

## Product datasheet for **MR208100**

### **Api5 (NM\_007466) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Api5 (NM_007466) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Api5
Synonyms:	AAC-11; AI196452; API-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208100 representing NM\_007466  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCACGGTGGAGGAGCTGTACGCCAACTACGGCATCCTCGCCGATGCCACGGAGCAAGTGGCCAGC  
 ATAAAGATGCCTACCAAGTGATACTGGATGGCGTGAAAGGCGGCACCAAGGAAAAGCGATTAGCAGCTCA  
 GTTTATACCAAAATCTTTAAGCATTTTCCAGAGCTGGCTGATTCTGCTATCAATGCACAGTTAGACCTC  
 TGTGAGGATGAAGATGTGTCAATACGACGTCAAGCAATTAAGAGCTGCCTCAGTTTCCACAGGAGAAA  
 ACCTTCTAGAGTAGCAGATATACTGACCCAGCTTCTGCAGACAGATGACTCTGCAGAATTTAACCTGGT  
 GAACAATGCTCTGCTAAGTATATTTAAGATGGATGCAAAAGAACGTTAGGTGGCTTGTTCAGCAGATT  
 CTTCAAGGAGAAGACATTGTTAGAGAACGAGCAATTAATTCCTGTCCACAAAACCAAGACGCTCCAG  
 ATGAGGTGTTGACTAAGGAAGTGGAGAACTCATACTCACTGAGTCCAAGAAGTCTAGAAGACGTGAC  
 TGGTGAAGAGTTTGTTCATGAAGATACTGTCTGGGTTGAAAAGCTTACAGACAGTGAAGTGGACGA  
 CAGCAGCTGGTGGAGCTGGTGGCGAACAGGCTGACCTGGAGCAGGCCTCAGCCCTCAGACCCGACT  
 GTGTGGACAGACTACTGCAGTGCACGGCAGGCTGTGCCTCTCTTCCAAAAATGTGCATTCTACAAG  
 ATTTGTGACGATTTCTGTGAGCAAGTTCTCCCTAACCTCAGCACCTGACCACCCAGTGGAAAGCCCTC  
 GATATACAGCTGGAGGTATTAAGTTGTTGGCAGAGATGAGTTCATTTTGTGGTACATGGAAAACTAG  
 AAACAAATTAAGAAAAGTGTGATAAGTTATTTGAGTATATGCCTCTCCCTCCAGAAGAAGCAGAAAA  
 TGGGGAGAATGCTGGTAAAGAGGAGCCCAAGCTGCAGTTCAGTTATGTGGAGTGCATTATGTACAGTTT  
 CATCAGTTGGGGCGAAAACCTCCAGACTTCTAACAGCCAAAACGAATGCAGAAAACTCAAGGATTTCA  
 AAATTAGTTGCAGTACTTTGCACGGGCTGCAGGTTTATATCAGACAACTCGCTTGGCTCAGGAGG  
 TAAAACAGGCGAGGCCTTAAAAACAGAGGAGAACAAAGATAAAAGTTGTTGCACTGAAAAAACAACAAT  
 ATCAATGTTTTAATCAAGGATCTCTCCACATTCTCCTTCTTATAAGAGCACAGTAACATTGCTCTGGA  
 AACCTGTGCAGAAAGTTGAGATTGGGCAAAAGAGAACCAGTGAAGATAACAAGTTCAGTTTACCACCTAA  
 GAAGTCTCCAGGAGGACCAAAAAGAGATGCCAGACAGATTTATAATCCTCCGAGTGGAAAGTACAGCAGC  
 AATCTGAGCACTTTAATTATGAGAGGAGCCTTCAGGGGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208100 representing NM\_007466  
 Red=Cloning site Green=Tags(s)

MPTVEELYRNYGILADATEQVGGQHKDAYQVILDGVKGGTKEKRLAAQFIPKFFKHPELADSAINAQLDL  
 CEDEDVSIIRRAIKELPQFATGENLPRVADILTQLLQTDDSAEFNLVNNALLSIFKMDAKGTLGGFLFSQI  
 LQGEDIVRERAIKFLSTKLKTLPEVLTKVEEELILTESKKVLEDVTGEEFVLFMKILSGLKSLQTVSGR  
 QQLVELVAEQADLEQAFSPSPDCVDRLLQCTRQAVPLFSKNVHSTRFVTFYCEQVLPNLSTLTPVEGL  
 DIQLEVLKLLAEMSSFCGDMEKLETNLRKLFDKLLEYMPLPPEEAENGENAGNEEPKLFQSYVECLLYSF  
 HQLGRKLPDFLAKLNAEKLKDFKIRLQYFARGLQVYIRQLRALQGKTGEALKTEENKIKVVALKITNN  
 INVLIKDLFHIPPSYKSTVTLNWKPVQKVEIGQKRTSEDTSSGSPPKSPGGPKRDARQIYNPPSGKYSS  
 NLSNLFNYSRLQGK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9074\\_h09.zip](https://cdn.origene.com/chromatograms/mm9074_h09.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_007466

**ORF Size:** 1512 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\\_007466.3](#), [NP\\_031492.2](#)

**RefSeq Size:** 3759 bp

**RefSeq ORF:** 1515 bp

**Locus ID:** 11800

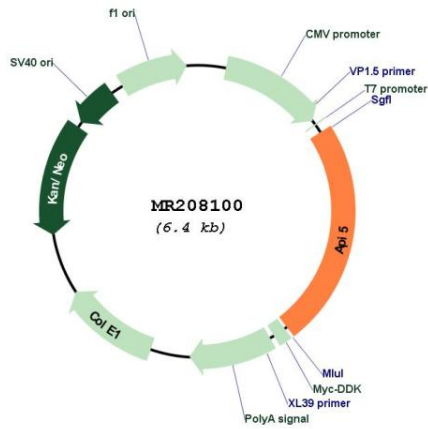
**UniProt ID:** [O35841](#)

**Cytogenetics:** 2 E1

**MW:** 56.8 kDa

**Gene Summary:** Antiapoptotic factor that may have a role in protein assembly. Negatively regulates ACIN1. By binding to ACIN1, it suppresses ACIN1 cleavage from CASP3 and ACIN1-mediated DNA fragmentation. Also known to efficiently suppress E2F1-induced apoptosis (By similarity). [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208100