

Product datasheet for **RR201687**

Orc1 (NM_177931) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Orc1 (NM_177931) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Orc1
Synonyms:	Orc1l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>RR201687 representing NM_177931
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGTCTATGTCACAAGGCAGAAGACCAGACAAACTTCTCATGGGTTGGCAGGCCATTGCCGAATC
 GAAAACAGTTCTACCAAATGTACAAAGAAATTTGTATGAAAATCAATGGTTGTTCTGAGATTCACATCAA
 GGTTGGACAGTTTGTATTGATTC AAGGGGAAGATAATCAAAGCCCTATGTTGCTAAACTGATTGAATTA
 TTTGAAAATGGGTCTGAAGTTCCCTCCAAAGAAATATGCGCGAGTACAATGGTTTGTCCGATTCTGTGAGA
 TTCCTATCCCTAAAAGGCATTTGTTAGGACGGAGACCTTCTGCACAGGAGATATTCTGGTATGACTGTTC
 TGACTGTGATAACGACATTCATGTGGAGACCATTGGCCCTGTT CAGGTAGTGGCATTAGCCCCAGAA
 GACGAGATCCCTGTGAATCAGAAAAGT GAGGAGACACTGTTTGTGAAGCTGCTGGAATAAAAAGAACT
 TTGCGCCACTGCCACCAGAAGAACTTGCAGCATTGAGGAGACTGGAGTGCCAAAAACCTTTAGAAGCCAA
 GACTAAGAGTGTTAAAAGCCCTTCTGGAGCACAGCAGAACAAGAGGTCAAAGGATTGAATCAAGTCAT
 TCCACTTCCAGATCTTACCAGGATCCTGCTCATCTACTGTCCTCCCAACGCAATGAAGTCTCTGGAATGTG
 GTGGTTTTACCAGGAAGCCTAACATGAGGCTGTACGGAAGATCTTGTGTGATTCCCTGGATTCTCAAAA
 AACATGTAACGAAGAGCAGCCTTCTCTGAGACCCTCACACCTAAAAAGCCTCAACCTGGTGAATC
 AAGACCTCCTCAGCTTTGGAACTCTAGGAAAAATGGGCATACTCAACCCTTTTTTGC AAAAGTAGCA
 TGGTCTGAGAACCCGGGGCACAGCTGTGAAGACCACAAAGCTTACTGTGGAGAGTGCACCTAGCCCTGT
 CAGGAGCAGGTCGAGGTACTCAGTGGCACCCCTCTGTGGTCTGACACCTCAATACATTGGGAGGAAGGCA
 AAAGAACAAGAACTCACAAGAACCCATCCATACTTCTCTTGTGCCCCGAGAAGGAGTCTCTCTTGA
 CATACTCTGTGGAAGTGT CAGACTCCAGTAGTGAGGAGGAAGATGAGTCTGTTCCCTCCCTCCAACA
 GGAAAACCCGTGGGGCAGTCCAGGACCCGAGAAGTGCCTCTAAGCCATCATCACAGACCCCTCCAAGT
 CACCAAAGAAAATTTTAGACCTAGACCACCTTCTCATGCTACTCCTCAGATCCGAGACAGAAAAGTGGC
 TGTCCAAGAGCCAGCTAGTGTGCTTGAAGAGGCCCGGCTCAGGCTGCATGTTTCTGCCGTGCCTGACTCT
 CTTCCCTGTGAGAGCAGGAGTTC AAGACATCTACAGCTTTGTGAAAGTAAACTTCTTGATGGAACCG
 GAGGGTGTATGTACATTTCTGGGTCCCTGGGACAGGGAAGACAGCCACTGTGCATGAAGTCATACGCTG
 TCTGCAGCAGGCAGCACAAACAATGATGTTCCCTTTGAATACGTTGAGGTTAATGGGATGAAGCTG
 ACAGAACCCACCAGGTCTATGTGCAGATTTACAGAACTGACAGGCCAGAAGGCAACAGCTAATCATG
 CAGCAGAACTGCTGGCAAAGCAATTCTGCAGCCGAGGGTCCCAGAAGGAAACCACTGTGCTGCTGTGGA
 TGAGCTTGACCTCTTTGGACTCACAACAAGATGTGTTGTACAACCTCTTTGATTGGCCTACTCACAAA
 GGAGCCCGGTTGGTGTGTTGACTATTGCCAATACCATGGACCTTCCAGAGAGGATCATGATGAACCGTG
 TGGCTAGCCGCTGGGCCTCACCAGGATGTCTTTCCAACCCTACTCTCACAGCCAACTGAAAACAATCTT
 AGTGTCCCGACTGAAGCATTTAAAGGCCTTTGAGGATGATGCCGTCCAGTTGGTAGCCAGAAAGGTAGCA
 GCCCTTTCTGGAGATGCCCGGCTGCCTGGACATCTGCAGGCGTGCCACAGAGATCTGCCAGGTTTCCC
 ATCAGCGTGGTGACTCTCAGTGCCTGGTACTGTGGCCACTTAATGGAAGCTATAGATGAAATGTTTTCC
 CTCATCTATATTACTGCCATCAAAAACCTTTCTGTCTGGAACAGAGCTTCTGAGAGCCATCATTGCG
 GAATCCGTCGATCAGGACTGGAGGAAGCTACATTTCAACAGATATACAGTCAGCATGTGGCTCTGTGCA
 GAATGGAGGGACTGCCTTACCAACCATGT CAGAGACCATGGCCGTGTGCTCGCGTCTGGGTTCTTGCCG
 CATTCTTCTGGTGGAGCCTAGCAGGAATGACCTACTCCTTCGAGTGAGACTCAATGTTAGCCAGAATGAT
 GTGCTGTATGCTCTCAAAGAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR201687 representing NM_177931
Red=Cloning site Green=Tags(s)

