

Product datasheet for **RN214336**

Strap (NM_001011969) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Strap (NM_001011969) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Strap
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN214336 representing NM_001011969 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCCATGAGGCAGACGCCGCTCACTTGCTCGGGCCACACGCGGCCCGTGGTGGATTTGGCCTTCAGCG
GCATCACGCCTTACGGCTACTTTCTGATCAGCGCTTGCAAAGATGGCAAACCTATGCTCCGCCAGGGAGA
TACAGGAGACTGGATCGGAACATTTTTGGGTCATAAAGGTGCTGTTGGGGTGCAACATTGAATAAGGAC
GCCACCAAAGCTGCCACAGCAGCTGCAGACTTCACAGCCAAAGTGTGGGACGCTGTCTCGGAGATGAAC
TGATGACCCTGGCTCACAAGCACATCGTCAAGACCGTGGATTTACACAGGATAGCAATTACCTGTTGAC
TGGAGGACAGGACAACTGCTGCGCATATACGACTTGAACAAACCTGAAGCAGAACCCAAGGAAATTAGT
GGTCACACGTCCGGTATTA AAAAGGCTCTGTGGTGCAGTGAGGATAAACAGATCCTTTCAGCTGATGATA
AAACTGTTCCGGCTCTGGGATCATGCCACAATGACAGAAGTAAATCTCTAAATTTAATATGTCTGTTAG
CAGCATGGAATATATTCCTGAGGGAGAGATCTTGGTCATTA CTATGGGCGATCCATTGCTTTTCATAGT
GCAGTAAGTCTGGAGCCAATTAATCCTTTGAAGCTCCTGCAACCATCAATTCTGCATCTCTTCATCCTG
AGAAGGAATTTCTTGTGCTGGTGGAGAAGACTTTAAACTGTATAAGTATGATTATAATAGTGGAGAGGA
ATTAGAATCCTACAAAGGTCACTTTGGCCCCATCACTGTGTGAGATTCAGTCCCGATGGTGAACCTCAT
GCCAGTGGTTCTGAAGATGGGACACTGAGATTGTGGCAAACCTGTGGTTGGAAAGACCTACGGCCTGTGGA
AATGCGTGCTTCTGAGGAAGATAGCGGGAACTGGCAAAGCCAAAGATCGGATTTCCAGAAACAGCAGA
AGAAGAGCTGGAAGAGATTGCTTCAGAGAATTCAGATTCATCTATTCGTCAACTCCTGAAGTGAAGGCC
TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001011969
Insert Size:	1053 bp



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OTI Disclaimer:	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).
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:	<ol style="list-style-type: none">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:	<u>NM_001011969.1</u> , <u>NP_001011969.1</u>
RefSeq Size:	1755 bp
RefSeq ORF:	1053 bp
Locus ID:	297699
UniProt ID:	<u>Q5XIG8</u>
Cytogenetics:	4q44
Gene Summary:	<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>