

Product datasheet for MR224351

Orc4 (NM_001177313) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Orc4 (NM_001177313) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Orc4

Synonyms: mMmORC4; Orc4l; Orc4P

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >MR224351 representing NM_001177313
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224351 representing NM_001177313

Red=Cloning site Green=Tags(s)

MSSRKTKSNAHAECLSQVQRILRERFCHHSPHSNLFGVQVQYKHLIELLKRTAIYGESNSVLIVGPRGSG KTTLLNHALKELMEIEVSENVIQVHLNGLLQTNEKIALKEITRQLNLDNVVEDKVFGMLVCLEVSKYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

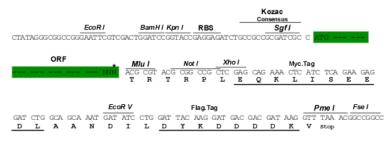
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001177313

ORF Size: 414 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeq: <u>NM 001177313.1</u>, <u>NP 001170784.1</u>

RefSeq Size: 1397 bp



 RefSeq ORF:
 417 bp

 Locus ID:
 26428

 Cytogenetics:
 2 C1.1

 MW:
 16.2 kDa

Gene Summary: Binds histone H3 and H4 trimethylation marks H3K9me3, H3K27me3 and H4K20me3 (By

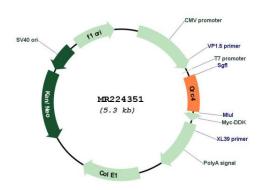
similarity). Component of the origin recognition complex (ORC) that binds origins of

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]

Product images:



Circular map for MR224351