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Product datasheet for SC115667

Unrip (STRAP) (NM_007178) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Unrip (STRAP) (NM_007178) Human Untagged Clone
Tag:	Tag Free
Symbol:	Unrip
Synonyms:	MAWD; PT-WD; UNRIP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC115667 sequence for NM_007178 edited (data generated by NextGen Sequencing)

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ATGGCAATGAGACAGACGCCGCTCACCTGCTCTGGCCACACGCGACCCGTGGTTGATTTG
GCCTTCAGTGGCATCACGCCTTATGGGTATTTCTTAATCAGCGCTTGCAAAGATGGTAAA
CCTATGCTACGCCAGGGAGATACAGGAGACTGGATTGGAACATTTTTGGGTCATAAAGGT
GCTGTTTGGGGTGCAACACTGAATAAGGATGCCACCAAAGCAGCTACAGCAGCTGCAGAT
TTCACAGCCAAAGTGTGGGATGCTGTCTCAGGAGATGAATTGATGACCCTGGCTCATAAA
CACATTGTCAAGACTGTGGATTTCACGCAGGATAGTAATTATTTGTTAACCGGGGGACAG
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GGTCATACTTCTGGTATAAAAAAAGCTCTGTGGTGCAGTGAGGATAAACAGATTCTTTCT
GCTGATGACAAAACTGTTCGACTTTGGGATCATGCTACTATGACAGAAGTGAAATCTCTA
AATTTTAATATGTCTGTTAGTAGTATGGAATATATTCCTGAGGGAGAGATTTTGGTTATA
ACTTATGGACGATCTATTGCTTTTCATAGTGCAGTAAGTTTGGACCCAATTAAATCCTTT
GAAGCTCCTGCAACCATCAATTCTGCATCTCTTCATCCTGAGAAAGAATTTCTTGTTGCA
GGCGGTGAAGATTTTAAACTTTATAAGTATGATTATAATAGTGGAGAAGAATTAGAATCC
TACAAGGGACACTTTGGTCCTATTCACTGTGTGAGATTTAGTCCTGATGGAGAACTCTAT
GCCAGTGGTTCAGAAGATGGAACATTGAGACTATGGCAAACTGTGGTAGGAAAAACGTAT
GGCCTTTGGAAATGTGTGCTTCCTGAAGAAGATAGTGGTGAGCTGGCAAAGCCAAAGATT
GGTTTTCCAGAGACAACAGAAGAGGAGCTAGAAGAAATTGCTTCAGAGAATTCAGATTGC
ATCTTTCCTTCAGCTCCTGATGTTAAGGCCTGA

Clone variation with respect to NM_007178.3
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View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_007178 unedited
TATACGACTCACTATGGGCGGCCGCGNAATTCGCACGAGNAGAGAGAGAGAGAGAGAGAG
AGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG
AGAGAGAGAGAGAGAGAGAGAGAGAGAAGACAACGACGACCCTCAGCTCGCCAGTCCG
GTCGCTGGCTTCGCCGCCGCCATGGCAATGAGACAGACGCCGCTCACCTGCTCTGGCCAC
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AGCGCTTGCAAAGATGGTAAACCTATGCTACGCCAGGGAGATACAGGAGACTGGATTGGA
ACATTTTTGGGTCATAAAGGTGCTGTTTGGGGTGCAACACTGAATAAGGATGCCACCAAA
GCAGCTACAGCAGCTGCAGATTTCACAGCCAAAGTGTGGGATGCTGTCTCAGGAGATGAA
TTGATGACCCTGGCTCATAAACACATTGTCAAGACTGTGGATTTCACGCAGGATAGTAAT
TATTTGTTAACCGGGGGACAGGATAAACTGTTACGCATATATGACTTGAACAAACCTGAA
GCAGAACCTAAGGAAATTAGTGGTCATACTTCTGGTATAAAAAAAGCTCTGTGGTGCAGT
GAGGATAAACAGATTCTTTCTGCTGATGACAAAACTGTTCGACTNTGGGATCATGCTACT
ATGACAGAAGTGAAATCTCTAAATTTAATATGTCTGGTAGTAGTATGGAATATATTCCTG
AGGAGAGATTTTGGNNTATACTATGGGCGATCTATTGCTTTTCTAGTGCAGNNAGTTTGG
ACCCATTAAAATCTTTGAAGCTCCTGCACCATCAATNTTGCATCNCTTCATCTGGAAGAA
ATTCTGGTGCGGGGGGGGAAAATTAACTTTTAGGTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_007178 unedited
NTTTTAGCTTGNACCCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGTTT
TAGAGGCATTTTATTTAGACAACTAAAAACAATTAGATGTTCAGAGGCAGTGTACAATGA
ACGAGAAATCAAACCAGTTACTTTATCATGTATTCCCTCTTCTTTACAACTGAAGCAAAA
AAAGAAAAGGCATTCTGCTTTAAGATCAGAAAAAATCAGCCAATATAGTTTTCTTCTCCA
TATTAACATAAACAGCTACAAGAACCCTAATTGTAATAATAGAAATTGGATGTTGGCTTG
TATATATTCATTAAAAAGATAACAGGCCACTGTACTATAAGAGGATAACTCCACCTCCCT
TCATCTGACACTTGAGTTTTCACTTACAGGTAACACCAAGTTAGTTAGTTGTTCCAGCAC
TGGAGCTAATTCATTTTCCTCATTATTTACTGCTGTTTCTGCCTTAAGCAGACAGTAACT
CTGGAAGGCTGATGCTTTTCTCTGCTTGCTTGTTTTAGTCAGTTGTATACTAACTGCAAC
ATATGATTGACGCTCAGGCCTTAACATCAGGAGCTGAAGGAAAGATGCAATCTGAATTCT
CTGAAGCAATTTCTTCTAGCTCCTCTTCTGTTGTCTCTGGAAAACCAATCTTTGGCTTTG
CCAGCTCACCACTATCTTCTTCAGGAAGCACACATTTCCAAAGGCCATACGTTTTTCCTA
CCACAGTTTGCCATAGTCTCAATGTTCCATCTTCTGAACCACTGGCATAGAGTTCTCCAT
CAGGACTAAATCTCACACAGTGAATAGGACCAAAGTGTCCCTTGTAGGATNCTAATTCTT
CTCCACTATTATAATCATACTTATAAAGNTTAAAAATCTCACGCCTGGCACAAGAAATTT
TTNCTCAGA

Restriction Sites: NotI-NotI

ACCN: NM_007178

Insert Size: 2940 bp

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:	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_007178.2, NP_009109.2
RefSeq Size:	1867 bp
RefSeq ORF:	1053 bp
Locus ID:	11171
UniProt ID:	Q9Y3F4
Cytogenetics:	12p12.3
Domains:	WD40
Protein Families:	Druggable Genome
Gene Summary:	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]