

Product datasheet for **MC201865**

Wee2 (NM_201370) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wee2 (NM_201370) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Wee2
Synonyms:	Gm1065; Wee1B
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC052883 sequence for NM_201370
AAGAGGTAATCCGAAGTGGCAAGTGATGTGACGCGAGGAAGGGAGAAGTACTGACCTACTCGGAGGCGGTGGG
GAAAGGATCAGATCACCTGGTTCCTGCTTGTAAACCAAGAACCTGCTCCTGGGCTCAGAATTTAGCTG
ATGGTGACTTCTCTGTTGGTAACCTGTGCCTTCCCTTCCCTTGGATGGTTTTTTATGGCCACCCGTGGAA
CGCTGAGCCTCTGACAAAGATTTATAGTGTTCCTACTCCGAGACCTCCTGTCTGCACTGAGATGGCCG
ACACAGAGACTGACCAGGGACTGAACAAGAAATTAAGCTTCTCCTTTTGTGAAGAAGACTGAGAGTGA
AGGGCAGATGACTGCACAAGACATCGGAGGGGCCAGAGCCAAAAGCCTGGGAGGGAAGAAAGTGAAGGAG
TTGGAGGGTCCCGTGCCTCCTACCAAGAGATGAACTTCATCTTCTCTGAGCAGAGACAAGGGAAGTCCAG
GTCCTGATCTTTGAAATCAGTTTCAGGCCCTCCCAAATGCCAGAGACACCAAGTATTACACAGCAAGAG
CAAGCCGCCAGTCCCTACCAACTTCTCCACTCCCAAAAATTCGCTGGGTGAGCCAGAGATTTCTCTGCTA
GAGAAGCTCTCCTCCGAAGCTCTAGACATATGAGGCTCACACCTGCTTCCCTTGTGGATGAGAAGACCT
CTTTGTCTCTGGTCAATATCAACCCATTACTCCGAGACCTACAGAAAATTAAGTCTTCAATCAAAGGG
CAAGAGGAAGACCAGAGACTATCTTGAGAAACTGGAGAAGAGGAAAGCAAAATCAGTACAGTGGCTGCCT
GCTAAGAGAAGTATTCTACAAGAACTAATATGGCTTCCCGCTATGAAAAAGAATTTCTCGAGATAGAAA
AAATCGGGGTTGGAGAATTTGGGACAGTCTACAAGTGCATTAAGAGGCTGGATGGATGCATTTATGCAAT
AAAGCGCTCTGCAAAGTCCTTTTAGGATTATCAAATGAATTGGATTTGCATGAAGTTTATGCTCATGCA
GTGCTTGGCCATCATCCCATGTGGTACGCTACTACTCATCATGGATAGAAGATGATCATGTGGTCAATC
AAAATGAATACTGTAATGGTGGGAGCCTGCAAGCTGCTATATCTGAAAACACTGCGTCCAATAATCACTT
CCAAGAGCCCAAACCTCAAAGACATCCTTCTGCAGATTTCCCTTGGGACTTAAGTACATCCACAATTTGGC
ATGGTACACCTGGACATCAAACCCAGTAACATCTTCAATTTGTCATAAGATGCAGTGTGACTCTCCTGTAG
GCCCAGAAGAGGCTGAAAGTGAAGCTGACTGGTTTCTCAATGCCAGTGTGATGTAAAAATTTGGTGAACCT
GGGCCACGCGACATCAATCAGCAAACCTAAAGTGAAGAAGGAGATACTCGTTTCCCTGGCTAATGAGATC
TTGCAAGAGAATTAACAACACCTCCCAAGCAGACATATTTGCCTTAGGATTAACAATCGCAGTGGCTG
CAGGAGCAGAGTCTTTACCCATCAATGGTGACATGTGGCATCATATCCGCAAGGGAACTTTCCAGAGAT
TTCCCAAGAGCTCTCGGATGACTTTTATGGTCTACTCAAGAACATGATCCACCCAGCTCCAAAGGAGAGA
CCATCTGCAGCAGCTCTGGCCAGAAGTCAATTTCTGCGCTTTCTTGGAGAAGACTGATGAACTCCAGA
AACAACTGAATTTGGAGAAATCCAAGACAGCCACACTGAAAAGGGAACTGAAAAAGCTCGGCATATCCA
GACCCCTCAGAGAGAAGTCCACCATTGTTATTATCAGATCTGCAAAGGCTCAAGACACCTCCTGGTGGGA
GGAAGGAGGAAGGCGCCCTCAAGCTTACCCTGGGACATCCTCCGTGTAGGAACACTCTTGGCCTTT
TGCTACACAACACAGCCTTTTGAAGCTTACAGGATACAAAACCTGAACCAGCTTGAATGTACAAAGAT
CTCAAAGCCATCCTGATGTGGCATCTATAGGTAAGATCACCGAGCTTCCAGGGTTTCTCCTTAGCAACG
GTCTTGTGATATCGTAAGTACTGGAGTCTTCTTTCCCTAGTGATGATTTCTAGAGCTGCTTACTAAGGA
CTCCTAATGAATAATCAGAAAACATGGCTCTGAACTGAAAGGAGAGAGCAAAATGTGCTACTTTGGCCTA
TGGATTAAGAAGCTGCCGTTACTTATTCTTCACTGGGGTCCAAAGAGCTTTCCCTGTACATAAAAAGGGA
TAAATATGGCTTTAAGTGCCAGCTTCCAAGAGAATGTTGCTGTATTTAGAGTGTCTTCCAAGATCTG
TCTGCTCCTCAAATCACCAGCTCCTTTGAGCAAGGAATTTGCCTACTATACTTTCTGAATGGAAGCAATC
TCTTTTCTGATTTGCATTATTAATAAAAAGACTATCATTGTGTGAAACAAGTAAAGACTATAATT
TGGACATTCCTGAGCTGCTTATTAATTTGTGAAACACAATCAGCAGAGGCAGAGGACCCAGGAATTTGG
TGTACCTGTTCCCGTGTGTTCCCTCACGTCTTAGGTCTCTGTGGCTGACTCCAGTTGCTTTTCAGTTTTG
AACATCATAGCATCATCTGGTTCTTGTATTTTTTTTTTTTACACCAGAAGTCACTCTTTTGTCTTTG
CTTTTTAACATATTTTAAATCCAGATCATTGTAATAAAGATTTTATCTTATCCAAAAAAGG

Restriction Sites: RsrII-NotI

ACCN: NM_201370

Insert Size: 1668 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:	<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:	<u>BC052883</u> , <u>AAH52883</u>
RefSeq Size:	2798 bp
RefSeq ORF:	1668 bp
Locus ID:	381759
UniProt ID:	<u>Q66JT0</u>
Cytogenetics:	6 B1
Gene Summary:	Oocyte-specific protein tyrosine kinase that phosphorylates and inhibits CDK1 and acts as a key regulator of meiosis during both prophase I and metaphase II. Required to maintain meiotic arrest in oocytes during the germinal vesicle (GV) stage, a long period of quiescence at dictyate prophase I, by phosphorylating CDK1 at 'Tyr-15', leading to inhibit CDK1 activity and prevent meiotic reentry. Also required for metaphase II exit during egg activation by phosphorylating CDK1 at 'Tyr-15', to ensure exit from meiosis in oocytes and promote pronuclear formation.[UniProtKB/Swiss-Prot Function]