

Product datasheet for **MG206909**

Orc4 (NM_011958) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Orc4 (NM_011958) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Orc4
Synonyms: mMmORC4; Orc4l; Orc4P
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG206909 representing NM_011958
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCAGTCGTAACCAAGAGTAATGCACATGCAGAGTGTCTTTCACAGGTACAAAGAATTTACGTG
AAAGATTTTGTGCATCATAGTCCACATAGCAACCTCTTTGGAGTGAAGTACAATACAAGCATTGATTGA
GCTACTCAAAGAAGTCTATCTATGGAGAAAGCAATTCTGTACTCATTGTTGGACCACGAGGATCAGGA
AAGACCACATTATTAATCATGCTTTGAAAGAAGTCAAGAAATAGAAGTGAAGTAAAATGTGATACAAG
TTCACCTAAATGGACTCCTGCAGACAAATGAAAAAATTGCTCTGAAAGAGATCACAAGACAATTAATCT
AGACAATGTAGTTGAAGATAAAGTTTTTGGAAAGCTTTGCTGAAAACCTTTCATTTCTTGGAAAGCTTTG
CAAAAAGGTGACCGGACTAGCAGTTGCCAGTGATCTTCACTGGATGAATTTGATATTTTGGCTCATC
AGAAAAATCAAACACTCCTTTATAATCTTTTTGACATTTCTCAATCTGCACAGACACCAGTAGCAGTTAT
TGGACTTACATGTAGATTGGATATTTTGGAACTTTAGAAAAGAGAGTGAAGTCACGATTTTCTCACCGG
CAGATACATTTAATGAATTCATTTGATTTTCCACAATATTTGAAAATATTTAAAGAACAGTTATCTCTAC
CTGCAGAATCCAGATAAAGCTTTTGTGAGAGATGGAATGAGAATGTTCACTGTCTCTGAAGATTC
AACTGTGCTTGAAGTCTACAGAAACATTTCAAGTGTCAACAAAACCTTGCAGTCATTACACATGCTATTG
ATGCTTGTCTTAAATCGAGTAACCGTATCACACCCATTTATGACTTCAGCAGATGATGGAGGCCACAG
ATATGTGTAGCTTGGATTCTAAGGCGAATATTGTACATGGTCTGTCAAGTCTTGGAAATCTGTCTTATAAT
AGCAATGAAACATTTAAATGACATATATGAAGAGGAGCCCTTTAATTTTCAAATGGTGTATAATGAATTT
CAGAAATTCATTCAAAGAAAGGCCATTCTGTTTATAACTTTGAGAAACCTGTGGTCATGAAGGCATTTG
AGCACTTACAACAGTTGGAATTAATAAAACCCGTGAAAGAACTTCAGTAAATTCAGAGAGAATACCA
GCTAGTGAAGTACTTTTGGATAAATACTCAAATTAATGAATGCTCTACAGAAATACTCCAAGTCCCTACA
GATGTTAGGCAGTGGCAACATCCTCACTAAGCTGGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >MG206909 representing NM_011958
 Red=Cloning site Green=Tags(s)

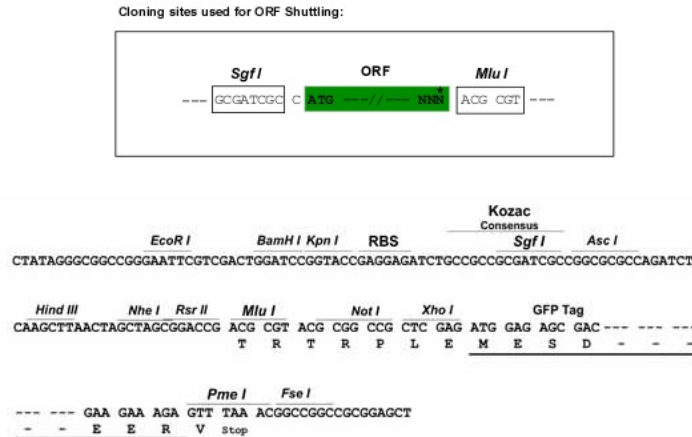
MSSRKTKSNAHAECLSQVQRILRERFCHHSPHSNLFVGVQVQYKHLIELLKRTAIYGESNSVLIVGPRGSG
 KTTLLNHALKELMEIEVSENVIQVHLNGLLQTNEKIALKEITRQLNLDNVVEDKVFSGFAENLSFLLLEAL
 QKGDRTSSCPVIFILDEFDIFAHQKNQTLTYLFDISQSAQTPVAVIGLTCRLDILELLEKRVKSRFSHR
 QIHLMNSFDFPQYLKIFKEQLSLPAEFDPKAFERWNVHCLSEDSTVLEVLQKHFVSNKNLQSLHMLL
 MLALNRVTYSHPFMTSADLMEAQHMCSLDSKANIVHGLSVLEICLI IAMKHLNDIYEEEPNFQMVYNEF
 QKFIQRKAHSVYNFEKPVVMKA FEHLQQLLEIKPVERTSVNSQREYQLVKLLLDNTQIMNALQKYSNCPT
 DVRQWATSSLSWL

TRTRPLE - GFP Tag - V

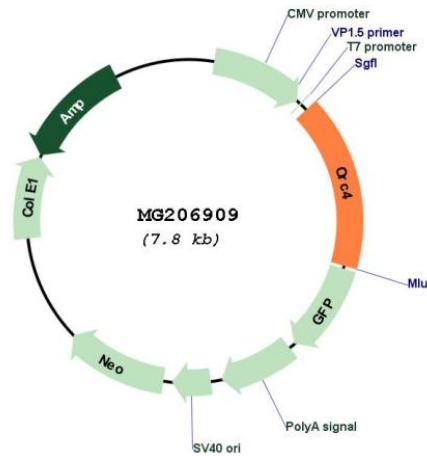
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_011958

ORF Size:	1299 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_011958.4
RefSeq Size:	4029 bp
RefSeq ORF:	1302 bp
Locus ID:	26428
UniProt ID:	O88708
Cytogenetics:	2 C1.1
Gene Summary:	Binds histone H3 and H4 trimethylation marks H3K9me3, H3K27me3 and H4K20me3 (By similarity). Component of the origin recognition complex (ORC) that binds origins of replication. DNA-binding is ATP-dependent. The specific DNA sequences that define origins of replication have not been identified yet. ORC is required to assemble the pre-replication complex necessary to initiate DNA replication.[UniProtKB/Swiss-Prot Function]