

## Product datasheet for **MC228353**

### **Orc2 (NM\_001271526) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Orc2 (NM_001271526) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Orc2
Synonyms:	AU041563; Orc2l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228353 representing NM\_001271526  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAGCACTCTGCAGTTAAAGGAAACCAAGGTGCCAAGCGTGCAGTTTGTGGGAGATGATGATGTTCTTA  
GTCACATTCTGGACAGAGAAGGAGGAACCTAAATTAAGAAGGAGAAAGCTCAGCTTTTGGTCAATCCCCA  
GAAAGTAATAAAGAAGGCAGACTGTGAGTTGGAGAAAAGTGACCTGGAAGTTTTAGAGGATCAGAACTAC  
GTGAAAGTCTTGGGAAGAAATATCAAGAATCCTTGGGAAACGGCTCTGCTAAAGATGGTAGGAATAAAG  
TTTATTCTTTCAACAAAGAAAGCACCCTGAAGAGATGACTAAATGGCTTTAGAACTAGCAAAAACATC  
AGGAAAAAAGGATCCACTTGACTCAAATGATCCTGAAATCACAAAAACATTGCTCAAAAAAGTAAAGGG  
CATTCTACTTCAGAGAAAGCTCCACTGGTGAACAATAACAAAACCTGAATTTCTGTCAACACAACCTCATA  
ATCTAAGGAAAAGAATAATAGCGTCAAGGTCTCATTATGACAGTGAGAGTGAGTATTCTGCTCCAGCTC  
AGAGGATGATGAAGAGGCTACAAAAGACGAAGAAGAAGACACTAATGTGGCCAGGCTCTCTCAGAAGAGT  
CAAGGTCAGAATAGACTTCTCCAGCTCCTGTTTCCAAAGAGACTGCCTAAGAAAAAGAAAAGAGACA  
AAGCGAGTGACTTGGTAGAAGAATATTTGAAGCCCATAGTAGTTCAAAAAGTCTTAACATCTGATCGAAC  
GCTGCAGAGGCTGAGGAGAGCCAGAGTGGATCAGAAAACCTCTGCATAACTTACTGAGAAAATTTGTGCC  
TCCTTTTCTGCTGAAATTGAACGATTGAATCAACAGCATGAGAAACTGTTTCATAAATGGATGCTTCAGT  
TACACCTTGGGTTCAACATTGTGCTTTATGGCTTGGGGTCCAAGAGAGATTTACTAGAAAAGTTTCGAAC  
CACCATGCTTCAAGATTCATTGCTGTTGTCATCAACGGCTACTTCTGGCGTCAGTGTGAAATCAATC  
CTGAACCTATAACTGAAGATGTCCTCAGTCATGTGGTACTTCCAAAGTGTCTGGATCAGCGGGACT  
GGATAATAAACAGATTTAAAGAAGATTCTTTTAGAAGTCTTCTTATCCACAATTTGGATAGCCA  
AATGTTAAGAGGAGACAATAGCCAGCAAATCTTGGACAGTTGTATCATTACATAACGTGTATCTCATA  
GCATCTATTGACCATCTCAATGCTCCTCTCATGTGGGATCATGCAAAGCAGAGTCTTTATAACTGGCTTT  
GGTATGAAACTACTACATACAGTCCTTATACTGAAGAAACCTCCTATGAGAACTCCCTTCTGGTTAAGCA  
GTCTGGATCTCTGCCACTTAGTTCTCTGATTGATGCTTACGAAGCCTTACCCCAATGCAAGGGGGATT  
TTCAGGCTACTTATGAAGTTCAGCTGGATAACCAGGACAGCCCTTCTACATTGGACTTCTTTTCAAG  
ATTTTTACCAGCAGTGTAGGAAGCATTCTTGTAAACAGTGATCTCACACTCCGAGCCAGTAACTGA  
ATTTAGGGACCACAACTTATAAGAACAAGAAGGGAAGTATGTTGTAGAAATTTTATAATTCCTGTT  
GACAGCGGAATATTGGCTGATTTCTTGGAGAAGGAAGAGGAGGAGCATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001271526

**Insert Size:** 1731 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

**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\\_001271526.1](#), [NP\\_001258455.1](#)

**RefSeq Size:** 3555 bp

**RefSeq ORF:** 1731 bp

**Locus ID:** 18393

**UniProt ID:** [Q60862](#)

**Cytogenetics:** 1 C1.3

**Gene Summary:** Component of the origin recognition complex (ORC) that binds origins of replication. DNA-binding is ATP-dependent. The specific DNA sequences that define origins of replication have not been identified yet. ORC is required to assemble the pre-replication complex necessary to initiate DNA replication (By similarity). Binds histone H3 and H4 trimethylation marks H3K9me3, H3K20me3 and H4K27me3. Stabilizes LRWD1, by protecting it from ubiquitin-mediated proteasomal degradation. Also stabilizes ORC3 (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (c) uses an alternate splice site in the 5' UTR compared to variant a. Both variants a and c encode the same isoform (A). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.