

Product datasheet for **RG202854**

ORC3L (ORC3) (NM_181837) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ORC3L (ORC3) (NM_181837) 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)



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ORF Nucleotide Sequence:

>RG202854 representing NM_181837
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTACGTCCTCGATGTCTAAGGGTTGCTTTGTTTTAAAGCCAACTCCAAAAAGAGAAAGATCTCTC
 TGCCAATAGAGGACTATTTAAACAAAGGAAAAATGAGCCTGAGGACAGTAAGCTTCGATTCGAAACTTA
 TCAGTTGATATGGCAGCAGATGAAATCTGAAAATGAGCGACTACAAGAGGAATTAATAAAAACTTGTTT
 GACAATCTGATTGAATTTCTGCAAAAATCACATTCTGGATTCCAGAAGAATCAAGAGACTTGGCGGTC
 AAATAAACTCAGAGAAATCCAAGTCTGCTCTTGTCTTGGTGTGAATGTCACAGATCATGATTTGAC
 ATTCGGAAGTCTAACAGAGGCCCTCAGAATAATGTCACACCATATGTAGTCTCATTGCAAGCTAAAGAT
 TGTCAGATATGAAACATTTTTGCAAAAGTTGATCTCACAGTTGATGGACTGCTGTGTAGATATAAAAT
 CCAAAGAGGAGGAAAGTGTTCAGTCCCAAAAGAAAGACACATTATTCAATGGATTCACTTTCCAGTTG
 GTATATGACTGTCACACAGAAGACGGACCCAAAAATGCTAAGCAAAAAAGGACTACTTCTAGCCAATGG
 CAGTCTCCTCCTGTTGTGCTTATCTTGAAGGATATGGAAAAGCTTGGCCACAAAAGTACTACAAGACTTCA
 TAATTATCAGCAGTCAACATCTCCATGAATTTCCACTAATACTCATTGGAATAGCCACATCTCCTAT
 TATCATCCACCGATTGCTTCTCATGCAGTATCATCTCTATTGTGCATAGAACTGTTCCAATCTTTGTCT
 TGTAAGGAGCACCTGACTACGGTACTCGATAAGCTACTTCTTACAACCTCAGTTTCCCTTTAAAAATAATG
 AAAAGTATTACAGGTTCTGACCAACATCTTTTGTATCATGATTTCTCAGTTCAAACTTTATAAAAGG
 ACTTCAGTCTTCTCTATTAGAGCATTCTATTCCAGCCCTTAAGTGTCTGTGCTGTAATCTTCCAGAA
 GCCAAAAGAAGAATAAATTTTTATCAAATAATCAATGTGAAAACATCCGACGTCTACCATCTTTTAGGA
 GGTACGTGGAAAAGCAAGCTTCAGAAAAGCAAGTTGCGCTCTTGACCAATGAGAGATATTTGAAGGAGGA
 AACACAATTATTACTAGAAAACCTGCATGTTTATCATATGAATTACTTCCCTGGTTTTGAGATGCTTCAT
 AAGTTCACCTCTTCTTCCCAAGTATCCACTAGGTCGACAGATCAGAGAGTTGACTGTACATGTTTAG
 AAAAGAACATATGGGATTCAGAGGAGTATGCATCAGTCTTGCAGCTGCTGAGGATGTTGGCAAAGGATGA
 ACTGATGACCATACTTGAGAAATGTTTCAAGGTTTTAAGTCTTATTGTGAAAACCACTTGGCAGCACA
 GCTAAGAGAATAGAGGAGTTCCTGGCCAGTTTCAGAGCCTCGATGCAGAAACCAAGAGGAAGAAGATG
 CTTCTGGGTCACAGCCAAAGGGCTTCAGAAGACAGACCTCTATCATCTCAGAAGTCTTATTGGAAT
 GAAGGAGTTAAGAAGAAGTAAGAAGCAACCAATTTGAAGTACTCAGAGAAAATGTTGTGAACTTCATT
 GACTGTCTAGTGAGAGAATACCTTCTGCCTCCTGAGACACAGCCTCTCCATGAGGTGGTGTACTTCAGTG
 CTGCCATGCCCTTCGTGAGCATTAAATGCTGCTCCGCGAATTGCCCTCCATACTGCACTCAACAATCC
 TTAATTTATCTCAAGAATGAAGCACTGAAAAGCGAAGAAGGCTGCATTCCGAATATCGCCCAGACATC
 TGCATAGCATACAACTGCACCTAGAGTGTAGCAGGCTCATCAACCTCGTGGACTGGTCAGAGGCTTTTG
 CAACAGTTGTGACAGCTGCTGAAAAATGGATGCAAAATCTGCAACCTCAGAAGAATGAATGAAATTTAT
 CCATGCTCGGTTTATTAGAGCTGTTTCTGAACTAGAACTTTTAGGATTTATAAAACCTACCAACAGAAAG
 ACTGACCATGTGGCAAGACTAACATGGGGAGGCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG202854 representing NM_181837
 Red=Cloning site Green=Tags(s)

