

## Product datasheet for **MR210916**

### **Orc1 (NM\_011015) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Orc1 (NM_011015) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Orc1
Synonyms:	AA545195; MmORC1; Orc1l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>NM\_011015 ORF sequence, MR210916 may differ due to SNPs.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCATCCTACCTCACAAAGGCAGAAGACCAGACAAAACCTTCTCATGGGTTGGCAGGCCATTGCCGAAT
CGAAAACAGTCCAACAATGTACAGAGAAATTTGTATGAAAATCAATGATGGTTCTGAGATTCACATC
AAGGTTGGACAGTTTGTATTGATTCAGGGGAAGATAATAAAAAGCCCTATGTGGCTAAACTGATTGAA
TTATTTCAAATGGAGCTGAAGTTCCTCCCAAGAAATGTGCACGAGTACAGTGGTTTGTGAGATTCCTT
GAGATTCCTGTCTCTAAAAGGCACTTGTTAGGCCGAGTCCTCCTGCACAGGAGATATTCTGGTATGAC
TGTTCTGACTGGGATAACAAGATTAATGTGGAGACCATTGGCCCTGTTGAGGTAGTGGCATTAGCC
CCAGAAGAAGTGATTCTGTGGATCAGAAAAGTGAGGAGACACTGTTTGTGAAGCTATCCTGGAATAAA
AAGGACTTTGCACCACTGCCACCAGAAGTGCTGCAGCATTAAAGGAACAAGAAGATAGTCTGAGTGG
CAAAAACCTTTAAAAGCCAAGATTAAGAATGTAAAAGCCCTGCCCGAACACAACAGAACAAGAGGTC
AAAGGGATCAAAATCAAAATCATTCCACTTCCAAATTTACCAGACTCCTGCTAATATTGTCATCCCAAT
GCAAAGAAGTCGCTGAACTCGATGGCTTAGGTTTTACCAGGAAGCCTAACACGAGGTGGTCAAAGAAG
AGCTCGTGTGACTCCTTGATTATCAAAAAACATCTAAAAGAAGAGCAGCCTTCTCTGAGACCACCTCG
CCTCTAAAAGCCTAATAAACCTCGTGAATCAAGCCCTTTCAGCTTTGGAACTCGAGTTAAAAAT
GGCAAACCTCAACCTTTTTGTGCCAAAAGTAGTGTGGTTCTGAGAGCCCGGAACCCAGCTATGACGACC
ACAAAGCTTGGTGTGGACAACACTTAGCCCTATCAGGAATGGGTTGAGATCTTCAGTGGTGCCCTCT
GGGGTCTGACACCAGTATACATTAGGAGGAAGGCAAAAGAACAAGAACTCACAAAGAACCCATCCGT
ACTTCTCGTGTCCATAGAAAGAGTTCTCTTGTACTTTGAAGCGGATTAGGCAACAGCTTTGTCTCTA
GATGGTGATGACAGGGACCAAGAAGAGGAAGTCCGTAGACTCTGAGAGTGAGGGAAGGATGAGTTTT
ATTTCTCCCTCCAACAAGAAATTCCTGGGGCAGTCCAGGACCCGGCAGACCCCTCCAAGTACCA
CAGAAAAATCCTAAACCTAGAACACCTCATCGTGCCACTCCTCAGATCCGAGACAGAAACCTGGCTGTC
CAGGAGCCAGCTAGTGCCTGGAAGAGGCACGGCTGAGGTTGCATGTTTCTGCTGTGCCTGACTCTCTC
CCCTGTGAGAGCAGGAATTCGAAGACATCTACAGCTTTGTGAAAGTAAACTTCTTGATGGGACTGGA
GGGTGTATGTACATTTCTGGGTCCCTGGGACAGGGAAGACAGCCACTGTGCATGAGGTCAACGCTGT
CTGCAGCAGGCAGCAGAAACAGATGATGTTCTCCCTTCAATATGTTGAGGTTAATGGGATGAAGCTG
ACAGAACCCACCAAGTCTATGTGCAGATTTAAAGAACTGACAGGCCAGAAGGCAACAGCCAATCAT
GCAGCAGAACTGTGGCAAGCAATTCTGTGGCAAGGGTCCCAGAAGGAAACCACTGTACTGCTCGTG
GATGAGCTTGACCTTCTTTGACTCACAAACAAGATGTAATGTACAACCTTTTGATTGGCTACTCAC
AAAGGGGCCCACTTGATAGTGTGACCATTGCCAACACCATGGACCTTCCCGAGAGGATCATGATGAAC
CGTGTGTCTAGCCGACTGGGCTCACCAGGATGTCTTCCAGCCCTATTCTCACAGCCAGCTGAAACAG
ATCTTAGTGTCTCGACTGAGGAATTAAGGGCCTTTGAGGACGATGCCATCCAGCTGGTGGCCAGGAAG
GTAGCAGCCCTCTCTGGAGATGCCCGGCCTGCCTGGACATCTGCAGGCGTGCCACGGAGATCTGCGAG
CTTTCCCATCTACGCGGTGACTCTCTGAGCCTGGTACTGTGGCCACTTAATGGAAGCTATAGATGAA
ATGTTCTCCTCGTCATATTAATGCCATCAAAAACCTTCTGTCTGTGGAACAGAGCTTCTGAGAGCC
ATTATTGCGGAATTCGTGGTCAAGACTAGAGGAAGCAACCTTCAACAGATATACAGTCAGCACGCTG
GCTCTGTGCCGAATGGAGGGACTGCCATACCCAACCATGTCAGAGACCATGGCTGTGTGCTCACGCTG
GGTTCTTGCCGCCTCTTCTGGTGGAGCCAGTAGAAATGACCTCCTCCTCGAGTGAGACTCAATGTT
AGCCAGAATGACGTGCTGTTGCTCTCAAAGAAGAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Protein Sequence: >Peptide sequence encoded by MR210916  
Blue=ORF Red=Cloning site Green=Tag(s)

