

Product datasheet for MR225892

Atoh1 (NM_007500) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Atoh1 (NM_007500) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atoh1
Synonyms:	bHLHa14; Hath1; MATH-1; Math1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225892 representing NM_007500 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCCCTGCTGCATGCAGAAGAGTGGGCTGAGGTAAAAGAGTTGGGGGACCACCATCGCCATCCCC
AGCCGCACCACGTCCCGCCGCTGACGCCACAGCCACCTGCTACCTGCAGGCGAGAGACCTTCCCGTCTA
CCCGGCAGAACTGTCCCTCCTGGATAGCACCGACCCACGCGCCTGGTGACTCCCACTTTGCAGGGCCTC
TGCACGGCACGCGCCGCCAGTATCTGCTGCATTCTCCGAGCTGGGTGCCTCCGAGGCCGCGGCCCC
GGGACGAGGCTGACAGCCAGGGTGAAGTAAAGGAGGAGCGGCTGTGGCGCCCTCAGCAAGAGCCCGG
GCCCGTCAAAGTACGGGAACAGCTGTGCAAGCTGAAGGGTGGGGTTGTAGTGGACGAGCTTGGCTGCAGC
CGCCAGCGAGCCCTTCCAGCAAACAGGTGAATGGGGTACAGAAGCAAAGGAGGCTGGCAGCAAACGCAA
GGGAACGGCGCAGGATGCACGGGCTGAACCACGCCTTCGACCAGCTGCGCAACGTTATCCCGTCTTCAA
CAACGACAAGAAGCTGTCCAAATATGAGACCCTACAGATGGCCAGATCTACATCAACGCTCTGTGCGGAG
TTGCTGCAGACTCCCAATGTGCGGAGAGCAACCGCCGCGCCACAGCTTCTGCAAAAATGACCACCATC
ACCTTCGACCCGCTCCTCCTATGAAGGAGGTGCGGGCGCCTCTGCGGTAGCTGGGGCTCAGCCAGCCCC
GGGAGGGGGCCCGAGACCTACCCCGCCCGGGCCTTGCCGGACTCGCTTCTCAGGCCAGCTTCTCTGGG
GGTACTCGGTGCAGCTGGACGCTTTCGACTTCCAGCCTTCGAGGACAGGGCCTAACAGCGATGATGG
CACAGAAGGACCTGTGCGCTTCGCTGCCCGGGGATCCTGCAGCCTGTACAGGAGGACAACAGCAAAAC
ATCTCCAGATCCACAGAAGTACGAGGAGTTTTCCCCCACTCTCATTACAGTACTCTGATGAGGCC
AGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR225892 representing NM_007500
 Red=Cloning site Green=Tags(s)

MSRLLHAEWEAEVKELGDHHRHPQPHVPLTPQPPATLQARDLPVYPAELSLLDSTDPRAWLTPTLQGL
 CTARAAQYLLHSPELGASEAAAPRDEADSQGELVRRSGCGGLSKSPGPVKVREQLCKLKGVVVDELGCS
 RQRAPSSKQVNGVQKQRRLAANARERRRMHGLNHAFDQLRNVIPSFNNDKLSKYETLQMAQIYINALSE
 LLQTPNVGEQPPPTASCKNDHHHLRTASSYEGGAGASAVAGAQPAPGGGPRPTPPGPCRTRFSGPASSG
 GYSVQLDALHFPAFEDRAL TAMMAQKDLSPSLPGGILQPVEDNSKTSPRSHRSDGEFSPHSHYSDSDEA
 S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9036_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007500

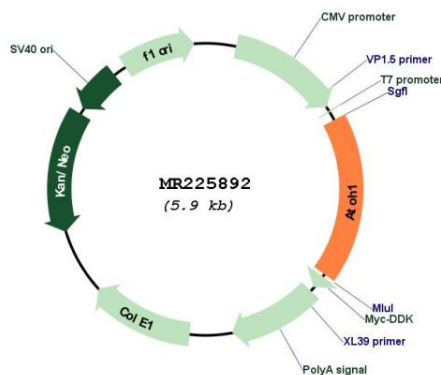
ORF Size: 1053 bp

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](#)

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:	<ol style="list-style-type: none">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_007500.5
RefSeq Size:	2118 bp
RefSeq ORF:	1056 bp
Locus ID:	11921
UniProt ID:	P48985
Cytogenetics:	6 30.03 cM
MW:	38.3 kDa
Gene Summary:	Transcriptional regulator. Activates E box-dependent transcription in collaboration with TCF3/E47, but the activity is completely antagonized by the negative regulator of neurogenesis HES1. Plays a role in the differentiation of subsets of neural cells by activating E box-dependent transcription.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225892