

Product datasheet for **RG230815**

ORC4L (ORC4) (NM_001190882) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ORC4L (ORC4) (NM_001190882) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ORC4
Synonyms:	ORC4L; ORC4P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230815 representing NM_001190882 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAGTCGTAATCAAAGAGTAACAGCTTAATTCACACAGAGTGCCTTTCACAGGTACAAAGAATTT
TACGTGAAAGATTTTTCGTCGAGAGTCCACATAGTAACCTATTTGGAGTGCAAGTACAATACAAACACTT
AAGTGAGCTGCTGAAAAGAACTGCTCTCCATGGAGAGAGTAACCTGTCTTATTATCGGACCCCGAGGA
TCAGGAAAAACTATGTTAATAAATCATGCTTTGAAAGAACTCATGAAAATAGAAGAAGTGAGTGAAAATG
TATTACAAGTTCACTTAAATGGACTGCTGCAGATCAATGACAAAATCGCCCTAAAGGAAATCACAAGGCA
GTTAAATCTGGAAAATGTAGTTGGAGATAAAGTTTTTGGAAAGCTTTGCTGAAAACCTTTCATTTCTCTG
GAAGCTTTAAAAAAGGTGACCGAACTAGCAGTTGCCAGTGATCTTCATATTAGATGAATTTGATCTTT
TTGCTCATATAAAAACCAACACTTCTCTATAATCTTTTTGACATTTCTCAGTCTGCACAGACCCCAAT
AGCAGTTATTGGTCTTACATGTAGATTGGATATTTTGGAACTCTTAGAAAAAAGAGTGAAGTCAAGATTT
TCTCACCGGCAGATACACTTAATGAATTCATTTGGTTTTCCACAGTATGTTAAAAATTTAAGAACAGT
TATCTCTACCTGCAGAGTTCCAGACAAGGTTTTGCTGAGAAGTGAATGAAAATGTTCCAGTATCTCTC
AGAAGATAGAAGTGTGCAAGAAGTACTACAGAAGCATTTCATATCAGCAAAAACCTGCGGTCATTACAC
ATGCTATTGATGCTTTGTTTAAATCGAGTAACAGCATCGCACCCATTTATGACTGCGGTAGATCTAATGG
AAGCAAGCCAACCTGTGTAGCATGGACTCGAAAGCAAATATTGTACATGGTCTATCAGTCTTGAAAATCTG
TCTTATAATAGCAATGAAACATTTAAATGACATCTATGAGGAAGAGCCATTTAATTTTCAAATGGTCTAT
AATGAGTTTCAGAAGTTTGTTCAAAGGAAAGCACATTCGTTTATAATTTTGA AAAACCTGTTGTCATGA
AGGCTTTTGAACACTTGCAGCAATTAGAATTAATAAAGCCATGGAAAGAACTTCAGGAAATTCACAGAG
AGAGTACCAGCTGATGAAACTGCTTTTGGATAATACTCAAATTATGAATGCTCTGCAGAAATATCCCAAC
TGTCTACAGATGTGAGGCAGTGGGCAACATCCTCACTAAGCTGGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230815 representing NM_001190882
 Red=Cloning site Green=Tags(s)

MSSRKSKSNSLIHTECLSQVQRILRERFCRQSPHSNLFVGVQVQYKHLSELLKRTALHGESNSVLIIGPRG
 SGKTMLINHAKELMEIEEVSENVLQVHLNGLLQINDKIALKEITRQLNLENVVGDVFGSFAENLSFLL
 EALKKGDRTSSCPVIFILDEFDLFAHKNQTLNLFDISQSAQTPIAVIGLTCRLDILELLEKRVKSRF
 SHRQIHLMNSFGFPQYVKIFKEQLSLPAEFDPKVFVFAEKWNENVQYLSEDRSVQEVLPKHFNISKNLRSRH
 MLLMLALNRVTASHPFMTAVDLMEASQLCSMDSKANIVHGLSVLEICLI IAMKHLNDIYEEEPFNFMVY
 NEFQKFVQRKAHSVYNFEKPVVMKA FEHLQQLLEIKPMERTSGNSQREYQLMKLLLDNTQIMNALQKYPN
 CPTDVRQWATSSLSWL

TRTRPLE - GFP Tag - V

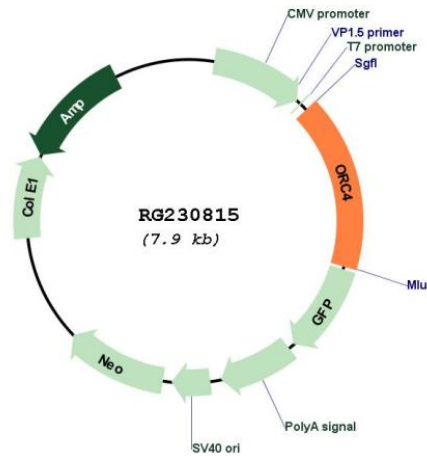
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001190882

ORF Size:	1311 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:	<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:	NM_001190882.2 , NP_001177811.1
RefSeq Size:	6472 bp
RefSeq ORF:	1089 bp
Locus ID:	5000
UniProt ID:	O43929
Cytogenetics:	2q23.1
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. This gene encodes a subunit of the ORC complex. Several alternatively spliced transcript variants, some of which encode the same protein, have been reported for this gene. [provided by RefSeq, Oct 2010]