

## Product datasheet for MC207379

### Ring1 (NM\_009066) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ring1 (NM_009066) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ring1
Synonyms:	Ring1A
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC207379 representing NM_009066 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGACGACGCCGGCAATGCACAGAATGCCAGCAAACGTGGAACTGAGTCTCTATGAGCTGCACCGGA  
CCCCGAGGAAGCCATCATGGATGGTACAGAGATTGCGGTTTCGCTCGGTCACTGCATTCTGAGCTCAT  
GTGTCCCATCTGCCTGGACATGCTGAAGAACAATGACCACCAAGGAGTGCCTGCATAGGTTCTGCTCG  
GACTGCATCGTACCCGCCCTGCGGAGCGGGAACAAGGAGTGCCTACCTGCCGAAAAAGCTGGTATCCA  
AGCGGTCCCTACGGCCGGACCCCAACTCGACGCCCTGATCTCCAAAATCTACCTAGCCGGGAGGAATA  
CGAGGCCCATCAGGACCGGGTGCTCATCCGCCCTCAGCCGCTGCACAACCAGCAGGCGCTGAGCTCCAGT  
ATCGAGGAAGGGCTCCGGATGCAGGCCATGCACAGGGCCAGCGTGTGAGGCGGCCGATGCCTGGATCTG  
ATCAGACCGCCACAATGAGTGGGGGGAAGGAGAACCTGGGGAGGGAGAAGGGATGGAGAGGATGTAAG  
CTCTGACTCCGCCCCAGACTCTGCTCCAGGCCCTGCTCCCAAGCGACCCCGGGAGCGGGTGCAGGGCC  
AGCAGTGTAGGGACAGGGGGTGGGGCTGCTGGTGGGGCTTGGGGGGTCCCGTTCTGAAGACTCTGGTG  
ACCGGGCGGCACCCTGGGAGGGGAACCTGGGGCCCCAAGCCCTCCTGGGGCCCCAGCCCTCCAGA  
GCCCCGTTGGAGAGATTGAGCTTGTGTTCCGGCCCCATCCCTGCTTGTGGAGAAAGGAGAGTACTGCCAG  
ACTCGGTACGTGAAGACTACTGGGAATGCCACAGTGGATCATCTCTCAAGTACCTGGCCCTGCGCATTG  
CCCTGGAGAGGAGGCAGCAGCAGGAAACCAGAGCCCGAGGGCCTGGTGGGGGTGCTTCGGACACAGG  
CGGACCTGATGGGGTGGTGGGGAGAGAGGCGTTGCCGGAGGAGGCGAAGGTCTGAGGAGCCTGCGCTG  
CCCAGCCTGGAAGGTGTCAGCGAAAAGCAGTACACCATCTACATCGTCTCCTGGGGCGGAGCGTTACGA  
CGCTGAATGGATCACTGACCTTGGAGCTTGTAAACGAGAAGTTCTGGAAGGTGTCCAGGCCCTTAGAGCT  
CTGCTATGCCCCACGAAGGACCCAAAATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_009066
<b>Insert Size:</b>	1221 bp
<b>OTI Disclaimer:</b>	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).
<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_009066.3</a> , <a href="#">NP_033092.3</a>
<b>RefSeq Size:</b>	2048 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	19763
<b>UniProt ID:</b>	<a href="#">O35730</a>
<b>Cytogenetics:</b>	17 B1
<b>Gene Summary:</b>	Constitutes one of the E3 ubiquitin-protein ligases that mediate monoubiquitination of 'Lys-119' of histone H2A, thereby playing a central role in histone code and gene regulation. H2A 'Lys-119' ubiquitination gives a specific tag for epigenetic transcriptional repression and participates in X chromosome inactivation of female mammals. Essential component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones, rendering chromatin heritably changed in its expressibility. Compared to RNF2/RING2, it does not have the main E3 ubiquitin ligase activity on histone H2A, and it may rather act as a modulator of RNF2/RING2 activity (By similarity).[UniProtKB/Swiss-Prot Function]