

## Product datasheet for **SC102065**

### ORC4L (ORC4) (AK055257) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ORC4L (ORC4) (AK055257) Human Untagged Clone
Tag:	Tag Free
Symbol:	ORC4
Synonyms:	ORC4L; ORC4P
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for AK055257, the custom clone sequence may differ by one or more nucleotides

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ATAGAACTAAATATCCATTTTTAAGTTTAAAAAAAATTGAGTCACACATTGAAGTGCTCAGTAGCCTAG
CGTGGACAGTGCAGCTCTTGAAGATTTAAGGAAAGAACTTTTAAAACAGTGGATTCCCCAAGTCCATT
GGCATCCCTTATAGGCCCTAGTAACCAGAATTTTCTTTCTGTAGCAACAAAAATGAGTACAGAGCATTG
CCATTTCTTCAAAGAAACAGGAAAAGTATTTTACAATACTGGAGGGTTTTTTCCCTAATAGTCTTATT
TTGTGAGAGCTGTGAAAATGAAAAGTTACCCAAGTATTTAAATTTTTTTTTTTTTTTTTTTTTTTGAGAT
GGAGTCTCCTGTGCGCTACGCTGGAGTACAGTGGCGGGCGCAATCTTGGCTCACTGCAACCTCTGCCTCC
CAAGTTAAGCGATTCTCCTGCCTCAGCCTCCTGAATAGCTGGGATTACAGGCGTGCACTACTATGCCCAT
CTAATTTTTGTATTCTTAGTAGAGACAGTGTTCACCATGTTGGTCAGGCTGGTCTCAAACCTCTGACCT
CATGATCCGCCACCTCGGCCTCCCAAAGTCTGGGATTACAGGCGTGAGCCACTGCGCCCAGCCTGCAT
TTAAATTTCTCAATAATTTGTAGCTGCTCATTTCTGAATTTTCAATTATGAAGATTTTGTATTTAGAAA
TGTTTTAAATCTGCACAGTTCTATTAGCTCTAACACCTGCAGCCTCCAGTATTTTCTCATGTTGAGAT
ATGAAGGTATCTGAGCTGTTTCTATCAGAAGATTTATGTGATACATAGAGAATATGTCCAGTGATG
TTTTTACAGTGAGTTGAAGAATATAATAGAATCCTCAGGAATCTATTTCAAGTGTATCATTATTTAATG
GTTAGTATATCATGATTTAATGGTTTTTTTTTTCATAACCTAATAACGTACCTAACACAACACTCAAGGT
TAGAAAAGATATAATAGGTGAATATTAAGGATAAGAGGAAGTAGACAAGAAAGAGCCCTATTAAGATGGG
GAAGATGGAAGAAGGTTGTGACAGTCTCAGTCAGACTTCTTAGAGGAAACAGGAGCCTGTCCCTTCTCT
CCATGTCCATACTAGCCTGCTGAATCCTTTACTTACAGGATCAGCTGAATATGTCTAGTTGACTCAAGGG
TCTTTTTCTGCCTCCCTCTGTTACAGCTGTGTTACCTTTTTACATAGCAAAGCAAAAATAGAGACAGACA
AAATATAAATGCAAATCTGAGTAGCCTAGGGAATTGATCAGAAAGTCTTATCTGATTTCTAGTTTTTAC
AGAGAAGTGGAAACTATTTATTAAGTACTAGGAGGAGCTATGATAGAGAATGAGGCTAGGAAGAAAACC
ATATTGTATATATTGAATTAAGTTTGCCTGTTTACATTCAACAATATATGGACAAGTAAGTGTGCACT
GACACTGTTTTACCTGATAATATGAGTTTTTATGGGGTTGTGAGAGTTTTTTAATCCTATTGATTGTTG
TTACATTTTGCTTCCAGTACTGTTCTGCAGCTGACCAAAATGCTAACTGTTCTCTGGGAGAGAACAG
GAGAGTTGCTCACTCTCCTCTCTATTCAACCTAAACTATTTCTTTCATCTTTGAGGCTTTTGAACACTTG
CAGCAATTAGAATTAATAAAGCCCATGGAAGAAGTTCAGGAAATTCACAGAGAGAGTACCAGCTGATGA
AACTGCTTTTGGATAAATACTCAAATATGAATGCTCTGCAGAAATATCCCACTGCTTACAGATGTGAG
GCAGTGGCAACATCCTCACTAAGCTGGTTATGAATATAACCAGTGACTTCAACTTTGGCATTTCATTCA
TACTTCTGTAGAGAACGAAAACATTTGTCATTAAACATGATATGCTAAACATTCTATAAACATTCTTGT
