

## Product datasheet for **RR203971**

### Atoh8 (NM\_001109241) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Atoh8 (NM\_001109241) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Atoh8  
**Synonyms:** RGD1561512  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RR203971 representing NM\_001109241  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGCACATCCCGGTCTCGAGGATGGGCCGTGGAAGACCGTGTGCGTGAAAGAGCTGAACGGCCTCA  
 AGAAGCTCAAGCGAAAGGCAAGGAGCCGGTGC GGCGCGCAATGGCTATAAACTTTCCGATTGGACTT  
 GGAAGCTCCCGAGTTCGGCGCCACGGCCAGCGCCACCGCCGCCACCAACGGTCTCCGGGACAGGACAAA  
 CCGTTCGGATCGCGACCCAGTACCAGCCTCTGTGGCGCGGGTTCCTCCAGGTGGAGGCACAGACA  
 CAGCCAGGAATTCCGGGCATCAGAGCGCCTGAGGTCTCAGACGCGCGAAACGCGTTTCGCTCTGGG  
 CACAGTGGGACCGGACTACCCACGCCACCGCCACCTCCCGCTCCAGAGCTTGGCACCCGGGGATCCC  
 GAGGTGCAGCCCTTACGCGAGCAGGCTCTGCGTCCCCGCATCTTGCTGTGCGCCCTCCCGCGCTCCCA  
 CGCCGTCCCGCCTCTCGCACCCACAGCGGTGCCACAAGAGTCCCCGTGCGCCCTGCGCCCCACGCG  
 CCCGGGGAAAGTTCTACTCGTCAATTTACACGTAATTTACAATAACCACCCGGATTCTTCCGCGTGC  
 CCTAGGAAACGGCCAGGCGAAGCGACCGCCGCTCCACCGAGATCAAAGCCCTGCAGCAGACCCGGAGGC  
 TCCTGGCAACGCCAGGGAGCGGACGCGGTGCACACCATCAGCGCAGCCTTTGAGGCGTGAGGAAGCA  
 GGTGCCCTGCTACTCCTATGGGCAGAAGCTGTCCAATGGCCATCCTGAGGATTGCCTGTAACATACATC  
 CTGTCCCTGGCGGGCTGGCTGACCTGGACTACAGTGCCGACCACAGCAACCTCAGCTTCCGAGTGTG  
 TGCAGCGCTGCACCCGCCCTGCAGGCAGAAGGACGTGCCAAGAAGCGTAAGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR203971 representing NM\_001109241  
Red=Cloning site Green=Tags(s)

MKHIPVLEDGPWKVVCVELNGLKLLKRRGKEPVRANGYKTRFLDLEAPEFGATASATAATNGLRDRTQ  
 PFPIATPVPASVAPVPPGGGTDAREFRGIRAPEVSDARKRGFALGTVGPLTPPPPPASQSLAPGDP  
 EVQPLREQALRPRILLCAPPARPTPSAPLAPPVQESVVRPAPTRPGESSYSSISHVIYNNHPDSSAS  
 PRKRPGEATAASTEIKALQQTRLLANARERTRVHTISAAFEALRKQVPCYSYGQKLSKLAILRIACNYI  
 LSLARLADLDYSADHSNLSFSECVQRCTRLQAEGRAKKRKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001109241

**ORF Size:** 966 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\\_001109241.1](#), [NP\\_001102711.1](#)

**RefSeq Size:** 2375 bp

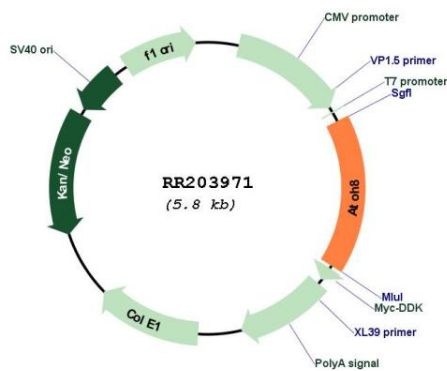
**RefSeq ORF:** 969 bp

**Locus ID:** 500200

**Cytogenetics:** 4q31

**MW:** 34.8 kDa

**Product images:**



Circular map for RR203971