

Product datasheet for RC217676

WTIP (NM_001080436) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WTIP (NM_001080436) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WTIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217676 representing NM_001080436 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGCGCTCCAGGGCGGGCGCGGACGAGGCGGCCCTACTCCTGGCCGGGCTGGCCCTGCGGGAGCTGG
AGCCCCGGGTGCGGCTCTCCCGGTGCGGGGCGCGGGGGCCCGCGGCTGGGCTGGAGACGAGGCGGGCGCC
CGCGCTGGGCGCAGAGGGAAGGGCAGCGCGGCCCGGAGGCCGGGGCGGACGGACTGAGCCGCGGGGAG
CGGGGTCCCCGGCGCGCGCGGTTCGGAGCTCAGCGCGCAGCCTGCGGGCAGCCACGGCCAGCCTGG
CGGGTCCGACGGCGCGCGGTGGCGGCAGCGCCGATCCAGCGGCATCAGCCTGGCTACGACCAGCG
CCACGGCAGCCCCGCGCTCCGGTCTCGGACCCGCGTCCCGTCCCGGGCCGCTTCGGTGGGCAGCGCC
CGCTCCAGCGTTTCCAGCCTCGGCTCCCGGGGCTCGGCCGGCGCCTACGCTGACTTCCTCCCGCCCGCG
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GCCCCCTGGCCGGGAGGGCGGCCAAGCGCGGCCGAGCGCGGCTGGAGGCGCTACCCGGGAGCTGGAG
CGGGCGCTCGAGGCGCGCACGGCGGGACTACTTCGGCATTGTCATCAAGTGTGGGCTTGGCATCTACG
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GAGACGACTCCGTGGGAAGGCGTTCTACAACGTGGGTGAGAAAGTGTACTGCCAGGAGACTTCTGTAC
TCCGGTTCCAGCAGACGCGCCGACAAATGCAGCGTGTGTGACATCTCATGAAATGATCCTGCAGG
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GCCTCCTGTGCCGCTCTATCCTCCCTGCACAGGGCTGCGAGACAACCATCCGTGTGGTGTCCATGGACA
GAGACTACCACGTGGCATGTTACCCTGTGAGGACTGCGGGTGCAGCTGAGCGGGGAGGAGGGACGCCG
TTGCTATCCCCTGGCGGGCCACCTACTGTGTCGCTGTTGCCACCTGCGGCGCCTCCAACCTGGGCCCTT
CCCTCACCACTGTGCACGTCCTGAGCTC

ACGCGTACGCGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC217676 representing NM_001080436
Red=Cloning site Green=Tags(s)

MQRSRAGADEAALLLAGLALRELEPGCGSPGRRRGPRPGDEAAPALGRRGKSGGPEAGADGLSRGE
 RGPRAAVPELSAQPAGSPRASLAGSDGGGGGSARSSGISLGYDQRHGSPRSGRSDPRPGPPSVGSA
 RSVSSLSGRGSAGAYADFLPPGACAPAPARSPEPAGPAPFPLPALPLPPGREGGPSAAERRLEALTRELE
 RALEARTARDYFGICIKCGLGIYGAQQACQAMGSLYHTDCFTCDSCGRRRLRGKAFYNVGEKVYQCEDFLY
 SGFQQTADKCSVCGHLIMEMILQALGKSYHPGCFRCSVCNECLDGVPTVDVENNIYCVRDYHTVFPKC
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 PSPTVHVTEL

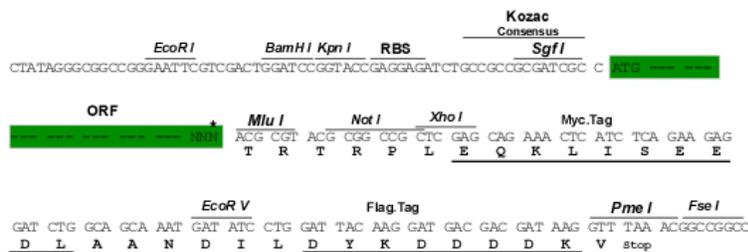
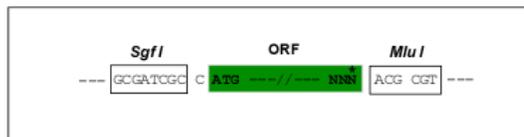
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8015_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001080436

ORF Size: 1290 bp

OTI Disclaimer: 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001080436.2](#)

RefSeq Size: 2204 bp

RefSeq ORF: 1293 bp

Locus ID: 126374

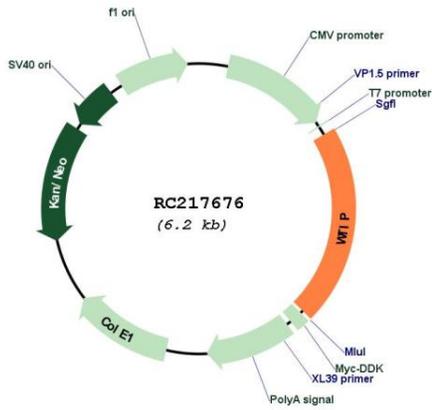
UniProt ID: [A6NIX2](#)

Cytogenetics: 19q13.11

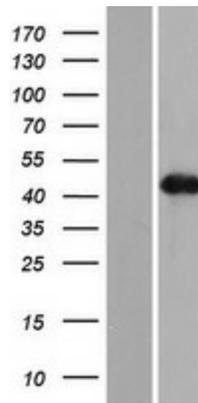
MW: 44.9 kDa

Gene Summary: Adapter or scaffold protein which participates in the assembly of numerous protein complexes and is involved in several cellular processes such as cell fate determination, cytoskeletal organization, repression of gene transcription, cell-cell adhesion, cell differentiation, proliferation and migration. Positively regulates microRNA (miRNA)-mediated gene silencing. Negatively regulates Hippo signaling pathway and antagonizes phosphorylation of YAP1. Acts as a transcriptional corepressor for SNAI1 and SNAI2/SLUG-dependent repression of E-cadherin transcription. Acts as a hypoxic regulator by bridging an association between the prolyl hydroxylases and VHL enabling efficient degradation of HIF1A. In podocytes, may play a role in the regulation of actin dynamics and/or foot process cytoarchitecture (By similarity). In the course of podocyte injury, shuttles into the nucleus and acts as a transcription regulator that represses WT1-dependent transcription regulation, thereby translating changes in slit diaphragm structure into altered gene expression and a less differentiated phenotype. Involved in the organization of the basal body (By similarity). Involved in cilia growth and positioning (By similarity).[UniProtKB/Swiss-Prot Function]

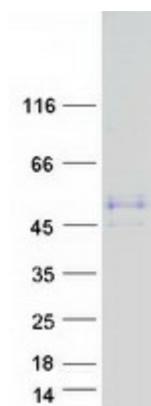
Product images:



Circular map for RC217676



Western blot validation of overexpression lysate (Cat# [LY421653]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217676 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified WTIP protein (Cat# [TP317676]). The protein was produced from HEK293T cells transfected with WTIP cDNA clone (Cat# RC217676) using MegaTran 2.0 (Cat# [TT210002]).