ATTTATGTGAGACTTGCCCATCTACTGTCTGGCTGTGCTTGCCTTTTAAATCATGAACAGTTACATGAT
TTATAATTTCACTGATTGAGATTACTTTGTAAGTAGCTGTTTCAAGAAGTAAAATATGACTGTTTTAGGG
ACTAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AK055257 unedited</p> <pre>CCGCGGGTCCGCATTTGTATCCGATTCCTACTATAGGCGGCCGCGAAATTCGCACGAGGCAG AATTTTCATTTCTTGTAGCAACAAAATGAGTACAGAGCATTGCCATTTCTCAAAGAAACA GGAAAAGTATTTTACAATACTGGAGGGTTTTTTTCCCCTAATAGTCTTATTTTGTGAGAG CTGTGAAAATGGAAAGGTTACCCAAGTATTTAAATTTTTTTTTTTTTTTTTTTTTTTTGA GATGGAGTCTCCTGTGCGCTACGCTGGAGTACAGTGGCGGGCGCAATCTGGCTCACTGC AACCTCTGCCTCCCAAGTTAAGCGATTCTCCTGCCTCAGCCTCCTGAATAGCTGGGATTA CAGGCGTGCACCACTATGCCATCTAATTTTGTATTCTTAGTAGAGACAGTGTTTCACC ATGTTGGTCAGGCTGGTCTCAAACCTCCTGACCTCATGATCCGCCACCTCGGCCTCCCAA AGTGCTGGGATTACAGGCGTGAGCCACTGCGCCAGCCTGCATTTAAATCTCAATAATT TGTAGCTGCTCATTTCTGAATTTTCAATTATGAAGTATTTTGTATTTAGAAATGTTTTA AATCTGCACAGTCTATTAGCTCTTAACACCTGCAGCCTCCAGTATTTTCTCATGTTCA GATATGAAGGTATCTGAGCTGTTTCTCTATCAGAAGAATTTATGTATACATAGAGAATA TGTTCCAGTGATTTTTTACAGTGAGTTGTAAGAAATAATAGAATCCTTAAGAATCTTT TCAGTGTATCATTATTTATGGTTAGTATATCATGATTTAATGGTTTTTTTTTTCATAACC TATAACCTCCCCACACAACACTCNAAGTTAGAAAAAATTTATAGGGGATTTTAAGGATAG AAGA</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for AK055257 unedited</p> <pre>TTCGTACATCTATGNNACCGCGCCGCAATCNAGNGATCGATTTTTTTTTTTTTTTTTTTTC ATGGTAAAACATTTGTTATTTAGACATAGAAAAGTACAGTAAAAATTGGTATAATCTTAT GAGACCACCTTTATACAATGTCATTGACCAAAATGTTACGTGGTGCCATGACTATACTT GTTAAGAAGGAAAATCCAGTCCTTTTGACCTATGGTAGGCTCAACAATCTGTAATTTTA GAAAATCTACAAGGATTCTGATGTGGATGGTATGAGTACCACATTTTGAGATGTCTAG AAGAAAAATCTTCAAACCTCTTGGCCTTTTTCTCCATGGAACCATCTTCTGACTAAGCT GGTTAGTCTTCTGAACCTAGAAAACCTGGGTCTGGGATAGAATCCAAAATTTGCATGTGGA CAGAAAAAAACACTGCAGCAAACCTGCTGTACCAAAGGTTACTTATTACTTCACTGCTAG TACCATTGTTTTTTTTACTCCTTTGGTTAAGGTTTGTAAAGACATCTAGCTGTTAGGTT GAAGTGAGCTCTCAAATAGACCATTATATATAAAGTGTTAAAAAAGCACATGGTCTAG TGAAATTATAAATCATGTAAGTCTGATTAAGGCAAGACACAGCCAAGACAGTAG ATGGGCAAGTCTCACATAAATACAAGAATGTTTATAGAATGTTTAGCATATCATGTTAAT GGACAATAGTTTTCCGTTCTCTACAGAAGTATGAATGAAATGCCAAAGTTGAAGTCACTG GTTATATTCATAACCAGCTTAGTGAGGATGTTGCCCACTGCCTCACATCTGTAGGACAGT TGGA</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK055257
<b>Insert Size:</b>	2600 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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:** [AK055257.1](#)

**RefSeq Size:** 2105 bp

**RefSeq ORF:** 2105 bp

**Locus ID:** 5000

**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]