

## Product datasheet for **RR214336**

### Strap (NM\_001011969) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Strap (NM\_001011969) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Strap  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR214336 representing NM\_001011969  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCATGAGGCAGACGCCGCTCACTTGCTCGGGCCACACGCGGCCCGTGGTGGATTTGGCCTTCAGCG  
GCATCACGCCCTTACGGCTACTTTCTGATCAGCGCTTGCAAAGATGGCAAACCTATGCTCCGCCAGGGAGA  
TACAGGAGACTGGATCGGAACATTTTTGGGTCATAAAGGTGCTGTTGGGGTGCAACATTGAATAAGGAC  
GCCACCAAAGCTGCCACAGCAGCTGCAGACTTCACAGCCAAAGTGTGGGACGCTGTCTCTGGAGATGAAC  
TGATGACCCTGGCTCACAAGCACATCGTCAAGACCGTGGATTTACACAGGATAGCAATTACCTGTTGAC  
TGGAGGACAGGACAAACTGCTGCGCATATACGACTTGAACAAACCTGAAGCAGAACCCAAGGAAATTAGT  
GGTCACACGTCCGGTATTAAGGCTCTGTGGTGCAGTGAGGATAAACAGATCCTTTCAGCTGATGATA  
AAACTGTTCCGGCTCTGGGATCATGCCACAATGACAGAAGTAAATCTCTAAATTTAATATGTCTGTTAG  
CAGCATGGAATATATTCCTGAGGGAGAGATCTTGGTCATTAATGAGGATCCATTGCTTTTCATAGT  
GCAGTAAGTCTGGAGCCAATTAATCCTTTGAAGCTCCTGCAACCATCAATTCTGCATCTCTTCATCCTG  
AGAAGGAATTTCTTGTGCTGGTGGAGAAGACTTTAAACTGTATAAGTATGATTATAATAGTGGAGAGGA  
ATTAGAATCCTACAAAGGTCACTTTGGCCCCATCACTGTGTGAGATTCAGTCCCGATGGTGAACCTCAT  
GCCAGTGGTTCTGAAGATGGGACACTGAGATTGTGGCAAACCTGTGGTTGAAAGACCTACGGCCTGTGGA  
AATGCGTGCTTCTGAGGAAGATAGCGGGAACTGGCAAAGCCAAAGATCGGATTTCCAGAAACAGCAGA  
AGAAGAGCTGGAAGAGATTGCTTCAGAGAATTCAGATTCCATCTATTCGTCAACTCCTGAAGTGAAGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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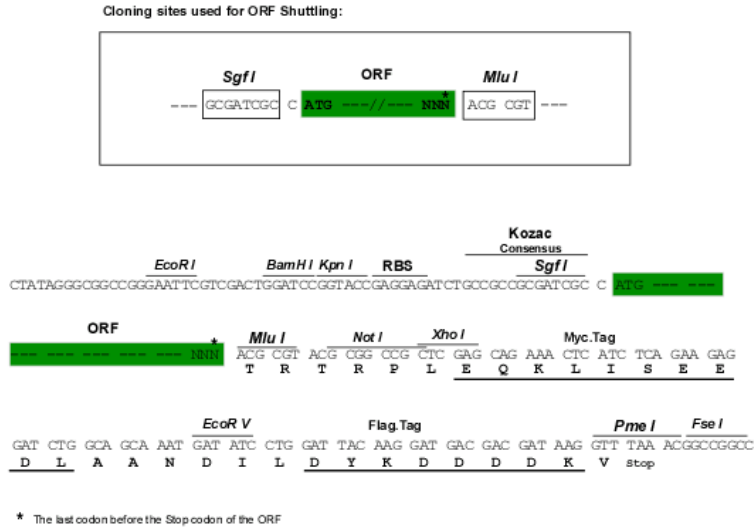
**Protein Sequence:** >RR214336 representing NM\_001011969  
 Red=Cloning site Green=Tags(s)

MAMRQTPLTCSGHTRPVVDLAFSGITPYGYFLISACKDGKPMRQGDTGDWIGTFLGHKGAVWGATLNKD  
 ATKAATAAADFTAKVWDAVSGDELMTLAHKHIVKTVDF TQDSNYLLTGGQDKLLRIYDLNKPEAEPKEIS  
 GHTSGIKKALWCSEDKQILSADDKTVRLWDHATMTEVKSLNFMNSVSSMEYIPEGEILVITYGRSIAFHS  
 AVSLEPIKSFEAPATINSASLHPEKEFLVAGGEDFKLYKYDYNSGEELESYKGFHPIHCVRVSPDGELY  
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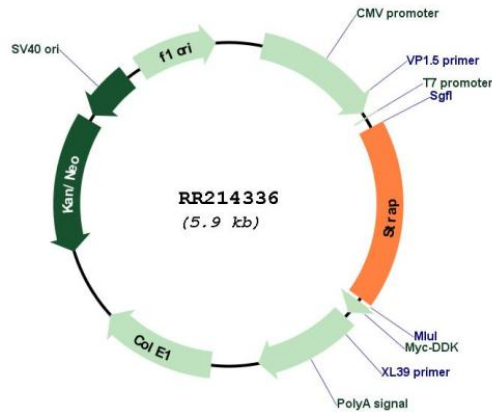
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001011969

<b>ORF Size:</b>	1050 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_001011969.1</a> , <a href="#">NP_001011969.1</a>
<b>RefSeq Size:</b>	1755 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	297699
<b>UniProt ID:</b>	<a href="#">Q5XIG8</a>
<b>Cytogenetics:</b>	4q44
<b>MW:</b>	38.5 kDa
<b>Gene Summary:</b>	<p>The SMN complex plays a catalyst role in the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. Dissociation by the SMN complex of CLNS1A from the trapped Sm proteins and their transfer to an SMN-Sm complex triggers the assembly of core snRNPs and their transport to the nucleus. STRAP plays a role in the cellular distribution of the SMN complex. Negatively regulates TGF-beta signaling but positively regulates the PDPK1 kinase activity by enhancing its autophosphorylation and by significantly reducing the association of PDPK1 with 14-3-3 protein (By similarity).[UniProtKB/Swiss-Prot Function]</p>