

Product datasheet for **SC317119**

WEE2 (NM_001105558) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	WEE2 (NM_001105558) Human Untagged Clone
Tag:	Tag Free
Symbol:	WEE2
Synonyms:	OOMD5; WEE1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC317119 representing NM_001105558.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATGACAAAGATATTGACAAAGAAGCTAAGGCAGAAATTAACCTTTTCTATTGTGAGGAGACTGAG
ATTGAAGGGCAGAAGAAAGTAGAAGAAAGCAGGGAGGCTTCGAGCCAAACCCAGAGAAGGGTGAAGTG
CAGGATTCAGAGGCAAAGGGTACACCACCTTGGACTCCCCTTAGCAACGTGCATGAGCTCGACACATCT
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ATGCTGAGCCGGTTGGTATTTCTCAACAGGGAAGCTTCTTCCAGAGGCCCTAAGCATTGGAAGCTC
ACACCTGCTCCCCTCAAGGATGAGATGACCTCATTGGCTCTGGTCAATATTAATCCCTTCACTCCAGAG
TCCTATAAAAAATTTTCTTCAATCTGGTGGCAAGAGGAAAATAAGAGGAGATCTTGAGGAAGCTGGT
CCAGAGGAAGGCAAGGGAGGGCTGCCTGCCAAGAGATGTGTTTTACGAGAAACCAACATGGCTTCCCGC
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AATTCGGCTTTCATGAAGTTTATGCTCACGCAGTGCTTGGGCATCACCCCATGTGGTACGTTACTAT
TCCTCATGGGCAGAAGATGACCACATGATCATTAGAATGAATACTGCAATGGTGGGAGTTTGCAAGCT
GCTATATCTGAAAACACTAAGTCTGGCAATCATTTTGAAGAGCCAAAACCTCAAGGACATCCTTCTACAG
ATTTCCCTTGGCCTTAATTACATCCACAACCTTAGCATGGTACACCTGGACATCAAACCTAGTAATATA
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GCTGCATGGCACCATATCCGCAAGGGTAACTTTCCGGACGTTTCTCAGGAGCTCTCAGAAAGCTTTTCC
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ACAGTTCTCCGGCCTTCCCTGGGAAAAACAGAAGAGCTCCAACAGCAGCTGAATTTGAAAAAGTTCAAG
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GGTGACACTGGGGTCTCTGGGACCCACACAGGATCAAGAAGCACAAAACGCTGGTGGGAGGAAAGAT
GCAAGGTCTTCAAGCTTTACCTCAGGAGAGCGTGAGCCTCTGCATTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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- Restriction Sites:** Sgfl-Mlul
- Plasmid Map:** □
- ACCN:** NM_001105558
- Insert Size:** 1704 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001105558.1](#)

RefSeq Size: 3061 bp

RefSeq ORF: 1704 bp

Locus ID: 494551

UniProt ID: [P0C1S8](#)

Cytogenetics: 7q34

Protein Pathways: Cell cycle

MW: 62.9 kDa

Gene Summary: Oocyte-specific protein tyrosine kinase that phosphorylates and inhibits CDK1/CDC2 and acts as a key regulator of meiosis during both prophase I and metaphase II (PubMed:29606300). 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 (By similarity).[UniProtKB/Swiss-Prot Function]