

## Product datasheet for **MR222842**

### Atoh7 (NM\_016864) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atoh7 (NM\_016864) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Atoh7  
**Synonyms:** bHLHa13; Math5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR222842 representing NM\_016864  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGTCGGCCTGCAAACCCACGGCCCTCCGGCGGGAGCTCGCGGCGGCCCCCGTGC GCGGGCGCAG  
CCGAGCGCGGGTCTCGTGCGGGGGCCCGGGCGGCTGGAGAGCGCGCGCAGGCGTCTGGCGGCCAA  
CGCGCGGAGCGGCGCCGATGCAGGGGCTGAACACGGCGTTCGACCGGCTGCGCAGGGTGGTCCCGCAG  
TGGGGCCAGGACAAGAAGCTGTCCAAGTACGAGACTGCAGATGGCGCTCAGCTACATCATCGCGCTCA  
CCCGCATCTAGCCGAAGCCGAGCGGGACTGGGTGGGCTGCGTGCAGCAGCGGGGCCGCGATCACCC  
CTACCTCCCTTTCCCGGGTGTAGGCTCCAGGTAGACCCTGAGCCCTATGGGCAGAGGCTCTTCGGCTTC  
CAGCCGGAGCCCTTCCCATGGCCAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR222842 representing NM\_016864  
Red=Cloning site Green=Tags(s)

MKSACKPHGPPAGARGAPPCAGAAERAVSCAGPGRLESAARRRLAANARERRRMQLNTAFDRLRRVVPQ  
WGQDKKLSKYETLQMALSYIIALTRILAEAERDWWGLRCEQRGRDHPYLPFPGARLQVDPEPYGQRLFGF  
QPEPFPMAS

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9045\\_f06.zip](https://cdn.origene.com/chromatograms/mm9045_f06.zip)



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_016864

ORF Size: 447 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\\_016864.3](#)

RefSeq Size: 450 bp

RefSeq ORF: 450 bp

Locus ID: 53404

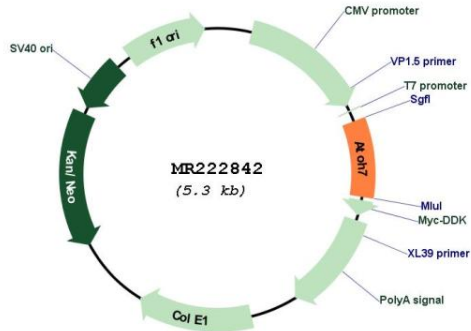
UniProt ID: [Q9Z2E5](#)

Cytogenetics: 10 32.54 cM

MW: 17 kDa

Gene Summary: Transcription factor involved in the differentiation of most retinal ganglion cells, including those constituting the retino-hypothalamic tract.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR222842