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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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC227504 representing NM_001143976
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATACAGAAAAATCAGGAAAAAGGGAATTTGATGTGCGACAGACTCCTCAAGTGAATATTAATCCTT
TTACTCCGGATTCTTTGTTGCTTCATTCCTCAGGACAGTGTCGTCGTAGAAAGAGAACGTATTGGAATGA
TTCCTGTGGTGAAGACATGGAAGCCAGTGATTATGAGCTTGAAGATGAAACAAGACCTGCTAAGAGAATT
ACAATTACTGAAAGCAATATGAAGTCCCGGTATACAACAGAATTTCATGAGCTAGAGAAAATCGGCTCTG
GAGAATTTGGTTCTGTATTTAAGTGTGTGAAGAGGCTGGATGGATGCATTTATGCCATTAAGCGATCAAA
AAAGCCATTGGCGGGCTCTGTTGATGAGCAGAACGCTTTGAGAGAAGTATATGCTCATGCAGTGCTTGGA
CAGCATTCTCATGTAGTTCGATATTTCTCTGCGTGGGCAGAAGATGATCATATGCTTATACAGAATGAAT
ATTGTAATGGTGGAAGTTTAGCTGATGCTATAAGTGAAAACTACAGAATCATGAGTTACTTTAAAGAAGC
AGAGTTGAAGGATCTCCTTTTGCAAGTTGGCCGAGGCTTGAGGTATATTCATTCAATGTCTTTGGTTCAC
ATGGATATAAAACCTAGTAATATTTTCATATCTCGAACCTCAATCCCAAATGCTGCCTCTGAAGAAGGAG
ACGAAGATGATTGGGCATCCAACAAAGTTATGTTTAAAATAGGTGATCTTGGGCATGTAACAAGGATCTC
CAGTCCACAAGTTGAAGAGGGCGATAGTCGTTTTCTTGCAAATGAAGTTTTACAGGAGAATTATACCCAT
CTACCAAAAGCAGATATTTTTGCGCTTGCCCTCACAGTGGTATGTGCTGCTGGTGCTGAACCTCTTCCGA
GAAATGGAGATCAATGGCATGAAATCAGACAGGGTAGATTACCTCGGATACCACAAGTGCTTTCCCAAGA
ATTTACAGAGTTGCTAAAAGTTATGATTCATCCAGATCCAGAGAGAAGACCTTCAGCAATGGCACTGGTA
AAGCATTCAGTATTGCTGTCCGCTTCTAGAAAGAGTGCAGAACAATTACGAATAGAATTGAATGCCGAAA
AGTTCAAAAATTCACTTTTACAAAAAGAACTCAAGAAAGCACAGATGGCAAAAGCTGCAGCTGAGGAAAG
AGCACTCTTCACTGACCGGATGGCCACTAGGTCCACCACCCAGAGTAATAGAACATCTCGACTTATTGGA
AAGAAAATGAACCGCTCTGTCAGCCTTACTATATAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227504 representing NM_001143976
Red=Cloning site Green=Tags(s)

MDTEKSGKREFDVRQTPQVNINPFTPDSLLLHSSGQCRRRKRTYWNDSCGEDMEASDYELEDETRPAKRI
TITESNMKSRYTTEFHELEKIGSGEFGSVFKCVKRLDGCIYAIKRSKKPLAGSVDEQNALREVYAHAVLG
QHSHVVRYFSAWAEDDHMLIQNEYCNGGSLADAISENYRIMSYFKEAELKDLLLQVGRGLRYIHSMSLVH
MDIKPSNIFISRTSIPNAASEEGDEDDWASNKVMFKIGDLGHVTRISSPQVEEGDSRFLANEVLQENYTH
LPKADIFALALTVVCAAGAEPLPRNGDQWHEIRQGRLPRIPQVLSQEFTELLKVMIHPDPERRPSAMALV
KHSVLLSASRKSAEQLRIELNAEKFKNSLLQKELKKAQMAKAAAEERALFTDRMATRSTTQSNRTSRLIG
KKMNRSVSLTIY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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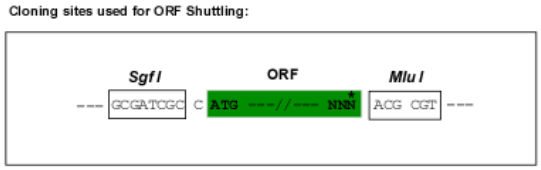
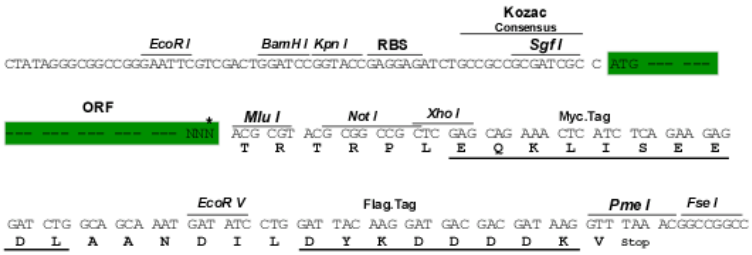
Cloning Scheme:





* The last codon before the Stop codon of the ORF

ACCN: NM_001143976

ORF Size: 1296 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.

RefSeq: NM_001143976.1, NP_001137448.1

RefSeq Size: 3234 bp

RefSeq ORF: 1299 bp

Locus ID: 7465

UniProt ID: P30291

Cytogenetics: 11p15.4

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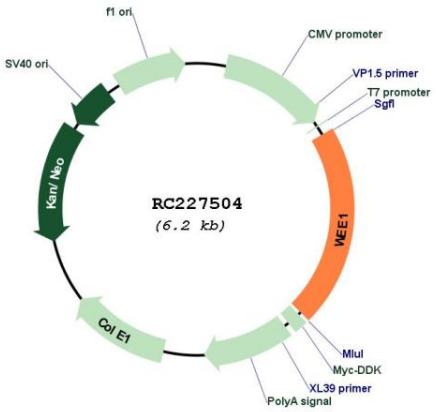
Protein Families:	Druggable Genome, Protein Kinase, Stem cell - Pluripotency
Protein Pathways:	Cell cycle
MW:	49.1 kDa
Gene Summary:	This gene encodes a nuclear protein, which is a tyrosine kinase belonging to the Ser/Thr family of protein kinases. This protein catalyzes the inhibitory tyrosine phosphorylation 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]

Product images:



Circular map for RC227504

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