

Product datasheet for **RR201619**

Atoh1 (NM_001109238) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Atoh1 (NM_001109238) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Atoh1
Synonyms: RGD1565171
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201619 representing NM_001109238
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTC**CCCGCTGCTGCATGCAGAAGAGTGGGCTGAGGTA**AAAGAGTTGGGGGACCACCATCGCCATCCCC
AGCCGCACCACATCCCTCAGCTGACGCCACAGCCACCTGCTACCCACAGCGGAGAGACCATCCGGTCTA
CCCGGCAGAACTGTCCTCCTGGATAGCACCGACCCACGCGCCTGGCTGACTCCCACTTTGCAGGGCCTC
TGACGGCAGCGCCGCCAGTATCTGCTGCATTCTCCGAGCTGGGTGCCTCCGAGGCCGCGGCCCG
GGGACGAGGCTGACGGCCAGGCTGAGCTGGTAAGGAGAAGCGGCTGCGGGCCCTCAGCAAGAGCCCGG
GCCGGTAAAAGTGCGGGAACAAGTGTGCAAGCTGAAGGGCGGGTGTAGTAGACGAGCTGGGCTGCAGC
CGCCAGCGAGCCCTTCCAGCAAACAGGTGAATGGGGTACAGAAGCAAAGCGACTGGCAGCAAACGCAA
GGGAGCGGCGCAGGATGCACGGGCTGAACCACGCCTTCGACCAGCTGCGCAACGTTATCCCGTCTTCAA
CAACGACAAGAAGCTGTCCAAATATGAGACCCTGCAGATGGCCAGATCTACATCAACGCCTGTCCGGAG
TTGCTGCAGACTCCAGTGTCCGAGAGCAGCCACCGCCAGCAGCCTCTGCAAAAATGACCACCATC
ACCTTCGCGCAGCCGCTCTTATGAAGGAGGAGCAGGCGCCTCTGCGGTAGCTGGGGCTCAGCCAGCCCC
GGGAGGGGGCCGAGACCCACCCCGCTGGAGCTTGCAGGACTCGCTTCTCACCCAGCTTCTCCGGG
GGTTATTCAGTGCAGCTGGACGCTTTGCACTTTCCAGTTTTGAGGACCGGGCCCTAACAGCGATGATGG
CACAGAAGGACCTGTGCGCTTCGCTGCCGGGGGCATCCTGCAGCCAGTACCGGAGGACAGCAGAAAAA
ATCTCCAGGTCCACAGAAGTGACGGAGAGTTTTCCCCCACTCTCATTACAGTACTCTGACGAGGCC
AGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR201619 representing NM_001109238
 Red=Cloning site Green=Tags(s)

MSRLLHAEWEAEVKELGDHHRHPQPHHIPQLTPQPPATLQARDHPVYPaelSLLDSTDPRAWLTPTLQGL
 CTARAAQYLLHSPeLGASEAAAPGDEADGQGeLVRRSGCGGLSKSPGPKVREQLCKLKGgVVVDELGCS
 RQRAPSSKQVNGVQKQRRLAANARERRRMHGLNHAFDQLRNVIPSFNNDKkLSKYeTLQMAQIYINALSE
 LLQTPSVGeQPPPPAASCKNDHHLRAAASYEGGAGASAVAGAQpAPGGGPRPTPPGACRTRFSTPASSG
 GYSVQLDALHFPAFEDRAL TAMMAQKDLSPSLPGGILQVPEDSSKTSRSHRSdGEFSPhSHYSdSDEA
 S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

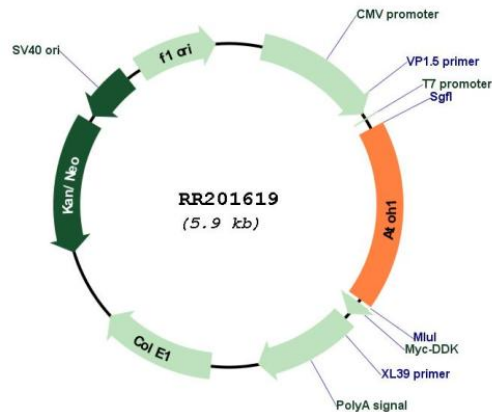
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001109238

ORF Size:	1053 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:	<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_001109238.1 , NP_001102708.1
RefSeq Size:	2096 bp
RefSeq ORF:	1056 bp
Locus ID:	500156
Cytogenetics:	4q31
MW:	37.7 kDa