

## Product datasheet for **MC225090**

### Mcm3ap (NM\_019434) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mcm3ap (NM\_019434) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Mcm3ap  
**Synonyms:** GANP; mKIAA0572  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC225090 representing NM\_019434  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACCCCGGTGAACCCCTTCGGAGGGCAGCAGCCAGTGCCTTTGCGGTATCTTCCAGCACCACGGGAA  
CATATCAGACTAAATCACCATTTTCGATTTGGCCAGCCTCCCTTTTTGGACAGAACAGCACCCAGCAA  
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 AAAGTCAAATTCACAGGAGATGACAGCATGGTGGTGACATAGGAGATAATGCTGGTGTATCCAGACC  
 CTCTCAGTCTTTAATACACTTAGTAGTAAGGGGATCAAACAGTTTCTGTCAAGTGTGATAAAGGTGG  
 CTGATGGCACCTTAGTGACAGTGCCCTTGTGCTGTGGAGACCCAGAAGGACCTGTTGGGAACCAAGTGG  
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 GTCATTAGTACACCTCCAGATTTCCAGCTCAAGCCAGACACAGCCTGTCTCCAGTCCAGGTGGAGA  
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TGTTGCCGAGATCCCGTGGGATGACATCATCACCTTATGCATCAATCATAAGCTGAGGGACTGGACACCC
CCCAGGCTCCCTGTCACATTAGAGGCGCTGAGTGAAGATGGTCAAATATGTGTGATTTTTTCAAAAACC
TTTTAAGAAAATACCACGTTCCCTTGTCATGGGAACAGGCCAGAATGCAGACGCAGCGGGAAGTGCAGCT
GAGTCATGGACGTTCCGGGATGAGGTCCATCCATCCTCTACAAGCACTTTTCTACTCCATTGCTTCAT
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CACCTCTGCACTGCTGGAGATGGTGGACATGTAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_019434
<b>Insert Size:</b>	5916 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_019434.2</a> , <a href="#">NP_062307.2</a>
<b>RefSeq Size:</b>	6400 bp
<b>RefSeq ORF:</b>	5916 bp
<b>Locus ID:</b>	54387
<b>UniProt ID:</b>	<a href="#">Q9WUU9</a>
<b>Cytogenetics:</b>	10 C1

**Gene Summary:**

As a component of the TREX-2 complex, involved in the export of mRNAs to the cytoplasm through the nuclear pores (By similarity). Through the acetylation of histones, affects the assembly of nucleosomes at immunoglobulin variable region genes and promotes the recruitment and positioning of transcription complex to favor DNA cytosine deaminase AICDA/AID targeting, hence promoting somatic hypermutations (PubMed:23652018). [UniProtKB/Swiss-Prot Function]