

Product datasheet for **RG218245**

ORC3L (ORC3) (NM_012381) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ORC3L (ORC3) (NM_012381) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ORC3
Synonyms:	LAT; LATHEO; ORC3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG218245 representing NM_012381
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCTACGTCCTCGATGTCTAAGGTTGCTTTGTTTTAAGCCAACTCCAAAAAGAGAAAGATCTCTC
TGCCAATAGAGGACTATTTAACAAGGAAAAATGAGCCTGAGGACAGTAAGCTTCGATTCGAACTTA
TCAGTTGATATGGCAGCAGATGAAATCTGAAAATGAGCGACTACAAGAGGAATTAATAAAAACTTGTTT
GACAATCTGATTGAATTTCTGAAAAATCACATTCTGGATTCCAGAAGAATCAAGAGACTTGGCGGGT
AAATAAACTCAGAGAAATCCAAGTCTGCTCTTGTCTTGGTGTGAATGTCACAGATCATGATTTGAC
ATTCGGAAGTCTAACAGAGGCCCTCAGAATAATGTCACACCATATGTAGTCTCATTGCAAGCTAAAGAT
TGTCAGATATGAAACATTTTTGCAAAAGTTGATCTCACAGTTGATGGACTGCTGTGTAGATATAAAAT
CCAAAGAGGAGGAAAGTGTTCAGTCACCCAAAGAAAGACACATTATTCAATGGATTCACTTTCCAGTTG
GTATATGACTGTCACACAGAAGACGGACCCAAAAATGCTAAGCAAAAAAGGACTACTTCTAGCCAAATGG
CAGTCTCCTCCTGTTGTGCTTATCTTGAAGGATATGGAAAAGCTTGGCCACAAAAGTACTACAAGACTTCA
TAATTATCAGCAGTCAACATCTCCATGAATTTCCACTAATACTCATTTTTGGAATAGCCACATCTCCTAT
TATCATCCACCGATTGCTTCCATGCAGTATCATCTCTATTGTGCATAGAACTGTTCCAATCTTTGCT
TGTAAGGAGCACCTGACTACGGTACTCGATAAGCTACTTCTTACAACCTCAGTTTCCCTTTAAAAATAATG
AAAAAGTATTACAGGTTCTGACCAACATCTTTTGTATCATGATTTCTCAGTTCAAACTTTATAAAAGG
ACTTCAGCTTTCTCTATTAGAGCATTTCTATCCAGCCCTTAAGTGTCTGTGCTGTAATCTTCCAGAA
GCCAAAAGAAGAATAAATTTTTATCAAATAATCAATGTGAAAACATCCGACGTCTACCATCTTTTAGGA
GGTACGTGGAAAAGCAAGCTTCAGAAAAGCAAGTTGCGCTCTTGACCAATGAGAGATATTTGAAGGAGGA
AACACAATTATTACTAGAAAACCTGCATGTTTATCATATGAATTACTTCTGGTTTTGAGATGCTTCAT
AAGTTCACCTCTTCTTCCCAAGTATCCACTAGGTCGACAGATCAGAGAGTTGACTGTACATGTTTAG
AAAAGAACATATGGGATTCAGAGGAGTATGCATCAGTCTTGCAGCTGCTGAGGATGTTGGCAAAGGATGA
ACTGATGACCATACTTGAGAAATGTTTCAAGGTTTTAAGTCTTATTGTGAAAACCACTTGGCAGCACA
GCTAAGAGAATAGAGGAGTTCCTGGCCAGTTTCAGAGCCTCGATGAAACCAAAGAGGAAGAAGATGCTT
CTGGGTCACAGCCAAAGGGGCTTCAGAAGACAGACCTCTATCATCTTCAAGATCCTTATTGAAATGAA
GGAGTTAAGAAGAAGTAAGAAGCAAACCAATTTGAAGTACTCAGAGAAAATGTTGTGAAGTTCATTGAC
TGCTAGTGAGAGAATACCTTCTGCCTCCTGAGACACAGCCTCTCCATGAGGTGGTGTACTTCAGTGCTG
CCCATGCCCTTCGTGAGCATTTAAATGCTGCTCCGCGAATTGCCCTCCATCTGCACTCAACAATCCTTA
CTATTATCTCAAGAAATGAAGCACTGAAAAGCGAAGAAGGCTGCATTCCGAATATCGCCCCAGACATCTGC
ATAGCATACAACTGCACCTAGAGTGTAGCAGGCTCATCAACCTCGTGGACTGGTCAGAGGCTTTTGCAA
CAGTTGTGACAGCTGCTGAAAAATGGATGCAAAATCTGCAACCTCAGAAGAAATGAATGAAATTTCCA
TGCTCGGTTTATTAGAGCTGTTCTGAAGTACTGAACTTTTAGGATTTATAAAACCTACCAACAGAAGACT
GACCATGTGGCAAGACTAACATGGGGAGGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218245 representing NM_012381
 Red=Cloning site Green=Tags(s)

