

## Product datasheet for RN211522

### Tiprl (NM\_001109667) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tiprl (NM\_001109667) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Tiprl  
**Synonyms:** RGD1310442  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN211522 representing NM\_001109667  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGATCCACGGCTTTCAGAGCAGCCACCAGGACTTCTCCTTCGGGCCTTGGAAAGCTTACCGCGTCCA  
AGACCCACATCATGAAGTCTGCGGATGTGGAAAAGTTAGCCGACGAGCTGCATATGCCATCCCTCCCTGA  
AATGATGTTTGGAGACAACGTTCTAAGGATCCAGCATGGTTCTGGCTTCGGAATAGAGTTCAATGCTACG  
GATGCCCTGAGATGTGTGAACAACCTACCAGGGCATGCTCAAAGTAGCCTGTGCTGAAGAGTGGCAGGAAA  
GTAGGACGGAGGGTGAACACTCCAAAGAAGTTATTAACCATATGACTGGACCTATACAACAGATTATAA  
AGGAACGTTGCTTGGAGAATCTCTTAAGTTAAAGGTTGTACCTACAACAGATCATATAGATACAGAAAAA  
TTGAAAGCCAGAGAGCAGATTAAATTTTTGAAGAAGTTCTCCTGTTTGAAGATGAATTACATGATCATG  
GCGTTTCCAGCCTGAGTGTGAAAATTAGAGTAATGCCTTCCAGCTTTTTCTGCTATTGCGGTTTTCT  
GAGAATTGATGGGGTGTCTATCAGAATGAATGACACAAGGCTTTATCATGAGGCTGACAAGACCTACATG  
TTACGAGAATATACATCCAGAGAGAGCAAAATTGCTAATTAATGCATGTTCCACCTTCCCTCTTACGG  
AACCTAATGAAATATACAATTTTACCAATTAAGGAAGCAGTTTGTGAGAAGCTAGTATTTCCAGAAAG  
AATTGATCCTAACCCGTGGACTCAGAAAGTGCGCCCTCAGAA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001109667  
**Insert Size:** 816 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_001109667.1</a></u> , <u><a href="#">NP_001103137.1</a></u>
<b>RefSeq Size:</b>	1726 bp
<b>RefSeq ORF:</b>	816 bp
<b>Locus ID:</b>	360869
<b>UniProt ID:</b>	<u><a href="#">A2VCX1</a></u>
<b>Cytogenetics:</b>	13q23
<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]