

## Product datasheet for **RG209658**

### **ATL3 (NM\_015459) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ATL3 (NM_015459) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATL3
Synonyms:	HSN1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209658 representing NM\_015459  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTGTCCCCTCAGCGAGTGGCAGCAGCTGCCTCAAGAGGAGCAGATGATGCCATGGAGAGCAGCAAGC  
 CTGGTCCAGTGCAGGTTGTTTTGGTTTCAGAAAGATCAACATTCCTTTGAGCTAGATGAGAAAGCCTTGGC  
 CAGCATCCTCTTGCAGGACCACATCCGAGATCTTGATGTGGTGGTGGTTTCAGTGCTGGTGCCTCCGA  
 AAGGGCAAGTCTTCATTCTGGATTTTATGCTACGATACTTATTTCTCAGAAGGAAAGTGGCCATTCAA  
 ATTGGTTGGGTGACCCAGAAGAACCCTAACAGGATTTTCTGGAGAGGGGGATCTGATCCAGAAACCAC  
 TGGGATTCAAATCTGGAGTGAAGTTTTCACTGTGGAGAAGCCAGGTGGGAAGAAGTTGCAGTTGTTCTG  
 ATGGATACCCAGGGGCATTTGACAGCCAGTCAACTGTGAAAGACTGTGCTACCCTTTGCTCTAAGCA  
 CTATGACTAGTTCTGTTCAAGATTATAATTTATCTCAGAACATTCAGAAGATGATCTTCAACAGCTGCA  
 GCTCTTACAGAATACGGTCGTCTGGCAATGGATGAAATTTTCCAAAAGCCTTTCCAGACACTGATGTTT  
 TTGGTTAGAGATTGGAGTTTCCCTTATGAATATAGCTATGGACTCCAAGGAGGAATGGCATTGTTGGATA  
 AGCGTTTACAGGTGAAGGAACATCAACATGAAGAAATTCAGAATGTTTCGAAATCACATTCACCTCATGTTT  
 CTCCGATGTCACCTGCTTCTCTTACCACATCCAGGACTCCAGGTGGCCACAAGCCCTGACTTTGATGGG  
 AAATTAAGATATTGCTGGTGAATTCAGAGCAGTTACAGGCACTGATACCGTATGTATTAACCCAT  
 CTAAGTTAATGGAAAAGGAGATCAATGGCTCAAAGGTACCTGTCCGGGACTACTGGAGTATTTAAGGC  
 ATATATTAATTTATCAAGGAGAAGATCTGCCTCACCCCAAGTCCATGCTTCAGGCCACTGCTGAAGCC  
 AACAACTTAGCAGCTGCAGCCTCTGCCAAGGACATTTATTATAACAACATGGAAGAGGTTTGTGGGGGAG  
 AGAAACCTTATTTGCTCCAGACATTTAGAGGAGAAGCACTGTGAATTCAAACAACCTGCTCTGGACCA  
 TTTAAGAAGACCAAGAAGATGGGTGGGAAGATTTTCCAGCTTTCCGTTACCAGCAGGAGCTGGAGGAGAA  
 ATCAAGGAATTATATGAGAACTTCTGCAAGCACAATGGTAGCAAGAACGCTTTCAGCACCTTCCGAACCC  
 CTGCAGTGTGTTACGGGCATTGTAGCTTTGTACATAGCCTCAGGCCTCACTGGCTTATAGGTTTGA  
 GGTTGTAGCCAGTTGTTCAACTGTATGGTTGGACTACTGTTAATAGCACTCCTCACCTGGGGCTACATC  
 AGGTATTCTGGTCAATATCGTGAGCTGGGCGGAGCTATTGATTTTGGTCCGCATATGTGTTGGAGCAGG  
 CTCTTCTCATATCGTAATCCACTCAGGCCACTGTGAGGGATGCAGTTGTTGGAAGACCATCCATGGA  
 TAAAAAGCTCAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG209658 representing NM\_015459  
 Red=Cloning site Green=Tags(s)

MLSPQRVAAAASRGADDAMESSKPGPVQVVLVQKDQHSFELDEKALASILLQDHIRDLDVVVVSVAGAFR  
 KGKSFILDFMLRYLSQKESGHSNWLGDPEEPLTGF SWRGGSDPETTGIQIWESEVFTVEKPGGKKA  
 VVLMDTQGAQFDSQSTVKDCATIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFQKPFQTLMF  
 LVRDWSFPYEYSYGLQGGMAFLDKRLQVKEHQHEEQNVRNHIHSCFSDVTCFLLPHPGLQVATSPDFDG  
 KLKDIAGEFKEQLQALIPYVNLNPSKLMEKEINGSKVTGRLLLEVFYKAYIKIYQGEDLPHPKSMLQATAEA  
 NNLAASAKDIYNNMEEVCGGEKPYLSPDILEEKHCEFKQLALDHFKKTKMGGKDFSFYRQQELEEE  
 IKELYENFCKHNGSKNVFSTFRTPAVLFTGIVALYIASGLTGF IGLEVVAQLFNCMVGLLLIALLTWGYI  
 RYSGQYRELGGAIIDFGAAYVLEQASSHIGNSTQATVRDAVVGRPSMDKKAQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_015459

**ORF Size:** 1623 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\\_015459.5](#)

**RefSeq Size:** 2256 bp

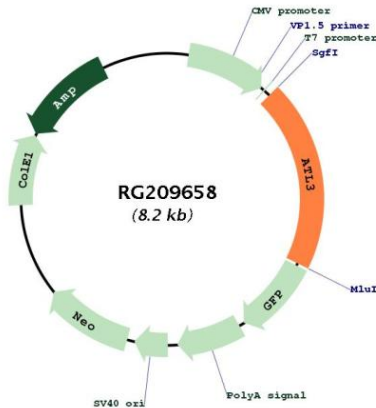
**RefSeq ORF:** 1626 bp

**Locus ID:** 25923

**UniProt ID:** [Q6DD88](#)

Cytogenetics:	11q13.1
Protein Families:	Transmembrane
Gene Summary:	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 1F. Alternatively spliced transcript variants that encode distinct isoforms have been described. [provided by RefSeq, Feb 2014]

### Product images:



Circular map for RG209658