MATSSMSKGCVFVKPNSKKRKISLPIEDYFNKGKNEPEDSKLRFETYQLIWQQMKSENERLQEELNKNLF
 DNLIIEFLQKSHSGFQKNSRDLGGQIKLREIPTAALVLGVNVDHDLTFGSLTEALQNNVTPYVVSQAKD
 CPDMKHFLQKLIISQLMCCVDIKSKEEESVHVVTQRKTHYSMDLSWSWYMTVTQKTDPKMLSKKRTTSSQW
 QSPPPVVILKDMESFATKVLQDFIIISSQHLHEFPLILIFGIATSPIIIHRLPHAVSSLLCIELFQSL
 CKHELTTVLDKLLLTTFPFKINEKVLQVLTNIFLYHDFSVQNFIKGLQLSLEHFYSQPLSVLCCNLPE
 AKRRINFLSNNQCENIRRLPSFRRYVEKQASEKQVALLTNERYLKEETQLLLENLHVYHMNYFLVLRCLH
 KFTSSLPKYPLGRQIRELYCTCLEKNIWDEEYASVLQLLRMLAKDELMTILEKCFKVFKSYCENHLGST
 AKRIEEFLAQFQSLDEKKEEDASGSQPKGLQKTDLYHLQKSLLEMKELRRSKKQTKFEVLRNVNFID
 CLVREYLLPPETQPLHEVVYFSAHALREHLNAPRIALHTALNPPYYLKNEALKSEEGCIPNIAPDIC
 IAYKLHLECSRLINLVDWSEAFATVVTAEEKMDANSATSEEMNEIIHARFIRAVSELELLGFIKPTKQKT
 DHVARLTWGGC

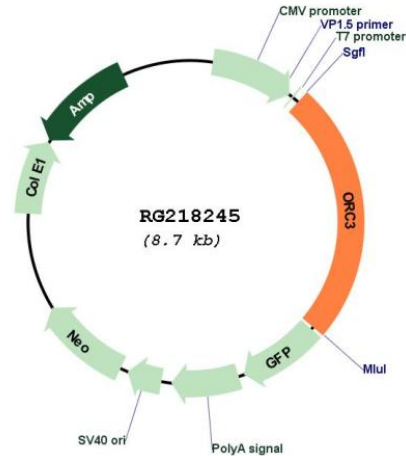
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_012381

ORF Size: 2133 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_012381.4](#)

RefSeq Size: 2528 bp

RefSeq ORF: 2136 bp

Locus ID: 23595

UniProt ID: [Q9UBD5](#)

Cytogenetics: 6q15

Protein Pathways: Cell cycle

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 a subunit of the ORC complex. Studies of a similar gene in *Drosophila* suggested a possible role of this protein in neuronal proliferation and olfactory memory. Alternatively spliced transcript variants encoding distinct isoforms have been reported for this gene. [provided by RefSeq, Jul 2008]