

OriGene Technologies, Inc.

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Product datasheet for RC231425L3V

ORC1 (NM_001190819) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	ORC1 (NM_001190819) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ORC1
Synonyms:	HSORC1; ORC1L; PARC1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001190819
ORF Size:	2568 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC231425).
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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<u>NM 001190819.1, NP 001177748.1</u>
RefSeq ORF:	2571 bp
Locus ID:	4998
UniProt ID:	<u>Q13415</u>
Cytogenetics:	1p32.3
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Cell cycle
MW:	97.3 kDa



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Gene Summary:The origin recognition complex (ORC) is a highly conserved six subunits protein complex
essential for the initiation of the DNA replication in eukaryotic cells. Studies in yeast
demonstrated that ORC binds specifically to origins of replication and serves as a platform
for the assembly of additional initiation factors such as Cdc6 and Mcm proteins. The protein
encoded by this gene is the largest subunit of the ORC complex. While other ORC subunits are
stable throughout the cell cycle, the levels of this protein vary during the cell cycle, which has
been shown to be controlled by ubiquitin-mediated proteolysis after initiation of DNA
replication. This protein is found to be selectively phosphorylated during mitosis. It is also
reported to interact with MYST histone acetyltransferase 2 (MyST2/HBO1), a protein involved
in control of transcription silencing. Alternatively spliced transcript variants encoding
different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]

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