

Product datasheet for **MR208795**

Wee2 (NM_201370) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Wee2 (NM_201370) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Wee2
Synonyms:	Gm1065; Wee1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208795 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGACACAGAGACTGACCAGGACTGAACAAGAAATTAAGCTTCTCCTTTTGTGAAGAAGACTG
 AGAGTGAAGGGCAGATGACTGCACAAGACATCGGAGGGGCCAGAGCCAAAAGCCTGGGAGGAAGAAAG
 TGAGGAGTTGGAGGTCCCGTGCCTCCTACCAGAGATGAACCTCATACTTCTCTGAGCAGAGACAAGGGA
 AGTCCAGGTCCTGATCTTTGAAATCAGTTTCAGGCCCTCCAAAATGCCAGAGACACCAGTATTACACA
 GCAAGAGCAAGCCGCCAGTCCCTACCAACTTCTCCACTCCAAAAATTCGCTGGGTGAGCCAGAGATTTT
 TCTGCTAGAGAAGCTCTCCTCCGAAGCTCTAGACATATGAGGCTCACACCTGCTTCCCTGTGGATGAG
 AAGACCTTTTGTCTCTGGTCAATATCAACCCATTCACTCCGGAGACCTACAGAAAATTACTCCTTCAAT
 CAAAGGGCAAGAGGAAGACCAGAGACTATCTTGAGGAACTGGAGAAGAGGAAAGCAATCAGTACAGTG
 GCTGCCTGCTAAGAGAAGTATTCTACAAGAACTAATATGGCTTCCCGCTATGAAAAAGAATTCTTCGAG
 ATGAAAAAATCGGGTTGGAGAATTTGGGACAGTCTACAAGTGATTAAGAGGCTGGATGGATGCATTT
 ATGCAATAAAGCGCTCTGCAAAGTCTTTTCAGGATTATCAAATGAATTGGATTTGCATGAAGTTTATGC
 TCATGCAGTGCTTGGCCATCATCCCATGTGGTACGCTACTACTCATCATGGATAGAAGATGATCATGTG
 GTCATTCAAAATGAATACTGTAATGGTGGGAGCCTGCAAGCTGCTATATCTGAAAACACTGCGTCCAATA
 ATCACTTCCAAGAGCCAAAACCTCAAAGACATCCTTCTGCAGATTTCTTGGGACTTAAGTACATCCACAA
 TTCTGGCATGGTACACCTGGACATCAAACCCAGTAACATCTTCATTTGCATAAGATGCAGTGTGACTCT
 CCTGTAGGCCCAGAAGAGGCTGAAAGTGAAGCTGACTGGTTTCTCAATGCCAGTGTGATGATAAAATTTG
 GTGACTGGGCCACCGCAGATCAATCAGCAAACCTAAAGTGAAGAGGAGGATACTCGTTTCTGGCTAA
 TGAGATCTTGCAAGAGAATTACCAACACCTCCCAAGCAGACATATTTGCCTTAGGATTAACAATCGCA
 GTGGCTGCAGGAGCAGAGTCTTTACCCATCAATGGTGACATGTGGCATCATATCCGCAAAGGGAACCTTC
 CAGAGATTTCCCAAGAGCTCTCGGATGACTTTTATGGTCTACTCAAGAACATGATCCACCCAGCTCCAAA
 GGAGAGACCATCTGCAGCAGCTCTGGCCAGAAGTGAATTTCTCTGGCCTTTCTTGAGAAGACTGATGAA
 CTCCAGAAACAAGTGAATTTGGAGAAATCCAAGACAGCCACACTGAAAAGGGAAGTAAAAAGCTCGGC
 ATATCCAGACCCCTCAGAGAGAAGTCCACCATTGTTATTATCAGATCTGCAAAGGCTCAAGACACCTCCT
 GGTGGGAGGAAGGAGGAAGGCCCTCAAGCTTCAACCGTGGGACATCCTCCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208795 protein sequence
 Red=Cloning site Green=Tags(s)

MADTETDQGLNKKLSFSFCEEDTESEGQMTAQDIGGAQSQKPGREESELEGPVPPTRDELHTLSLRDKG
 SPGPDLWKSIVSGPPKCPETPVLHSHKSKPPVPTNFSTPKNSLGQPEISLLEKLSRSSHMRMLTPASLVDE
 KTSLSLVNINPFTPETYRLLLLQSKGKRKTRDYLEETGEEESKSVQWLPKRSILQETNMASRYEKEFFE
 IEKIGVGEFGTVYKIKRLDGCYIAIKRSKSFSGLSNELDLHEVYAHAVLGHHPHVRYSSWIEDDHV
 VIQNEYCNGSLQAAISENTASNHFQEPKLDILLQISLGLKYIHNSGMVHLDIKPSNIFICHKMQCDS
 PVGPEEAESEADWFLNASVMYKIGDLGHATSISKPKVEEGDTRFLANEILQENYQHLPKADIFALGLTIA
 VAAGAESLPINGDMWHHIRKGNFPEISQELSDDFYGLLNMIHPAPKERPSAAALARSRILWPFLEKTDE
 LQKQLNLEKSKATLTKRELKARHIQTPQREVHHCYYQICKGSRHLLVGGRRKAPSSFTRGTSSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_201370

ORF Size: 1668 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_201370.1](#), [NP_958758.1](#)

RefSeq Size: 2886 bp

RefSeq ORF: 1668 bp

Locus ID: 381759

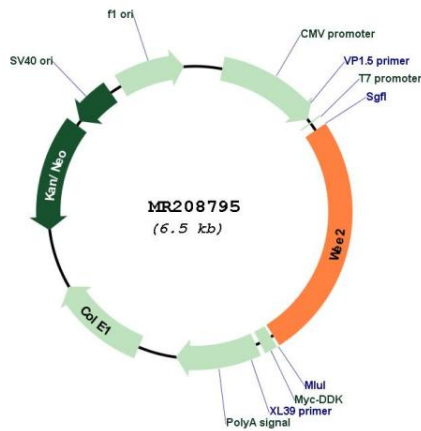
UniProt ID: [Q66JT0](#)

Cytogenetics: 6 B1

MW: 62.2 kDa

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]

Product images:



Circular map for MR208795