

## Product datasheet for **RG210192**

### **ATOH1 (NM\_005172) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ATOH1 (NM_005172) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ATOH1
Synonyms:	ATH1; bHLHa14; HATH1; MATH-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210192 representing NM_005172 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGCCCTGCTGCATGCAGAAGAGTGGGCTGAAGTGAAGGAGTTGGGAGACCACCATCGCCAGCCCC  
AGCCGCATCATCTCCCGCAACCGCCGCCCGCCGAGCCACCTGCAACTTTCAGGGCAGAGAGCATCC  
CGTCTACCGCCTGAGCTGTCCCTCCTGGACAGCACCCACCGCCCTGGCTGGCTCCCACTTTGCAG  
GGCATCTGCACGGCAGCGCCGCCAGTATTTGCTACATTCGCCGGAGCTGGGTGCCTCAGAGGCCGCTG  
CGCCCCGGGACGAGGTGGACGGCCGGGGGAGCTGGTAAGGAGGAGCAGCGCGGTGCCAGCAGCAGCAA  
GAGCCCCGGGCCGTGAAAGTGCGGGAACAGCTGTGCAAGCTGAAAGCGGGGTGGTGGTAGACGAGCTG  
GGCTGCAGCCGCCAACGGGCCCTTCCAGCAAACAGGTGAATGGGTGCAGAAGCAGAGACGGCTAGCAG  
CCAACGCCAGGGAGCGCGCAGGATGCATGGGCTGAACCACGCCCTTCGACCAGCTGCGCAATGTTATCCC  
GTGTTCAACAACGACAAGAAGCTGTCCAAATATGAGACCCTGCAGATGGCCAAATCTACATCAACGCC  
TTGTCCGAGCTGCTACAAACGCCAGCGGAGGGGAACAGCCACCGCCCTCCAGCCTCTGAAAAAGCG  
ACCACCACCACCTTCGCACCGCGCCTCCTATGAAGGGGGCGCGGCAACCGCAGCTGGGGCTCA  
GCAGGCTTCGGGAGGGAGCCAGCGGCCGACCCCGGGAGTTGCCGGACTCGTTCTCAGCCCCAGCT  
TCTGCGGAGGGTACTCGGTGCAGCTGGACGCTCTGACTTTCGACTTTCGAGGACAGCCCTGACAG  
CGATGATGGCGCAAAAGAATTTGTCTCTCTCTCCCGGAGCATCTTGACGCCAGTGCAGGAGGAAAA  
CAGCAAAACTTCGCTCGGTCCACAGAAGCGACGGGAATTTCCCGCCATTCCATTACAGTGACTCG  
GATGAGGCAAGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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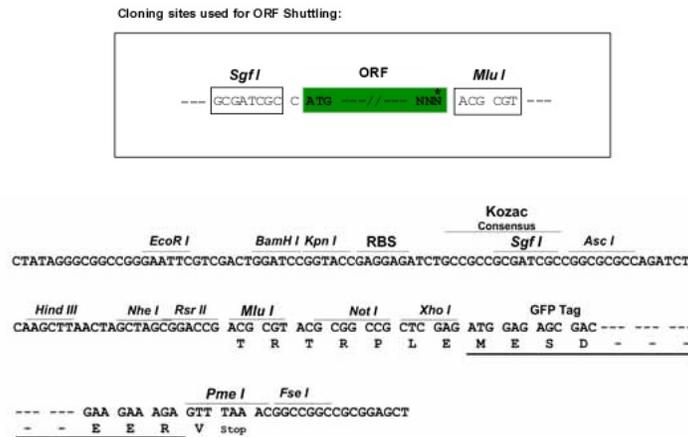
**Protein Sequence:** >RG210192 representing NM\_005172  
 Red=Cloning site Green=Tags(s)

MSRLLHAEWEAEVKELGDHHRQPQPHLLPQPPPPQPPATLQAREHPVYPPEL SLLDSTDPRAWLPTLQ  
 GICTARAAQYLLHSPELGASEAAAPRDEVDRGELVRRSSGGASSKSPGPVKVREQLCKLKGVVVDEL  
 GCSRQRAPSSKQVNGVQKQRRLAANARERRRMHGLNHAFDQLRNVIPSFNNDKKL SKYETLQMAQIYINA  
 LSELLQTPSGGEQPPPPASCKSDHHHLRTAASYEGGAGNATAAGAQQASGGSQRPTPPGSCRTRFSAPA  
 SAGGYSVQLDALHFSTFEDSALTAMMAQKNLSPSLPGSILQPVQEENSKTSPRSHRSDGEFSPHSHYSDS  
 DEAS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005172

**ORF Size:** 1062 bp

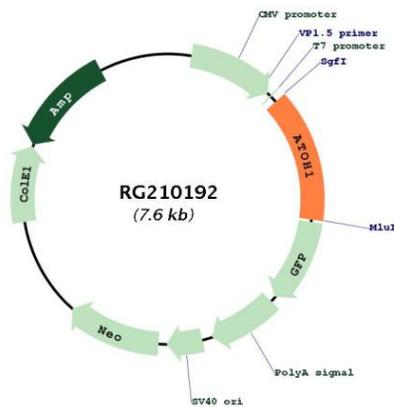
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_005172.2](#)
- RefSeq Size:** 1065 bp
- RefSeq ORF:** 1065 bp
- Locus ID:** 474
- UniProt ID:** [Q92858](#)
- Cytogenetics:** 4q22.2
- Protein Families:** Druggable Genome, Transcription Factors
- Gene Summary:** This protein belongs to the basic helix-loop-helix (BHLH) family of transcription factors. It activates E-box dependent transcription along with E47. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG210192