MPSYLTRQKTRQTFSWVGRPLPNRKQFQQMYREICMKINDGSEIHIKVGQFVLIQGEDNKKPYVAKLIE  
LFQNGAEVPPKKCARVQWFVRFLEIPVSKRHLLGRSPPAQEIFWYDCSDWDNKINVETIIGPVQVVALA  
PEEVIPVDQKSEETLFVKLSWNKKDFAPLPPEVLAALREQEDSPEWQKPLKAKIKNVKSPARNTTEQEV  
KGIKSNHSTSKFHQTPANIVIPNAKKSLELDGLGFTRKPNTRWSKKSSCDSDYQKTSKRRAAFSETTS  
PPKKPNKPREIKPSSALETRVKNGQTQPFCAKSSVVLARNPAMTTTKLGVDNTLSPIRNGLRSSVPS  
GGLTPVYIRRKAKEQETHKEPIRTSRVHRKSSLLTLKRIRQQLCLLDGDDRDQEEEEVDESEEEDEF  
ISSLPTRNSLGQSRTRQTPSKSPQKNPKRTPHRATPQIRDRNLAVQEPASALEEARLRLHVSVPDSL  
PCREQEFQDIYSFVESKLLDGTGGCMYISGVPGTGKTATVHEVIRCLQQAETDDVPPFQYVEVNGMKL  
TEPHQVYVQILKKLTGQKATANHAAELLAKQFCGQGSQKETTLLVDELDDLWTHKQDVMYNLFDWPTH  
KGAHLIVLTIANTMDLPERIMMNRVSSRLGLTRMSFQPYSHSQLKQILVSRLRNLRAFEDDAIQLVARK  
VAALSGDARRCLDICRRATEICELSHLRGDSLSTVVAHLMEAIDEMFSYSSYITAIKNSSVVEQSFLRA  
IIAEFRSSGLEEATFQQIYSQHVALCRMEGLPYPTMSETMAVCSRLGSCRLLLVEPSRNDLLLVRVRLNV  
SQNDVLFALKEE  
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_011015

**ORF Size:** 2520 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\\_011015.2](#), [NP\\_035145.2](#)

**RefSeq Size:** 3027 bp

**RefSeq ORF:** 2523 bp

**Locus ID:** 18392

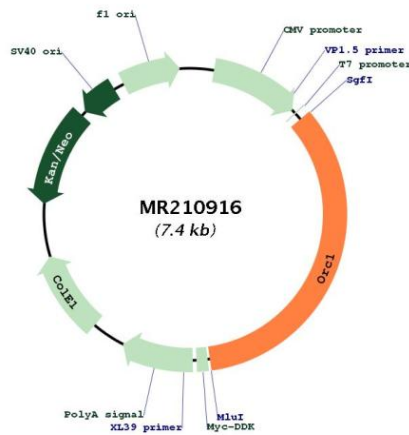
**UniProt ID:** [Q9Z1N2](#)

**Cytogenetics:** 4 C7

**MW:** 95.1 kDa

**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).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR210916