

## Product datasheet for **MG208795**

### Wee2 (NM\_201370) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Wee2 (NM_201370) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Wee2
Synonyms:	Gm1065; Wee1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208795 representing NM\_201370  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGACACAGAGACTGACCAGGACTGAACAAGAAATTAAGCTTCTCCTTTGTGAAGAAGACTG  
 AGAGTGAAGGGCAGATGACTGCACAAGACATCGGAGGGGCCAGAGCCAAAAGCCTGGGAGGAAGAAAG  
 TGAGGAGTTGGAGGGTCCCGTGCCTCCTACCAGAGATGAACCTCATACTTCTCTGAGCAGAGACAAGGA  
 AGTCCAGGTCCTGATCTTTGAAATCAGTTTCAGGCCCTCCAAAATGCCAGAGACACCAGTATTACACA  
 GCAAGAGCAAGCCGCCAGTCCCTACCACTTCTCCACTCCAAAATTCGCTGGGTGAGCCAGAGATTTT  
 TCTGCTAGAGAAGCTCTCCTCCGAAGCTCTAGACATATGAGGCTCACACCTGCTTCCCTGTGGATGAG  
 AAGACCTTTTGTCTCTGGTCAATATCAACCCATTCCTCCGGAGACCTACAGAAAATTACTCCTTCAAT  
 CAAAGGGCAAGAGGAAGACCAGAGACTATCTTGAGGAACTGGAGAAGAGGAAAGCAATCAGTACAGTG  
 GCTGCCTGCTAAGAGAAGTATTCTACAAGAACTAATATGGCTTCCCGCTATGAAAAAGAATTCTTCGAG  
 ATAGAAAAATCGGGTTGGAGAATTTGGGACAGTCTACAAGTGCAATTAAGAGGCTGGATGGATGCATTT  
 ATGCAATAAAGCGCTCTGCAAAGTCTTTTCAGGATTATCAAATGAATTGGATTTGCATGAAGTTTATGC  
 TCATGCAGTGCTTGGCCATCATCCCATGTGGTACGCTACTACTCATCATGGATAGAAGATGATCATGTG  
 GTCATTCAAAATGAATACTGTAATGGTGGGAGCCTGCAAGCTGCTATATCTGAAAACACTGCGTCCAATA  
 ATCACTTCCAAGAGCCAAAACCTCAAAGACATCCTTCTGCAGATTTCTTGGGACTTAAGTACATCCACAA  
 TTCTGGCATGGTACACCTGGACATCAAACCCAGTAACATCTTCATTTGCATAAGATGCAGTGTGACTCT  
 CCTGTAGGCCCAGAAGAGGCTGAAAGTGAAGCTGACTGGTTTCTCAATGCCAGTGTGATGTATAAAATG  
 GTAGCTGGGCCACCGCATCAATCAGCAAACCTAAAGTGGAAGAAGGAGATACTCGTTTCTGGCTAA  
 TGAGATCTTGCAAGAGAATTACCAACACCTCCCAAGCAGACATATTTGCCTTAGGATTAACAATCGCA  
 GTGGCTGCAGGAGCAGAGTCTTTACCCATCAATGGTGACATGTGGCATCATATCCGCAAAGGGAACCTTC  
 CAGAGATTTCCCAAGAGCTCTCGGATGACTTTTATGGTCTACTCAAGAACATGATCCACCAGCTCCAAA  
 GGAGAGACCATCTGCAGCAGCTCTGGCCAGAAGTGAATCTCTGGCCTTTCTTGAGAAGACTGATGAA  
 CTCCAGAAACACTGAATTTGGAGAAATCCAAGACAGCCACACTGAAAAGGGAAGTAAAAAGCTCGGC  
 ATATCCAGACCCCTCAGAGAGAAGTCCACCATTGTTATTATCAGATCTGCAAAGGCTCAAGACACCTCCT  
 GGTGGGAGGAAGGAGGAAGGCCCTCAAGCTTCAACCGTGGGACATCCTCCGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208795 representing NM\_201370  
 Red=Cloning site Green=Tags(s)

MADTETDQGLNKKLSFSFCEEDTESEGMQTAQDIGGAQSQKPGREESELEGPVPPTRDELHTLSRDKG  
 SPGPDLLKSVSGPPKCPETPVLHSHKSKPPVPTNFSTPKNSLGQPEISLLEKLSRSSSRHMLRTPASLVDE  
 KTSLSLVNINPFTPETYRLLLLQSKGKRKTRDYLEETGEEESKSVQWLPKRISILQETNMASRYEKEFFE  
 IEKIGVGEFGTVYKCIKRLDGCIIYAIKRSKSFSGLSNELDLHEVYAHAVLGHHPHVRYSSWIEDDHV  
 VIQNEYCNGGSLQAAISENTASNHFQEPKLDILLQISLGLKYIHNSGMVHLDIKPSNIFICHKMQCDS  
 PVGPEEAESEADWFLNASVMYKIGDLGHATSISKPKVEEGDTRFLANEILQENYQHLPKADIFALGLTIA  
 VAAGAESLPINGDMWHHIRKGNFPEISQELSDDFYGLLKNMIHPAPKERPSAAALARSILWPFLEKTDE  
 LQKQLNLEKSKATLTKRELKARHIQTPQREVHHCYYQICKGSRHLLVGGRRKAPSSFTRGTSSV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_201370
<b>ORF Size:</b>	1665 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_201370.1</a> , <a href="#">NP_958758.1</a>
<b>RefSeq Size:</b>	2798 bp
<b>RefSeq ORF:</b>	1668 bp
<b>Locus ID:</b>	381759
<b>UniProt ID:</b>	<a href="#">Q66JT0</a>
<b>Cytogenetics:</b>	6 B1
<b>Gene Summary:</b>	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]