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Product datasheet for RC210192

ATOH1 (NM_005172) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ATOH1 (NM_005172) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ATOH1
Synonyms:	ATH1; bHLHa14; HATH1; MATH-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC210192 representing NM_005172
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCCGCCTGCTGCATGCAGAAGAGTGGGCTGAAGTGAAGGAGTTGGGAGACCACCATCGCCAGCCCC
AGCCGCATCATCTCCCGCAACCGCCGCCGCCGCCGCAGCCACCTGCAACTTTGCAGGCGAGAGAGCATCC
CGTCTACCCGCCTGAGCTGTCCCTCCTGGACAGCACCGACCCACGCGCCTGGCTGGCTCCCACTTTGCAG
GGCATCTGCACGGCACGCGCCGCCCAGTATTTGCTACATTCCCCGGAGCTGGGTGCCTCAGAGGCCGCTG
CGCCCCGGGACGAGGTGGACGGCCGGGGGGAGCTGGTAAGGAGGAGCAGCGGCGGTGCCAGCAGCAGCAA
GAGCCCCGGGCCGGTGAAAGTGCGGGAACAGCTGTGCAAGCTGAAAGGCGGGGTGGTGGTAGACGAGCTG
GGCTGCAGCCGCCAACGGGCCCCTTCCAGCAAACAGGTGAATGGGGTGCAGAAGCAGAGACGGCTAGCAG
CCAACGCCAGGGAGCGGCGCAGGATGCATGGGCTGAACCACGCCTTCGACCAGCTGCGCAATGTTATCCC
GTCGTTCAACAACGACAAGAAGCTGTCCAAATATGAGACCCTGCAGATGGCCCAAATCTACATCAACGCC
TTGTCCGAGCTGCTACAAACGCCCAGCGGAGGGGAACAGCCACCGCCGCCTCCAGCCTCCTGCAAAAGCG
ACCACCACCACCTTCGCACCGCGGCCTCCTATGAAGGGGGCGCGGGCAACGCGACCGCAGCTGGGGCTCA
GCAGGCTTCCGGAGGGAGCCAGCGGCCGACCCCGCCCGGGAGTTGCCGGACTCGCTTCTCAGCCCCAGCT
TCTGCGGGAGGGTACTCGGTGCAGCTGGACGCTCTGCACTTCTCGACTTTCGAGGACAGCGCCCTGACAG
CGATGATGGCGCAAAAGAATTTGTCTCCTTCTCTCCCCGGGAGCATCTTGCAGCCAGTGCAGGAGGAAAA
CAGCAAAACTTCGCCTCGGTCCCACAGAAGCGACGGGGAATTTTCCCCCCATTCCCATTACAGTGACTCG
GATGAGGCAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

>RC210192 representing NM_005172
Red=Cloning site Green=Tags(s)

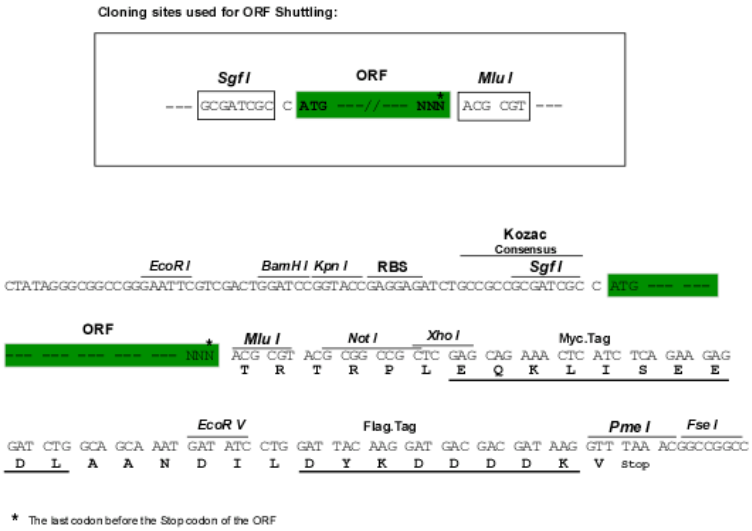
MSRLLHAEEWAEVKELGDHHRQPQPHHLPQPPPPPQPPATLQAREHPVYPPELSLLDSTDPRAWLAPTLQ
GICTARAAQYLLHSPELGASEAAAPRDEVDGRGELVRRSSGGASSSKSPGPVKVREQLCKLKGGVVVDEL
GCSRQRAPSSKQVNGVQKQRRLAANARERRRMHGLNHAFDQLRNVIPSFNNDKKLSKYETLQMAQIYINA
LSELLQTPSGGEQPPPPPASCKSDHHHLRTAASYEGGAGNATAAGAQQASGGSQRPTPPGSCRTRFSAPA
SAGGYSVQLDALHFSTFEDSALTAMMAQKNLSPSLPGSILQPVQEENSKTSPRSHRSDGEFSPHSHYSDS
DEAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2482_d03.zip

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 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

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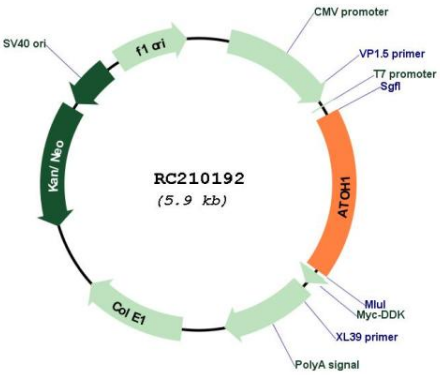
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid 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
MW:	38 kDa
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 RC210192

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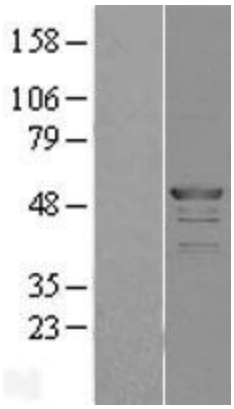

Western blot validation of overexpression lysate (Cat# [LY401583]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210192 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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