

## Product datasheet for **RC238708**

### **ATL3 (NM\_001290048) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ATL3 (NM_001290048) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATL3
Synonyms:	HSN1F
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238708 representing NM\_001290048  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGAGCAGCAAGCCTGGTCCAGTGCAGTTGTTTTGGTTCCAGAAAGATCAACATTCCTTTGAGCTAG  
 ATGAGAAAAGCCTTGCCAGCATCCTCTTGACAGGACCACATCCGAGATCTTGATGGTGGTGGTTTCAGT  
 GGCTGGTGCCTTCCGAAAAGGCCAAGTCCTTCATTCTGGATTTTATGCTACGATACTTATATTCTCAGAAG  
 GAAAGTGGCCATTCAAATTGGTTGGGTGACCCAGAAGAACCCTAACAGGATTTTCTGGAGAGGGGGAT  
 CTGATCCAGAAACCCTGGGATTCAAATCTGGAGTGAAGTTTTCACTGTGGAGAAGCCAGGTGGGAAGAA  
 GGTTGCAGTTGTTCTGATGGATACCCAGGGGCCATTTGACAGCCAGTCAACTGTGAAAGACTGTGCTACC  
 ATCTTTGCTCTAAGCACTATGACTAGTTCTGTTCCAGATTTATAATTTATCTCAGAACATTCAGAAGATG  
 ATCTTCAACAGCTGCAGCTCTTACAGAATACGGTCGTCTGGCAATGGATGAAATTTTCCAAAAGCCTTT  
 CCAGACTGATGTTTTGGTTAGAGATTGGAGTTTCCCTTATGAATATAGCTATGGACTCCAAGGAGGA  
 ATGGCATTTTTGGATAAGCGTTTACAGGTGAAGGAACATCAACATGAAGAAATTCAGAATGTTCCGAATC  
 ACATTCACCTCATGTTTCTCCGATGTCACCTGCTTCTCTTACCACATCCAGGACTCCAGGTGGCCACAAG  
 CCCTGACTTTGATGGGAAATAAAAGATATTGCTGGTGAATTCAAAGAGCAGTTACAGGCACTGATACCG  
 TATGTATTAACCCTAATAAGTTAATGGAAAAGGAGATCAATGGCTCAAAGGTCACCTGTCCGGGACTAC  
 TGGAGTATTTAAGGCATATATTAATAATTAACAAGGAGAAGATCTGCCTCACCCCAAGTCCATGCTTCA  
 GGCCACTGCTGAAGCCAACAACCTAGCAGCTGCAGCCTCTGCCAAGGACATTTATATAACAACATGGAA  
 GAGGTTTGTGGGGAGAGAAAACCTTATTTGCTCCAGACATTCTAGAGGAGAAGCACTGTGAATTCAAAC  
 AACTTGTCTGGACATTTTAAGAAGACCAAGAAGATGGGTGGGAAGGATTTCCAGCTTTGTTACCAGCA  
 GGAGCTGGAGGAGGAAATCAAGGAATTATATGAGAACTTCTGCAAGCACAAATGGTAGCAAGAACGCTTTC  
 AGCACCTTCCGAACCCCTGCAGTCTGTTACGGGCATTGTAGCTTTGTACATAGCCTCAGGCCTCACTG  
 GCTTCATAGTCTTGAGTTGTAGCCAGTTGTTCAACTGTATGGTTGGACTACTGTTAATAGCACTCCT  
 CACCTGGGGCTACATCAGGTATTCTGGTCAATATCGTGAGCTGGGCGGAGCTATTGATTTTGGTCCGCA  
 TATGTGTTGGAGCAGGCTTCTTCTCATATCGGTAATCCACTCAGGCCACTGTGAGGGATGCAGTTGTTG  
 GAAGACCATCCATGGATAAAAAAGCTCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238708 representing NM\_001290048  
 Red=Cloning site Green=Tags(s)

MESSKPGPVQVVLVQKDQHSFELDEKALASILLQDHIRDLVVVVSVAGAFRKGKSFILDFMLRYLYSQK  
 ESGHSNLGDPEEPLTGF SWRGGSDPETTGIQIWEVFTVEKPGGKVVAVVLMDTQGAFDSQSTVKDCAT  
 IFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFQKPFQTLMFLVRDWSFPYEYSYGLQGG  
 MAFLDKRLQVKEHQHEEIQNVRNHIHSCFSDVTCFLPHPLQVATSPDFDGKLDIAGEFKEQLQALIP  
 YVLNPSKLEKEINGSKVTCRGLLEYFKAYIKIYQGEDLPHPKSMLQATAEANNLAAAASAKDIYNNME  
 EVCGEKPYLSPDILEEKHCFKQLALDHFKTKKMGKDFSFYQQELEEIKELYENFCKHNGSKNVF  
 STFRTPAVLFTGIVALYIASGLTGFIGLEVVAQLFNCMVGLLLIALLTWGYIRYSQYRELGGAIIDFGAA  
 YVLEQASSHIGNSTQATVRDAVGRPSMDKKAQ

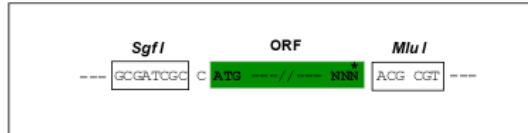
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

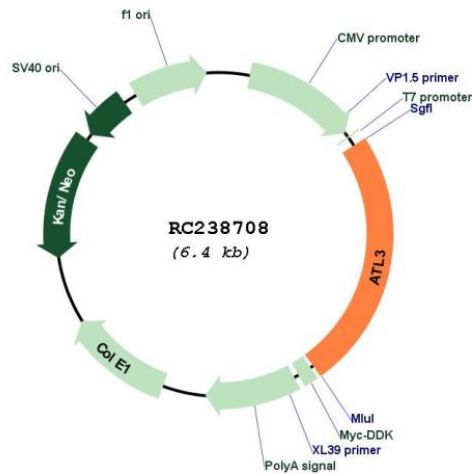
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



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

**Plasmid Map:**


<b>ACCN:</b>	NM_001290048
<b>ORF Size:</b>	1569 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_001290048.2</a>
<b>RefSeq Size:</b>	7156 bp
<b>RefSeq ORF:</b>	1572 bp
<b>Locus ID:</b>	25923
<b>UniProt ID:</b>	<a href="#">Q6DD88</a>
<b>Cytogenetics:</b>	11q13.1
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	59.2 kDa
<b>Gene Summary:</b>	This gene encodes a member of a family of dynamin-like, integral membrane GTPases. The encoded protein is required for the proper formation of the network of interconnected tubules of the endoplasmic reticulum. Mutations in this gene may be associated with hereditary sensory neuropathy type IF. Alternatively spliced transcript variants that encode distinct isoforms have been described. [provided by RefSeq, Feb 2014]