

## Product datasheet for RC227504

### WEE1 (NM\_001143976) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	WEE1 (NM_001143976) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	WEE1
Synonyms:	WEE1A; WEE1hu
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC227504 representing NM_001143976 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATACAGAAAATCAGGAAAAGGGAATTTGATGTGCGACAGACTCCTCAAGTGAATATTAATCCTT  
TACTCCGGATCTTTGTTGCTTATTCCCTCAGGACAGTGTGTCGTAGAAAAGAGAACGTATTGGAATGA  
TTCTGTGGTGAAGACATGGAAGCCAGTGATTATGAGCTTGAAGATGAAACAAGACTGCTAAGAGAATT  
ACAATTACTGAAAGCAATATGAAGTCCCGGTATACAACAGAATTCATGAGCTAGAGAAAATCGGCTCTG  
GAGAATTTGGTTCTGTATTTAAGTGTGTGAAGAGGCTGGATGGATGCATTTATGCCATTAAGCGATCAAA  
AAAGCCATTGGCGGGCTCTGTTGATGAGCAGAAGCTTTGAGAGAAGTATATGCTCATGCAGTGCTTGG  
CAGCATTCTCATGTAGTTCGATATTTCTCTGCGTGGGCAGAAGATGATCATATGCTTATACAGAATGAAT  
ATTGTAATGGTGAAGTTTAGCTGATGCTATAAGTAAAACACAGAATCATGAGTTACTTTAAAGAAGC  
AGAGTTGAAGGATCTCCTTTTGAAGTTGGCCGAGGCTTGAGGTATATTCATTCAATGTCTTTGGTTTAC  
ATGGATATAAAACCTAGTAATATTTTATATCTCGAACCTCAATCCCAAATGCTGCCTCTGAAGAAGGAG  
ACGAAGATGATTGGGCATCCAACAAAGTTATGTTTAAAATAGGTGATCTTGGGCATGTAACAAGGATCTC  
CAGTCCACAAGTTGAAGAGGGCGATAGTCGTTTTCTTGCAAATGAAGTTTTACAGGAGAATTATACCCAT  
CTACAAAAGCAGATATTTTTGCGCTTGCCTCACAGTGGTATGTGCTGCTGGTGTGAACCTCTCCGA  
GAAATGGAGATCAATGGCATGAAATCAGACAGGGTAGATTACCTCGGATACCACAAGTGCTTTCCCAAGA  
ATTTACAGAGTTGCTAAAAGTTATGATTCATCCAGATCCAGAGAGAAGACCTTCAGCAATGGCACTGGTA  
AAGCATTAGTATTGCTGTCGCTTCTAGAAAAGAGTGCAGAACAATTACGAATAGAATTGAATGCCGAAA  
AGTTCAAAAATTCATTTTACAAAAGAAGTCAAGAAAGCACAGATGGCAAAAAGCTGCAGCTGAGGAAA  
AGCACTTCTCACTGACCGGATGGCCACTAGGTCCACCACCCAGAGTAATAGAACATCTCGACTTATTGGA  
AAGAAAATGAACCGCTCTGTCAGCCTTACTATATAC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC227504 representing NM\_001143976  
Red=Cloning site Green=Tags(s)

MDTEKSGKREFDVRQTPQVINPFTPDSLLLHSSGQCRRRKRTYWNDSGCEDEMEASDYELEDETRPAKRI  
 TITESNMKSRYTTEFHELEKIGSGEFGSVFKCVKRLDGCIIYAIKRSKKPLAGSVDEQNALREVVYAHAVLG  
 QHSHVVRYFSAWAEDDHMLIQNEYCNGGSLADAI SENYRIMSYPFKEALKDLLLQVGRGLRYIHSMSLVH  
 MDIKPSNIFISRTSIPNAASEEGDEDDWASNKVMFKIGDLGHVTRISSPQVEEGDSRFLANEVLQENYTH  
 LPKADIFALALTVVCAAGAEPLPRNGDQWHEIRQGRLPRIPQVLSQEFTELLKVMIHDPERRPSAMALV  
 KHSVLLSASRKSAEQLRIELNAEKFNSSLQKELKKAQMAKAAAEERALFTDRMATRSTTQSNRTSRLIG  
 KKMNRVSLTIY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

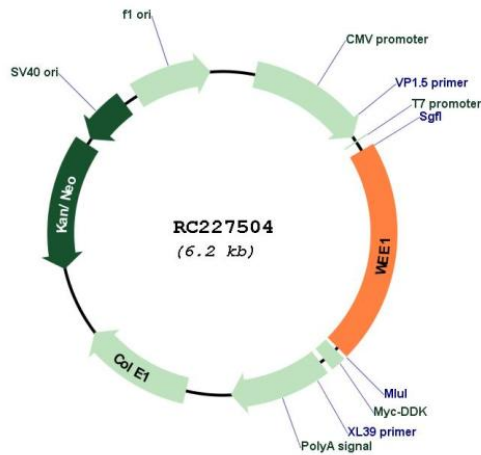
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001143976

<b>ORF Size:</b>	1296 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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>	<a href="#">NM_001143976.1</a> , <a href="#">NP_001137448.1</a>
<b>RefSeq Size:</b>	3234 bp
<b>RefSeq ORF:</b>	1299 bp
<b>Locus ID:</b>	7465
<b>UniProt ID:</b>	<a href="#">P30291</a>
<b>Cytogenetics:</b>	11p15.4
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
<b>Protein Pathways:</b>	Cell cycle
<b>MW:</b>	49.1 kDa
<b>Gene Summary:</b>	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]