

Product datasheet for **RN202092**

Wee1 (NM_001012742) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wee1 (NM_001012742) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Wee1
Synonyms:	MGC105683
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN202092 representing NM_001012742
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTTCCTGAGCCGACAGCAGCCGCCACCCCGCGCCGAGCCGCTGCAGTTGCGGCAGA
 AGCTCATCTTCTACCCGCGAGCGATTGTGAGGAGGAAGAGGAGGAGGAGGAAGGCAGCGGCCACAG
 TACGGGGGAGGACTCGGCCTTCCAGGAGCCTGATTGCGCCGCTGCCCTCTGCACGCAGCCCTGCCAGGCC
 GAGGCCGAGCGCCGCGCGCTCGCCCGCGCGGAGCCAGCAGCCGGGAGAGCTGGAGGAGGACTTGC
 TGCTGCGGGGCGCGGGGGCGCAAGCGCGGGCGGAGGAGCCGAGGGCGACTCTTGGGAGGAGGA
 GGGTTTCGGCTCTTCGTCGCCCTCAAGTCACTACGACTGCCTACTTTCTGGCAGCTCGTTCTCGCCG
 GTGCGTGCGGCGGCCCTGGGGATGCCTCCCCGCGGGGCTCGGGGTCCCAGGAGCCATGGACGACCCT
 GTTCTCCGAGCCGACTACCCGAGCACCCTCCGCACAAGACCTCCGCAAGTTGCGCCTGTTGACAC
 GCCGCACACTCCAAGAGTTTGCTTTCAAAGCTCGAGTTATTGATTCCAGCTCTGTTAACTCCGGGT
 AGTTCTCTATTATGACTGAAATCAGGAAAAGAGAATTCGACACACGGCAAACCTCAAGTGA
 ATATTAACCCCTTACTCCGGATCCTGTATGCTTCATTCTCAGGACAGTGTCTGGGAGAAAAGAGAGC
 ATATTTAATGATTCTCTGAAGACATGGAAGCCAGTGATTATGAGTTTGAAGATGAAACAAGACCTGCC
 AAAAGAATTACAATTACTGAAAGCAATGAAGTCACGATATACTGAATTTTCATGAGCTGGAGAAAA
 TTGGTTCTGGAGAATTTGGTTCTGTGTTAAATGTGTGAAGAGGCTAGATGGATGCATTTATGCCATTA
 ACGATCAAAAAGCCATTGGCTGGCTCTGTTGATGAACAGAATGCTTTGAGAGAAGTGTATGCTCATGCT
 GTGCTTGGACAGCATCCCATGTGGTTCGTTATTTCTGCGCTGGCAGAAGATGACCATATGCTTATAC
 AGAATGAATACTGTAATGGTGGGAGTTTAGCTGACGCTGTAAGTGAGAACTACAGAGTCATGAGCTACTT
 TACTGAAGCAGAGCTGAAGGATCTCCTTTTGAAGTTGGCAGGGGCTTGAGATACATACATTCAATGTCT
 TTGGTTCACATGGATATAAAACCTAGTAATATTTTATATCTCGAACCTCAATCCCAAATGCAGTCTCTG
 AAGAAGGAGATGAAGATGACTGGATATCCAACAAAGTTATGTTTAAAATAGGTGATCTTGGGCATGTAAC
 AAGAATCTCTAGTCCACAAGTTGAAGAAGGTGATAGTCGTTTTCTAGCAAATGAAGTTTTACAAGAGAAC
 TATAGCCATCTACCGAAAGCAGATATTTTGTCTTGTCTCACAGTCGATGTGCTGCTGGTGTGAAC
 CCCTTCCAGAAATGGAGACCAGTGGCATGAAATCCGACAGGGTTCGATTACCTCGGATCCACAAGTGT
 TCCCAGGAGTTGACAGAGTTGCTAAAAGTTATGATTTCATCTGATCCAGAGAGAAGACCTCAGCAATG
 GTGCTGGTGAAGCATTAGTGTGCTGTCTGCCTTAGAAAGAGCGCAGAGCAGTTACGAATAGAATTGA
 ATGCTGAAAAATCAAAAATTCTTTTTGCAGAAAGAACTCAAGAAAGCCCAAATGGCAGCCAAAGTTGC
 AGCTGAGGAACGGGCACTCCTCACAGATCGGATGGCCACTAGATCTACCACCCAGAGTAATAGAACTTCT
 CGACTATTGGAAAGAAAATGAACCGCTCTGTCAGCCTTACTATATACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001012742
- Insert Size:** 1941 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_001012742.1](#), [NP_001012760.1](#)

RefSeq Size: 3305 bp

RefSeq ORF: 1941 bp

Locus ID: 308937

UniProt ID: [Q63802](#)

Cytogenetics: 1q33

Gene Summary: Acts as a negative regulator of entry into mitosis (G2 to M transition) by protecting the nucleus from cytoplasmically activated cyclin B1-complexed CDK1 before the onset of mitosis by mediating phosphorylation of CDK1 on 'Tyr-15'. Specifically phosphorylates and inactivates cyclin B1-complexed CDK1 reaching a maximum during G2 phase and a minimum as cells enter M phase. Phosphorylation of cyclin B1-CDK1 occurs exclusively on 'Tyr-15' and phosphorylation of monomeric CDK1 does not occur. Its activity increases during S and G2 phases and decreases at M phase when it is hyperphosphorylated. A correlated decrease in protein level occurs at M/G1 phase, probably due to its degradation (By similarity). [UniProtKB/Swiss-Prot Function]