

Product datasheet for **RC239265**

ASCIZ (ATMIN) (NM_001300728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASCIZ (ATMIN) (NM_001300728) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ASCIZ
Synonyms:	ASCIZ; ZNF822
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC239265 representing NM_001300728
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAATGCATGCTGAGAAGAAGCACAATGTAGTAAGTGCAGCAATTCGTACGGTACAGAATGGGACC
 TGAAGAGACATGCAGAGGACTGTGGCAAGACCTCCGGTGCACATGCGGCTGTCCCTACGCCAGTAGAAC
 AGCACTGCAGTCTCACATCTACCGAAGTGGCAGCAGATACCTGCAGAACACAGGGACCCACCTAGTAAG
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 ACAGCAATGGATGACTTTCTTCTGGCTGATCTGGCCTGGAACACGATGGAGTCTCAGTTCAGCTCTGTAG
 AAACCCAGACTTCTGCGGAACACACAGTCTCCAACCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC239265 representing NM_001300728
 Red=Cloning site Green=Tags(s)

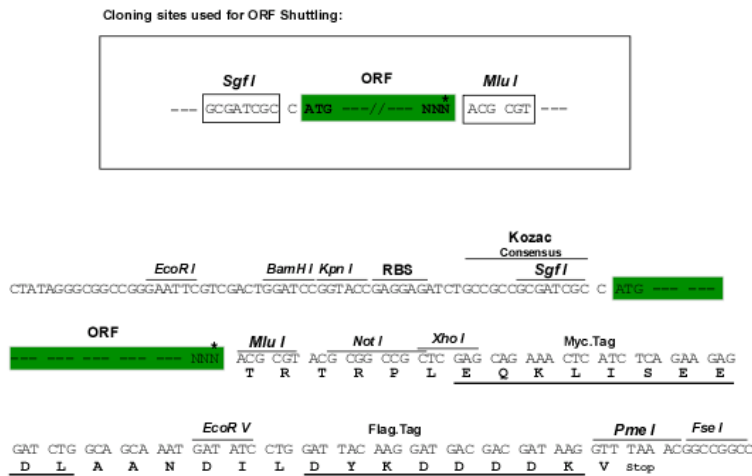
MKMHAEEKKHKCSKCSNSYGTWDLKRHAEDCGKTRCTCGCPYASRTALQSHIYRTGHEIPAHRDPPSK
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 PLFKIANPIAGEPISTGVQVNFVKSPSNPLQELGNTCQKNSISSINVQTDLSYASQNFIPSAQWATADSS
 VSSCSQTDLSFDSQVSLPISVHTQTFLPSSKVTSSIAAQDAFMDTCFQSGGVSRETQTSGIESPTDDHV
 QMDQAGMCGDIFESVHSSYNVATGNIISNSLVAETVTHSLLPQNEPKTLNQDIEKSAPIINFSAQNSMLP
 SQNMTDNQTQTIDLLSDLENILSSNLPQATLDHRSLLSDTNPGPDTQLPSGPAQNPGIDFDIEEFFSASN
 IQTQTEESELSTMTTEPVLESLDIETQTDFFLADTSAQSYGCRGNSNFLGLEMFDTQTQTDLNFLLDSSP
 HLPGLSILKHSSFSVSTDSSDTETQTEGVSTAKNIPALESKVQLNSTETQTMSSGFETLGSLLFFTSNETQ
 TAMDDFLADLAWNTMESQFSSVETQTSAPHTVSNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



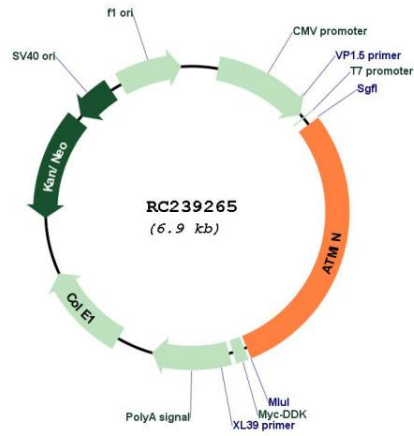
* The last codon before the Stop codon of the ORF

ACCN: NM_001300728

ORF Size: 2001 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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_001300728.2
RefSeq Size:	4806 bp
RefSeq ORF:	2004 bp
Locus ID:	23300
UniProt ID:	O43313
Cytogenetics:	16q23.2
MW:	72.8 kDa
Gene Summary:	Transcription factor. Plays a crucial role in cell survival and RAD51 foci formation in response to methylating DNA damage. Involved in regulating the activity of ATM in the absence of DNA damage. May play a role in stabilizing ATM. Binds to the DYNLL1 promoter and activates its transcription.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC239265