

## Product datasheet for **RR211522**

### Tiprl (NM\_001109667) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tiprl (NM\_001109667) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tiprl  
**Synonyms:** RGD1310442  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR211522 representing NM\_001109667  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGATCCACGGCTTTCAGAGCAGCCACCAGGACTTCTCCTTCGGCCTTGAAGCTTACCGCTCCA  
AGACCCACATCATGAAGTCTGCGGATGTGAAAAGTTAGCCGACGAGCTGCATATGCCATCCCTCCCTGA  
AATGATGTTTGGAGACAACGTTCTAAGGATCCAGCATGGTTCTGGCTTCGGAATAGAGTTCAATGCTACG  
GATGCCCTGAGATGTGTGAACAACCTACCAGGGCATGCTCAAAGTAGCCTGTGCTGAAGAGTGGCAGGAAA  
GTAGGACGGAGGGTGAACACTCCAAAGAAGTTATTAACCATATGACTGGACCTATACAACAGATTATAA  
AGGAACGTTGCTTGGAGAATCTCTTAAGTTAAAGTTGTACCTACAACAGATCATATAGATACAGAAAAA  
TTGAAAGCCAGAGAGCAGATTAATTTTTGAAGAAGTTCTCCTGTTTGAAGATGAATTACATGATCATG  
GCGTTTCCAGCCTGAGTGTGAAAATTAGAGTAATGCCTTCCAGCTTTTTCTGCTATTGCGGTTTTCT  
GAGAATTGATGGGGTGTCTATCAGAATGAATGACACAAGGCTTATCATGAGGCTGACAAGACCTACATG  
TTACGAGAATATACATCCAGAGAGAGCAAAATTGCTAATTAATGCATGTTCCACCTTCCCTCTTACGG  
AACCTAATGAAATATACAATTTTACCAATTAAGGAAGCAGTTTGTGAGAAGCTAGTATTTCCAGAAAG  
AATTGATCCTAACCCCGTGACTCAGAAAGTCCGCCCTCAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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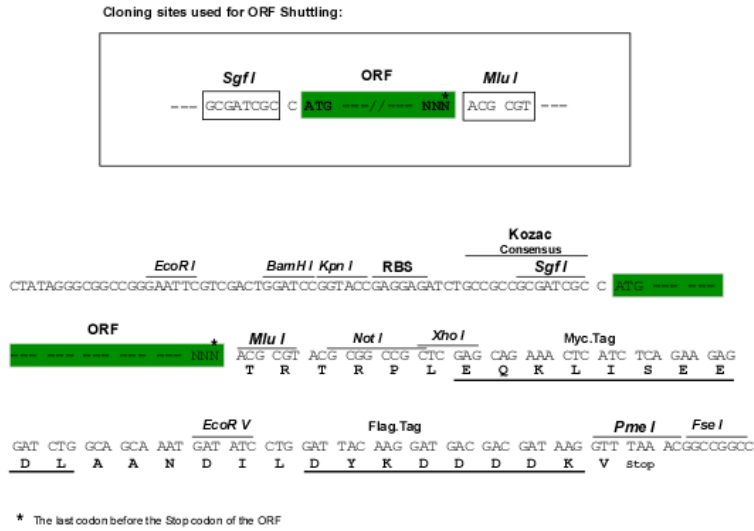
Protein Sequence: >RR211522 representing NM\_001109667  
 Red=Cloning site Green=Tags(s)

MMIHGFQSSHQDFSGPWKLTASKTHIMKSADVEKLADELHMPSLPEMMFGDNLRIQHSGFGGIEFNAT  
 DALRCVNNYQGLMKVACAEWQESRTEGEHSKEVIKPYDWTYTTDYKGTLLGESLKLKVPTTDHIDTEK  
 LKAREQIKFFEEVLLFEDELHDHGVSSLSVKIRVMPSSFFLLRRFLRIDGVLIRMNDTRLYHEADKTYM  
 LREYTSRESKIANLMHVPPSLFTEPNEISQYLPKEAVCEKLVFPERIDPNPVDSEAPSE

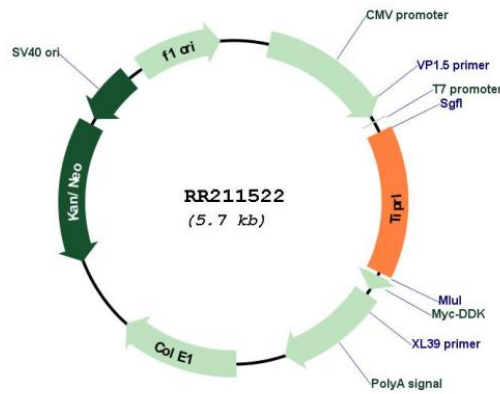
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001109667  
 ORF Size: 813 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>RefSeq:</b>	<a href="#">NM_001109667.1</a> , <a href="#">NP_001103137.1</a>
<b>RefSeq Size:</b>	1726 bp
<b>RefSeq ORF:</b>	816 bp
<b>Locus ID:</b>	360869
<b>UniProt ID:</b>	<a href="#">A2VCX1</a>
<b>Cytogenetics:</b>	13q23
<b>MW:</b>	31.2 kDa
<b>Gene Summary:</b>	May be a allosteric regulator of serine/threonine-protein phosphatase 2A (PP2A). Inhibits catalytic activity of the PP2A(D) core complex in vitro. The PP2A(C):TIPRL complex does not show phosphatase activity. Acts as negative regulator of serine/threonine-protein phosphatase 4 probably by inhibiting the formation of the active PPP4C:PPP4R2 complex; the function is proposed to implicate it in DNA damage response by promoting H2AFX phosphorylated on Ser-140 (gamma-H2AFX). May play a role in the regulation of ATM/ATR signaling pathway controlling DNA replication and repair (By similarity).[UniProtKB/Swiss-Prot Function]