

Product datasheet for **SC124742**

ORC4L (ORC4) (NM_181742) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ORC4L (ORC4) (NM_181742) Human Untagged Clone
Tag:	Tag Free
Symbol:	ORC4
Synonyms:	ORC4L; ORC4P
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181742, the custom clone sequence may differ by one or more nucleotides

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ATGAGCAGTCGTAATCAAAGAGTAACAGCTTAATTCACACAGAGTGCCTTTCACAGGTACAAAGAATTT
TACGTGAAAGATTTTTCGTGCAGAGTCCACATAGTAACCTATTTGGAGTGCAAGTACAATACAAACACTT
AAGTGAGCTGCTGAAAAGAAGTCTCTCCATGGAGAGAGTAACCTGTCTTATTATCGGACCCCGAGGA
TCAGGAAAAACTATGTTAATAAATCATGCTTTGAAAGAAGTCTGAAAATAGAAGAAGTGAAGTAAAATG
TATTACAAGTTCACCTAAATGGACTGCTGCAGATCAATGACAAAATCGCCCTAAAGGAAATCACAAGGCA
GTTAAATCTGAAAATGTAGTTGGAGATAAAGTTTTTGGAAAGCTTTGCTGAAAACCTTTCATTTCTCTG
GAAGCTTTAAAAAAGGTGACCGAACTAGCAGTTGCCAGTGATCTTCATATTAGATGAATTTGATCTTT
TTGCTCATATAAAAACCAAACACTTCTCTATAATCTTTTTGACATTTCTCAGTCTGCACAGACCCCAAT
AGCAGTATTGGTCTTACATGTAGATTGGATATTTTGGAACTCTTAGAAAAAGAGTGAAGTCAAGATTT
TCTCACCAGCAGATACACTTAATGAATTCATTTGGTTTTCCACAGTATGTTAAAAATTTAAAGAACAGT
TATCTCTACCTGCAGAGTTTCCAGACAAGGTTTTTGTGAGAAGTGAATGAAAATGTTTCAGTATCTCTC
AGAAGATAGAAGTGTGCAAGAAGTACTACAGAAGCATTTCATATCAGCAAAAACCTGCGGTCAATACAC
ATGCTATTGATGCTTGCTTTAAATCGAGTAAACAGCATCGCACCCATTTATGACTGCGGTAGATCTAATGG
AAGCAAGCCAAGTGTAGCATGGACTCGAAAGCAAATATTGTACATGGTCTATCAGTCTTGAAAATCTG
TCTTATAATAGCAATGAAACATTTAAATGACATCTATGAGGAAGAGCCATTTAATTTTCAAATGGTCTAT
AATGAGTTTCAGAAGTTTGTTCAAAGGAAAGCACATTCGGTTTATAATTTTGAAAAACCTGTTGTCATGA
AGGCTTTTGAACACTTGCAGCAATTAGAATTAATAAAGCCCATGGAAAGAAGTTCAGGAAATTCACAGAG
AGAGTACCAGCTGATGAAACTGCTTTTGGATAATACTCAAATTATGAATGCTCTGCAGAAATATCCCAAC
TGTCTACAGATGTGAGGCAGTGGGCAACATCCTCACTAAGCTGGTTATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_181742 unedited CATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGTACGGTCCGCAGC GGCAGGTGAAGCCTAGCAGAGGACGCGCCAGGCGATTTCGGTGAAGCGATTCTGCAGGC GTTGGTCCCCTCTTTGACCTGGATTTGAATTTGTTGAAATGAGCAGTCGTAAATCAAAG AGTAACAGCTTAATTCACACAGAGTGCCTTTACAGGTACAAAGAATTTACGTGAAAGA TTTTGTCGTCAGAGTCCACATAGTAACCTATTTGGAGTGCAAGTACAATACAAACACTTA AGTGAGCTGCTGAAAAGAACTGCTCTCCATGGAGAGAGTAACTCTGTCCTTATTATCGGA CCCCGAGGATCAGGAAAACTATGTTAATAAGTCATGCTTTGAAAGAACTCATGGAAATA GAAGAAGTGAGTAAAAATGTATTACAAGTTCACCTAAATGGACTGCTGCAGATCAATGAC AAAATCGCCCTAAAGGAAATCACAAGGCAGTAAATCTGGAAAATGTAGTTGGAGATAAA GTTTTTGGAAAGCTTTGCTGAAAACCTTTCATTTCTTCTGGAAAGCTTTAAAAAAGGTGAC CGAACTAGCAGTTGCCAGTGATCTTCATATTAGATGAATTTGATCTTTTGTCTCATCAT AAAAACCAAACTTCTATAATCTTTTTGACATTTCTCAGTCTGCACAGACCCCAATA GCAGTTATTGGGCTACATGTAGATTGGATATTTGGGACTCTTAGAAAAAGAGTGAAGT CAAGATTTTCTACCCGGCAGATACACTTAATGAAATCATTGGTTTTCCACAGTATGTTA AAATATTTAAAGAAA
Restriction Sites:	NotI-NotI
ACCN:	NM_181742
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:	<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:	<u>NM_181742.1, NP_859526.1</u>
RefSeq Size:	2795 bp
RefSeq ORF:	1311 bp
Locus ID:	5000
UniProt ID:	<u>O43929</u>
Cytogenetics:	2q23.1
Protein Pathways:	Cell cycle

Gene Summary:

The origin recognition complex (ORC) is a highly conserved six subunit 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. This gene encodes a subunit of the ORC complex. Several alternatively spliced transcript variants, some of which encode the same protein, have been reported for this gene. [provided by RefSeq, Oct 2010]

Transcript Variant: This variant (3) differs in the 5' UTR, as compared to variant 4. Variants 1 through 4 encode the same protein (isoform 1). 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.