MATSSMSKGCVFVKPNSKKRKISLPIEDYFNKGKNEPEDSKLRFETYQLIWQQMKSENERLQEELNKNLF
 DNLI EFLQKSHSGFQKNSRDLGGQIKLREIPTAALVLGVNVDHDLTFGSLTEALQNNVTPYVVS LQAKD
 CPDMKHFLQKLI S QLMDCCVDIKSKEEESVHVVTQRKTHYSMDLS SSWYMTVTQKTDPKMLSKKRTTSSQW
 QSPVVVILKDMESFATKVLQDFI I I S S Q H L H E F P L I L I F G I A T S P I I I H R L L P H A V S S L L C I E L F Q S L S
 C K E H L T T V L D K L L L T T Q F P F K I N E K V L Q V L T N I F L Y H D F S V Q N F I K G L Q L S L L E H F Y S Q P L S V L C C N L P E
 A K R R I N F L S N N Q C E N I R R L P S F R R Y V E K Q A S E K Q V A L L T N E R Y L K E E T Q L L L E N L H V Y H M N Y F L V L R C L H
 K F T S S L P K Y P L G R Q I R E L Y C T C L E K N I W D S E E Y A S V L Q L L R M L A K D E L M T I L E K C F K V F K S Y C E N H L G S T
 A K R I E E F L A Q F Q S L D A E T K E E D A S G S Q P K G L Q K T D L Y H L Q K S L L E M K E L R R S K K Q T K F E V L R E N V V N F I
 D C L V R E Y L L P P E T Q P L H E V V Y F S A A H A L R E H L N A A P R I A L H T A L N N P Y Y L K N E A L K S E E G C I P N I A P D I
 C I A Y K L H L E C S R L I N L V D W S E A F A T V V T A A E K M D A N S A T S E E M N E I I H A R F I R A V S E L L L G F I K P T K Q K
 T D H V A R L T W G G C

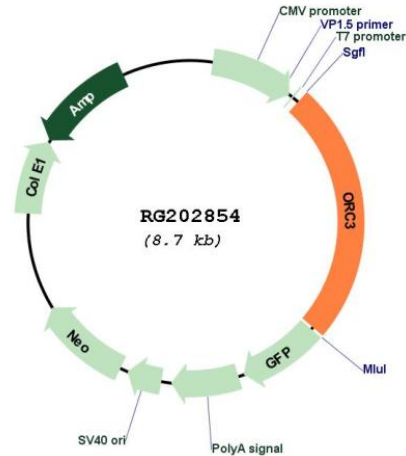
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_181837

ORF Size: 2136 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_181837.2](#), [NP_862820.1](#)

RefSeq Size: 2589 bp

RefSeq ORF: 2139 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]