

Product datasheet for **SC109525**

ORC5L (ORC5) (NM_181747) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ORC5L (ORC5) (NM_181747) Human Untagged Clone
Tag:	Tag Free
Symbol:	ORC5
Synonyms:	ORC5L; ORC5P; ORC5T; PPP1R117
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_181747, the custom clone sequence may differ by one or more nucleotides

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ATGCCCACTTGGAAAACGTGGTGCTTTGTGCGGAGTCTCAAGTGTCCATCTTGCAGTCCTTGTGGAG
AGAGACATCATTTAGCTTTCCATCCATTTTTATTTATGGACATACTGCTAGTGGAAAGACCTATGTAAC
ACAAACGTTGTTGAAAACTTTAGAGCTCCACATGTGTTGTGAATTGTGTTGAATGCTTACATTGAGG
CTGCTTTTGGAAACAAATTTAAACAAATGAATCATCTTAGTTCTTCAGAGGATGGATGTTCTACTGAAA
TAACCTGTGAAACATTTAATGACTTTGTTCGCTTGTAAACAAGTAACACAGCTGAAAATCTTAAAGA
TCAGACTGTATATATTGTTCTAGATAAAGCAGAGTATCTAAGAGATATGGAAGCAAATCTTTGCCTGGA
TTTCTTAGATTACAAGAATTGGCTGACAGAAATGTGACTGTTCTCTTTCTCAGTGAATTTGTTGGAAA
AGTTTCGTCCAAATACTGGATGCTTTGAGCCGTTTGTCTTATATTTCCCTGATTACAGCATAGGCAACCT
TCAAAAGATCCTGTCCCATGATCATCCTCCAGAGTATTCAGCTGATTTCTATGCTGCCTACATTAACATT
CTTCTGGAGTTTTCTACACTGTTTGTGCGAGATTTGAAAGAGCTCAGACATCTGGCAGTACTTAATTTTC
CTAAATATTGTGAACCCGTGGTTAAAGGAGAAGCAAGTGAACGTGATACTCGAAACTGTGGAGAAATAT
TGAACCTCATTTGAAGAAAGCTATGCAGACTGTTATCTCAGGGAATATCAAGTTCCAGTGGGAAAAG
CTACAGAAAGATGACACAGATCCGGGGCAACTGAAAGGTATCAGAGGAAGTATTGAGACAGTTACCGGAG
ATACTTCTCAGCTAATTATCAAGATACTAAAGTTAATACTAAAGAGCATTTCAGTCAGGAAATAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_181747 unedited AATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGCTGCGGGTCCGGTTCCGG CGGGAGCGTGGGCCGCCAGACTCGGGAGAGGCTGCGTCTTGTGCAAGGGTCTGTGGGCT GGCTGCACTGGCCTCTGCGGTGGTGCCTGCCAGAATGCCCCACTTGAAAAACGTGGTGCT TTGTCCGAGTCTCAAGTGTCCATCTTGACATCCTTGTGGAGAGACATCATTTCAG CTTCCATCCATTTTTATTTATGGACATACTGCTAGTGGAAAGACCTATGTAACACAAAC GTTGTTGAAAACTTTAGAGCTCCACATGTGTTGTGAATTGTGTTGAATGCTTTACATT GAGGCTGCTTTTGAACAAATTTTAAACAAATTGAATCATCTTAGTTCTTCAGAGGATGG ATGTTCTACTGAAATAACCTGTGAAACATTTAATGACTTTGTTTCGCTTGTTTAAACAAGT AACCACAGCTGAAAATCTTAAAGATCAGACTGTATATATTGTTCTAGATAAAGCAGAGTA TCTAAGAGATATGGAAGCAAATCTTTGCTGGATTTCTTAGATTACAAGAATTGGCTGA CAGAAATGTGACTGTTCTCTTCTCAGTAAATGTTTGGGAAAAGTTTCGTCCAATAC TGGATGCTTTGAGCCGTTTGTCTTATATTTCCCTGATTACAGCATAGGCAACCTTCANAA GATCCTGTCCCATGATCATCCTCCAGAGTATTCAGCTGATTTCTATGCTGCCTACATTAC ATTCTTCTGGNNAGTTTCTACACTGTTTGTGCGAGATTTGAAAGACTAGACTCCTGGCAT ACTTATTTTCTAAATATGTGAACCCGTGGTAAAAGAGAAGCAGTGACGTGATCTCGCAA CCTGTGAGAATATTGAACTCATTGAGAACTAGCAGACGTTTC
Restriction Sites:	NotI-NotI
ACCN:	NM_181747
Insert Size:	1980 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:	<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_181747.1</u> , <u>NP_859531.1</u>
RefSeq Size:	1334 bp
RefSeq ORF:	975 bp
Locus ID:	5001
UniProt ID:	<u>O43913</u>
Cytogenetics:	7q22.1-q22.2
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. The protein encoded by this gene is a subunit of the ORC complex. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Oct 2010]

Transcript Variant: This variant (2) lacks multiple 3' exon, but has an alternate 3' segment, as compared to variant 1. The resulting isoform (2) is much shorter and has a distinct C-terminus, as compared to isoform 1.