

## Product datasheet for **RG219068**

### **LZTR2 (SEC16B) (NM\_033127) Human Tagged ORF Clone**

#### Product data:

|                           |                                           |
|---------------------------|-------------------------------------------|
| Product Type:             | Expression Plasmids                       |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | LZTR2                                     |
| Synonyms:                 | LZTR2; PGPR-p117; RGPR; RGPR-p117; SEC16S |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



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ORF Nucleotide Sequence: >RG219068 representing NM\_033127  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

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GCAGCTATGAGCTCAGTCAGTACATCAGAGATGCCCCGGAGCGGGATGATCCCCCAGCTTCAGCAGCTTG  
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AGAGTGTTCCTTTGAGCTCTGCTCCAACCTGGTGTCTTCTTCTCCACCTGCCTTAAAGAGGGCTGT  
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GCTCAGCGTCGCTATCCACCCAGCCATGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219068 representing NM\_033127

Red=Cloning site Green=Tags(s)

MELWAPQRLPQTRGKATAPSKDPDRGFRDGHHRPVPHSWHNGERFHQWQDNRGSPQPQQEPRADHQQQP  
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QKNKPSLASESNLLQQRESGLSSSSYELSQYIRDAPERDDPPASAAWSPVQADVSSAGPKAPMKFYIPHV  
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SGTPNLLTGEIPPSVETPAQIVEKFRLLYYGRKKEALEWAMKNHLWGHALFLSSKMDPQTYSWVMSGFT  
STLALNDPLQTLFQLMSGRIQAATCCGEKQWGDWRPHLAVILSNQAGDPLEYQRAIVAIGDTLAGKGLV  
EAAHFCYLMHVFPFGHYTVKTDHLVLLGSSHSQEFLLKFATTEAIQRTEIFEYQCMLGRPKSFIPSFQVYK  
LLYASRLADYGLVSQALHYCEAIGAAVL SQGESSHPVLLVELIKLAEKLLSDPLVLERRSGDRDLEPDW  
LAQLRRQLEKQVAGDIGDPHPTRSDISGARGTTTENTFYQDFSGCQGYSEAPGYRSALWL TPEQTCLLQP  
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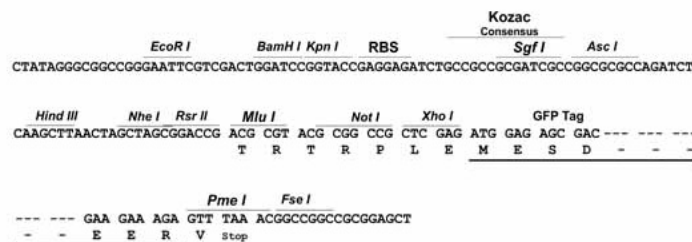
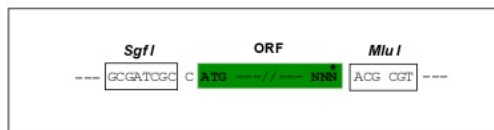
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:

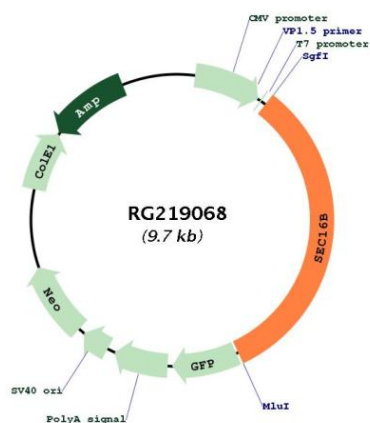
NM\_033127

ORF Size:

3180 bp

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>                                                                      |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                    |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol> |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <a href="#">NM_033127.1</a> , <a href="#">NP_149118.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>RefSeq Size:</b>           | 3986 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 3183 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 89866                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <a href="#">Q96JE7</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 1q25.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene Summary:</b>          | SEC16B is a mammalian homolog of <i>S. cerevisiae</i> Sec16 that is required for organization of transitional endoplasmic reticulum (ER) sites and protein export (Bhattacharyya and Glick, 2007 [PubMed 17192411]).[supplied by OMIM, Jun 2009]                                                                                                                                                                                                                                                                        |

Product images:



Circular map for RG219068