

## Product datasheet for **RG209054**

### ORC6L (ORC6) (NM\_014321) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ORC6L (ORC6) (NM_014321) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ORC6L
Synonyms:	ORC6L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209054 representing NM_014321 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGTCGGAGCTGATCGGGCGCCTAGCCCCGCGCCTGGGCCTCGCCGAGCCCGACATGCTGAGGAAAG  
CAGAGGAGTACTTGCCTGTCCCGGTGAAGTGTGTGGCCTCTCCGCACGCACCACGGAGACCAGCAG  
TGCAGTCATGTGCCTGGACCTTGCAGCTTCTGGATGAAGTGCCCTTGGACAGGGCTTATTTAATTTAA  
CTTTCTGGTTTGAACAAGGAGACATATCAGAGCTGTCTAAATCTTTGAGTGTTTACTGGCCTGAATT  
CAAATATTGGAATAAGAGACCTAGCTGTACAGTTTAGCTGTATAGAAGCAGTGAACATGGCTTCAAAGAT  
ACTAAAAAGCTATGAGTCCAGTCTTCCCAGACACAGCAAGTGGATCTTGACTTATCCAGGCCACTTTTC  
ACTTCTGCTGCACTGCTTTCAGCATGCAAGATTCTAAAGCTGAAAGTGGATAAAAAACAAATGGTAGCCA  
CATCCGGTGTAAGGCTATATTTGATCGACTGTGTAACAACACTAGAGAAGATTGGACAGCAGGTCTGA  
CAGAGAACCTGGAGATGTAGTACTCCACCACGGAAGAGAAAGAGATAGTGGTTGAAGCCCAGCAAAG  
GAAATGGAGAAGGTAGAGGAGATGCCACATAAACACAGAAAGATGAAGATCTGACACAGGATTATGAAG  
AATGGAAGAAAAATTTGGAAAATGCTGCCAGTGCTCAAAGGCTACAGCAGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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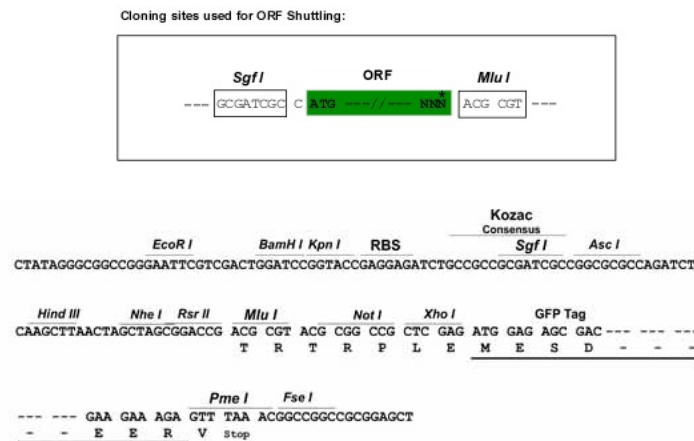
**Protein Sequence:** >RG209054 representing NM\_014321  
 Red=Cloning site Green=Tags(s)

MGSELIGRLAPRLGLAEPDMLRKAEEYLRLSRVKCVGLSARTTETSSAVMCLDLAASWMKCPLDRAYLIK  
 LSGLNKETYSCLKSFECLLGLNSNIGIRD LAVQFSCIEAVNMASKILKSYESSLPQTQQVDLDSRPLF  
 TSAALLSACKILKLVKDKNMVATSGVKKAI FDR LCKQLEKIGQQVDREPGDVATPPRRKKIVVEAPAK  
 EMEKVEEMPHKPQKDEDLTQDYEEWKRKILENAASAQKATAE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014321

**ORF Size:** 756 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\\_014321.4](#)

**RefSeq Size:** 1647 bp

**RefSeq ORF:** 759 bp

**Locus ID:** 23594

**UniProt ID:** [Q9Y5N6](#)

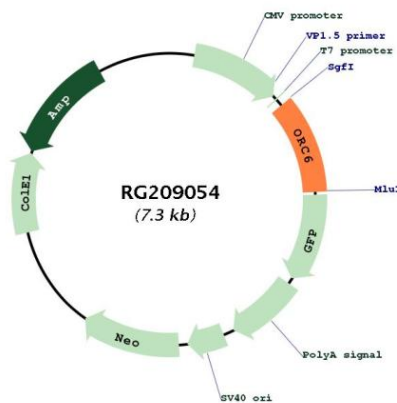
**Cytogenetics:** 16q11.2

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**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. Gene silencing studies with small interfering RNA demonstrated that this protein plays an essential role in coordinating chromosome replication and segregation with cytokinesis. [provided by RefSeq, Oct 2010]

### Product images:



Circular map for RG209054