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Product datasheet for MR224838

Ep400 (NM_029337) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ep400 (NM_029337) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ep400
Synonyms:	1700020J09Rik; AU023439; mDomino; mKIAA1498; p400
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR224838 representing NM_029337
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>MR224838 representing NM_029337
Red=Cloning site Green=Tags(s)

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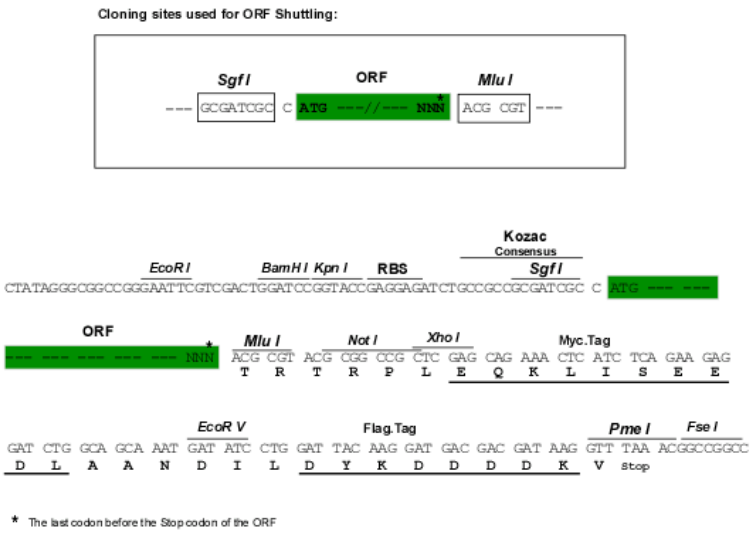
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029337

ORF Size: 9105 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_029337.2, NP_083613.2

RefSeq Size: 10798 bp

RefSeq ORF: 9108 bp

Locus ID: 75560

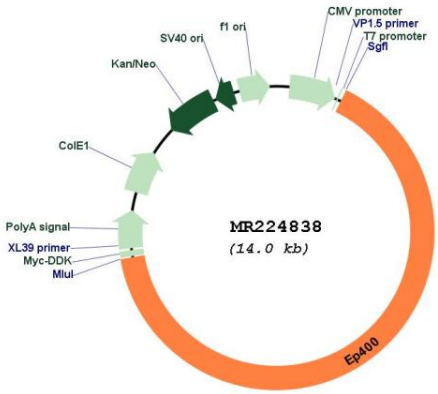
UniProt ID: Q8CHI8

Cytogenetics: 5 F

MW: 333.4 kDa

Gene Summary: Component of the NuA4 histone acetyltransferase complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. May be required for transcriptional activation of E2F1 and MYC target genes during cellular proliferation. The NuA4 complex ATPase and helicase activities seem to be, at least in part, contributed by the association of RUVBL1 and RUVBL2 with EP400. Component of a SWR1-like complex that specifically mediates the removal of histone H2A.Z/H2AFZ from the nucleosome (By similarity). Regulates transcriptional activity of ZNF42.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224838