

## Product datasheet for **MG217694**

### Strap (NM\_011499) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Strap (NM\_011499) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Strap  
**Synonyms:** AW557906; C78091; C79202; Unrip  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG217694 representing NM\_011499  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCATGAGGCAGACGCCGCTCACTTGTCTGGGCCACACGCGGCCCGTGGTGGATTTGGCCTTCAGCG  
GCATCACGCCCTTACGGCTACTTTCTGATCAGCGCTTGCAAAGATGGCAAGCCCATGCTCCGCCAGGGAGA  
TACAGGAGACTGGATTGGAACATTTTTGGGTCAAAAGGTGCTGTTGGGGTGAACATTGAATAAGGAT  
GCCACCAAAGCTGCGACAGCAGCTGCAGACTTCACAGCCAAAGTATGGGATGCGGTCTCAGGAGATGAAT  
TGATGACCCTGGCTCATAAGCACATTGTCAAGACTGTGGATTTACACAGGATAGCAATTACCTGCTAAC  
TGGGGGACAGGATAAACTGCTGCGCATATATGACTTGAACAAACCTGAAGCAGAACCTAAGGAAATCAGT  
GGCCACACTTCTGGTATTAAGGCTCTGTGGTGCAGTGACGATAAACAGATCCTTTCAGCGGATGATA  
AACTGTTCTGGCTCTGGGATCATGCCACAATGACAGAAGTAAATCTCTGAATTTAATATGTCTGTTAG  
CAGCATGGAGTATATTCCTGAAGGAGAGATTTGGTTACTTATGGACGATCTATTGCTTTTCATAGT  
GCAGTAAGTCTGGAGCCAATTAATCCTTTGAAGCTCCTGCGACCATCAATCTGCGTCTCTTCATCCAG  
AGAAGGAGTTTCTGTTGCGGTGGAGAAGACTTAACTGTACAAGTATGATTAAACAGTGGAGAAGA  
GTTAGAATCCTACAAAGGTCACCTTTGGTCCCATTCACTGTGTGAGATTCACTCCTGATGGGAACTCTAT  
GCCAGCGGTTCTGAAGATGGGACATTGAGATTGTGGCAAACCTGTGGTGGAAAGACCTATGGCCTGTGGA  
AATGCGTGTCTTCTGAGGAAGACAGCGGGAACTGGCAAAGCCTAAGATCGGATTTCCAGAAACAGCAGA  
GGAAGAGCTGGAAGAAATTGCTTCAGAGAATTCAGATTCCATCTATTCATCAACTCCTGAAGTTAAGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG217694 representing NM\_011499  
 Red=Cloning site Green=Tags(s)

MAMRQTPLTCSGHTRPVVDLAFSGITPYGYFLISACKDGPMLRQGDTGDWIGTFLGHKGAVWVGATLNKD  
 ATKAATAAADFTAKVWDAVSGDELMTLAHKHIVKTVDF TQDSNYLLTGGQDKLLRIYDLNKPEAEPKEIS  
 GHTSGIKKALWCSDDKQILSADDKTVRLWDHATMTEVKSLNFMNSVSSMEYIPEGEILVITYGRSIAFHS  
 AVSLEPIKSFEAPATINSASLHPEKEFLVAGGEDFKLYKYDYNSGEELESYKGFHGP IHCVRFPDGLY  
 ASGSEDGTLRLWQTVVGKTYGLWKCVLPEEDSGELAKPKIGFPETAEEEEEEIASENSDSIYSSTPEVKA

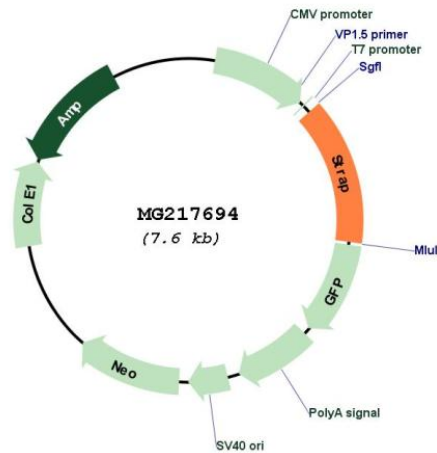
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_011499

**ORF Size:** 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_011499.3</a> , <a href="#">NP_035629.2</a>
<b>RefSeq Size:</b>	2644 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	20901
<b>UniProt ID:</b>	<a href="#">Q9Z1Z2</a>
<b>Cytogenetics:</b>	6 G1
<b>Gene Summary:</b>	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]