

## Product datasheet for **MG217593**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	AtI3 (NM_001163505) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AtI3
Synonyms:	4633402C03Rik; 5730596K20Rik; AI465397; AW228836
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG217593 representing NM\_001163505  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACCCGACATTCCAGTACGCAGTCACAGGTGATGCCATGGAAAATGGAAAACCTGGTCCAGTGCAGG  
 TTGTTTTGGTTTCATAAAGAACAACATTCCTTTGAGCTAGAAGAGAGAGCCTTGGCCAGCGTCTCTCCA  
 AGACCATATCCGAGATCTTGATGTGGTGGTAGTATCAGTGGCTGGTGCTTTTCGAAAGGGTAAATCCTTC  
 ATTCTGGACTTTATGCTGCGATACTTATATTCTCAGAAGGAAGGTGGTCATTACAGACTGGTTGGGTGACC  
 CAGAAGAACCTCTGACAGGATTTTCATGGCGAGGAGGCTCTGATCCAGAACTACTGGGATTAGATTG  
 GAGTGAAGTTTCACTGTGAAGAAGCCATGTGGAAAAAGGTTGCAGTTGTTCTGATGGATACCCAGGGG  
 GCCTTTGACAGCCAGTCAACTGTGAAGGATTGTGCTACCATTTTTGCTCTAAGCACTATGACTAGTTCTG  
 TTCAGATTTACAATTTGCCAGAATATTCAGGAAGATGATCTTCAGCAGCTACAGCTCTTCACAGAATA  
 TGGCCCGCTGGCAATGGATGAAATTTCCAAAAACCTTTTCAGACACTGATGTTTTTGGATTGCGAGATTGG  
 AGTTTTCCCTTATGAATATAACTATGGACTGCAAGGAGGAATGGCATTTTTGGATAAGCGTTTACATGTGA  
 AGGAACATCAACATGAAGAAATTCAGAATGTGAGAAATCATATTCACCTCATGTTTCTCCGATGTCACCTG  
 TTTTCTCTTACCACATCCAGGGCTCCAGGTGGCCACAAGCCCAACTTTGATGGGAAATGAAAGATATT  
 GCTAGTGAATTCAAAGAGCAGTTACAGGCTCTAATACCATATGTACTAAATCCATCTAAATTAATGGAGA  
 AGGAGATCAATGGTTCAAAGTCACTGCCGGGGATTGTTGGAATATTTAAGGCATATATTAATTAATTA  
 CCAAGGAGAAGATCTGCCTCACCGAAGTCCATGCTTCAGGCCACTGTGAAGCCAATAATTTGGCAGCT  
 GCAGCCTCTGCCAAGATATTTATTACAACAACATGGAAGAGATTTGTGGGGGAGAGAAAACCTTATTTGT  
 CTCCAGATATTTAGAAGAGAAGCACCTAGAATTCAAACAACCTGCTCTGGACCATTAAAGAAGATCAA  
 AAAGATGGGTGGGAAGGATTTACAGCTCCGTTACCAGCAGGAACCTGGAGGAGGAAATCAAAGAAGTGTAT  
 GAGAAGTCTGCAAGCACAACGGCAGCAAGAATGTCTTCAGCACCTCCGAACCCCTGCAGTTCTGTTCA  
 CAGGCATAGCAGCATTGTACATAGCCTCGGGCTTACGGGCTTATTGGGCTTGAGGTTGTGGCCAGCT  
 GTTCAACTGTATGGTTGGACTGCTTAAATAGCACTCCTTACCTGGGGTACATCAGATATTCGGGCGAG  
 TATCGTGAGCTGGGTGGAGCCATTGACTCCGGTGCAGCATATGTGTTAGAGCAGGCTTCTTCGCATATTG  
 GTAATTCTACTCAGGCTGCAGTAAGGGATGCCGTTGTTGGGAGACCACCTGCTGATAAAAAATCTCAA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG217593 representing NM\_001163505  
 Red=Cloning site Green=Tags(s)

MDPTFYAVTGDAMENKPGPVQVVLVHKEQHSFELEERALASVLLQDHIRDLVVVVSVAGAFRKGKSF  
 ILDFMLRYLYSQKEGGHSDWLDPEEPLTGF SWRGGSDPETTGIQIWEVFTVKKPCGKKVAVVLMDTQG  
 AFDSQSTVKDCATIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFQKPFQTLMFLIRDW  
 SFPYEYNYGLQGGMAFLDKRLHVKEHQHEEIQNVRNHIHSCFSDVTCFLLPHPLQVATSPNFDGKLDI  
 ASEFKEQLQALIPYVLNPSKLMEKEINGSKVTGRLLLEYFKAYIKIYQGEDLPHPKSMLQATAEANNLAA  
 AASAKDIYYNNMEEICGGKPYLSPDILEEKHLEFKQLALDHFKKIKKMGKDFSFYRQQELEEIKELY  
 ENFCNHGSKNVFSTFRTPAVLFTGIAALYIASGFTGFIGLEVVAQLFNCMVGLLLIALLTWGYIRYSQ  
 YRELGGAIDSGAAYVLEQASSHIGNSTQAAVRDAVVGRPPADKKSQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-Mlul

**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:**

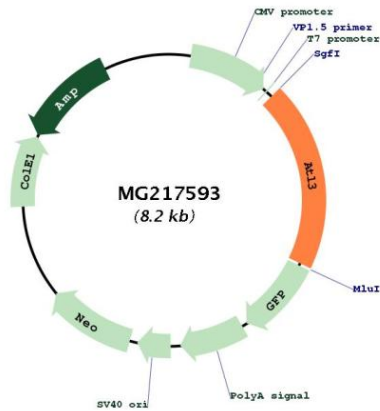
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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

**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 MG217593