

## Product datasheet for **MR208642**

### AtI3 (NM\_146091) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AtI3 (NM_146091) 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:**

>MR208642 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGTCCCCTCAGCGAACTGCAGCGGTGGCATCGAGAGGAGCAGGTGATGCCATGGAAAAATGGAAAAC  
 CTGGTCCAGTGCAGGTTGTTTTGGTTCATAAAGAACAACATTCCTTTGAGCTAGAAGAGAGAGCCTTGGC  
 CAGCGTCTCCTCCAAGACCATATCCGAGATCTTGATGTGGTGGTAGTATCAGTGCTGGTGGTCTTTTCGA  
 AAGGGTAAATCCTTCATTCTGGACTTTATGCTGCGATACTTATATTCTCAGAAGGAAGGTGGTCATTTCAG  
 ACTGGTTGGGTGACCCAGAAGAACTCTGACAGGATTTTCATGGCGAGGAGGCTCTGATCCAGAACTAC  
 TGGGATTCAGATTTGGAGTGAAGTTTTCACTGTGAAGAAGCCATGTGGAAAAAGGTTGCAGTTGTTCTG  
 ATGGATACCCAGGGGCCCTTGACAGCCAGTCACTGTGAAGGATTGTGCTACCATTTTTGCTCTAAGCA  
 CTATGACTAGTTCTGTTAGATTTACAATTTGTCCAGAATATTCAGGAAGATGATCTTCAGCAGCTACA  
 GCTCTTCACAGAATATGGCCGCTGGCAATGGATGAAATTTTCCAAAAACCTTTTCAGACTGATGTTT  
 TTGATTGAGATTGGAGTTTCCCTTATGAATATAACTATGGACTGCAAGGAGGAATGGCATTGTTGGATA  
 AGCGTTTACATGTGAAGGAACATCAACATGAAGAAATTCAGAATGTGAGAAATCATATTCCTCATGTTT  
 CTCCGATGTCACCTGTTTTCTTACCACATCCAGGGCTCCAGGTGGCCACAAGCCCAACTTTGATGGG  
 AAATTGAAAGATATTGCTAGTGAATTCAAAGAGCAGTTACAGGCTCTAATACCATATGACTAAATCCAT  
 CTAATTAATGGAGAAGGAGATCAATGGTTCAAAGTCACTGCCGGGGATTGTTGGAATATTTAAGGC  
 ATATATTAATTTACCAAGGAGAAGATCTGCCTCACCGAAGTCCATGCTTCAGCCACTGCTGAAGCC  
 AATAATTTGGCAGCTGCAGCCTCTGCCAAGATATTTATTACAACAACATGGAAGAGATTTGTTGGGGAG  
 AGAAACCTTATTTGTCTCCAGATATTTTGAAGAGAAGCACCTAGAATTCAAACAACCTGCTCTGGACCA  
 CTTTAAGAAGATCAAAAAGATGGGTGGGAAGGATTTTCCGTTACCAGCAGGAACCTGGAGGAGGAA  
 ATCAAAGAAGTGTATGAGAACTTCTGCAAGCACACGGCAGCAAGAATGTCTTCAGCACCTTCCGAACCC  
 CTGCAGTTCTGTTACAGGCATAGCAGCATTGTACATAGCCTCGGGCTTACGGGCTTATTGGGCTTGA  
 GGTTGTGGCCAGCTGTTCAACTGTATGGTTGGACTGCTCTTAATAGCACTCCTTACCTGGGGTACATC  
 AGATATTCGGGCAGTATCGTGAGCTGGGTGGAGCCATTGACTCCGGTGCAGCATATGTGTTAGAGCAGG  
 CTCTTCGCATATTGGTAATTCTACTCAGGCTGCAGTAAGGGATGCCGTTGTTGGGAGACCACCTGCTGA  
 TAAAAATCTCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208642 protein sequence  
 Red=Cloning site Green=Tags(s)

MLSPQRTAAVASRGAGDAMENKPGPVQVVLVHKEQHSFELEERALASVLLQDHIRDLDVVVSVAGAFR  
 KGKSFILDFMLRYLYSQKEGGHSDWLGDPPEPLTGF SWRGGSDPETTGIQIWSEVFTVKKPCGKKA  
 VAVLMDTQGAQFDSQSTVKDCATIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFQKPFQTLMF  
 LIRDWSPFYEYNYGLQGGMAFLDKRLHVKEHQHEEQNVRNHIHSCFSDVTCFLLPHPLQVATSPNFDG  
 KLDIASEFKEQLQALIPYVNLNPSKLMKEINGSKVTGRLLLEYFKAYIKIYQGEDLPHPKSMLQATAEA  
 NNLAASAKDIYNNMEEICGGEKPYLSPDILEEKHLEFKQLALDHFKKIKKMGKDFSFYRQQLLEEE  
 IKELYENFCKHNGSKNVFSTFRTPAVLFTGIAALYIASGFTGFIGLEVVAQLFNCMVGLLLIALLTWGYI  
 RYSGQYRELGGAIIDSGAAYVLEQASSHIGNSTQAAVRDAVVGRPPADKKSQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_146091

**ORF Size:** 1626 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\\_146091.4](#), [NP\\_666203.3](#)
**RefSeq Size:** 6387 bp

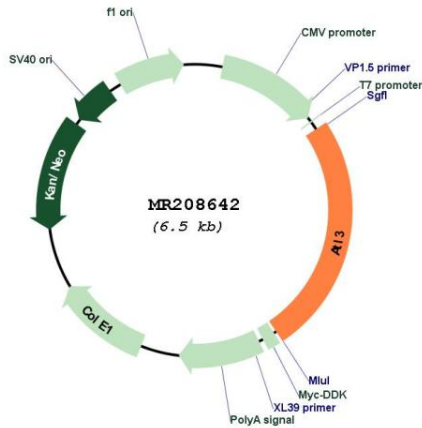
**RefSeq ORF:** 1626 bp

**Locus ID:** 109168

**UniProt ID:** [Q91YH5](#)

**Cytogenetics:** 19 A  
**MW:** 60.6 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 MR208642