

Product datasheet for RC209149

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:	Myc-DDK
Symbol:	Unrip
Synonyms:	MAWD; PT-WD; UNRIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209149 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAATGAGACAGACGCCGCTCACCTGCTCTGGCCACACGCGACCCGTGGTTGATTTGGCCTTCAGTG
GCATCACGCTTATGGGTATTTCTTAATCAGCGCTTGCAAAGATGGTAAACCTATGCTACGCCAGGGAGA
TACAGGAGACTGGATTGGAACATTTTTGGGTCAAAAGGTGCTGTTGGGGTGAACACTGAATAAGGAT
GCCACAAAGCAGCTACAGCAGCTGCAGATTTACAGCCAAAGTGTGGGATGCTGTCTCAGGAGATGAAT
TGATGACCCTGGCTCATAAACACATTGTCAAGACTGTGGATTTACGCAGGATAGTAATTATTTGTTAAC
CGGGGGACAGGATAAACTGTTACGCATATATGACTTGAACAAACCTGAAGCAGAACTAAGGAAATTAGT
GGTCATACTTCTGGTATAAAAAAGCTCTGTGGTGCAGTGAGGATAAACAGATTCTTTCTGCTGATGACA
AACTGTTGACTTTGGGATCATGCTACTATGACAGAAGTAAATCTCTAAATTTAATATGCTGTTAG
TAGTATGGAATATATTCCTGAGGGAGAGATTTGGTTAACTTATGGACGATCTATTGCTTTTCATAGT
GCAGTAAGTTGGACCAATTAATCCTTTGAAGCTCCTGCAACCATCAATCTGCATCTTTCATCCTG
AGAAAGAATTTCTGTTGCAGGCGGTGAAGATTTAACTTTATAAGTATGATTATAATAGTGGAGAAGA
ATTAGAATCCTACAAGGGACACTTTGGTCTATCACTGTGTGAGATTTAGTCTGATGGAGAATCTAT
GCCAGTGGTTCAGAAGATGGAACATTGAGACTATGGCAAACCTGTGGTAGGAAAAACGATGGCCTTTGGA
AATGTGTGCTTCTGAAGAAGATAGTGGTGAAGCTGGCAAAGCAGAAAGATTGGTTTTCCAGAGACAACAGA
AGAGGAGCTAGAAGAAATTGCTTCAGAGAATTCAGATTGCATCTTTCCTCAGCTCCTGATGTTAAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209149 protein sequence
Red=Cloning site Green=Tags(s)

MAMRQTPLTCSGHTRPVVDLAFSGITPYGYFLISACKDGKPMRLRQDGTGDWIGTFLGHKGAVWGATLNKD
 ATKAATAAADFTAKVWDAVSGDELMTLAHKHIVKTVDF TQDSNYLLTGGQDKLLRIYDLNKPEAEPKEIS
 GHTSGIKKALWCSEDKQILSADDKTVRLWDHATMTEVKSLNFMNSVSSMEYIPEGEILVITYGRSIAFHS
 AVSLDPIKSFEAPATINSASLHPEKEFLVAGGEDFKLYKYDYNSGEELESYKGFHFGPIHCVRFSPDGELY
 ASGSEDGTLRLWQTVVGKTYGLWKCVLPEEDSGELAKPKIGFPETTEEELEEIASENSDCIFPSAPDVKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6070_e06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007178

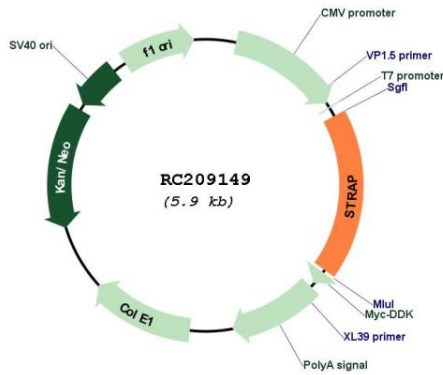
ORF Size: 1050 bp

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 or by calling 301.340.3188 option 3 for pricing and delivery.

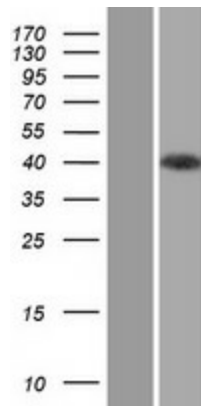
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
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:	NM_007178.4
RefSeq Size:	1924 bp
RefSeq ORF:	1053 bp
Locus ID:	11171
UniProt ID:	Q9Y3F4
Cytogenetics:	12p12.3
Domains:	WD40
Protein Families:	Druggable Genome
MW:	38.4 kDa
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.[UniProtKB/Swiss-Prot Function]</p>

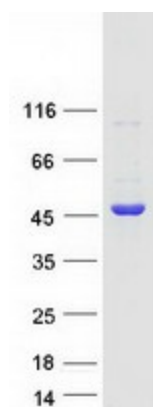
Product images:



Circular map for RC209149



Western blot validation of overexpression lysate (Cat# [LY402098]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209149 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STRAP protein (Cat# [TP309149]). The protein was produced from HEK293T cells transfected with STRAP cDNA clone (Cat# RC209149) using MegaTran 2.0 (Cat# [TT210002]).