

## Product datasheet for **MG207742**

### **Atp6v1h (NM\_133826) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp6v1h (NM_133826) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Atp6v1h
Synonyms:	0710001F19Rik; AU022349; CGI-11; SFD; SFDalpha; SFDbeta; VMA13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207742 representing NM\_133826  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCAAGATGGACATTCGAGGTGCTGTGGATGCTGCTGTCCAACTAACATCATTGCGGCCAAGGCTG  
 CTGAAGTTCGTGCCAACAAAGTGAAGTGGCAGTCTTATCTTCAGGGCAGATGATTTCTGCTGAAGATTG  
 TGAATTTATTCAAAGTTTGAATGAAAAGAAGTTCCGAGGACAAGCAAGAGATGCTTCAAAGTGAAGGC  
 AGCCAGTGTGCTAAAACATTTATAAATCTGATGACGCACATCTCAAAGAACAGACAGTGCAGTACATAC  
 TAACCATGGTTGACGATATGCTGCAGGAAAATCACCAGCGTGTGAGCATTCTTTGACTATGCGAAACG  
 AAGCAAGAGCACTGCCTGGCCATACTTCTGCCAATGTTGAATCGCCAGGATCCCTTTACTGTTTCAATG  
 GCAGCAAGAATTATCGCCAAGTTAGCTGCTTGGGGAAAGAAGTGAAGGAGGAGTAAATTAATTAATTA  
 ATTTCAATTGGATAAAAACCTCAGCTGAGTTCACAGAACTTCGTGGCAGCGGTGTTGCTGTTGAAACAGG  
 AACAACTCTTCAAGTGATGTTCTCAGTATGTGCAAGTGTGTTGCTGGCTGTCTGCAGCTGATGCTCCGG  
 GTCATAGTACCGGTTTGCCTGGGTAGAAGCAGATGGAGTGAAGTGTATAATGGCGTTTTGAGTAAACA  
 AGTGTGGTTTTCAACTTCAATACCAATGATTTTTTCAATATGGCTCCTGGCATTGAGTCCCAATGTG  
 TGAGCACCTTCGTCGCTATAATATCATTCTGTTCTATCAGACATCCTTCAAGAATCTGTCAAAGAGAAA  
 GTAACAAGAATCATTCTTGCAGCATTCCGGAATTTCTTAGAAAAATCAACGGAAAGAGAACTCGCCAAG  
 AGTATGCTCTGGCTATGATTCAATGCAAAGTACTGAAACAGTTGGAGAATTTGGAGCAGCAGAAGTATGA  
 TGATGAAGATATCAGTGAAGACATCAAAATTTCTTTGGAAAACTTGGTGAAGTGTCCAGGACCTAGC  
 TCATTTGATGAATACAGTTCAGAATTTAAATCTGGAAGATTGGAATGGAGCCCTGTACACAAGTCTGAGA  
 AATTTTGGAGAGAAAATGCCGTGAGTTGAATGAGAAGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG  
 TCTGGAGGTATCAGATGATCCACAAGTCTTAGCTGTTGCTGCTCAGATGTTGGAGAATATGTCGGCAT  
 TATCCCGGGGAAAACCGGTTATTGAGCAGCTTGGTGGAAAGCAGTTGGTGAAGCAGTGAACCATGCACCATG  
 AAGACCAGCAGTTTCGCTACAATGCTCTTCTGGCCGTGCAGAAGCTCATGGTGCACAAGTGGGAATATCT  
 TGGTAAACAAGTACAGTACAGCAGCCTCAGACTGCTGCTGCTCGGAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207742 representing NM\_133826  
 Red=Cloning site Green=Tags(s)

MTKMDIRGAVDAAVPTNIIAAKAAEVRANKVNWQSYLQGMISAEDCEFIQRFEMKRSSDKQEMLQTEG  
 SQCAKTFINLMTHISKEQTVQYILTMVDDMLQENHQRVSIFFDYAKRSKSTAWPYFLPMLNRQDPFTVHM  
 AARIIAKLAAWGKELMEGSDLNYYFNWIKTQLSSQKLRGSGVAVETGTISSDSSQYVQCVAGCLQLMLR  
 VNEYRFAWVEADGVNCGVLSNKGFLQYQMIFSIWLLAFSPQMCEHLRRYNIIPVLSLILQESVKEK  
 VTRIIILAAFRNFLEKSTERETRQYALAMIQCKVLKQLENLEQQKYDDEDISEDIKFLLEKLGESVQDLS  
 SFDEYSSELKSGRLEWSPVHKSEKFWRENARVRLNEKNYELLKILTKLLEVSDDPQVLAVAAHDVGEYVRH  
 YPRGKRVIQLGGKQLVMNHMHEDQVRYNALLAVQKLMVHNWEYLKQLQSEQPQTAAARS

**TRTRPLE** - GFP Tag - V

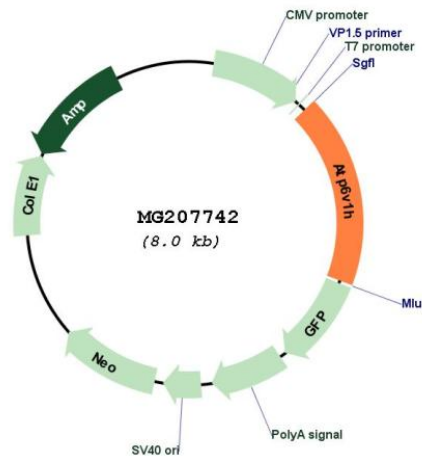
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_133826

**ORF Size:** 1449 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\\_133826.5](#)

**RefSeq Size:** 1976 bp

**RefSeq ORF:** 1452 bp

**Locus ID:** 108664

**UniProt ID:** [Q8BVE3](#)

**Cytogenetics:** 1 A1

**Gene Summary:** Subunit of the peripheral V1 complex of vacuolar ATPase. Subunit H activates the ATPase activity of the enzyme and couples ATPase activity to proton flow. Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells, thus providing most of the energy required for transport processes in the vacuolar system. Involved in the endocytosis mediated by clathrin-coated pits, required for the formation of endosomes (By similarity).[UniProtKB/Swiss-Prot Function]