

## Product datasheet for **RG209149**

### Unrip (STRAP) (NM\_007178) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Unrip (STRAP) (NM_007178) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Unrip
Synonyms:	MAWD; PT-WD; UNRIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209149 representing NM_007178 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAATGAGACAGACGCCGCTCACCTGCTCTGGCCACACGCGACCCGTGGTTGATTTGGCCTTCAGTG  
GCATCACGCCTTATGGGTATTTCTTAATCAGCGCTTGCAAAGATGGTAAACCTATGCTACGCCAGGGAGA  
TACAGGAGACTGGATTGGAACATTTTTGGGTATAAAGGTGCTGTTGGGGTGAACACTGAATAAGGAT  
GCCACAAAGCAGCTACAGCAGCTGCAGATTTACAGCCAAAGTGTGGGATGCTGTCTCAGGAGATGAAT  
TGATGACCCTGGCTATAAACACATTGTCAAGACTGTGGATTTACGCGAGGATAGTAATTATTTGTTAAC  
CGGGGGACAGGATAAACTGTTACGCATATATGACTTGAACAAACCTGAAGCAGAACTAAGGAAATTAGT  
GGTCATACTTCTGGTATAAAAAAGCTCTGTGGTGCAGTGAGGATAAACAGATTCCTTCTGCTGATGACA  
AACTGTTGACTTTGGGATCATGCTACTATGACAGAAGTAAATCTCTAAATTTAATATGCTGTTAG  
TAGTATGGAATATATTCCTGAGGGAGAGATTTGGTTAACTTATGGACGATCTATTGCTTTTCATAGT  
GCAGTAAGTTGGACCAATTAATCCTTTGAAGCTCCTGCAACCATCAATTCGCATCTTTCATCCTG  
AGAAAGAATTTCTGTTGCAGGCGGTGAAGATTTAACTTTATAAGTATGATTATAATAGTGGAGAAGA  
ATTAGAATCCTACAAGGGACACTTTGGTCTATCACTGTGTGAGATTTAGTCTGATGGAGAATCTAT  
GCCAGTGGTTCAGAAGATGGAACATTGAGACTATGGCAAACGTGGTAGGAAAAACGATGGCCTTTGGA  
AATGTGTGCTTCTGAAGAAGATAGTGGTGTGAGCTGGCAAAGCCAAAGATTGGTTTTCCAGAGACAACAGA  
AGAGGAGCTAGAAGAAATTGCTTCAGAGAATTCAGATTGCATCTTTCCTCAGCTCCTGATGTTAAGGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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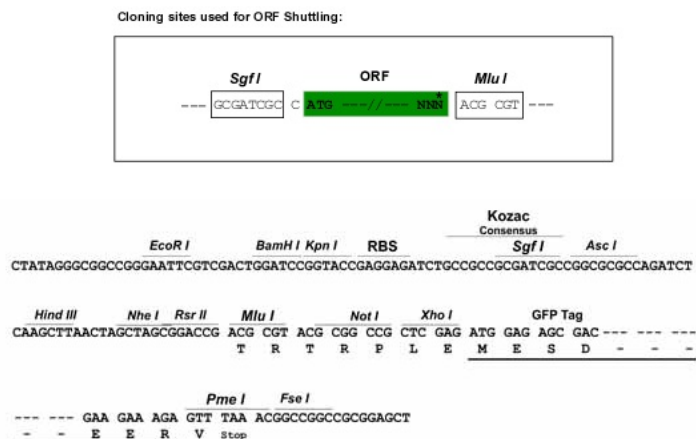
**Protein Sequence:** >RG209149 representing NM\_007178  
Red=Cloning site Green=Tags(s)

MAMRQTPLTCSGHTRPVVDLAFSGITPYGYFLISACKDGGKMLRQGDTGDWIGTFLGHKGAVWVGATLNKD  
 ATKAATAAADFTAKVWDAVSGDELMTLAHHKIVKTVDF TQDSNYLLTGGQDKLLRIYDLNKPEAEPKEIS  
 GHTSGIKKALWCSEDKQILSADDKTVRLWDHATMTEVKSLNFMNSVSSMEYIPEGEILVITYGRSIAFHS  
 AVSLDPIKSFEAPATINSASLHPEKEFLVAGGEDFKLYDYNSGEELESYKGFHFGPIHCVRFSPDGELY  
 ASGSEDGTLRLWQTVVGKTYGLWKCVLPEEDSGELAKPKIGFPETTEEELEEIASENSDCIFPSAPDVKA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007178

**ORF Size:** 1050 bp

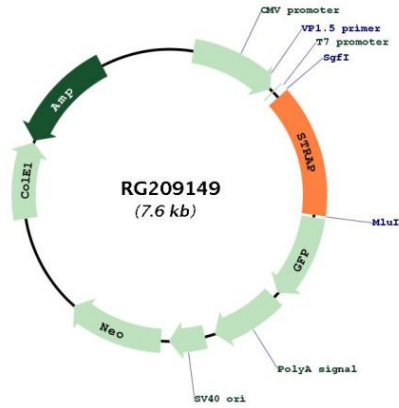
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

**OTI Annotation:** 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>	<u>NM_007178.4</u>
<b>RefSeq Size:</b>	1867 bp
<b>RefSeq ORF:</b>	1053 bp
<b>Locus ID:</b>	11171
<b>UniProt ID:</b>	<u>Q9Y3F4</u>
<b>Cytogenetics:</b>	12p12.3
<b>Domains:</b>	WD40
<b>Protein Families:</b>	Druggable Genome
<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.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RG209149