MPSYVTRQKTRQTF SWVGRPLPNRKQFYQMYKEICMKINGCSEIHIKVGQFVLIQGEDNQKPYVAKLIEL
FENGSEVPPKKYARVQWFVRFCEIPIPKRHLLGRRPSAQEIFWYDCSDCDNDIHVETIIGPVQVVALAPE
DEIPVNQKSEETLFVKLSWNKKNFAPLPPEELAAARRLECQKPLEAKTKSVKSPSWSTAEQEVKRIESSH
STSRSYQDPAHTVTPNAMKSLECGGFTTRKPNMRLSRKILCDSLDSQKTKRRAAFSETTSPPKKPQPGEI
KTSSALETLGKNGHTQPFPAKSSMVLRTGTAVKTTKLTVESALSPVRSRSRYSVAPSVGLTPQYIGRKA
KEQETHKEPIHTSLRARRRSSLLTLKRIKQQLWLLDDDKSDQEEEEESSIVEVSDSSSEEEDESVPSPPT
GKPVGQSRTRRTASKPSSQTPSKSPKKTFRPRPPLHATPQIRDRNLAVQEPASVLEEERLRLHVSAYPDS
LPCREQEFQDIYSFVESKLLDGTGGCMYISGVPGTGKTATVHEVIRCLQQAQTNDVPPFEYVEVNGMKL
TEPHQVYVQILQKLTGQKATANHAAELLAKQFCSRGSQKETTLLVDEL DLLWTHKQDVL YNLFDWPTHK
GARLVVLT IANTMDLPERIMMNRVASRLGLTRMSFQPYSHSQLKQILVSRLKHLKAFEDDAVQLVARKVA
ALSGDARRCLDICRRATEICEVSHQRGDSQCLVTVAHLMEIDEMFSSSYITAIKNSSVLEQSFLRAIIA
EFRRSGLLEEATFQQIYSQHVALCRMEGLPYPTMSETMAVCSRLGSCRILLVEPSRNDLLLVRVRLNVSQND
VLYALKEE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

ACCN:	NM_177931
ORF Size:	2544 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:	<ol style="list-style-type: none">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_177931.2 , NP_808792.1
RefSeq Size:	2560 bp
RefSeq ORF:	2547 bp
Locus ID:	313479
UniProt ID:	Q80Z32
Cytogenetics:	5q34
MW:	95.8 kDa
Gene Summary:	mouse homolog is an origin recognition complex that may be involved in initiation of DNA replication [RGD, Feb 2006]