

## Product datasheet for **MG208642**

### **Atl3 (NM\_146091) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atl3 (NM_146091) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atl3
Synonyms:	4633402C03Rik; 5730596K20Rik; AI465397; AW228836
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208642 representing NM\_146091  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGTCCCCTCAGCGAACTGCAGCGGTGGCATCGAGAGGAGCAGGTGATGCCATGGAAAAATGGAAAAC  
 CTGGTCCAGTGCAGGTTGTTTTGGTTCATAAAGAACAACATTCCTTTGAGCTAGAAGAGAGAGCCTTGGC  
 CAGCGTCTCCTCCAAGACCATATCCGAGATCTTGATGTGGTGGTAGTATCAGTGCTGGTGGTCTTTTCGA  
 AAGGGTAAATCCTTCATTCTGGACTTTATGCTGCGATACTTATATTCTCAGAAGGAAGGTGGTCATTTCAG  
 ACTGGTTGGGTGACCCAGAAGAACTCTGACAGGATTTTCATGGCGAGGAGGCTCTGATCCAGAACTAC  
 TGGGATTCAGATTTGGAGTGAAGTTTTCACTGTGAAGAAGCCATGTGGAAAAAGGTTGCAGTTGTTCTG  
 ATGGATACCCAGGGGCCCTTGACAGCCAGTCACTGTGAAGGATTGTGCTACCATTTTTGCTCTAAGCA  
 CTATGACTAGTTCTGTTAGATTTACAATTTGTCCAGAATATTCAGGAAGATGATCTTCAGCAGCTACA  
 GCTCTTCACAGAATATGGCCGCTGGCAATGGATGAAATTTTCCAAAAACCTTTTCAGACACTGATGTTT  
 TTGATTCGAGATTGGAGTTTCCCTTATGAATATAACTATGGACTGCAAGGAGGAATGGCATTGTTGGATA  
 AGCGTTTACATGTGAAGGAACATCAACATGAAGAAATTCAGAATGTGAGAATCATATTCCTCATGTTT  
 CTCCGATGTCACCTGTTTTCTTACCACATCCAGGGCTCCAGGTGGCCACAAGCCCAACTTTGATGGG  
 AAATTGAAAGATATTGCTAGTGAATTCAAAGAGCAGTTACAGGCTCTAATACCATATGTACTAAATCCAT  
 CTAATTAATGGAGAAGGAGATCAATGGTTCAAAAGTCACTGCCGGGGATTGTTGGAATATTTAAGGC  
 ATATATTAATTTACCAAGGAGAAGATCTGCCTCACCGAAGTCCATGCTTCAGGCCACTGCTGAAGCC  
 AATAATTTGGCAGCTGCAGCCTCTGCCAAGATATTTATTACAACAACATGGAAGAGATTTGTGGGGGAG  
 AGAAACCTTATTTGCTCCAGATATTTTGAAGAGAAGCACCTAGAATTCAAACAACCTTCTCTGGACCA  
 CTTTAAGAAGATCAAAAAGATGGGTGGGAAGATTTTCCAGCTTCCGTTACCAGCAGGAAGTGGAGGAGAA  
 ATCAAAGAAGTGTATGAGAACTTCTGCAAGCACACGGCAGCAAGAATGCTTCAGCACCTTCCGAACCC  
 CTGCAGTTCTGTTACAGGCATAGCAGCATTGTACATAGCCTCGGGCTTACGGGCTTATTGGGCTTGA  
 GGTTGTGGCCAGCTGTTCAACTGTATGGTTGGACTGCTCTTAATAGCACTCCTTACCTGGGGGTACATC  
 AGATATTCGGGCAGTATCGTGAGCTGGGTGGAGCCATTGACTCCGGTGCAGCATATGTGTTAGAGCAGG  
 CTTCTTCGCATATTGGTAATCTACTCAGGCTGCAGTAAGGGATGCCGTTGTTGGGAGACCACCTGCTGA  
 TAAAAATCTCAA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208642 representing NM\_146091  
 Red=Cloning site Green=Tags(s)

MLSPQRTAAVASRGAGDAMENKPGPVQVVLVHKEQHSFELEERALASVLLQDHIRDLDVVVVSVAGAFR  
 KGKSFILDFMLRYLSQKEGGHSDWLDGPEEPLTGF SWRGGSDPETTGIQIWESEVFTVKKPCGKKVAVVL  
 MDTQGAFDSQSTVKDCATIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFQKPFQTLMF  
 LIRDWSFPYEYNYGLQGGMAFLDKRLHVKEHQHEEQNVRNHIHSCFSDVTCFLLPHPGLQVATSPNFDG  
 KLKDIASEFKEQLQALIPYVNLNPSKLMEKEINGSKVTGRLLLEYFKAYIKIYQGEDLPHPKSMLQATAEA  
 NNLAASAKDIYNNMEEICGGEKPYLSPDILEEKHLEFKQLALDHFKKIKKMGGKDFSFYRQQELEEE  
 IKELYENFCKHNGSKNVFSTFRTPAVLFTGIAALYIASGFTGFIGLEVVAQLFNCMVGLLLIALLTWGYI  
 RYSGQYRELGGAIDSGAAYVLEQASSHIGNSTQA AVRDAVVGRPPADKKSQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_146091
<b>ORF Size:</b>	1623 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_146091.4</a> , <a href="#">NP_666203.3</a>
<b>RefSeq Size:</b>	2814 bp
<b>RefSeq ORF:</b>	1626 bp
<b>Locus ID:</b>	109168
<b>UniProt ID:</b>	<a href="#">Q91YH5</a>
<b>Cytogenetics:</b>	19 A
<b>Gene Summary:</b>	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]