

## Product datasheet for **MR207742**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atp6v1h (NM_133826) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atp6v1h
Synonyms:	0710001F19Rik; AU022349; CGI-11; SFD; SFDalpha; SFDbeta; VMA13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207742 representing NM\_133826  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACCAAGATGGACATTCGAGGTGCTGTGGATGCTGCTGTCCAACTAACATCATTGCGGCCAAGGCTG  
 CTGAAGTTCGTGCCAACAAAGTGAAGTGGCAGTCTTATCTTCAGGGCAGATGATTTCTGCTGAAGATTG  
 TGAATTTATTCAAAGTTTGAATGAAAAGAAAGTCCGAGGACAAGCAAGAGATGCTTCAAAGTGAAGGC  
 AGCCAGTGTGCTAAAACATTTATAAATCTGATGACGCACATCTCCAAAGAACAGACAGTGCAGTACATAC  
 TAACCATGGTTGACGATATGCTGCAGGAAAATCACCAGCGTGTGAGCATTCTTTGACTATGCGAAACG  
 AAGCAAGAGCACTGCCTGGCCATACTTCTGCCAATGTTGAATCGCCAGGATCCCTTTACTGTTTATG  
 GCAGCAAGAATTATCGCCAAGTTAGCTGCTTGGGGAAAGAAGTATGGAAGGCAGTGCATTAATTAAT  
 ATTTCAATTGGATAAAAACCTCAGCTGAGTTCACAGAACTTCGTGGCAGCGGTGTTGCTGTTGAAACAGG  
 AACAACTCTTCAAGTGATAGTTCTCAGTATGTGCAGTGTGTTGCTGGCTGTCTGCAGCTGATGCTCCGG  
 GTCAAATAGTACCGGTTTGCCTGGGTAGAAGCAGATGGAGTGAAGTGTATAATGGGCGTTTTGAGTAA  
 AGTGTGGTTTTCAACTTCAATACCAATGATTTTTTCAATATGGCTCCTGGCATTGATCCTCAAATGTG  
 TGAGCACCTTCGTCGCTATAATATCATTCTGTTCTATCAGACATCCTTCAAGAACTGTGCAAAGAGAAA  
 GTAACAAGAATCATTCTTGCAGCATTCCGGAATTTCTTAGAAAAATCAACGGAAAGAGAACTCGCCAAG  
 AGTATGCTCTGGCTATGATTCAATGCAAAGTACTGAAACAGTTGGAGAATTTGGAGCAGCAGAAGTATGA  
 TGATGAAGATATCAGTGAAGACATCAAAATTTCTTTGGAAAACTTGGTGAAGTGTCCAGGACCTTAGC  
 TCATTTGATGAATACAGTTCAGAACTTAAATCTGGAAGATTGGAATGGAGCCCTGTACACAAGTCTGAGA  
 AATTTTGGAGAGAAAATGCCGTGAGTTGAATGAGAAGAAGTATGAACTTTGAAAATCTTGACAAAAT  
 TCTGGAGGATCAGATGATCCACAAGTCTTAGCTGTTGCTGCTCAGATGTTGGAGAATATGTCGGGCAT  
 TATCCCGGGGAAAACGGGTTATTGAGCAGCTTGGTGGAAAGCAGTTGGTGAACACATGCACCATG  
 AAGACCAGCAGGTTGCTACAATGCTCTTCTGGCCGTGCAGAAGCTCATGGTGCACAAGTGGGAATATCT  
 TGGTAAACAACACTACAGTCAGAGCAGCCTCAGACTGCTGCTGCTCGGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207742 representing NM\_133826  
 Red=Cloning site Green=Tags(s)

MTKMDIRGAVDAAVPTNIIAAKAAEV RANKVNWQSYLQGQMI SAEDCEF IQR FEMKR SSEDKQEMLQTEG  
 SQCAKTFINLMTHISKEQTVQYILTMVDDMLQENHQRVSIFFDYAKRSKSTAWPYFLPMLNRQDPFTVHM  
 AARI IAKLA AWGKELMEGSDLNYYFNWIKTQLSSQKLRGSGVAVETGTISSSDSSQYVQCVAGCLQLMLR  
 VNEYRFAWVEADGVNCGVLSNKGFLQYQMI FSIWLLAFSPQMCEHLRRYNIIPVLSIDILQESVKEK  
 VTRII LA AFRNFLEKSTERETRQEYALAMIQCKVLKQLENLEQQKYDDEDI SEDIKFLLEKLGESVQDLS  
 SFDEYSSELKSGRLEWSPVHKSEKFWRENAVRLNEKNYELLKILTKLLEVSDDPQVLAVA AHDVGEYVRH  
 YPRGKRVI EQLGKQLVMNHMHEDQQVRYNALLAVQKLMVHNWEYL GKQLQSEQPQTAAARS

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9038\\_a04.zip](https://cdn.origene.com/chromatograms/mm9038_a04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**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

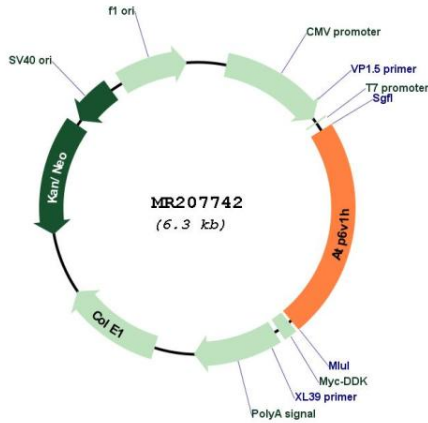
**UniProt ID:** [Q8BVE3](#)

**Cytogenetics:** 1 A1

**MW:** 56.3 kDa

**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]

**Product images:**



Circular map for MR207742