

Product datasheet for **RG205681**

ORC5L (ORC5) (NM_002553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ORC5L (ORC5) (NM_002553) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ORC5L
Synonyms:	ORC5L; ORC5P; ORC5T; PPP1R117
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205681 representing NM_002553 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCCCACTTGGAAAACGTGGTGCTTTGTGCGGAGTCTCAAGTGTCCATCTTGCAGTCCTTGTGGAG
AGAGACATCATTTAGCTTTCCATCCATTTTATTTATGGACATACTGCTAGTGGAAAGACCTATGTAAC
ACAAACGTTGTTGAAAACTTAGAGCTCCACATGTGTTGTGAATTGTGTTGAATGCTTTACATTGAGG
CTGCTTTTGAACAAATTTAAACAAATGAATCATCTTAGTTCTTCAGAGGATGGATGTTCTACTGAAA
TAACCTGTGAAACATTTAATGACTTTGTTCGCTTGTAAACAAGTAACCACAGCTGAAAATCTTAAGA
TCAGACTGTATATATTGTTCTAGATAAAGCAGAGTATCTAAGAGATATGGAAGCAAATCTTTGCCTGGA
TTTCTTAGATTACAAGAATTGGCTGACAGAAATGTGACTGTTCTCTTTCTCAGTGAATTTGTTGGAAA
AGTTTCGTCCAAATACTGGATGCTTTGAGCCGTTTGTCTATATTTCCCTGATTACAGCATAGGCAACCT
TCAAAAGATCCTGTCCATGATCATCCTCCAGAGTATTCAGCTGATTTCTATGCTGCCTACATTAACATT
CTTCTGGAGTTTTCTACTGTTTGTGCGAGATTTGAAAGAGCTCAGACATCTGGCAGTACTTAATTTTC
CTAAATATTGTGAACCCGTGGTTAAAGGAGAAGCAAGTGAACGTGATACTCGAACTGTGGAGAAATAT
TGAACCTCATTTGAAGAAAGCTATGCAGACTGTTTATCTCAGGAAATATCAAGTTCCAGTGGGAAAAG
CTACAGAAAGATGACACAGATCCGGGGCAACTGAAAGGCCTCTCAGCGCATACTCATGTGGAACCTCCAT
ATTACTTAAGTTCAATTCTAATTGCTGCATACCTTGTTCATACAATCCAGCAAGAACTGACAAGAGGTT
TTTTCTTAAGCATCATGAAAAATCAAGAAAAACCAACTTTCTAAAAAACACGAAAAAGACAAGCAATCAT
CTCCTTGGGCCAAAACCTTTCCACTAGACAGATTATTAGCAATATTATATAGTATCGTGGACAGCAGAG
TTGCTCCAACAGCAAATATTTTTCCAGATTACCTCTCTAGTGACCCTCAGCTGTTAACCTGGTTGG
CCATGACGATCAGCTTGATGGACAAAATACAAATGCACAGTGTCTCTAGACTTCATCAGAGCTATTGCA
AGGACGGTGAACCTTTGACATAATAAAATACTTGTATGATTTCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205681 representing NM_002553
Red=Cloning site Green=Tags(s)

MPHLENVVLCRESQVSILQSLFGERHHFSFPSIFIYGHASGKTYVTQTLLKTLELPHVFNVCVECFTLR
 LLLLEQILNKLNLHLSSEEDGCSTEITCETFNDFVRLFKQVTTAENLKDQTVYIVLDKAEYLKRDMEANLLPG
 FLRLQELADRNVTVFLSEIVWEKFRPNTGCFEPFVLVFPDYSIGNLQKILSHDHPPEYSADFYAAYINI
 LLGVFYTVCRDLKELRHLAVLNFPKYCEPVVKGAEASERDTRKLWRNIEPHLKKAMQTVYLRREISSSQWEK
 LQKDDTDPGQLKGLSAHTHVELPYYSKFLIAAYLASYNPARTDKRFFLKHHGKIKKTNFLKKHEKTSNH
 LLGPKPFLDRLLAAILYIVDSRVAPTANIFSQITSLVTLQLLTLVGHDDQLDGPYKCTVSLDFIRAIA
 RTVNFDIKLYDFL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002553

ORF Size: 1305 bp

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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_002553.4](#)

RefSeq Size: 1930 bp

RefSeq ORF: 1308 bp

Locus ID: 5001

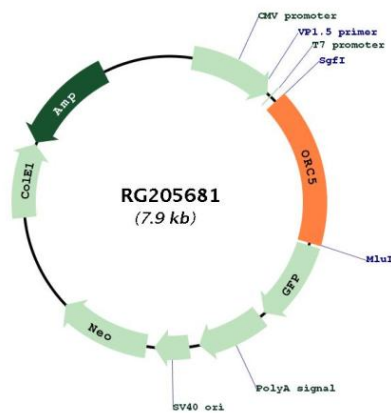
UniProt ID: [O43913](#)

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]

Product images:



Circular map for RG205681