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Product datasheet for MC203848

Orc2 (NM_008765) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Orc2 (NM_008765) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Orc2
Synonyms:	AU041563; Orc2l
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC015257
CGCAGGTTCGGCTTGGACCGGTCGACTCTTTCCCTAGACGCTGGCCTCCCCGGGCCGTTCTGGGGTGTTC
CGCGGCGGCGGGAGTCCTGGCTGGCGGCTCAAGTGAGCCTCGCGGCCGTTCTCCCTCCCGCCGGCTCGGA
CTCGAGAGTTACAGGTCACTGGATGTTCAAGCTGCAGAATGCATAGCACCTTACAAGGTTGGCCACAATG
AGCACTCTGCAGTTAAAGGAAACCAAGGTGCCAAGCGTGCAGTTTGTGGGAGATGATGATGTTCTTAGTC
ACATTCTGGACAGAGAAGGAGGAACTAAATTAAAGAAGGAGAAAGCTCAGCTTTTGGTCAATCCCCAGAA
AGTAATAAAGAAGGCAGACTGTGAGTTGGAGAAAAGTGACCTGGAAGTTTTAGAGGATCAGAACTACGTG
AAAGTCTTGGGAAGAAATATTCAAGAATCCTTGGGAAACGGCTCTGCTAAAGATGGTAGGAATAAAGTTT
ATTCTTTTCAACAAAGAAAGCACCCTGAAGAGATGACTAAATTGGCTTTAGAACTAGCAAAAACATCAGG
AAAAAAGGATCCACTTGACTCAAATGATCCTGAAATCACAAAAAACATTGCTCAAAAAAGTAAAGGGCAT
TCTACTTCAGAGAAAGCTCCACTGGTGAACAATAACAAAACTGAATTTCTGTCAACACAACCTCATAATC
TAAGGAAAAGAATAATAGCGTCAAGGTCTCATTATGACAGTGAGAGTGAGTATTCTGCTTCCAGCTCAGA
GGATGATGAAGAGGCTACAAAAGACGAAGAAGAAGACACTAATGTGGCCAGGCTCTCTCAGAAGAGTCAA
GGTCAGAATAGACTTCTTCCAGCTCCTGTTTCCAAAGAGACACTGCCTAAGAAAAAGAAAAGAGACAAAG
CGAGTGACTTGGTAGAAGAATATTTTGAAGCCCATAGTAGTTCAAAAGTCTTAACATCTGATCGAACGCT
GCAGAGGCTGAGGAGAGCCAGAGTGGATCAGAAAACTCTGCATAACTTACTGAGAAAATTTGTGCCTTCC
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ACCTTGGGTTCAACATTGTGCTTTATGGCTTGGGGTCCAAGAGAGATTTACTAGAAAAGTTTCGAACCAC
CATGCTTCAAGATTCCATTCATGTTGTCATCAACGGCTACTTTCCTGGCGTCAGTGTGAAATCAATCCTG
AACTCTATAACTGAAGATGTCCTCAGTCATGTGGGTACTTTCCAAAGTGTTCTGGATCAGCGGGACTGGA
TAATAAACAGATTTAAAGAAGATTCTTCTTTAGAACTCTTCCTTCTTATCCACAATTTGGATAGCCAAAT
GTTAAGAGGAGACAATAGCCAGCAAATTCTTGGACAGTTGTCATCATTACATAACGTGTATCTCATAGCA
TCTATTGACCATCTCAATGCTCCTCTCATGTGGGATCATGCAAAGCAGAGTCTTTATAACTGGCTTTGGT
ATGAAACTACTACATACAGTCCTTATACTGAAGAAACCTCCTATGAGAACTCCCTTCTGGTTAAGCAGTC
TGGATCTCTGCCACTTAGTTCTCTGATTCATGTCTTACGAAGCCTTACCCCCAATGCAAGGGGGATTTTC
AGGCTACTTATGAAGTTCCAGCTGGATAACCAGGACAGCCCTTCCTACATTGGACTTTCTTTTCAAGATT
