

## Product datasheet for **MR217593**

### **AtI3 (NM\_001163505) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AtI3 (NM_001163505) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AtI3
Synonyms:	4633402C03Rik; 5730596K20Rik; AI465397; AW228836
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR217593 representing NM\_001163505  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACCCGACATTCCAGTACGCAGTCACAGGTGATGCCATGGAAAATGGAAAACCTGGTCCAGTGCAGG  
 TTGTTTTGGTTTCATAAAGAACAACATTCCTTTGAGCTAGAAGAGAGAGCCTTGGCCAGCGTCTCTCCA  
 AGACCATATCCGAGATCTTGATGTGGTGGTAGTATCAGTGGCTGGTGCTTTTCGAAAGGGTAAATCCTTC  
 ATTCTGGACTTTATGCTGCGATACTTATATTCTCAGAAGGAAGGTGGTCATTCCAGACTGGTTGGGTGACC  
 CAGAAGAACCTCTGACAGGATTTTCATGGCGAGGAGGCTCTGATCCAGAACTACTGGGATTAGATTTG  
 GAGTGAAGTTTCACTGTGAAGAAGCCATGTGGAAAAAGGTTGCAGTTGTTCTGATGGATACCCAGGGG  
 GCCTTTGACAGCCAGTCAACTGTGAAGGATTGTGCTACCATTTTTGCTCTAAGCACTATGACTAGTCTG  
 TTCAGATTTACAATTTGCCAGAATATTCAGGAAGATGATCTTCAGCAGCTACAGCTCTTCACAGAATA  
 TGGCCGCCTGGCAATGGATGAAATTTCCAAAAACCTTTTCAGACACTGATGTTTTTGATTCGAGATTGG  
 AGTTTTCCCTTATGAATATAACTATGGACTGCAAGGAGGAATGGCATTTCGATAAAGCGTTTACATGTGA  
 AGGAACATCAACATGAAGAAATTCAGAATGTGAGAAATCATATTCACCTCATGTTTCTCCGATGTCACCTG  
 TTTTCTCTTACCACATCCAGGGCTCCAGGTGGCCACAAGCCCAACTTTGATGGGAAATGAAAGATATT  
 GCTAGTGAATTCAAAGAGCAGTTACAGGCTCTAATACCATATGTACTAAATCCATCTAAATTAATGGAGA  
 AGGAGATCAATGGTTCAAAGTACCTGCCGGGATTGTTGGAATATTTAAGGCATATATTAATTTA  
 CCAAGGAGAAGATCTGCCTACCCGAAGTCCATGCTTCAGGCCACTGTGAAGCCAATAATTTGGCAGCT  
 GCAGCCTCTGCCAAGATATTTATTACAACAACATGGAAGAGATTTGTGGGGGAGAGAAACCTTATTTGT  
 CTCCAGATATTTAGAAGAGAAGCACCTAGAATTCAAACAACCTGCTCTGGACCCTTTAAGAAGATCAA  
 AAAGATGGGTGGGAAGGATTTACGCTTCGGTTACCAGCAGGAACCTGGAGGAGGAAATCAAAGAAGTGTAT  
 GAGAAGTCTGCAAGCACACCGCAGCAAGAATGTCTTCAGCACCTTCGAAACCCCTGCAGTTCTGTTCA  
 CAGGCATAGCAGCATTGTACATAGCCTCGGGCTTACGGGCTTATTGGGCTTGAGGTTGTGGCCAGCT  
 GTTCAACTGTATGGTTGGACTGCTTAAATAGCACTCCTTACCTGGGGTACATCAGATATTCGGGCGAG  
 TATCGTGAGCTGGGTGGAGCCATTGACTCCGGTGCAGCATATGTGTTAGAGCAGGCTTCTTCGCATATTG  
 GTAATTCTACTCAGGCTGCAGTAAGGGATGCCGTTGTTGGGAGACCACCTGCTGATAAAAAATCTCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR217593 representing NM\_001163505  
 Red=Cloning site Green=Tags(s)

MDPTFYAVTGDAMENKPGPVQVVLVHKEQHSFELEERALASVLLQDHIRDLDVVVVSVAGAFRKGKSF  
 ILDFMLRYLYSQKEGGHSDWLDPEEPLTGF SWRGGSDPETTGIIQIWEVFTVKKPCGKKVAVVLMDTQG  
 AFDSQSTVKDCATIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFQKPFQTLMFLIRDW  
 SFPYEYNYGLQGGMAFLDKRLHVKEHQHEEQNVRNHIHSCFSDVTCFLLPHPGLQVATSPNFDGKLDI  
 ASEFKEQLQALIPYVNLNPSKLMEKEINGSKVTCRGLLEYFKAYIKIYQGEDLPHPKSMLQATAEANNLAA  
 AASAKDIYNNMEEICGGKPYLSPDILEEKHLEFKQLALDHFKKIKKMGGKDFSFYRQQELEEIKELY  
 ENFCNHGSKNVSTFRTPAVLFTGIAALYIASGFTGFIGLEVVAQLFNCMVGLLLIALLTWGYIRYSQ  
 YRELGGAIDSGAAYVLEQASSHIGNSTQAAVRDAVVGRPPADKKSQ

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001163505

**ORF Size:** 1608 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

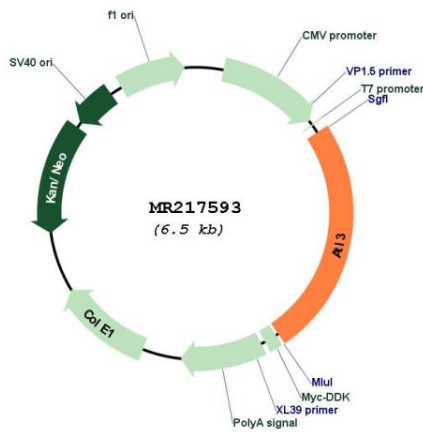
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_001163505.1, NP\\_001156977.1](#)  
**RefSeq Size:** 6485 bp  
**RefSeq ORF:** 1611 bp  
**Locus ID:** 109168  
**UniProt ID:** [Q91YH5](#)  
**Cytogenetics:** 19 A  
**MW:** 60.7 kDa

**Gene Summary:** GTPase tethering membranes through formation of trans-homooligomers and mediating homotypic fusion of endoplasmic reticulum membranes. Functions in endoplasmic reticulum tubular network biogenesis (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR217593