

## Product datasheet for **MC225450**

### Ep400 (NM\_029337) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ep400 (NM\_029337) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ep400  
**Synonyms:** 1700020J09Rik; AU023439; mDomino; mKIAA1498; p400  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225450 representing NM\_029337  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCACCATGGCAGTGGTCTCAGAATGTCCAACATCAGCTGCAGAGGTCTAGGTCCTTCACTGGGAGTG  
 AAGAGGAGCAGCCAGCCATCCCAACTACCCCATCTCTGCAGCGCCTTCGCTCCATCAGCCAGTCC  
 ATCTGCACCCCAATCCCCTGGGTACCAGATACAGCAGCTGATGAGCAGAAGTCTGTGGCCGGGCAGAAT  
 GTGAACATCACACTGCAGAATGTTGGCCAGTTGTGGGAGGAAACCAGCAGATCACACTGGCCCCCTGC  
 CACTGCCCAACCCCACTTCTCCAGGTTTTAGTTTGGTGGCCAGCAAAGGCGCTTTGAGCATGGCTCTCC  
 ATCATACATTCAAGTTACTTCTCCGATGTGCGCAGCAGGTCAGACTCAAAGCCCCACACAGCCTAGCCCT  
 GGGCCAGGGCAAACCCCTGCAGAAATGTGCGTGCAGGTGCTCCAGGTCTGGGCTGGGCATATGCAGCAACA  
 GCCCACTGGAGGCTTTGTGGATGCCAGTGTGCTTGTGAGGCAGATCAGCTTGAATCAAGTGGTGG  
 TCACTTTGTATTTAGGAGGCACCAGGCCTGACTCAGATGGCCAGGGAGCCAGGTTCAACTCCAGCAT  
 TCAGGAGCTCCCATCACTGTCCGAGAACGGAGACTCTCCCAACCTCATGCACAGTCGGGAGGCACCATCC  
 ACCATCTAGGGCCTCAGAGCCCTGCAGCTGCAGGAGGCACTGGACTTCAACCTCTGGCCAGCCAAACCA  
 CATCACCAGGCCAGCCTGCCACCCAGATCAGCAGCATTATTCAGGGCCAGTTGATACAGCAACAGCAG  
 CAGGTGCTTCAGGGACAGCCAATGAACCGATCTCTGGATTTGAGAGGACACCTGGTGTGCTGCTTCTG  
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 GCCTCCAGGCCTTCCAGTGTGCTCTTACATCTATGGGAAGCTCAGGAATGAAGAAGGTTCCCAAGAAG  
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 AGGAAATGGAGGCACTCAAGGAAGTCTCAAGGAGTACCTGATTGAAGTGTCTTCTTGAACATCTACA  
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TGCCCCAACTCCTCAGGCCACACAGCTCACTGGACAGAAGCAGAGTCAGCAGCAGTACGACCCTTCCAC  
 AGGGCCTCCTGTGCAGAACGCCGCCAGCTTGCATACCCACCACCACAGCTTCTGCGAGGCTGCCTCCG  
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AAACCCAGTTTCTGACCACCCATCTCCAGGCCAGAAAAGTGGCCGGGACTCAGCAGGTTCAAGTCA  
GATCCAGGTTGCAAAACTTCTCAAGTTGTGCAGCAACAACACCTGTGGCCAGTATACAACAAGTTGCA

TCAGCTTCTCAGCAGGCTTCTCCACAGACGGTGACGCTCACACAGGCAACGGCAGCAGGGCAACAGGTAC  
AGATGATCCCAACGGTGACTGCAACAGCCCAGCTGGTGCAGCAGAAGCTCATCCAGCAGCAGGTGGTGAC  
GACAGCCTCAGCATCACTGCAGACCCCTGGTGGCCCAAGCCCAGCACAGCTTCCAGCCAGCTCTGACAGC  
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GCCAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_029337

**Insert Size:** 9108 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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

**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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.