TTTACCAGCAGTGTAGGGAAGCATTCCTTGTTAACAGTGATCTCACACTCCGAGCCCAGTTAACTGAATT
TAGGGACCACAAACTTATAAGAACAAAGAAGGGAACTGATGGTGTAGAATATTTATTAATTCCTGTTGAC
AGCGGAATATTGGCTGATTTCTTGGAGAAGGAAGAGGAGGAGGCATAGGCTGTCTCTTATCCTTGAACTT
TCTGTGGAAGCCTCATTGTGGCCCAGCTGCTGCTCCTCAGTAAGAATGCTGGTTTACATCCAACATTAGG
TCATTCTCTCCAGCATACAAGATGTTCTATGGAAGAGGCATAGCATCAATTTGAACTTTGATTAGCCTGG
CTGGTGTACTGTCTCTAATACTATGCAGTGGTCGTTGAGTTGGATAAAAGTGCCTTTAATTTATTACTTC
TCTGGAGACTTCTTGCTGGTTGTACAGTGTGCTCAGGGATTCTTTGGAACTGGATGGTTTTGGGTTATTT
TATACTGAATGCTATCCCTAATTTTTGAGGGCAATTTAACACTCCAGAGCTGAATTACTACAAGTGCACT
TGCTTCAGACGGTCAGAGGACAAGAGTTCAGAGTAGCGTTCTCACGGGACTGATGAGGAAGGAGGTGTCC
TGCTTCTCCTGAGATGATGGTAGAAGATGTCAGTGGACTGAGATGACACAGCCTTCTCCTTGTGGACTTA
GGCCACACATGCTAAATAAAGACAGCCAGCACTGTTCAAATGAGATCACGGGAGAAGTACAAGGGATGTG
TGCATATGTGGAGCATGTGTCCAATCTAGAAAGCATATTTAAAATCGTTGGTATCGGTACCAGGAGAAGC
CAGGCTAAGAAATAAAGTCCTGATTTACATTTTATTGTTTTCAGTACAGTAGAAAATAAAAACATTTCAT
CATTCTTGTACATTGACATTTTCTATTTTCTTAAATAGCTCACAGGGATAGGTAGCGCACACCTTTAATC
CCAGCACTCAGGAGTCAGAGGCAGACGGATTGCTTCTCTCCTTTAAGACACAAGACCTGAGCTCACATTT
GTAATACCAACATCAAGAAGGCAGAGGCAGAGGAAAACATGAGTTCAAGACCTAGACTAGTTAGTGAGTT
CTAGACCAGTCTAAGCTGCGGTGATGTCCTGTTTCAAAAACAAACATTCAGTAAATAAATACACATTGGT
AACATGAAACCTGCTGGTCTGCACTTTGCTTGTGTGGAATGTGGTATGTGGGTGTCTGTGCAGAGACTGA
GTAAGATGTCTTCTACCACCTTCTGCCTTATTTCCTTGAGACAAGGCCTCTCTTCACTGAACCAGAGCTC
CTTGTAGGCCAGATGGGCTGCCAGTGATCCTGTCTTCACACCAGTACTGGTGTGACAGGCACAGCCATGC
CCAGCTTTTTGTGAGTGCTGGGATCCAAACTCAGGTACTTCTTACCCACTGAGACATCCCCCCAACTCCA
TGTACTTTCACAGTTTTGCTTAATTTCTCTAGTGTAACTCCTACAGTATAAACAAACATCTGATTATAGA
ATGTGACATCTTTGCAGTTGCCTTTATAGTTTTTGTTATTAGATGTCGCTCTTAATAAATCAAAGTGCAG
TTTGCAGAGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN:	NM_008765
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).
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:	BC015257, AAH15257
RefSeq Size:	3417 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 (a) represents the longest transcript and encodes the longest isoform (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.