGCCATCCTAGCTGCCCGTTCTAGCTACTTTGAGGCCATGTTTCGGTCGTTTCATGCCAGAGGACGGG  
 CAGGTGAACATCTCCATTGGGGAGATGGTCCCAGCAGACAGGCCTTCGAGTCCATGCTACGCTACATCT  
 ACTATGGGAGGTC AACATGCCCCCTGAGGACTCGCTCTACCTGTTTGCAGCCCCGTAATTACGGCTT  
 CTACAATAACCGACTGCAGGCTTACTGCAAGCAAACCTAGAGATGAATGTCACAGTGCAGAATGTGCTG  
 CAGATTCTGGAGCGGCTGACAAGACGCAGGCACTGGACATGAAGCGGCACTGTTTGCACATCATTGTAC  
 ACCAATTCACCAAGTCTCTAAGCTGCCACGCTGCGGTTGCTGAGCCAGCAGCTGCTGCTGGACATCAT  
 AGACTCCTTGGCCTCCACATCTCTGACAAGCAGTGTGCAGAGCTGGGTGCTGACATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR210905 protein sequence  
 Red=Cloning site Green=Tags(s)

MAGSGGPIGSGALTGGVRSKVAPSVDFDHSCSDSVEYLTLNFGPFETVHRWRRLPPCDEFVGARRSKHTV  
 VAYKDAIYVFGDNGKTMNDLLRFDVKDCSWCRAFTTGTPPAPRYHHSVVYGGSSMFVFGGYTGDIYSN  
 SNLKNKNDLFEYKFATGQWTEWKIEGRLPVARSAHGATVYSDKLWIFAGYDGNARLNDMWTIGLQDRELT  
 CWEEVAQSGEIPPSCCNFPVAVCRDKMFVFSGQSGAKITNNLFQFEFKDKTWTRIPTEHLLRGSPPPPQR  
 RYGHMTMAFDRHLYVFGGAADNTLPNELHCYDVFQWTEVVQPSSDSEVGAEMPERASSSEDASTLTSEE  
 RSSFKKSRDVFGLDFGTTSAKQPAHLASELPSGRLFHAAAVISDAMYIFGGTVDNNIRSGEMYRFQFSCY  
 PKCTLHEDYGRLWEGRQFCDFEVLGEKEECVQGHVAIVTARSRWLRKIVQAQEWLAQKLEEDGALAPK  
 EAPSPAVGRARPLLRVAI REAEARPFEVLMQFLYTDKIKYPRKGHVEDVLLIMDVYKLALSFQLCRLEQ  
 LCRQYIEASVDLQNVLVCEAARLQLGQLKEHCLNFIVKESHFNQVIMMKEFERLSSPLIVEIVRRKQQ  
 PPPRTPSDQPVDIGTSLIQDMKAYLEGAGSEFCDITLLLDGQPRPAHKAILAARSSYFEAMFRSFPEDG  
 QVNISIGEMVPSRQAFESMLRYIYYGEVNMPPEDSLYLFAAPYYYGFYNNRLQAYCKQNLNEMNVTQNVL  
 QILEAADKTQALDMKRHCLHIIVHQFTKYSKLPTRLRLLSQQLLLDIIDSLASHISDKQCAELGADI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_025808

ORF Size: 2511 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\\_025808.2](#), [NM\\_025808.3](#), [NM\\_025808.4](#), [NP\\_080084.2](#)

**RefSeq Size:** 3108 bp

**RefSeq ORF:** 2514 bp

**Locus ID:** 66863

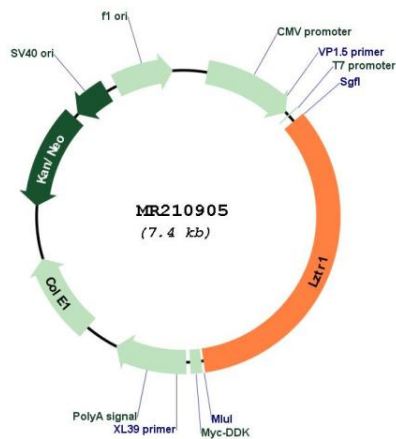
**UniProt ID:** [Q9CQ33](#)

**Cytogenetics:** 16 A3

**MW:** 94.4 kDa

**Gene Summary:** This gene encodes a member of the BR-C, ttk and bab-kelch superfamily that, in humans, localizes to the Golgi network and is associated with the ras / mitogen-activated protein kinase pathway. Loss-of-function mutations in the human ortholog are associated with glioblastoma multiforme, schwannomatosis, Noonan syndrome, and DiGeorge syndrome. [provided by RefSeq, Sep 2016]

### Product images:



Circular map for MR210905