

Product datasheet for **SC323510**

WEE1 (NM_003390) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WEE1 (NM_003390) Human Untagged Clone
Tag:	Tag Free
Symbol:	WEE1
Synonyms:	WEE1A; WEE1hu
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323510 sequence for NM_003390 edited (data generated by NextGen Sequencing)

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ATGAGCTTCTGAGCCGACAGCAGCCGCCACCCCGCCGCGCCGGGGCGGCCTGCACC
TTGCGGCAGAAGCTGATCTTCTCGCCCTGCAGCGACTGTGAGGAGGAGGAAGAAGAGGAG
GAGGAGGAGGGCAGCGGCCACAGCACCCGGGAGGACTCGGCCTTCAAGAGCCCGACTCG
CCGCTGCCGCCCGCGCGGAGCCCCACGGAGCCCGGGCCGAGCGCCCGCTCGCCCGGG
CCGGCCCCCGGGAGCCCCGGCGAGCTGGAGGAGACCTGTTGCTGCCCGCGCCTGCCCG
GGCGCGGACGAGCGGGCGGTGGGGCGGAGGGCGACTCGTGGGAGGAGGAGGGCTTCGGC
TCCTCGTCGCGCGTCAAGTCGCCGGCGGCCCTACTTCTGGGTAGCTTTTCTCGCCG
GTGCGCTGCGGGGCCAGGAGATGCGTCGCCGCGGGGTTGCGGGGCGCGCCGGCGGGC
GAAGGCCCGCGCTCGCCGCGCCGACCACCCGGGCACCCGCCACACAAGACCTTCCGC
AAGCTGCGACTCTTGACACCCCGCACACGCCAAGAGTTTGTCTCCAAAGCTCGGGGA
ATTGATCCAGCTCTGTTAAACTCCGGGTAGTTCTCTTTCATGGATACAGAAAAATCA
GGAAAAAGGGAATTTGATGTGCGACAGACTCCTCAAGTGAATATTAATCCTTTTACTCCG
GATTCTTTGTTGCTTCATTCCTCAGGACAGTGTGTCGTAGAAAAGAGAACGTATTGGAAT
GATTCTGTGGTGAAGACATGGAAGCCAGTGATTATGAGCTTGAAGATGAAACAAGACCT
GCTAAGAGAATTACAATTAAGCAATATGAAGTCCCGGTATACAACAGAATTTTCAT
GAGCTAGAGAAAAATCGGCTCTGGAGAATTTGGTTCTGTATTTAAGTGTGTGAAGAGGCTG
GATGGATGCATTTATGCCATTATGCGATCAAAAAAGCCATTGGCGGGCTCTGTTGATGAG
CAGAACGCTTTGAGAGAAGTATATGCTCATGCAGTGTGGACAGCATTCTCATGTAGTT
CGATATTTCTCTGCGTGGCAGAAAGATGATCATATGCTTATACAGAATGAATATTGTAAT
GGTGAAGTTAGCTGATGCTATAAGTAAAACTACAGAATCATGAGTTACTTTAAAGAA
GCAGAGTTGAAGGATCTCCTTTTGAAGTTGGCCGAGGCTTGAGGTATATTCAATCAATG
TCTTTGGTTCACATGGATATAAAACCTAGTAATATTTTCATATCTCGAACCTCAATCCCA
AATGCTGCCTCTGAAGAAGGAGACGAAGATGATTGGGCATCCAACAAAGTTATGTTTAAA
ATAGGTGATCTTGGGCATGTAACAAGGATCTCCAGTCCACAAGTTGAAGAGGGCGATAGT
CGTTTTCTTGCAATGAAGTTTTACAGGAGAATTATACCCATCTACAAAAGCAGATATT
TTTGGCTTGGCCTCACAGTGGTATGTGCTGCTGGTGTGAACCTCTCCGAGAAATGGA
GATCAATGGCATGAAATCAGACAGGGTAGATTACCTCGGATACCACAAGTCTTTCCCAA
GAATTTACAGAGTTGCTAAAAGTTATGATTCATCCAGATCCAGAGAGAAGACCTTCAGCA
ATGGCACTGGTAAAGCATTCAAGTATTGCTGTCCGCTTCTAGAAAAGAGTGCAGAACATTA
CGAATAGAAATGAAATGCCGAAAAGTTCAAAAATCACTTTTACAAAAGAACTCAAGAAA
GCACAGATGGCAAAGCTGCAGCTGAGGAAAGAGCACTTCACTGACCCGGATGGCCACT
AGGTCCACCACCCAGAGTAATAGAACATCTCGACTTATTGGAAAGAAAATGAACCGCTCT
GTCAGCCTTACTATATACTGA
    
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Clone variation with respect to NM_003390.3
 252 c=>g;983 a=>t

5' Read Nucleotide Sequence:

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>OriGene 5' read for mutant NM_003390 unedited
CCCGCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTGTGAA
CCGTGAGAATTTTGAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGCCGCCCTCT
GCCGAAAGTCCGCGCCCGCTGCCGCCACCGTCCGACCCGAGCGCCCGGAGCCGAGCCGCCCGC
CGCGCAGAGACGCCGCGCTGCGACTAGGCGGCCAGCCGCACGTGGCGGACCCGCCCCAGGCCCGC
AGTGTCTGGACCCCGCAGGCCTCGCTCTCCTGTCCCTCGGCCCGTCCCAGGGCCCGCGATGAGCTT
TCCTGAGCCCAGCAGCCCGCCGCCACCCCGCCCGCCGGGGCGGCTGCACCTTGGCGGGGAG
CCTGATTTCTTCTCGCCCTGCAGCCGACTGGTGAAGGAGGGAAGAAGAGGAGGAGGAGGAGGACC
GGCCACAGACCGGAAGGCTTCGGCCTTCAAGACCAACTGCCGTTGCGCCGGCCGAGCCCGGACCCGG
GCCAAGCCCGCTTCGCCGGCCGGCCGGGGACCCGGAAGTGGAGAGACGTGTGTGCG
    
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Kinase Domain Sequence:	>SC323510 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CCGGCTWACACAGATTTTCATGAGCTAGAGAAAATCGGCTCTGGAGAATTTGGTTCTGTATTTAAGTGTGT GAAGAGGCTGGATGGATGCATTTATGCCATTATGCGATCAAAAAGCCATTGGCGGGCTCTGTTGATGAG CAGAACGCTTTGAGAGAAGTATATGCTCATGCAGTGCTTGGACAGCATTCTCATGTAGTTTCGATATTTCT CTGCGTGGGCAGAAGATGATCATATGCTTATACAGAATGAATATT
Restriction Sites:	Please inquire
ACCN:	NM_003390
Insert Size:	3670 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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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_003390.2 , NP_003381.1
RefSeq Size:	4232 bp
RefSeq ORF:	1941 bp
Locus ID:	7465
UniProt ID:	P30291
Cytogenetics:	11p15.4
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
Protein Pathways:	Cell cycle

Gene Summary:

This gene encodes a nuclear protein, which is a tyrosine kinase belonging to the Ser/Thr family of protein kinases. This protein catalyzes the inhibitory tyrosine phosphorylation of CDC2/cyclin B kinase, and appears to coordinate the transition between DNA replication and mitosis by protecting the nucleus from cytoplasmically activated CDC2 kinase. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).