

## Product datasheet for **MC205607**

### Wee1 (NM\_009516) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wee1 (NM_009516) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Wee1
Synonyms:	Wee1A
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

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>BC006852
CGGACGCGTGGGCGGACGCGTGGGGGAAGCCGCGGAACCCGAACCTTGC GGACGAACTTGC GGAGCCTTT
CGCCAGCACTGGACCGGCCAGTCTCCGCTGGACATCCC GCGCCG CAGCCGTCGCCGTCGCCCCGTCGTGA
GCTTGACGGGCCTCGGAGTTGCCGCCGCGCAGGCCCGCTGCAGCCTCAGCCCGCGCGCCCGATCGCACG
TGGCGGACCCGCCCTGTGCCAGCCGCGACCTGGACGCCCGCGGCTCTGCTCGCCGTCCTGTGTTCT
CCCGTGCTCCGCGTGACTGCAGCCGGAAATGAGCTTCTGAGCCGACAGCAGCCGCGCCACCCGCC
CGGTAGGAGCCGCTTACAGTCTGCGGCAGAAGCTCATCTTCTCGCCGGCAGCGACTGTGAGGAAGAGGA
GGAGGAGGAGGAGGAAGGCAGCGGCCACAGTACGGGGGAGGACTCGGCCCTTCCAGGAACCGGATTGCCCC
CTGCCCTTCTGCACGCAGCCCTGCCGAGGCCGAGGCCGAGCGCCGCTCGCTCGCCCGCGCGGAGCCCA
GCAGCCCGGAGAGCTGGAGGACGACTTGTGCTGCAGGGCGCGCGGAGGCCGCAAGCGCGGGTGG
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GACCTTCCGCAAGCTGCGCCTGTTGCACACGCCGACACTCCCAAGATTTGCTTTCAAAGCGCGAGTT
ATTGATTCGGCTCTGTTAAACTCCGGGTAGTTCTCTATTTCATGGACACAGAAAAGTCAGAAAAAGAG
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ATACAAC TGAATTTATGAGCTGGAGAAAATTTGGTTCTGGAGAATTTGGTTCTGTGTTTAAATGTGTGAA
GAGGTTAGATGGATGCATTTATGCCATTAACGATCAAAAAACCATTTGGCTGGCTCTGTTGATGAGCAG
AATGCTTTGAGAGAAGTGTATGCTCACGCTGTGCTTGGACAGCACCCCGCTGTTGCTATTTCTCTG
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TCACAGTCGATGTGCTGCTGGTGTGAACCCCTTCCAGAAATGGAGAGCAGTGGCAGGAGATCCGGCA
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CCTGACCCAGAGAGAAGGCCCTTACGAATGAGCTGGTGAAGCATTGAGTGTGTTGCTGCATCTAGAA
AGAGCGCAGAGCAGTTACGAATAGAATTGAATGCTGAAAAATTCAAAAATCTCTTTTGCAGAAAGAACT
CAAGAAAGCCCAATGGCAGCCAAAGTTGACAGCTGAGGAACGGGCACTTTCACAGATCGGATGGCCACT
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GTAACGCTTCTGTGACTTTGAGAATTACAGTTGAGAGCTGTATTCTGACTTGGCTCTGTGAGGCTTTTG
TCTCATCTCCCGTCTGTTTCATGTAGGATGTGGGTCAGTGTGGATGTCCAGCCCCCTTGGCGGGTGC
GCCACTGTGGTGGTGTGCTGCTTCTCATTCACTGTTGCAGTGTGGTGAAGGTGTCTTCTGGTTGTGA
CCTCTAGAAAAGGACTCAAGGGCTTACTGCGAACATCCTCTCCCTTCAAAAAGGGAAATGCTCAGAGACT
CAGTACTCCTCTGCCTCCAATGTACCTGTGTGAGTCTTGCCTTTCTTTTTCTATGTGAATTACACTTGT
ATATCCAAC TGGGAGCACTTTAGGCATCGTGTGCCCATGGGATGGTCATTCTGTGGAGGCTTGCCTTG
TGAATTTGCTGCTATTTTAGTTTCTCTTGTGTA AAACTAGCATTAAACAATCATTGTTGTTAATAGGC
TTTTTTT CAGAACAATTAATGTAATAATAGCTGCTTTCATGAAAAGCAGCTTCGCATCTTTTTCTTT
GGACTTTGAACTACTGCATTGAAAAAGTGACCTACCCCTCCCTGTTGGATGCTGATTAATGTAGTA
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TCAAGTCTTGTACTTGGTTGATGGTTAGCCTATTTTTAAATGTTTTGCCAGTTTCTCTCAATATTTG
TGTATATAAACTGATCTTGGTAATACTGTACATAGCTGTTTAAAAATACCAGAATGACTTCTGACTATTC
CAAGTTTTCCACAAAATACATTTTACCTGTGAATAGCCATTTGACTAACAAATTTGGCTAGTAGATGCT
GCCCTCCAAAAGGAGGAAATGTCTCACTTGTCTTCTATTAACCTTTGGTCTGAAACACATTTGCACTTG
TCTGTTTGACTTGTGCTTATTAACATTGTCTGGTGTATAAAAGTCATTCCGTGCTTACCTTAAAAAAA AAAAAAA
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**Restriction Sites:**

RsrII-NotI

<b>ACCN:</b>	NM_009516
<b>Insert Size:</b>	1941 bp
<b>OTI Disclaimer:</b>	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).
<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="#">BC006852</a> , <a href="#">AAH06852</a>
<b>RefSeq Size:</b>	3438 bp
<b>RefSeq ORF:</b>	1941 bp
<b>Locus ID:</b>	22390
<b>UniProt ID:</b>	<a href="#">P47810</a>
<b>Cytogenetics:</b>	7 E3
<b>Gene Summary:</b>	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]