

Product datasheet for **MR208795L4V**

Wee2 (NM_201370) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Wee2 (NM_201370) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Wee2
Synonyms:	Gm1065; Wee1B
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_201370
ORF Size:	1668 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR208795).
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.
RefSeq:	NM_201370.1 , NP_958758.1
RefSeq Size:	2886 bp
RefSeq ORF:	1668 bp
Locus ID:	381759
UniProt ID:	Q66JT0
Cytogenetics:	6 B1



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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]